

1.Explanation of part number :

RF	MTA	1107	00	N	N	L	B	0	04
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	Metal Antenna	Per 2 digits of length, width e.g.:1107 Length 11.35 mm, Width 7.85mm	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 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 (Note-1)
Return Loss	-10dB(Max)
Peak Gain	ANT1:1.20 dBi(@2.4 ~ 2.5 GHz) ANT1:3.25 dBi(@5.15 ~ 5.85 GHz) ANT2:1.76 dBi(@2.4 ~ 2.5 GHz) ANT2:3.55 dBi(@5.15 ~ 5.85 GHz)
VSWR	< 2.0
Polarization	Linear Vertical
Admitted Power	1W
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

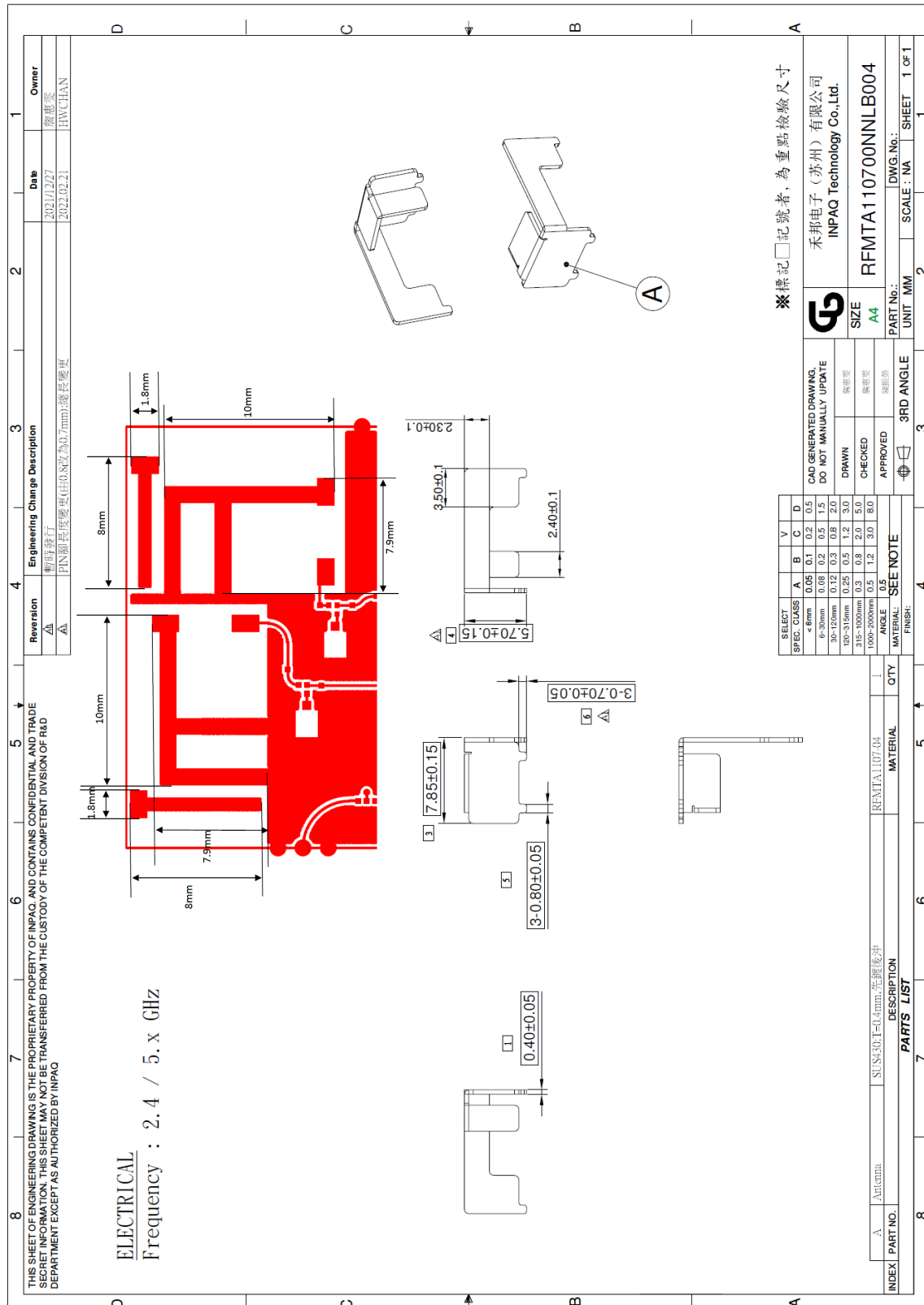
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A0

3. Antenna Drawing :



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ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 詹惠愛

