



APPROVAL SHEET

SP3000T			
NO	MODEL	FREQUENCY	
1	HWI-ABG-SP3000R	WIFI 2.4GHz/BT	2400 ~ 2500 MHz
		WIFI 5GHz	5170 ~ 5825 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					
23/11/21		23/11/21			



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ANTENNA SPECIFICATION

1. MODEL: HWI-ABG-SP3000R

2. APPLICATION:

This specification is provided for WIFI 2.4, 5GHz, BT ANTENNA.

3 ANTENNA used condition

■Portable ■Fixing ■Movement ■Out-door ■In-door ■Etc()

4. ANTENNA Drawing

#3. Attached : Drawing paper

5. Electrical specification and performance

Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS		REMARK
5. 1	FREQUENCY RANGE	WIFI 2.4GHz /BT	2400 ~ 2500 MHz	
		WIFI 5GHz	5170 ~ 5825 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	WIFI 2.4GHz /BT	Less than 1 : 4.10	#1. Attached
		WIFI 5GHz	Less than 1 : 3.45	
5. 4	PEAK GAIN	WIFI 2.4GHz /BT	-3.58 dBi	#2. Attached
		WIFI 5GHz	-2.64 dBi	
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
2. 6. 1	Carrier Size [W X H X T]	45.7 X 9.6 X 9.6 (mm)	

7. SINUSOIDAL VIBRATION

Vibration Frequencies : 5- 55 Hz (1 cycle)

Sweep Rate : 1 cycle/min

Maximum Amplitude : A - 1 mm

Maximum Acceleration: 2 g

Measuring method

Antenna is combined in the test equipment.

The vibration is done X and Y direction (left, right, up and down) according to below image.

It continued for 2 hours each direction.

8. OPERATING TEMPERATURE

Temperature : - 40℃ / +70℃

Demands : Set Antenna and Cable for 72 hours each temperature.

No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

The antenna shall satisfy the electrical data

9. HUMIDITY

Condition : 95% / +70℃

Measuring method

Antenna is placed in climatic chamber for 72 hours.

Antenna is taken out from the chamber and measured

after another 24 hours in room temperature

Demands : No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

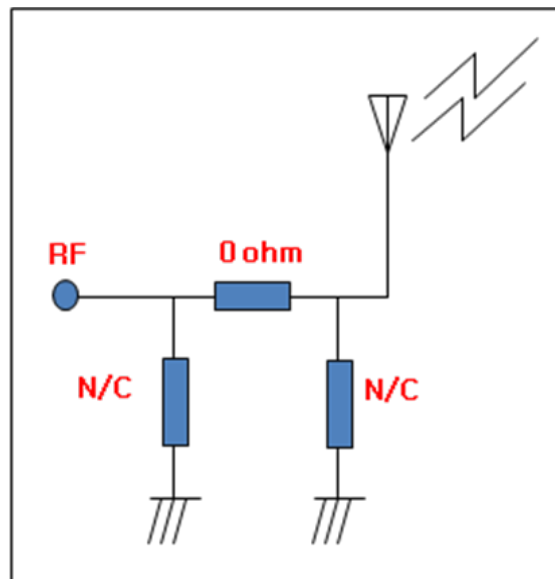
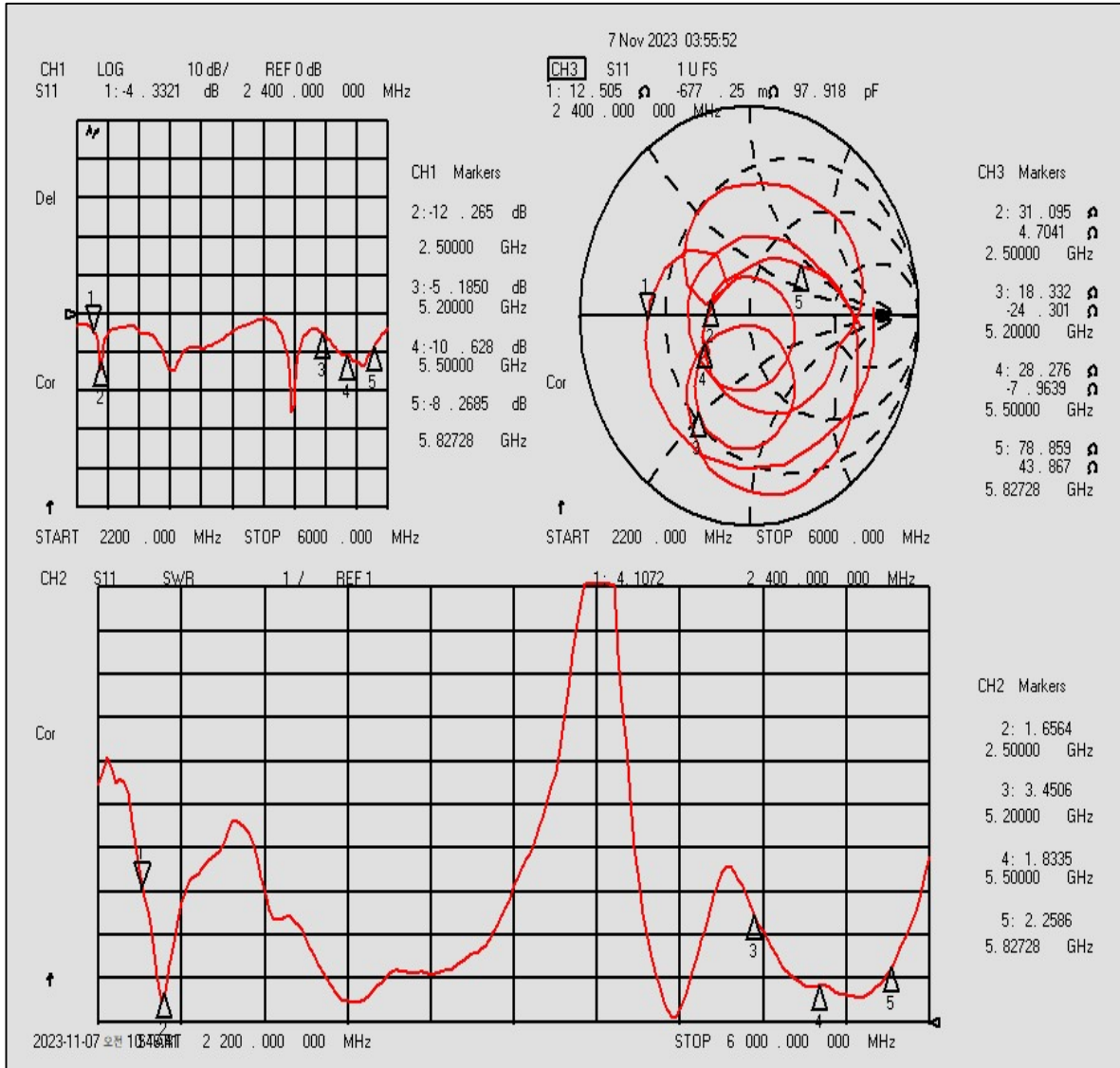
The antenna shall satisfy the electrical data.

