

APPROVAL SHEET

Metal ANTENNA

2.4 ~ 2.5 GHz Band Working Frequency

Halogens Free Product

P/N: RFMTA161425IMAB401

Customer : 光寶科技股份有限公司

Customer 's Part No. : _____

Approval No. : _____

Issue Date : _____

*Contents in this sheet are subject to change without prior notice.



品名：**RFMTA161425IMAB401**

History List

[illegible]

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UNLESS OTHER SPECIFIED TOLERANCES ON :
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TITLE : RFMTA161425IMAB401

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1.Explanation of part number :

RF	MTA	1614	25	I	M	A	B	4	01
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.: 1614 Length 166.0mm, Width 140.0mm	2 digits for cable length e.g.:25 Cable Length 2G1:22.0cm 2G2:25.0cm 5G1:23.0cm 5G2:15.0cm BT:21.0cm	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 5: 5GHz 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 GHz
Return Loss	-10 dB
Peak Gain	2G1:7.51 dBi 2G2::7.41 dBi 52G1:6.76 dBi 5G2::7.58 dBi BT:7.38
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω
Operation Temperature	-20℃ ~ +65℃

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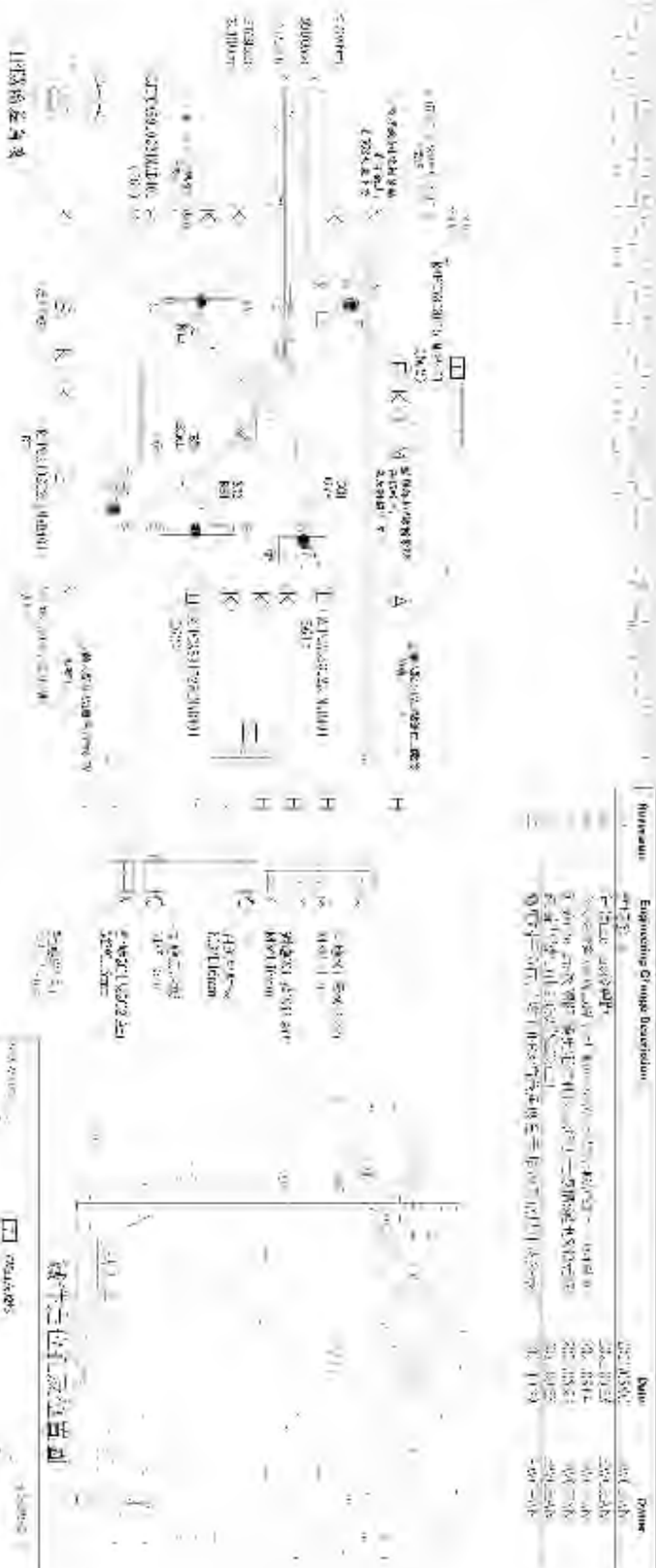
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作樂直點備註