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DESIGNED BY : 黃瑞郎

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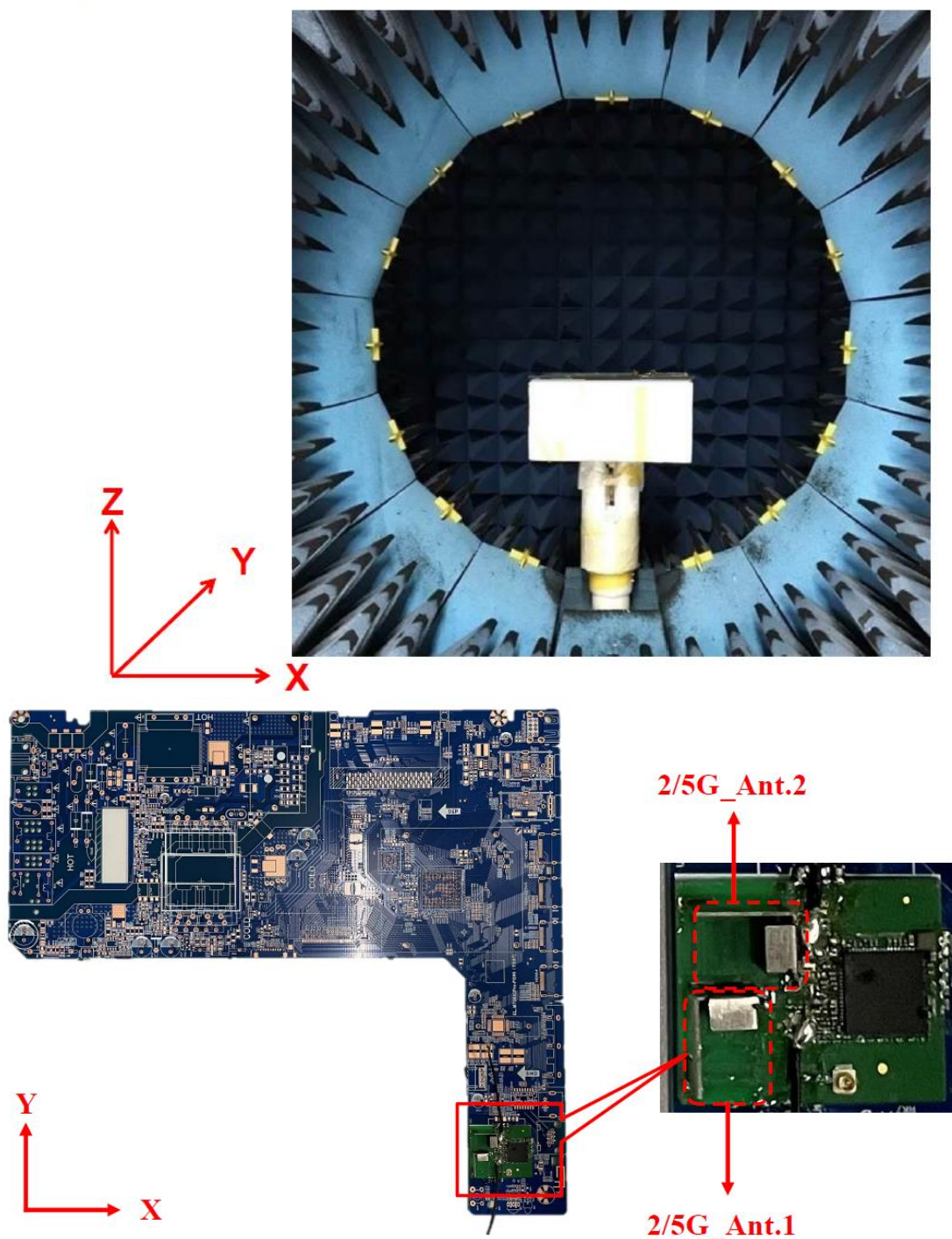
TITLE : RFMTA110700NNLB004

DOCUMENT
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4. Performance Report :

Test Report**Experimental Setup**

Experimental Setup



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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E : N/A	UNIT : mm
DRAWN BY : 詹惠雯	CHECKED BY : 詹惠雯
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮

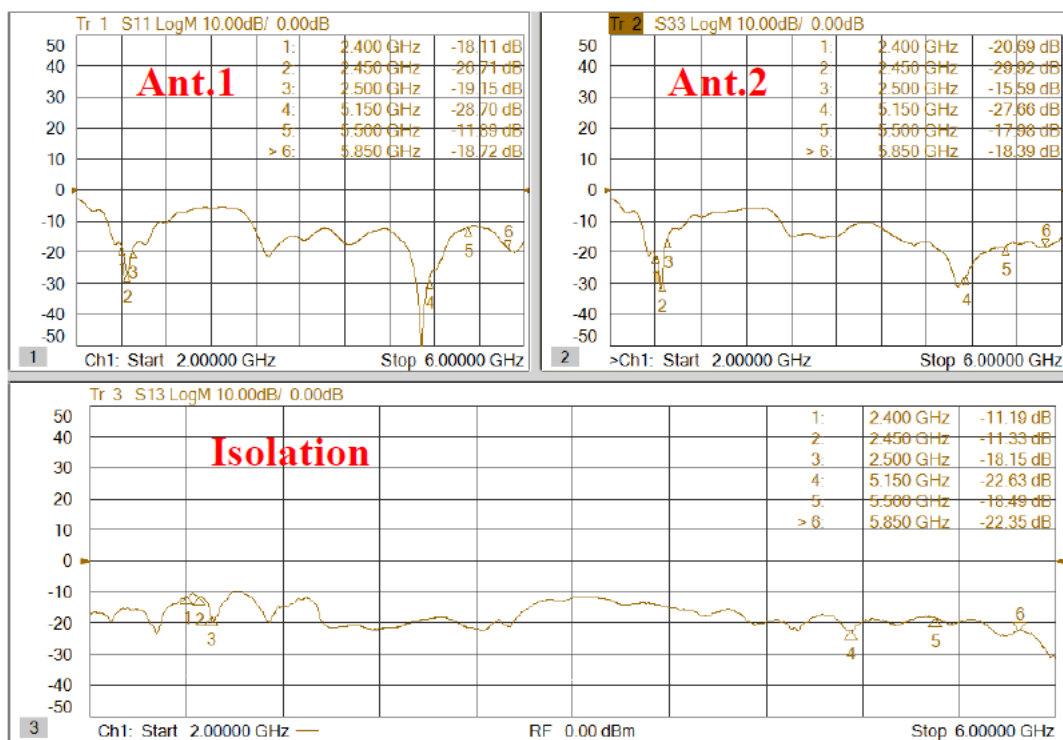
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ELECTRICAL CHARACTERISTICS