10. TEST and Q/C

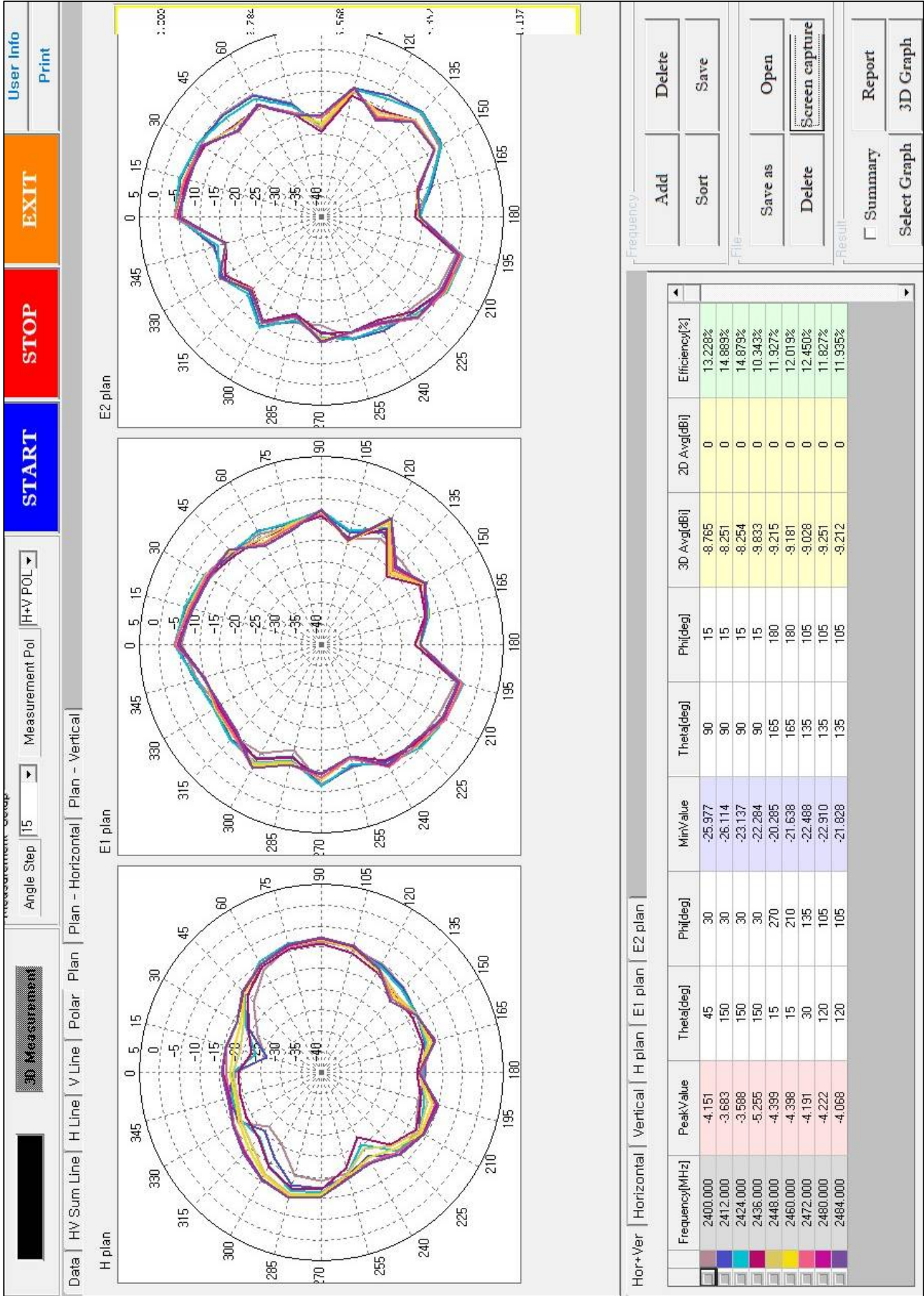
This specification is according to fixed demands and suitable Hanwool technology Q/C provision.