(1) 於底版上作露銅處方，用 SODUM CORNING 744

（五）三つの大原則のうち、第一の原則は、経済建設を第一とし、政治的統一を第二とし、民族の平等と民族の団結を第三とする。

(2) 螺付螺絲以電動螺絲起子設定扭力值為500g

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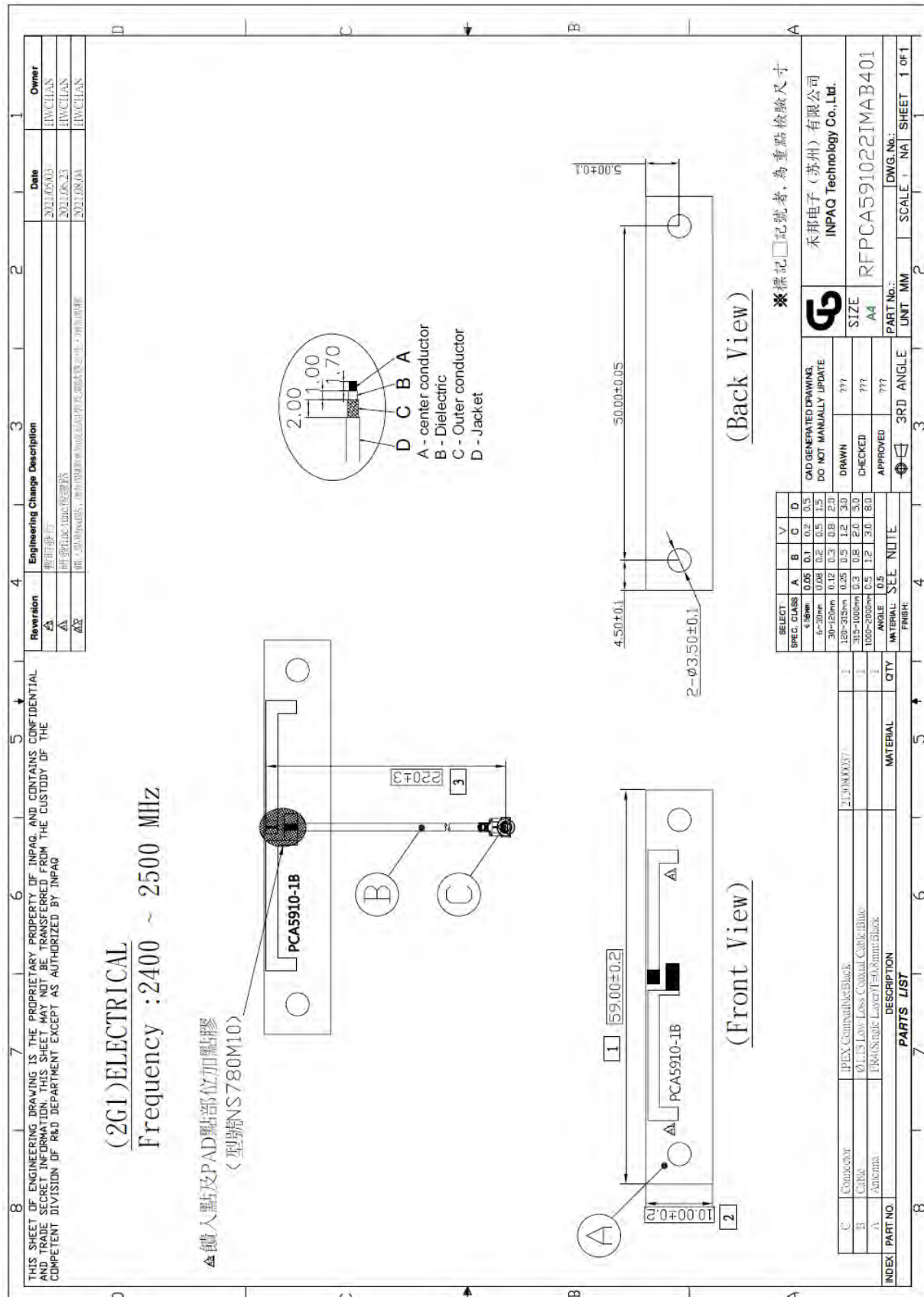
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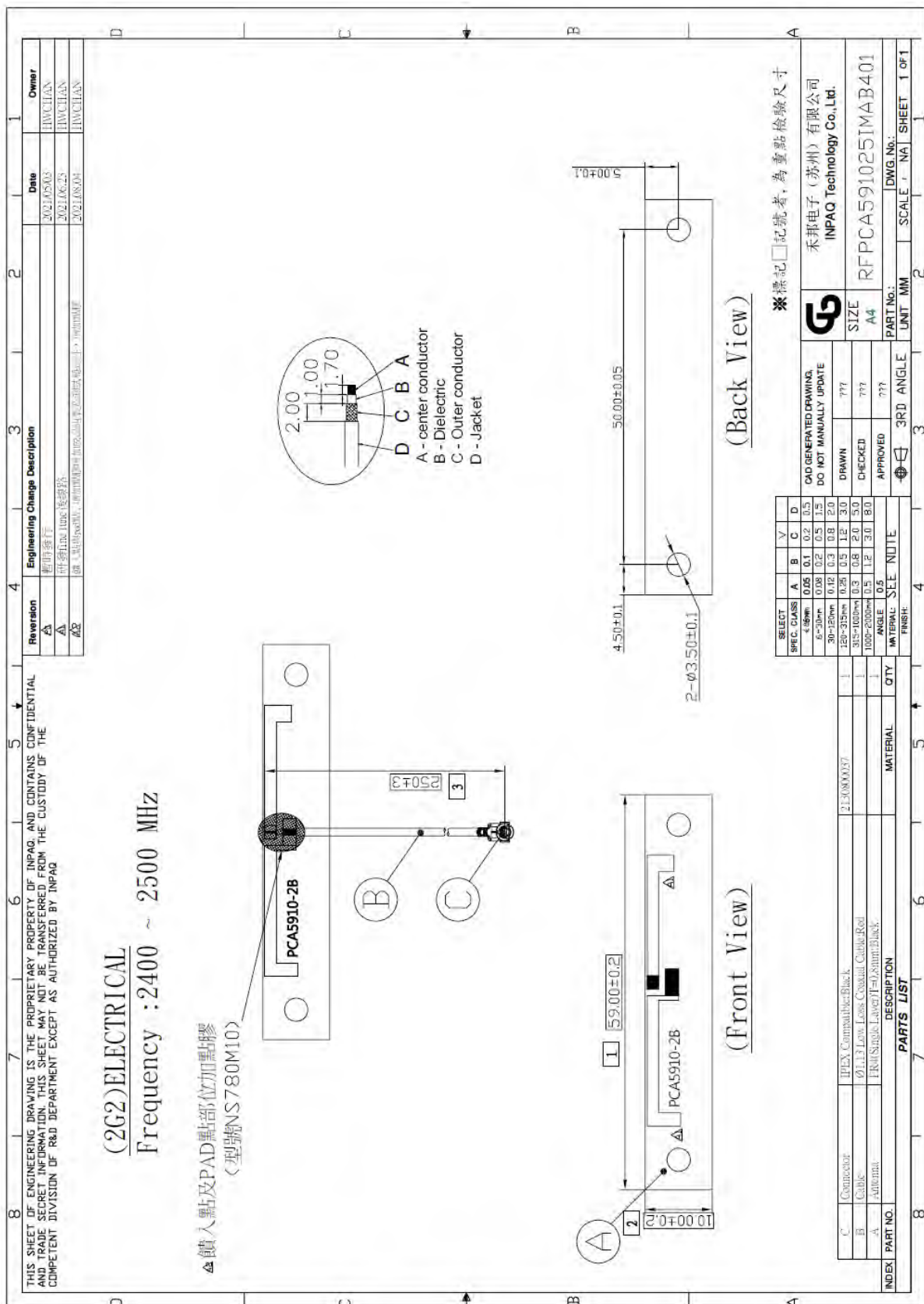
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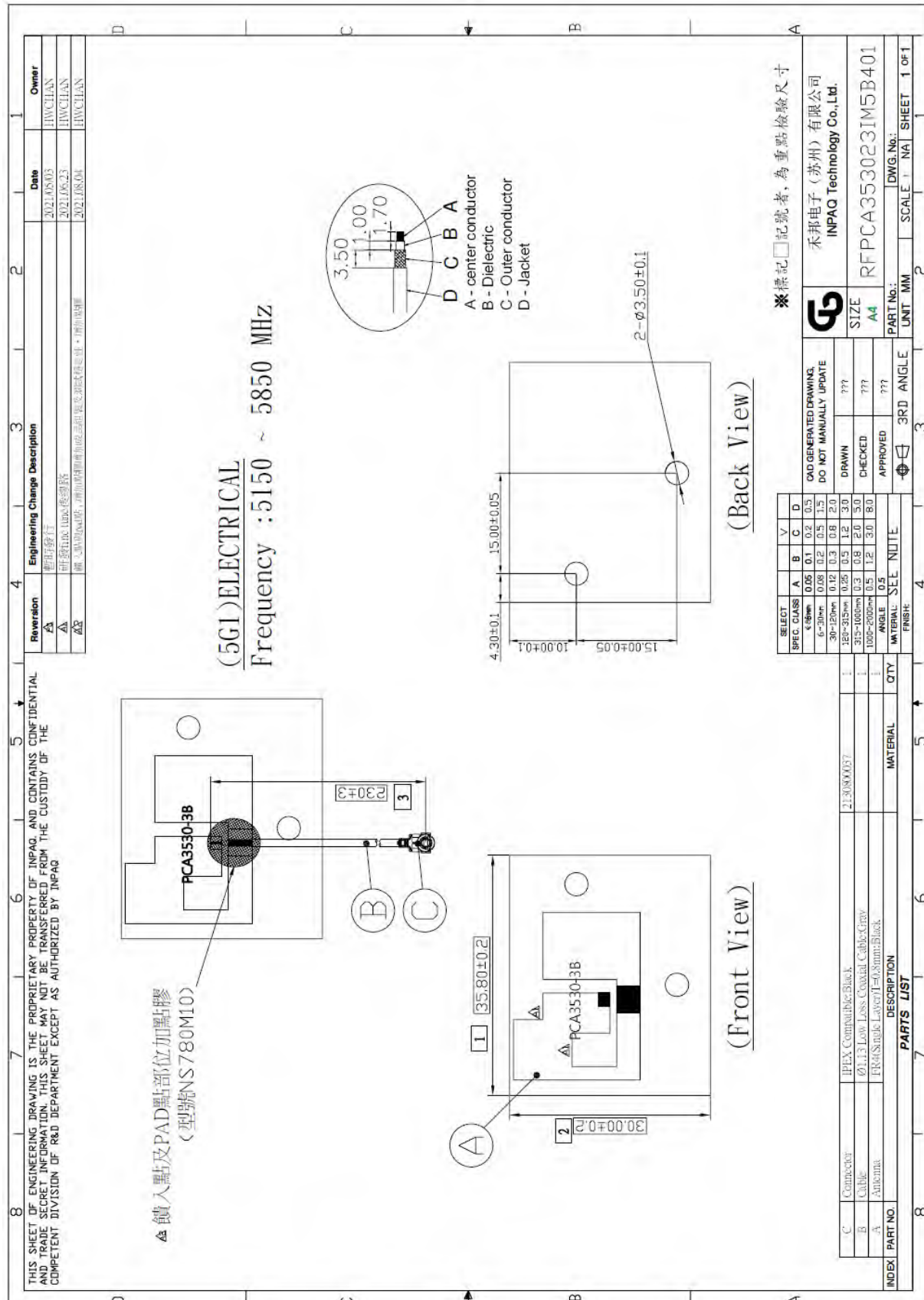
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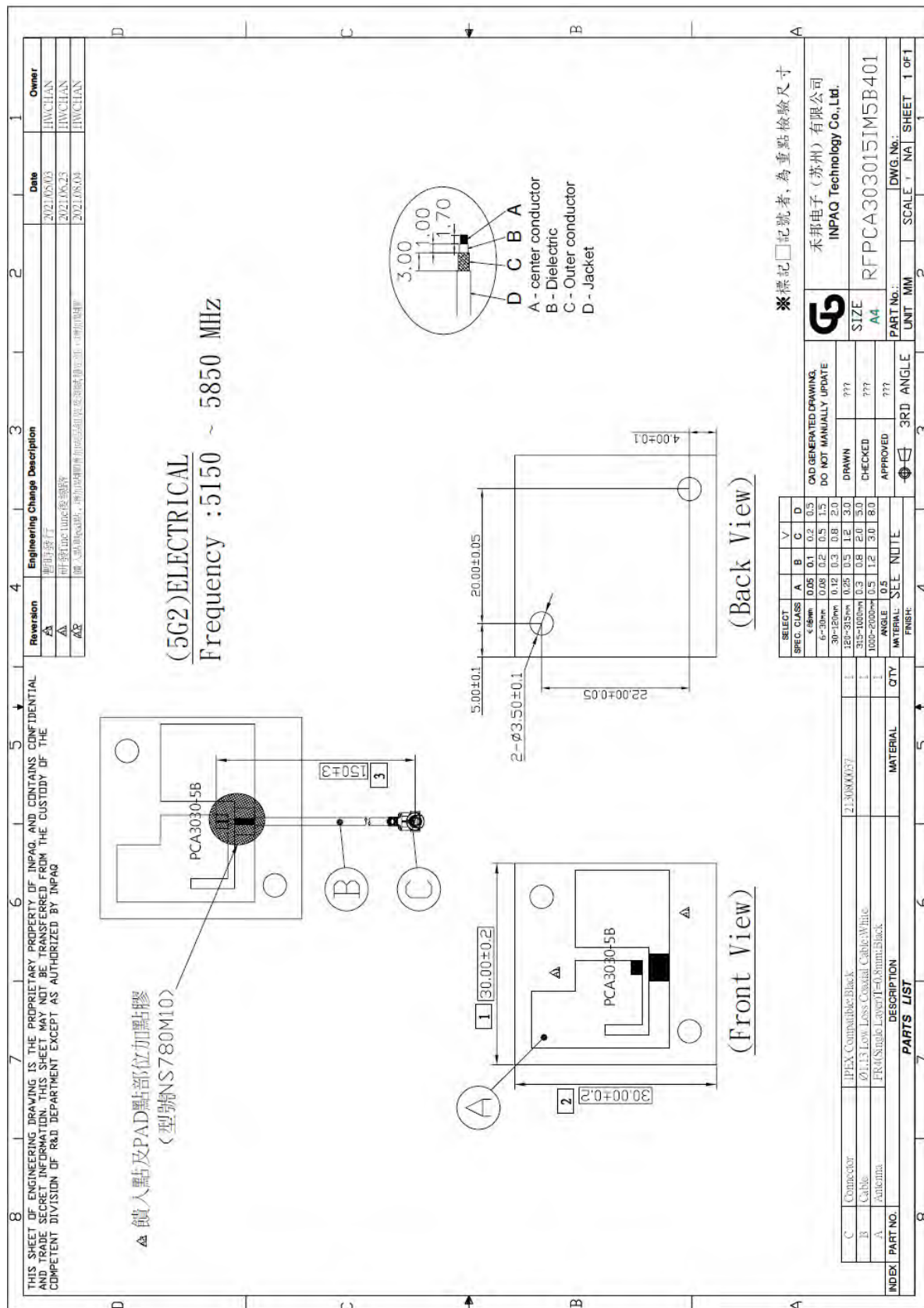
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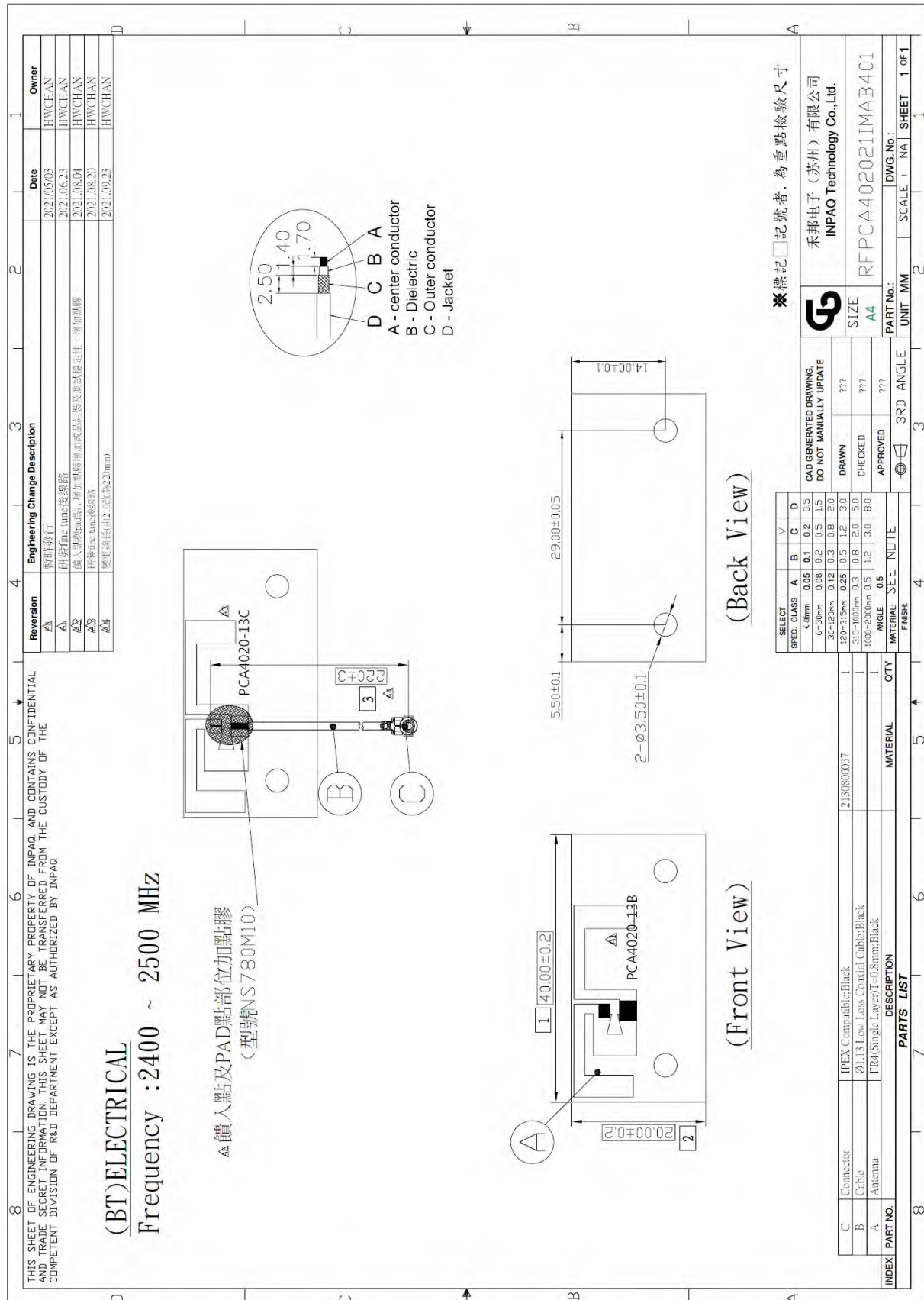
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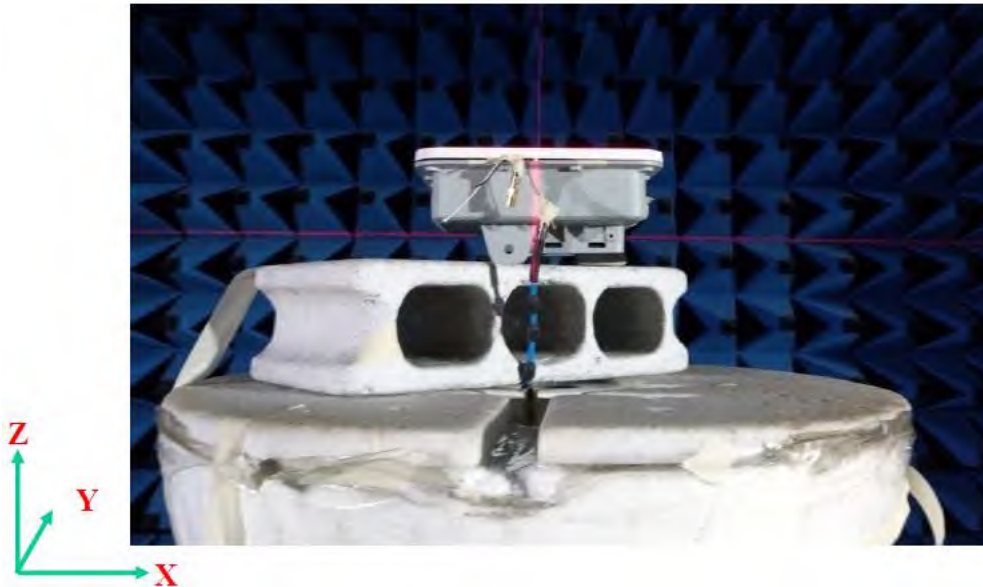
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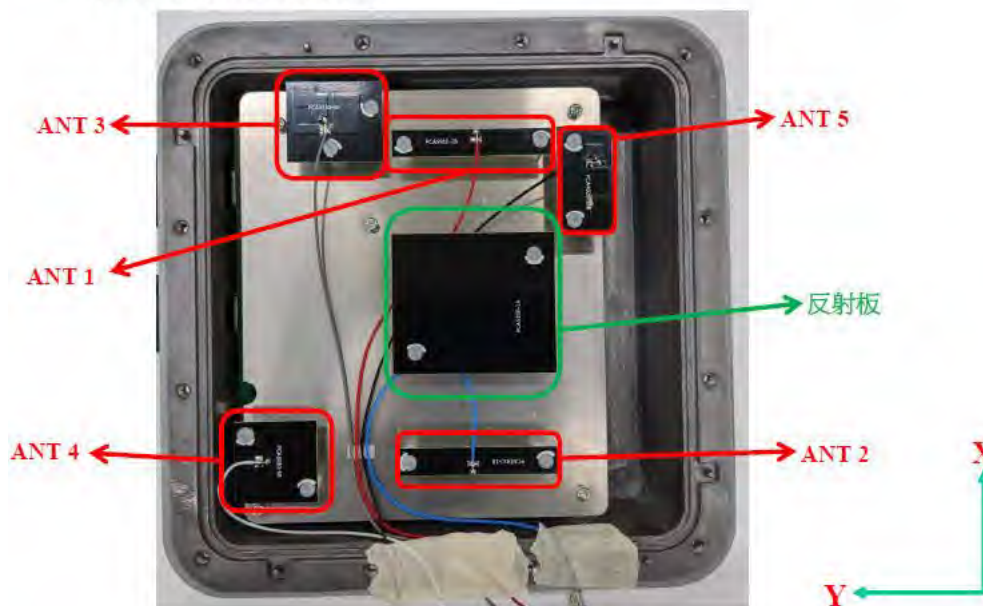
Test Report