Return Loss & Isolation



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 : 詹惠雯

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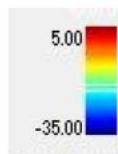
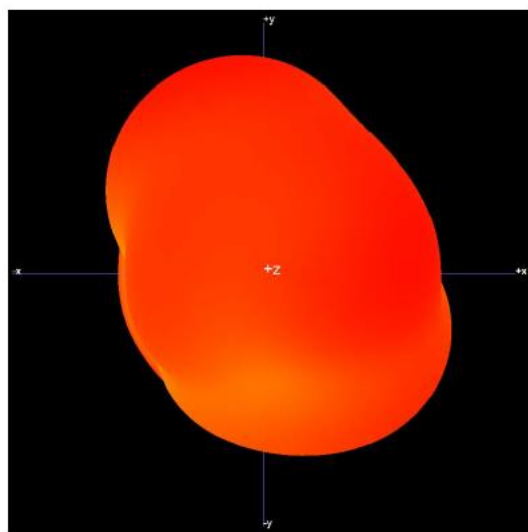
DOCUMENT
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SPEC REV.
A0

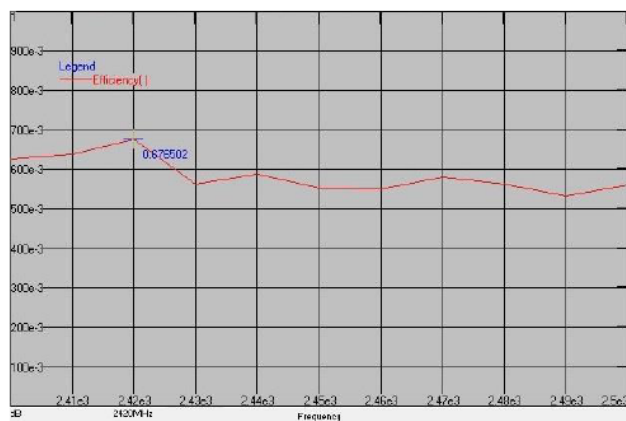
Antenna Efficiency and Peak Gain

Ant.1_2G

2450 MHz



Frequency [MHz]	Gain [dBi]	Efficiency_Pcent
2410	0.42	64.38%
2420	1.20	67.65%
2430	0.38	57.13%
2440	0.42	58.82%
2450	0.39	56.23%
2460	0.35	55.22%
2470	0.49	58.51%
2480	0.42	57.12%
2490	0.21	53.51%
2500	0.11	56.15%



Maximum Efficiency at 2420 MHz : 67.65 %



Maximum Peak Gain at 2420 MHz : 1.20 dBi

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

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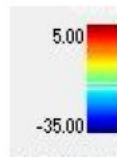
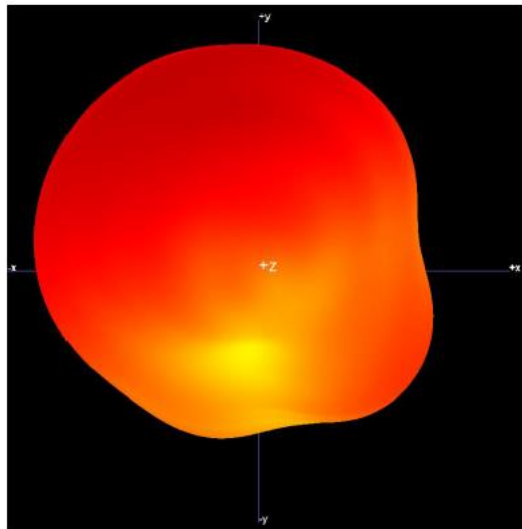
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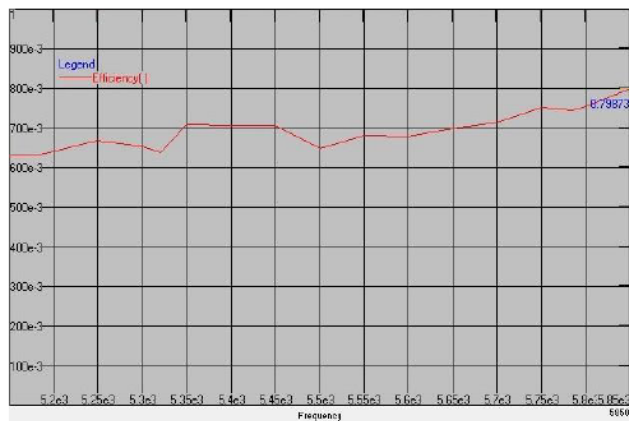
TITLE : RFMTA110700NNLB004

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Ant.1_5G**5500 MHz**

Frequency [MHz]	Gain [MHz]	Efficiency Pcent
5150	1.76	62.87%
5200	2.93	64.15%
5300	2.90	65.12%
5400	3.13	70.05%
5500	2.40	65.23%
5550	2.65	68.21%
5600	2.51	68.03%
5700	3.01	71.20%
5800	3.25	75.21%
5850	3.13	79.87%



Maximum Efficiency at 5850 MHz : 79.87 %



Maximum Peak Gain at 5800 MHz : 3.25 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

DRAWN BY : 詹惠雯

CHECKED BY : 詹惠雯

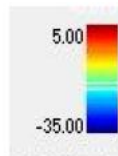
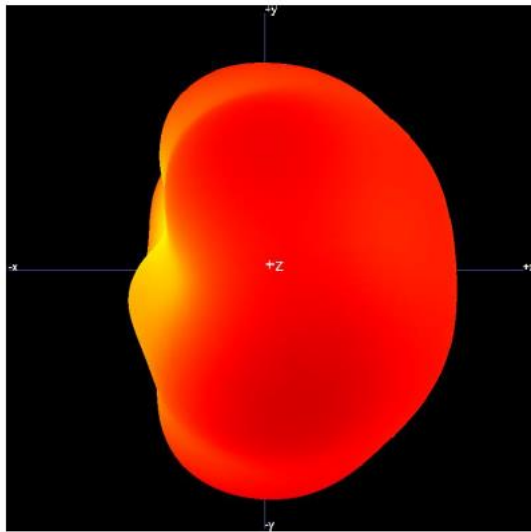
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APPROVED BY : 陳振榮

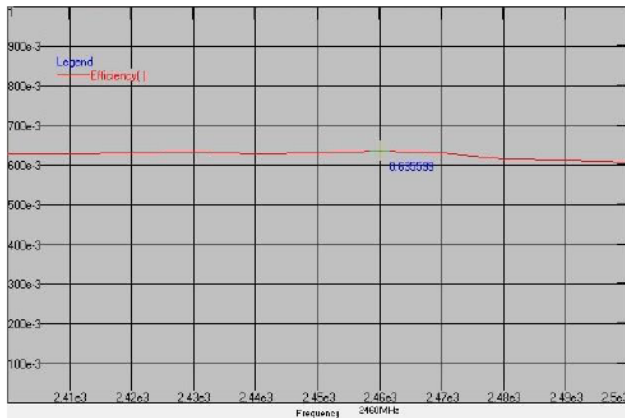
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Ant.2_2G**2450 MHz**

Frequency [MHz]	Gain [dBi]	Efficiency_Pcent
2410	1.63	62.38%
2420	1.62	62.15%
2430	1.66	62.13%
2440	1.76	62.55%
2450	1.58	61.13%
2460	1.59	63.55%
2470	1.58	62.51%
2480	1.65	61.12%
2490	1.61	61.21%
2500	1.10	60.23%



Maximum Efficiency at 2460 MHz : 63.55 %



Maximum Peak Gain at 2440 MHz : 1.76 dBi

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

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CHECKED BY : 詹惠雯

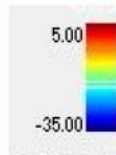
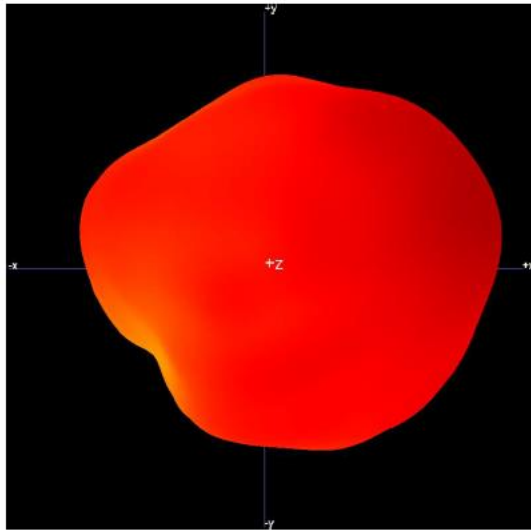
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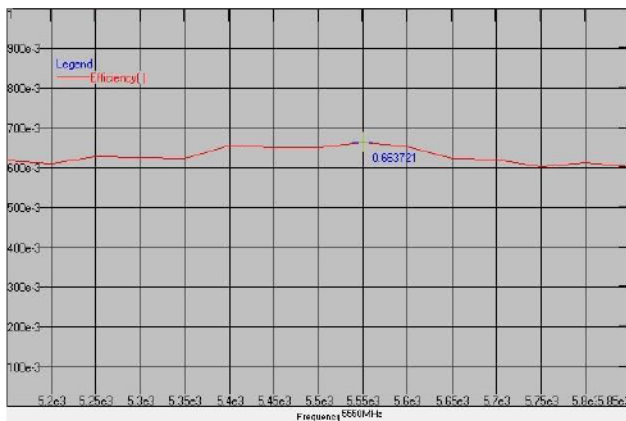
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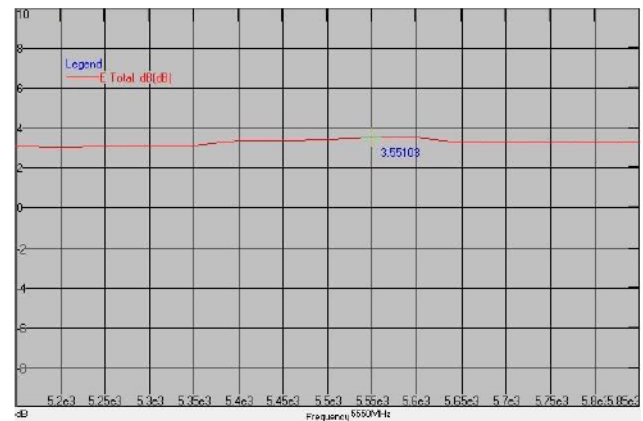
DOCUMENT
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A0