ELECTRICAL CHARACTERISTICS

Experimental Setup



Antenna Solution Detail



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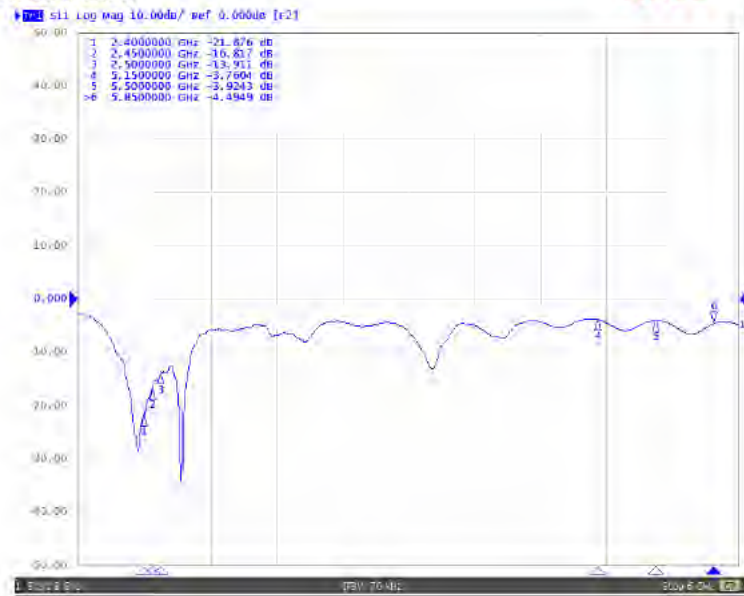
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ELECTRICAL CHARACTERISTICS

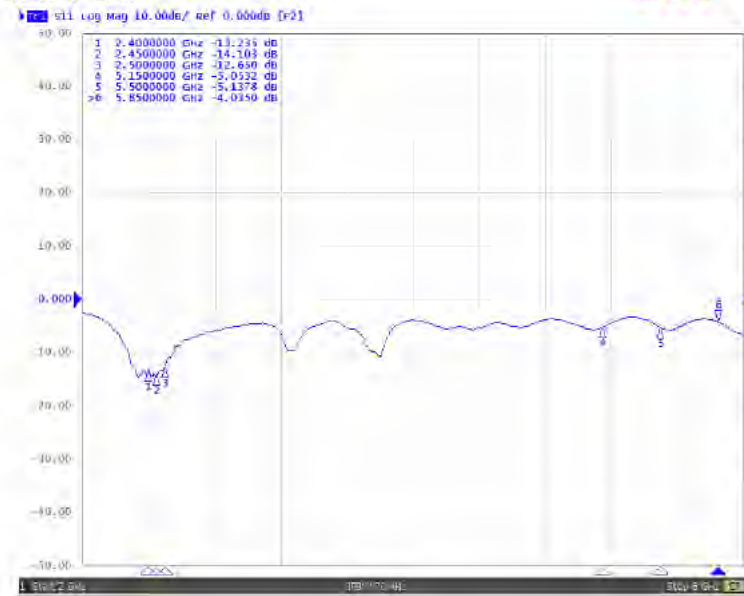
Return Loss

ANT1



Return Loss

ANT2



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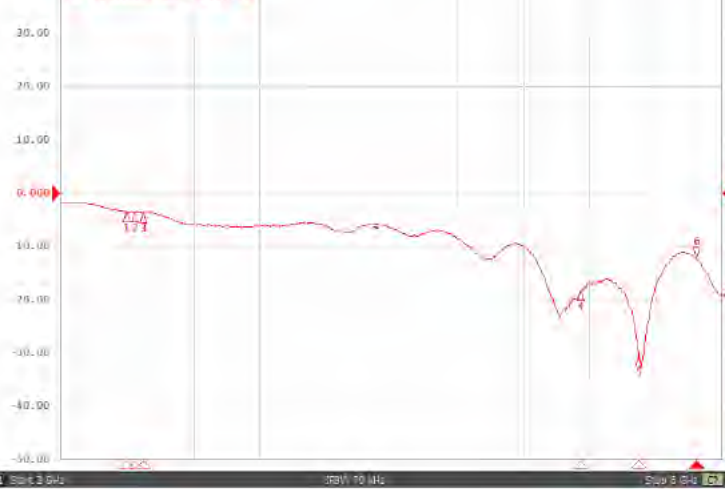
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Return Loss

ANT3

S44 Log Mag 10.00dB Ref 0.000dB [x2]