Ant.2_5G**5500 MHz**

Frequency [MHz]	Gain [MHz]	Efficiency Pcent
5150	2.54	60.29%
5200	2.98	61.12%
5300	3.01	62.51%
5400	3.12	65.18%
5500	3.23	65.27%
5550	3.55	66.37%
5600	3.51	65.22%
5700	3.15	62.13%
5800	3.21	61.21%
5850	3.12	60.00%



Maximum Efficiency at 5550 MHz : 66.37 %



Maximum Peak Gain at 5550 MHz : 3.55 dBi

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

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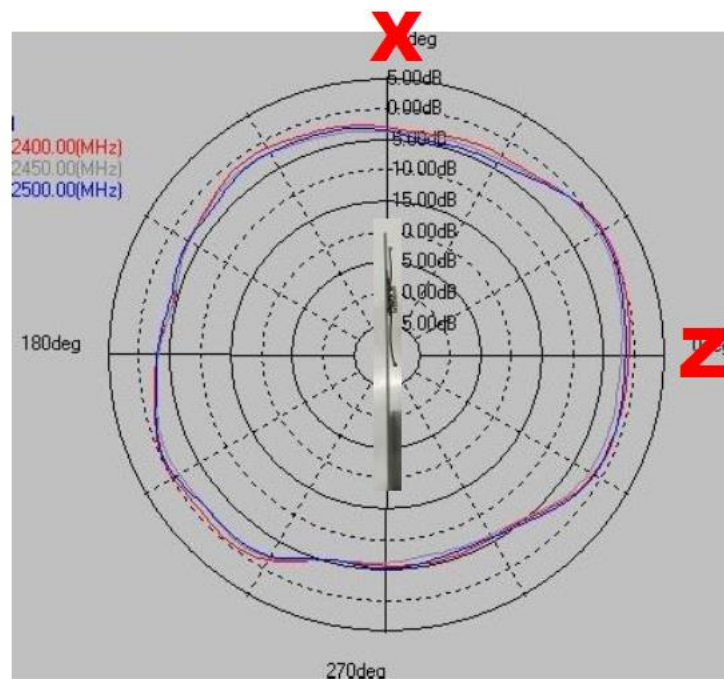
RADIATION PATTERN

Ant.1
2400 ~ 2500MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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

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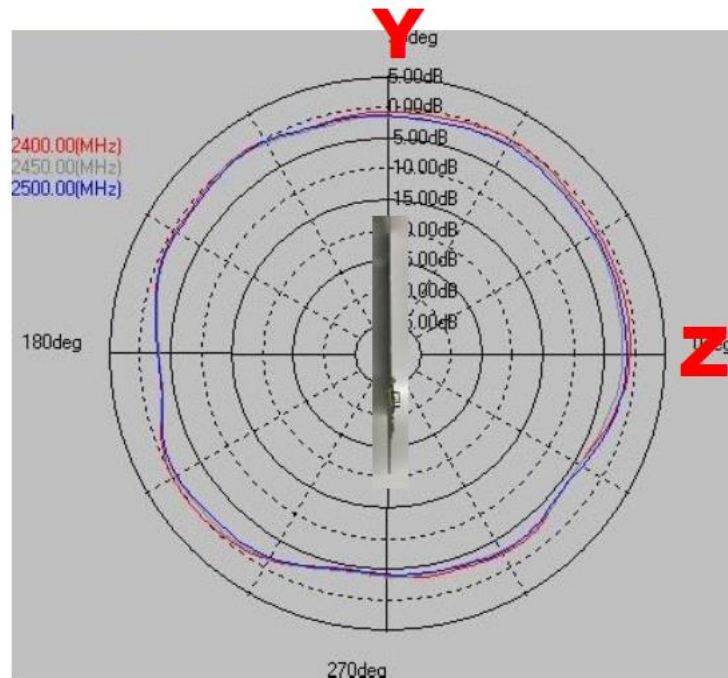
DOCUMENT
NO.

SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

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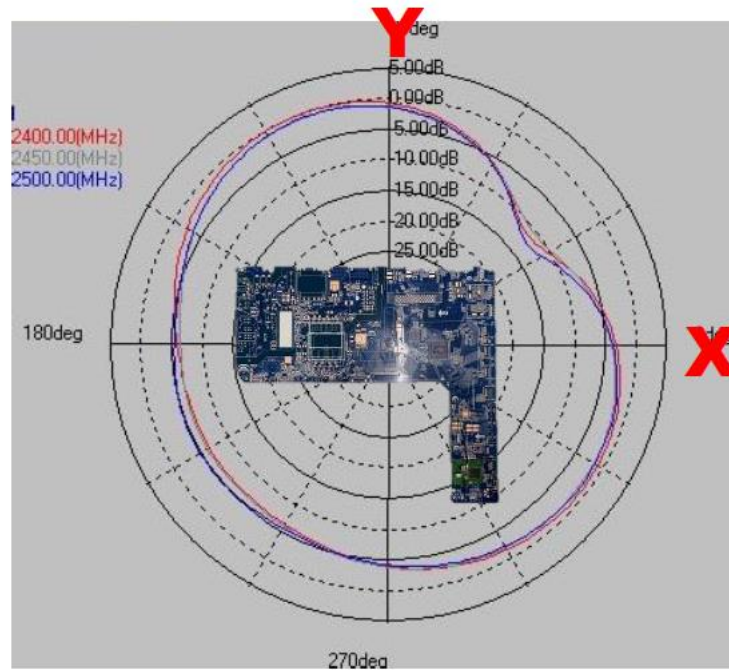
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



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A0

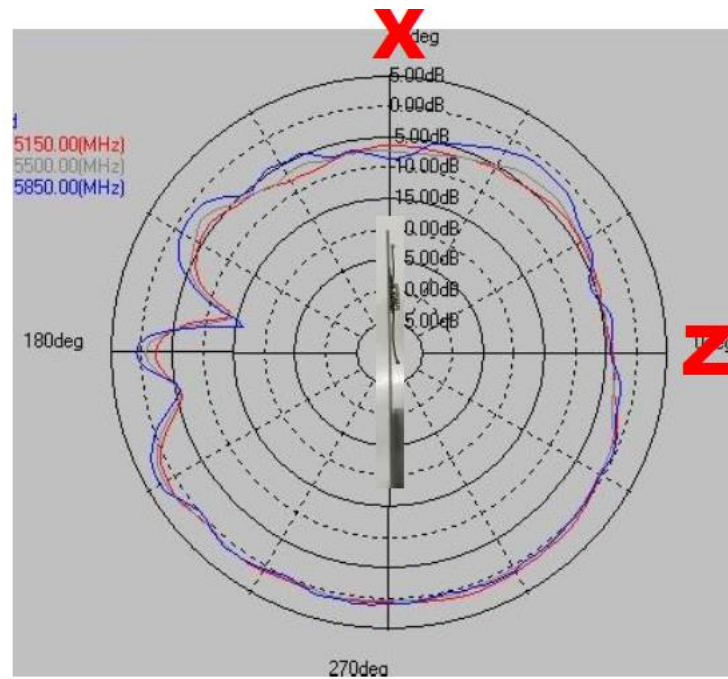
Ant.1

5150 ~ 5850MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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



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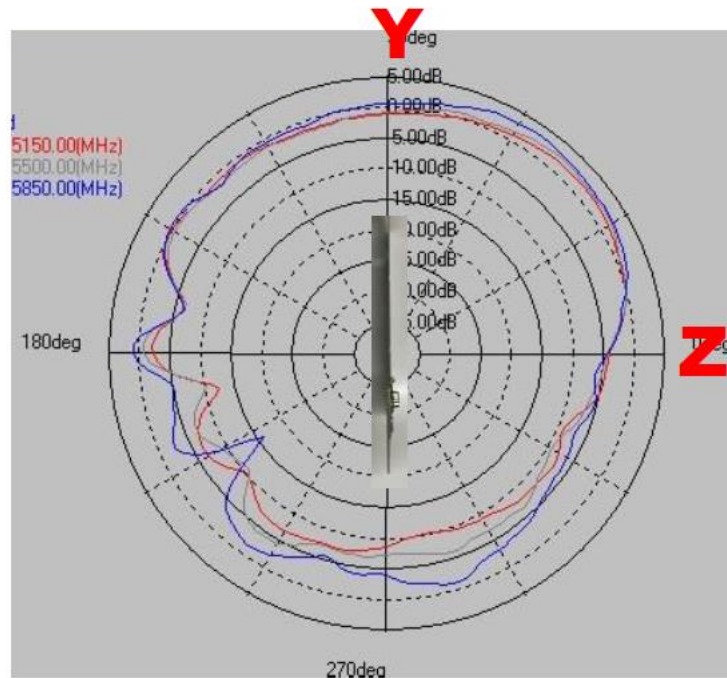
DOCUMENT
NO.

SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



UNLESS OTHER SPECIFIED TOLERANCES ON :
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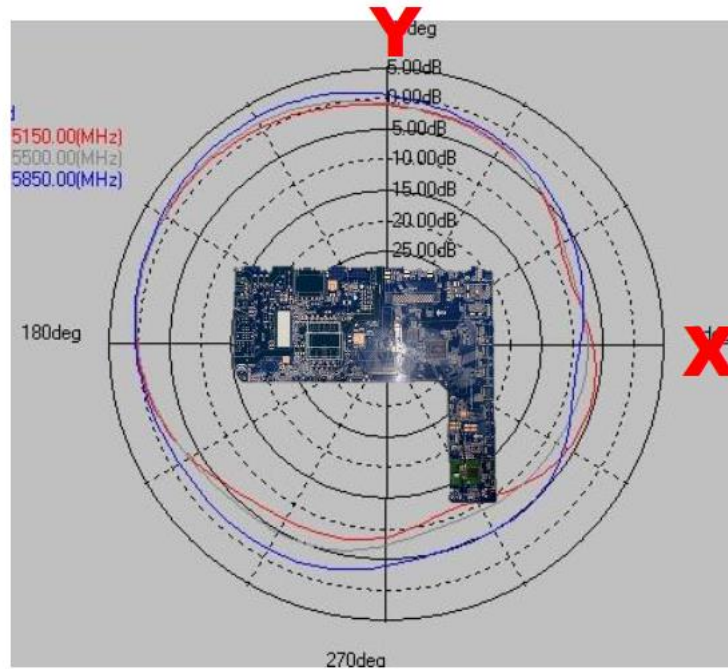
DOCUMENT
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