1	2.4000000 GHz	-3.3318 dB
2	2.4500000 GHz	-3.2124 dB
3	2.5000000 GHz	-3.4108 dB
4	5.1500000 GHz	-18.240 dB
5	5.5000000 GHz	-30.507 dB
6	5.8500000 GHz	-12.197 dB

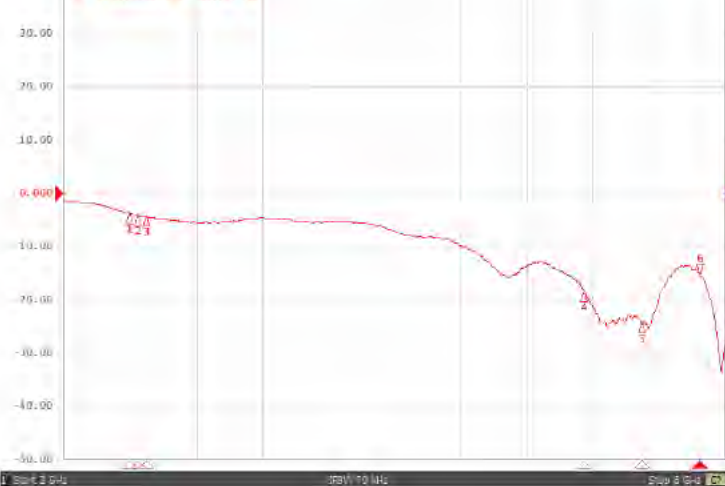


Return Loss

ANT4

S44 Log Mag 10.00dB Ref 0.000dB [x2]

1	2.4000000 GHz	-3.5108 dB
2	2.4500000 GHz	-3.0311 dB
3	2.5000000 GHz	-4.1760 dB
4	5.1500000 GHz	-18.113 dB
5	5.5000000 GHz	-24.248 dB
6	5.8500000 GHz	-15.797 dB



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ANGLES=N/A HOLEDIA=N/A

SCALE : N/A

UNIT : mm

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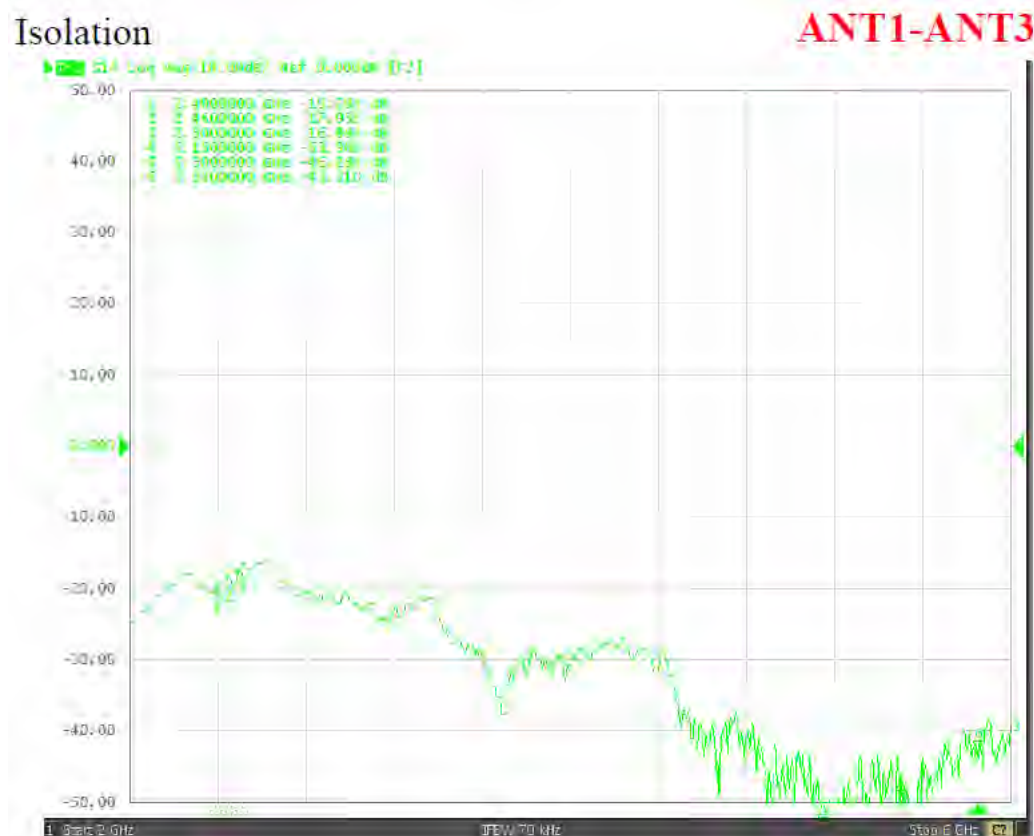
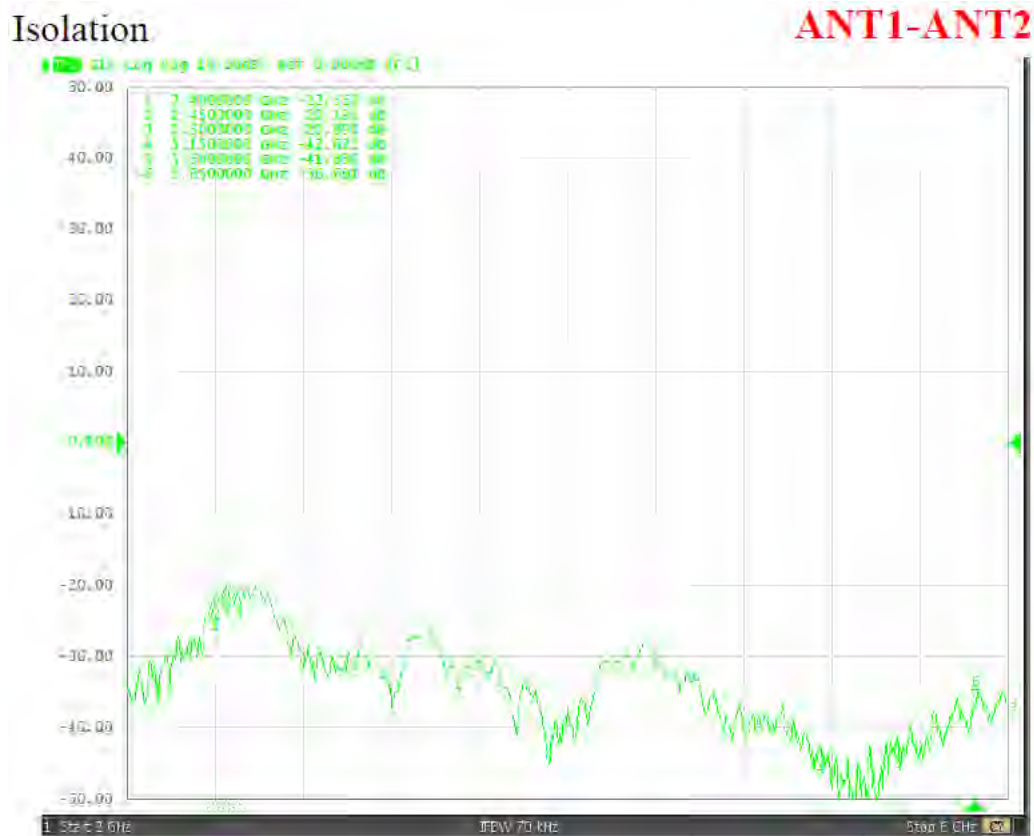
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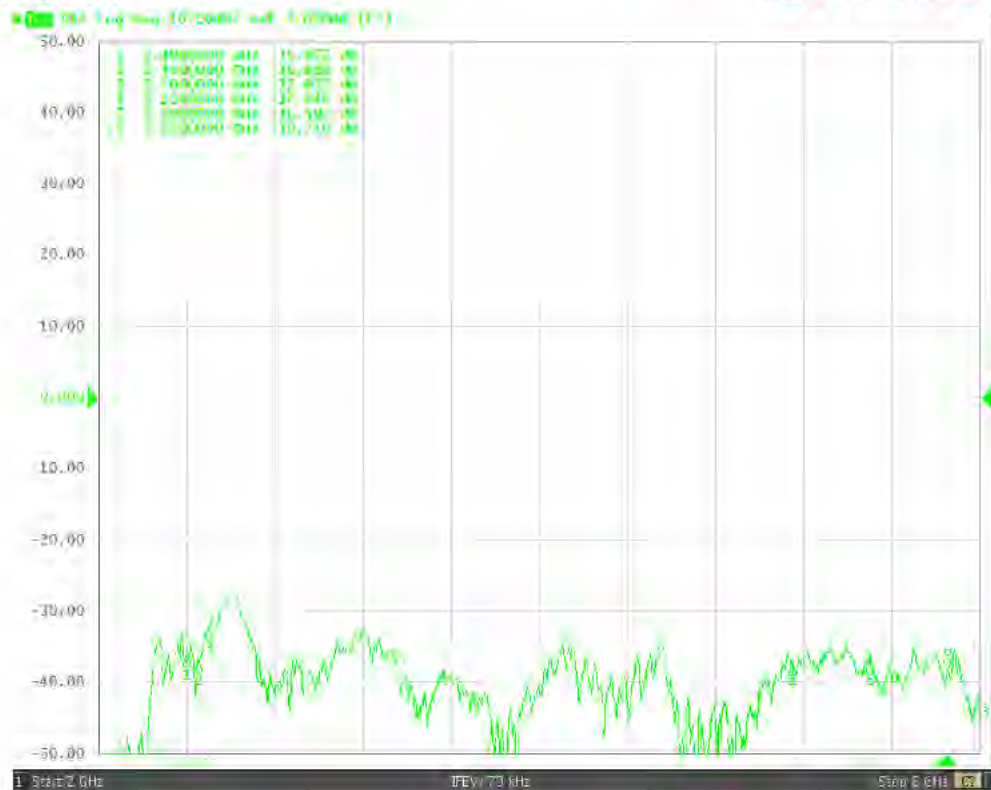
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Isolation

ANT1-ANT4



Isolation

ANT1-ANT5



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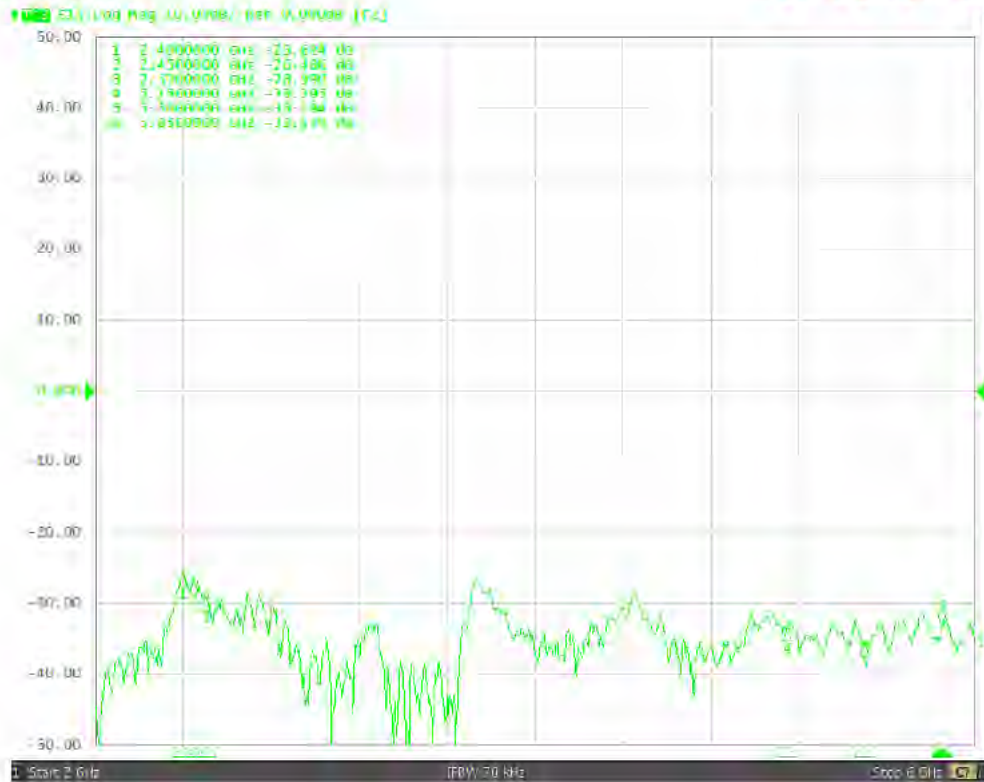
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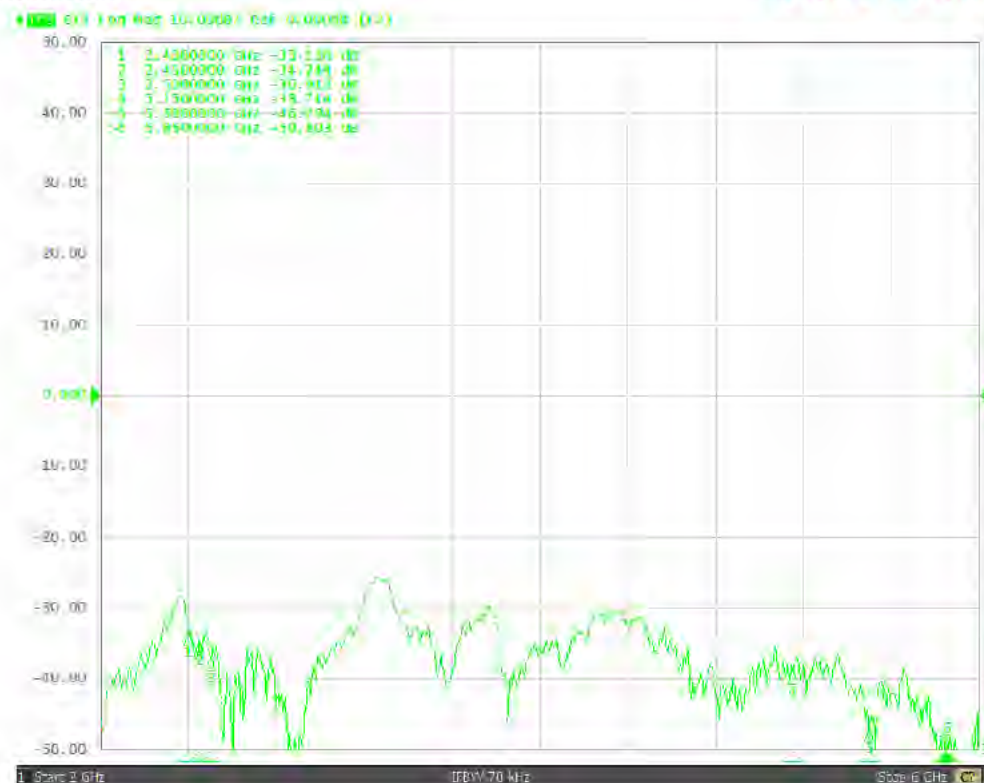
Isolation

ANT2-ANT3



Isolation

ANT2-ANT4



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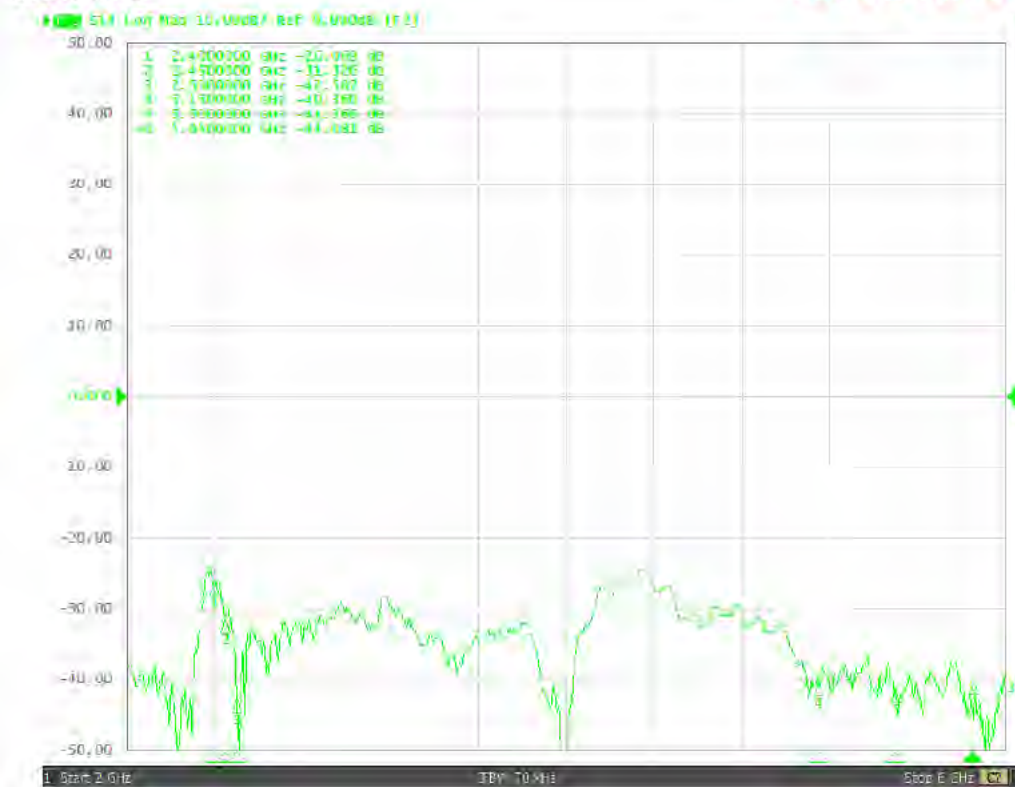
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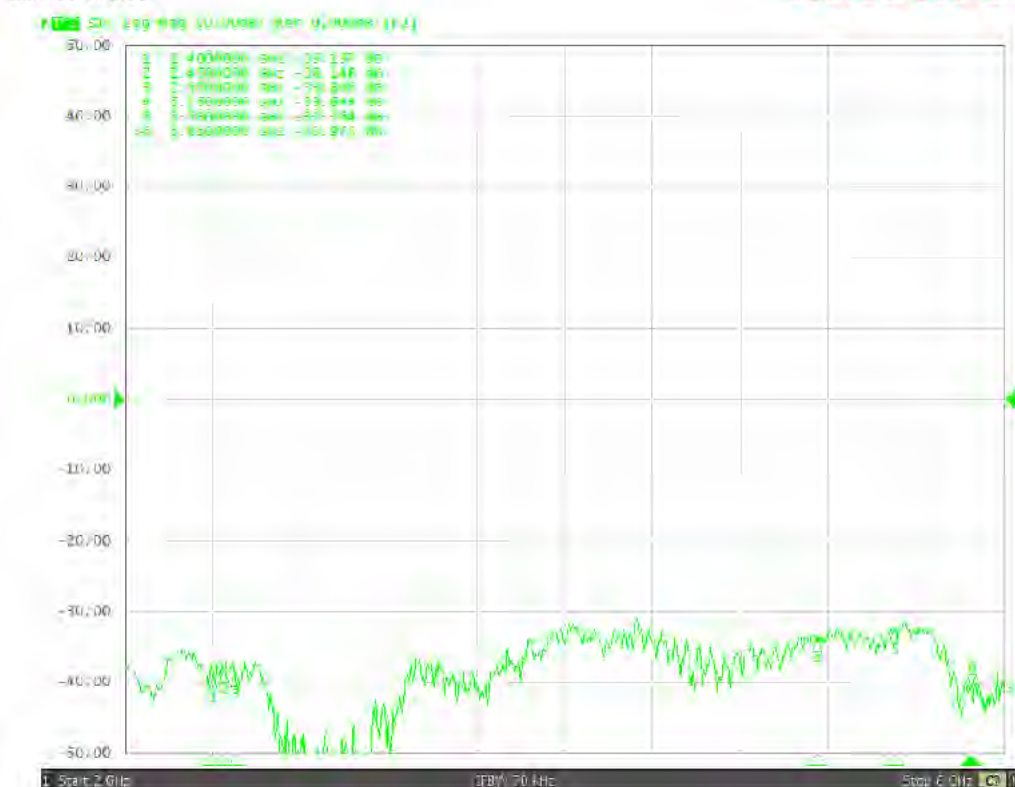
Isolation