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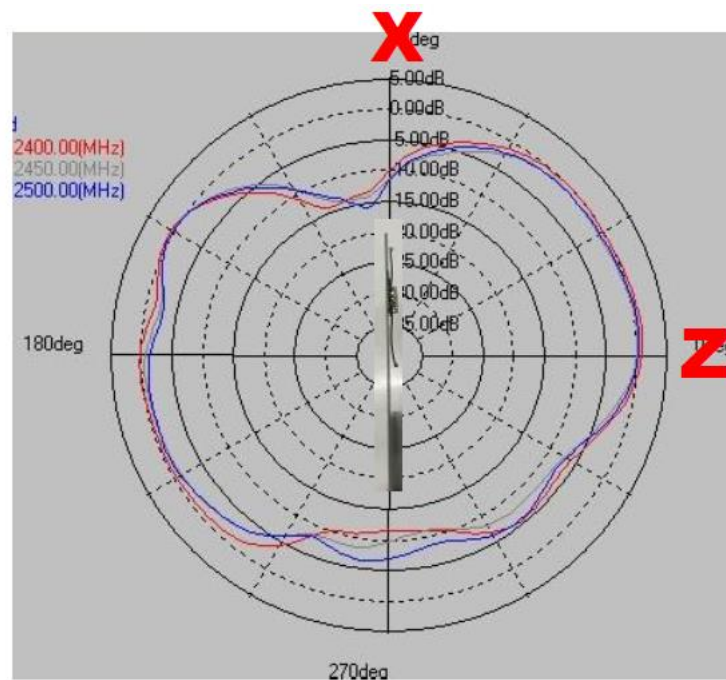
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DOCUMENT
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SPEC REV.
A0

Ant.2**2400 ~ 2500MHz****X-Z Plane****Phi=0.00deg****Gain . dB**

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

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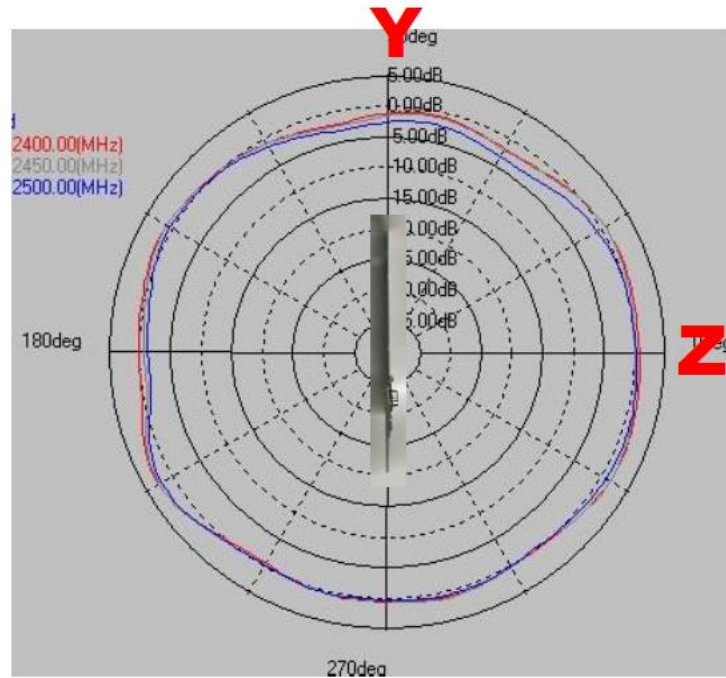
DOCUMENT
NO.

SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



UNLESS OTHER SPECIFIED TOLERANCES ON :
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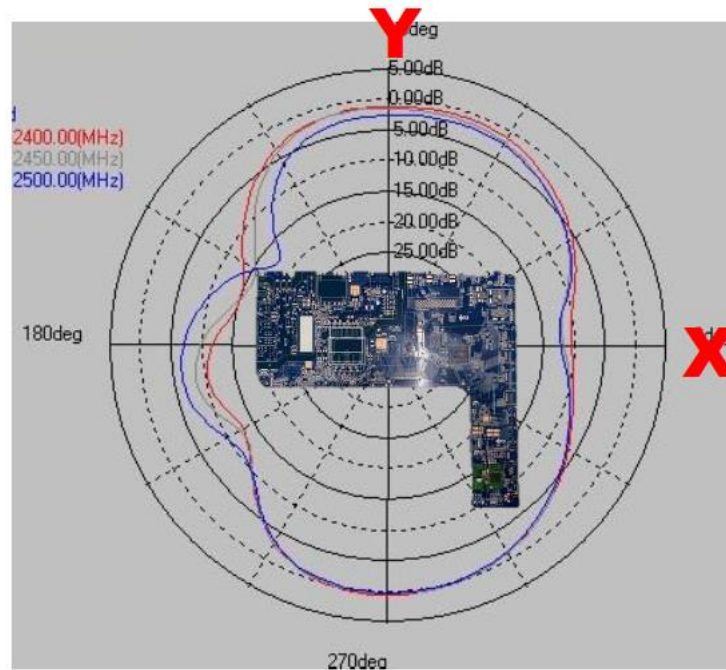
DOCUMENT
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