ANT2-ANT5



Isolation

ANT3-ANT4



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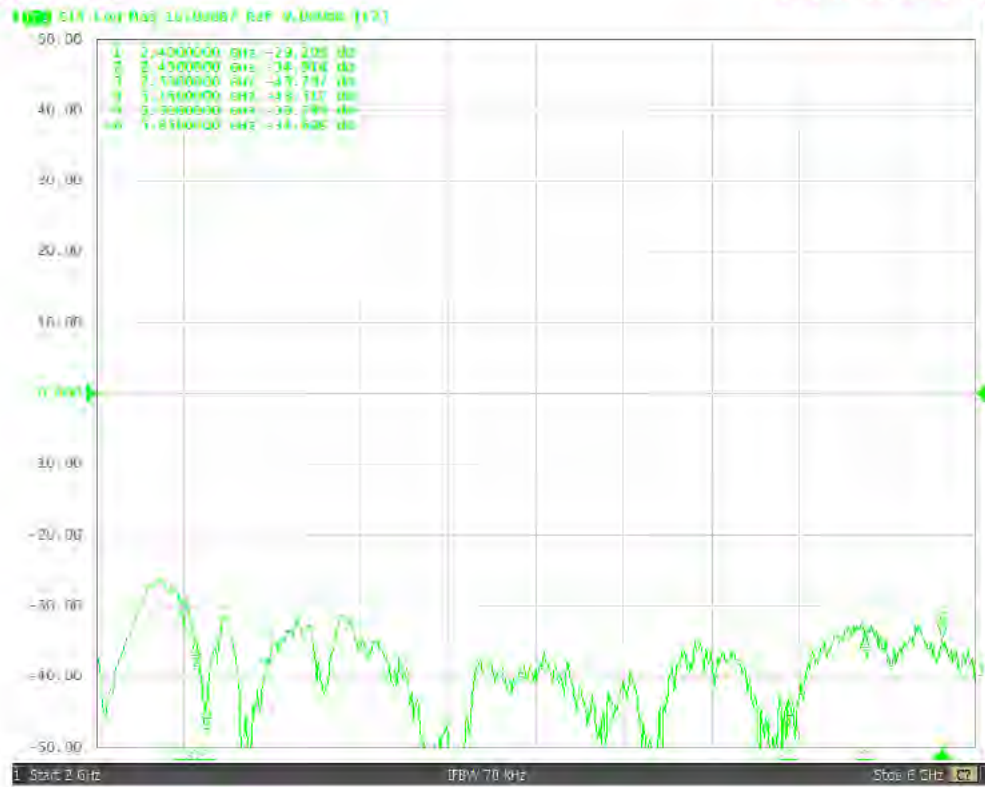
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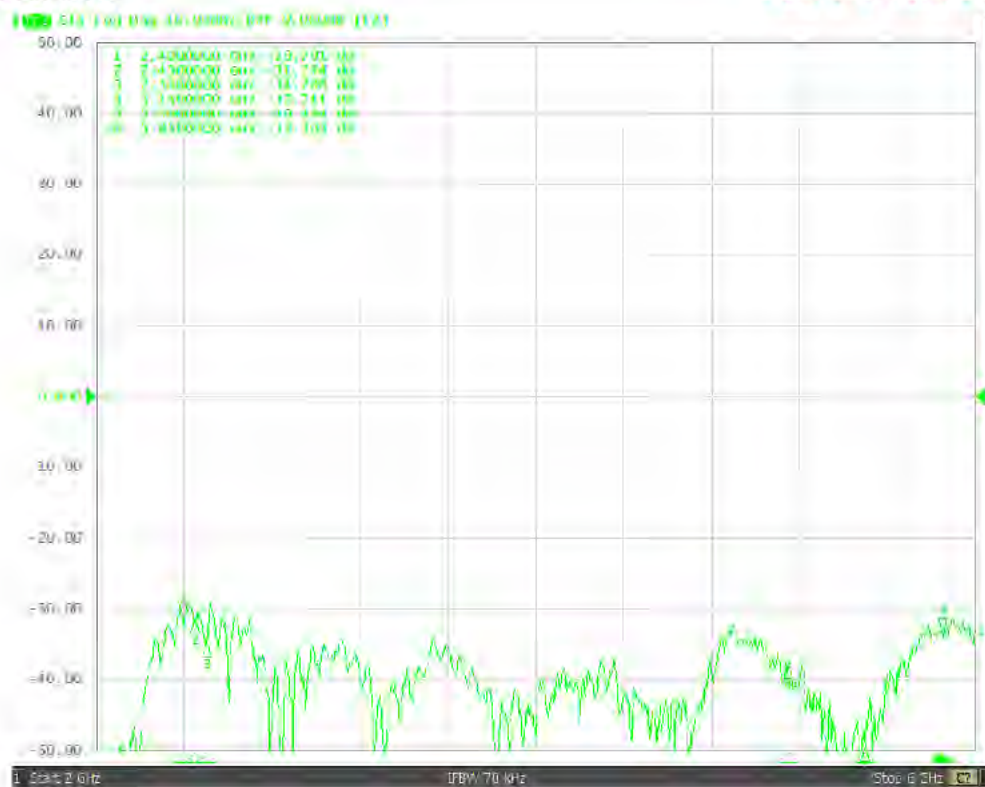
Isolation

ANT3-ANT5



Isolation

ANT4-ANT5



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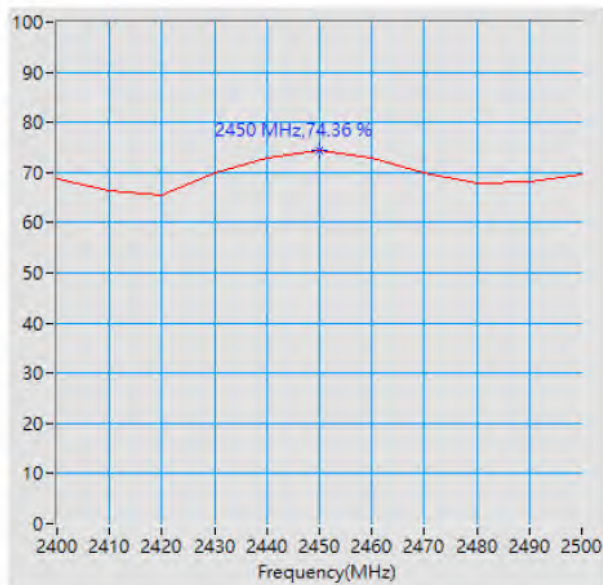
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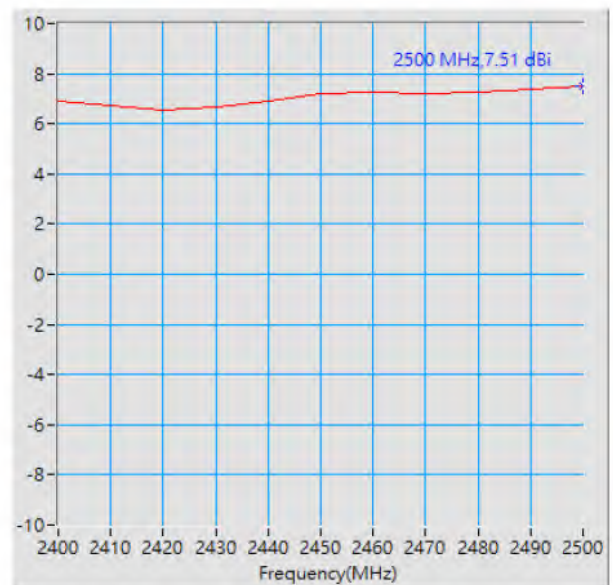
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■ Antenna Efficiency & Peak Gain

ANT1

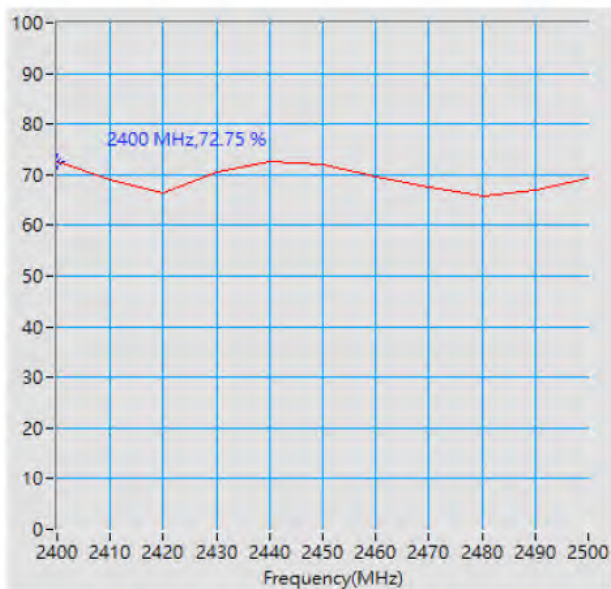


Maximum Efficiency at 2450 MHz : 74.36 %

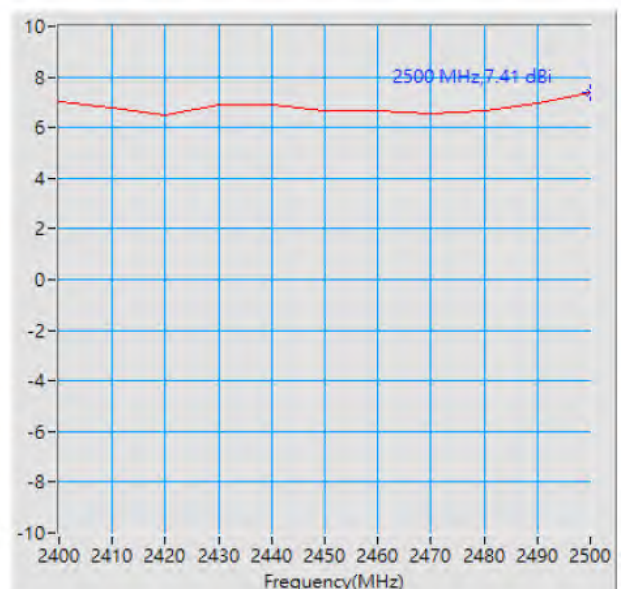


Maximum Peak Gain at 2500 MHz : 7.51 dBi

ANT2



Maximum Efficiency at 2400 MHz : 72.75 %



Maximum Peak Gain at 2500 MHz : 7.41 dBi

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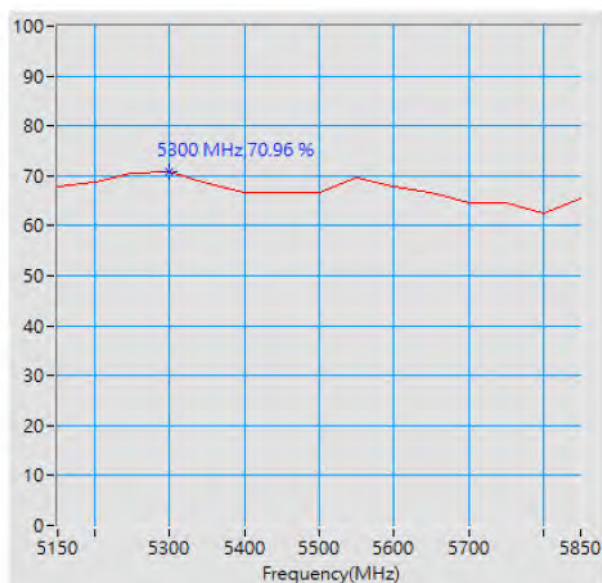
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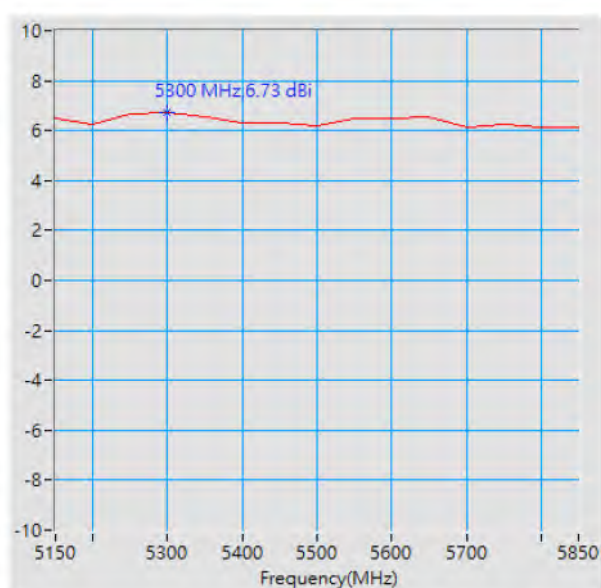
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ANT3

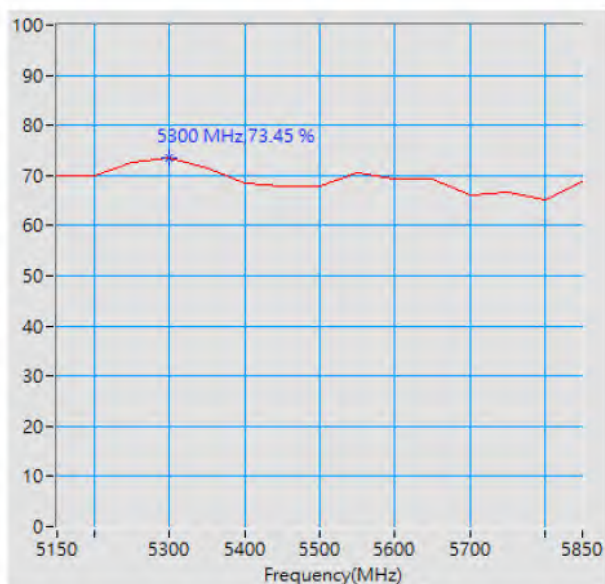


Maximum Efficiency at 5300 MHz : 70.96 %

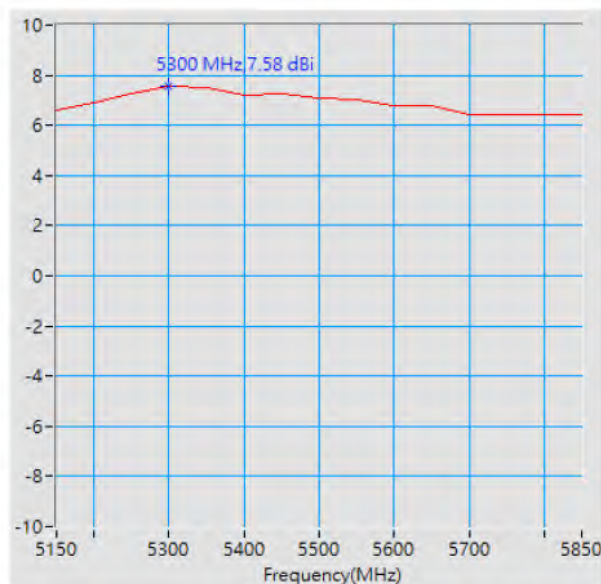


Maximum Peak Gain at 5300 MHz : 6.76 dBi

ANT4



Maximum Efficiency at 5300 MHz : 73.45 %



Maximum Peak Gain at 5300 MHz : 7.58 dBi

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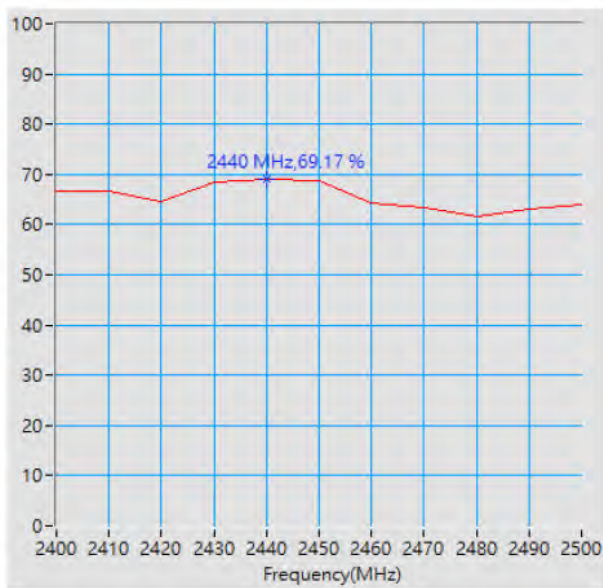
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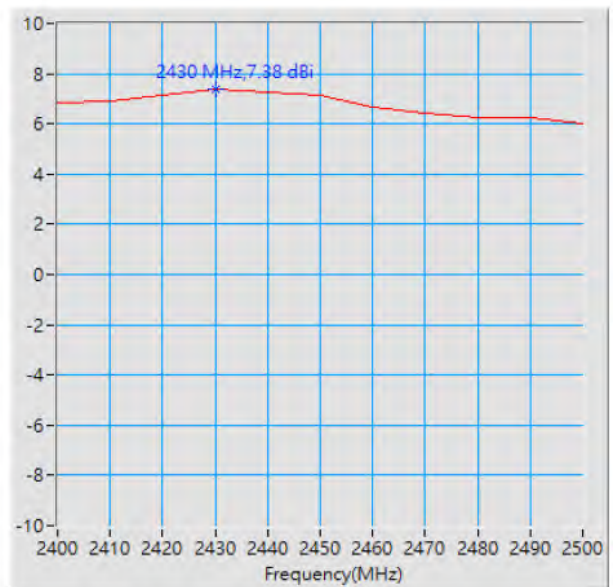
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ANT5



Maximum Efficiency at 2440 MHz : 69.17 %



Maximum Peak Gain at 2430 MHz : 7.38 dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :
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 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 : RFMTA161425IMAB401

DOCUMENT
NO.

SPEC REV.
A0

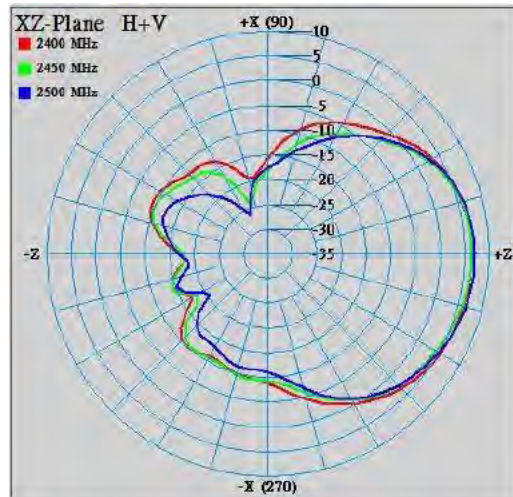
RADIATION PATTERN

ANT1

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

UNIT : mm

DRAWN BY : 詹惠雯

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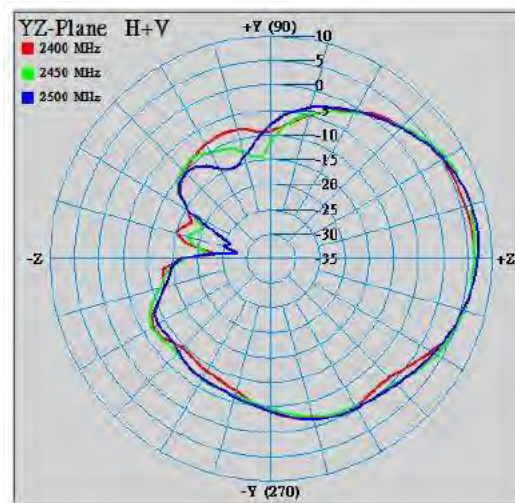
DOCUMENT
NO.

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

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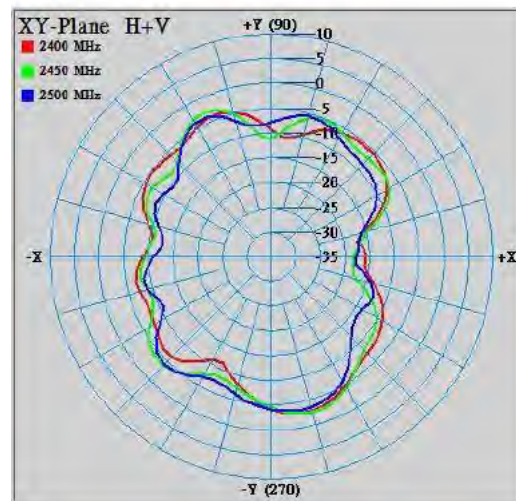
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

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	6.48	0.00	6.48	0.10	-2.75	-6.96
2450	6.51	-0.50	7.04	0.50	-2.47	-6.80
2500	7.15	-0.13	7.41	0.56	-3.44	-7.54

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

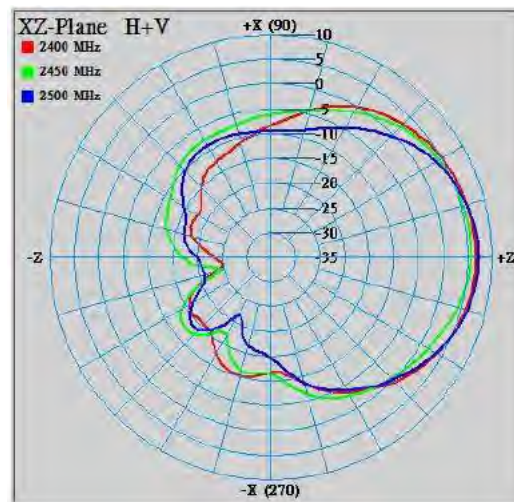
DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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TITLE : RFMTA161425IMAB401

DOCUMENT
NO.SPEC REV.
A0

ANT2**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****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 : RFMTA161425IMAB401

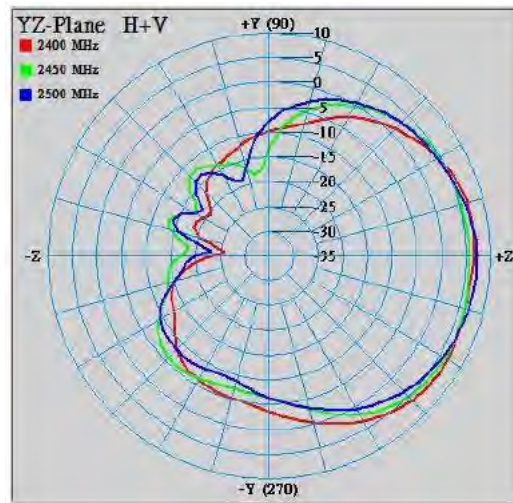
DOCUMENT
NO.