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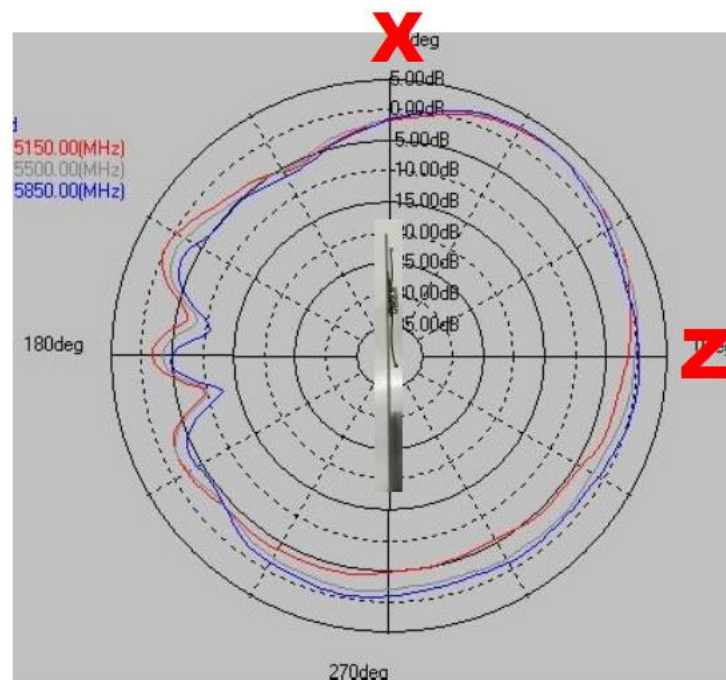
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Ant.2**5150 ~ 5850MHz****X-Z Plane****Phi=0.00deg****Gain . dB**

UNLESS OTHER SPECIFIED TOLERANCES ON :
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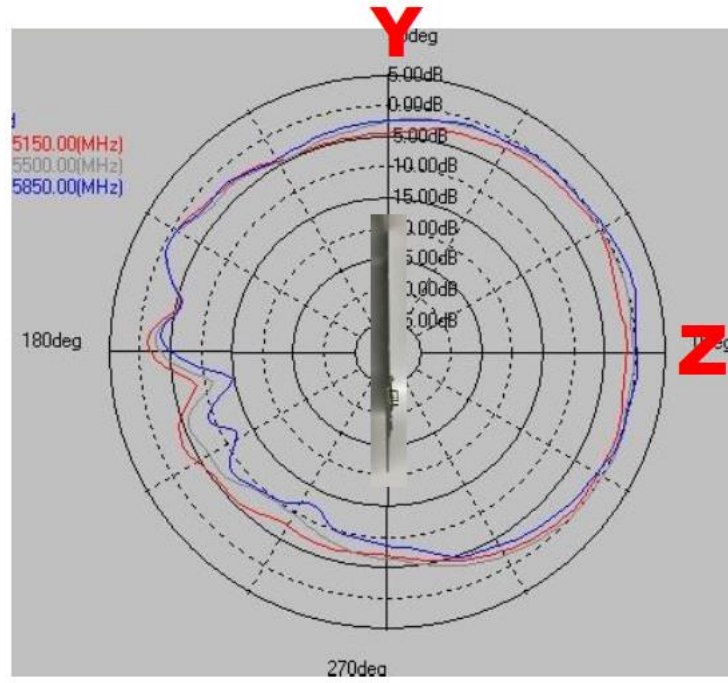
DOCUMENT
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



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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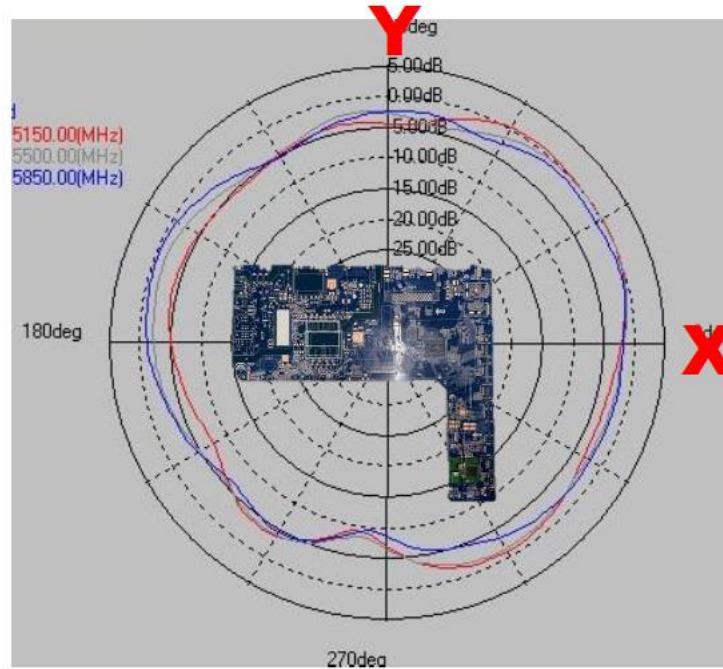
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



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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