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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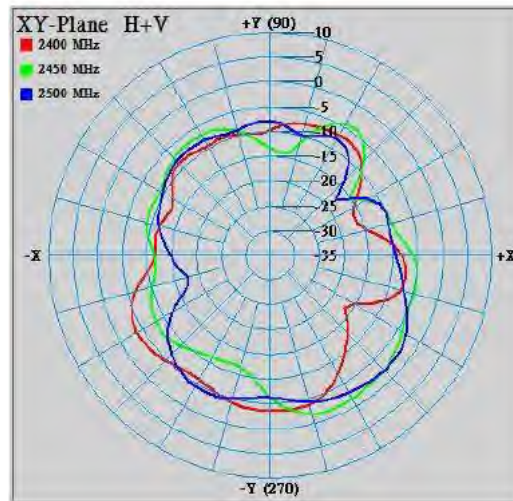
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	6.67	0.07	6.93	1.29	-3.56	-7.53
2450	5.80	-0.78	6.46	0.79	-1.36	-6.55
2500	7.56	-0.27	7.39	0.97	-2.10	-7.02

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

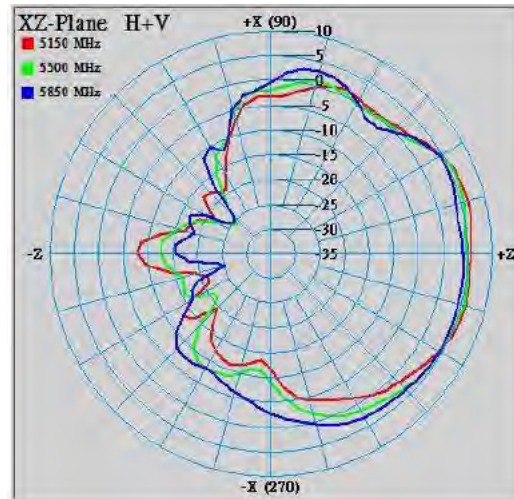
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APPROVED BY : 陳振榮

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TITLE : RFMTA161425IMAB401

DOCUMENT
NO.SPEC REV.
A0

ANT3**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****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 : RFMTA161425IMAB401

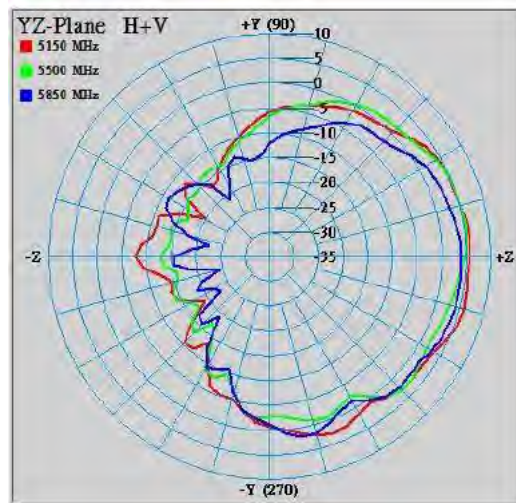
DOCUMENT
NO.

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

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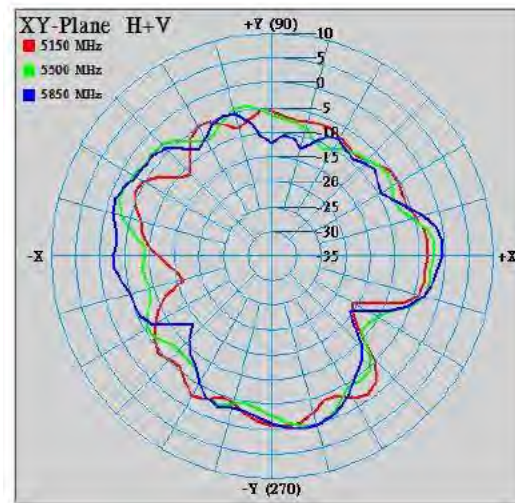
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

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]
5150	6.49	0.25	6.02	0.29	-0.42	-5.20
5500	5.92	0.30	5.32	-0.70	0.30	-4.79
5850	4.85	0.33	4.24	-1.46	0.49	-4.32

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

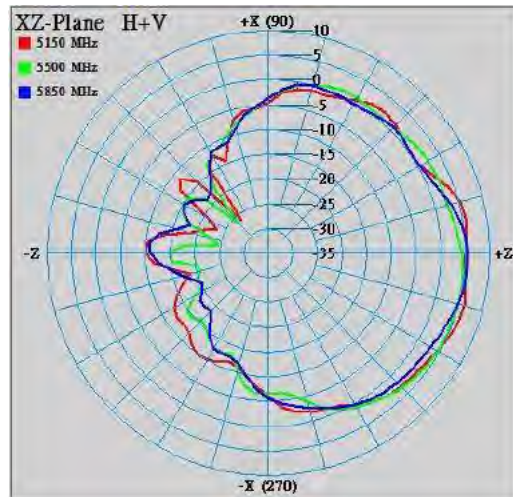
DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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TITLE : RFMTA161425IMAB401

DOCUMENT
NO.SPEC REV.
A0

ANT4**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****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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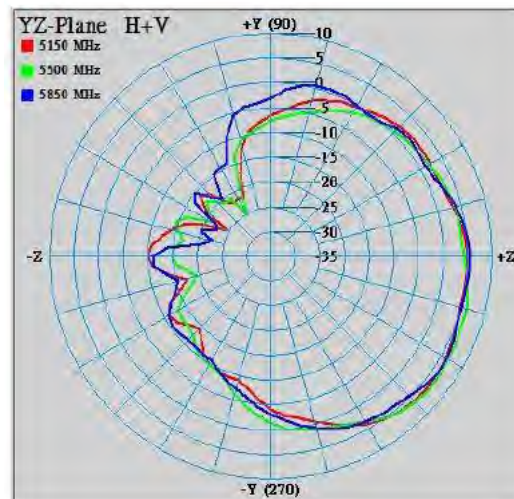
DOCUMENT
NO.

SPEC REV.
A0

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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TITLE : RFMTA161425IMAB401

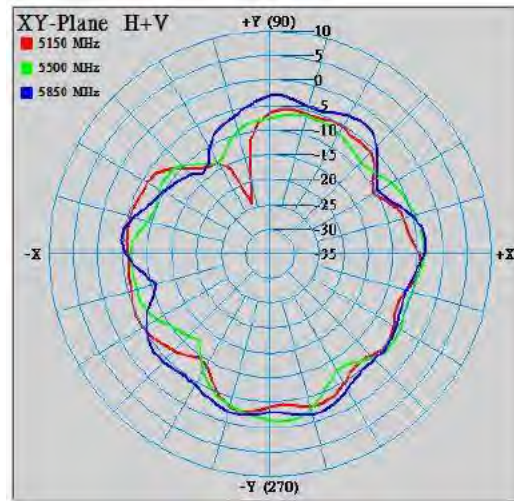
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	6.28	-0.11	6.42	0.38	-2.68	-6.09
5500	5.00	-0.59	6.99	0.60	-1.08	-6.06
5850	5.59	-0.88	6.34	0.52	-1.25	-4.82

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

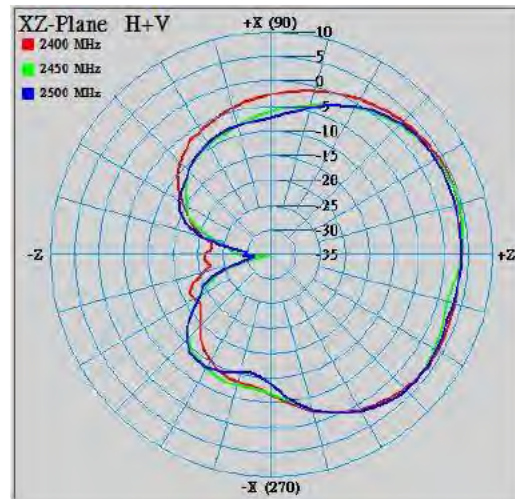
DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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TITLE : RFMTA161425IMAB401

DOCUMENT
NO.SPEC REV.
A0

ANT5**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****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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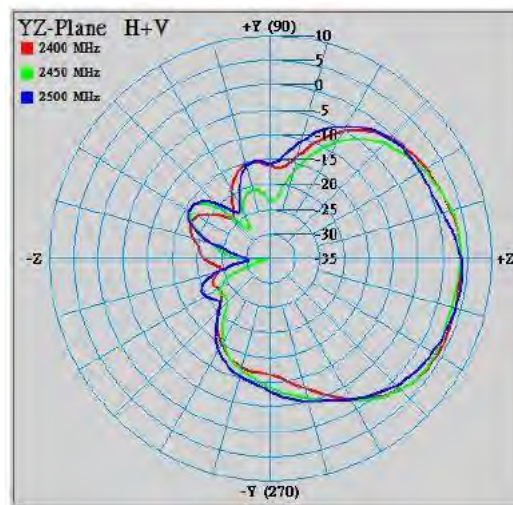
**DOCUMENT
NO.**

**SPEC REV.
A0**

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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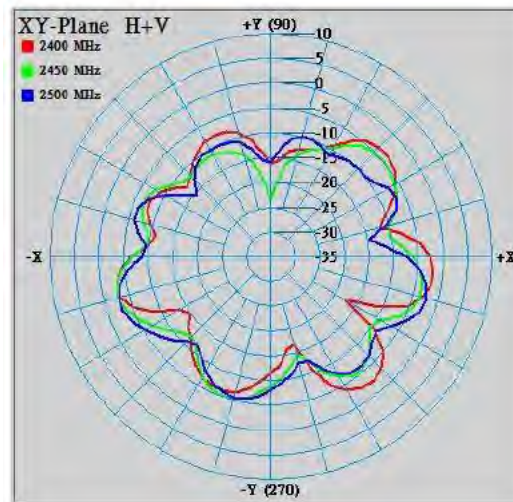
DOCUMENT
NO.

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	4.58	-0.21	4.24	-2.10	-1.65	-6.98
2450	4.57	-0.81	3.83	-2.39	-2.80	-7.59
2500	4.00	-0.80	4.20	-2.58	-2.25	-7.64

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

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DOCUMENT
NO.

SPEC REV.
A0

2. Antenna Characteristics

2.3 3D Peak gain & above 30 elevation degree

	2G1		2G2		5G1		5G2		BT
Frequency [MHz]	Peak gain	Peak gain above 30 elevation degree	Peak gain	Peak gain above 30 elevation degree	Peak gain	Peak gain above 30 elevation degree	Peak gain	Peak gain above 30 elevation degree	Peak gain
2400	6.88	5.36	6.93	6.19					6.78
2450	7.04	6.77	6.46	6.36					7.17
2500	7.41	6.27	7.39	6.01					6.00
5150					6.49	5.16	6.42	5.00	
5500					6.20	5.46	6.99	4.61	
5850					6.18	6.12	6.34	4.47	