But it is possible to skip No. 7~9 demands, after consultation with buyer.

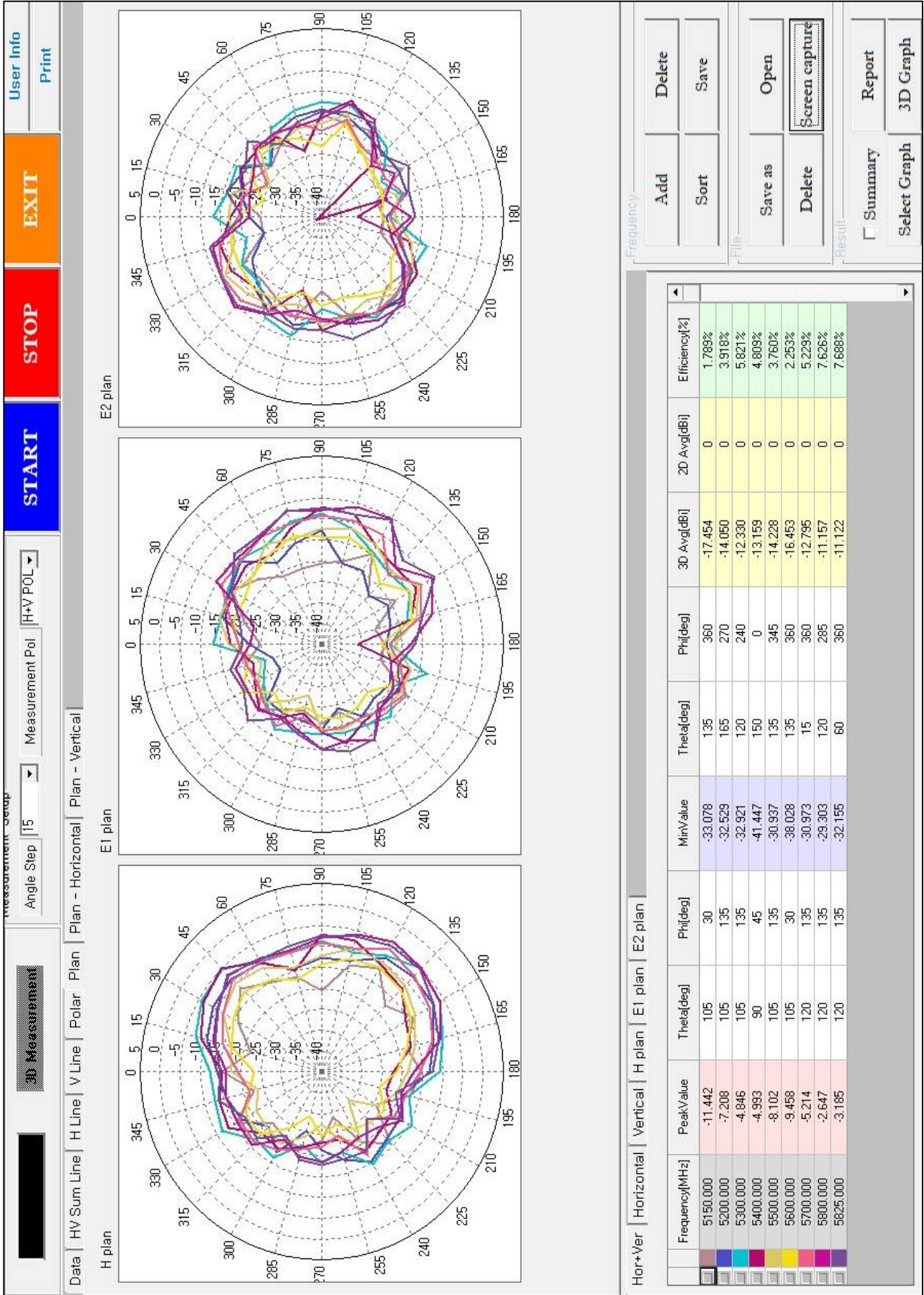
- #1. Attached : VSWR



- #2. Attached : RADIATION PATTERN(GAIN)_WIFI 2.4GHz/BT

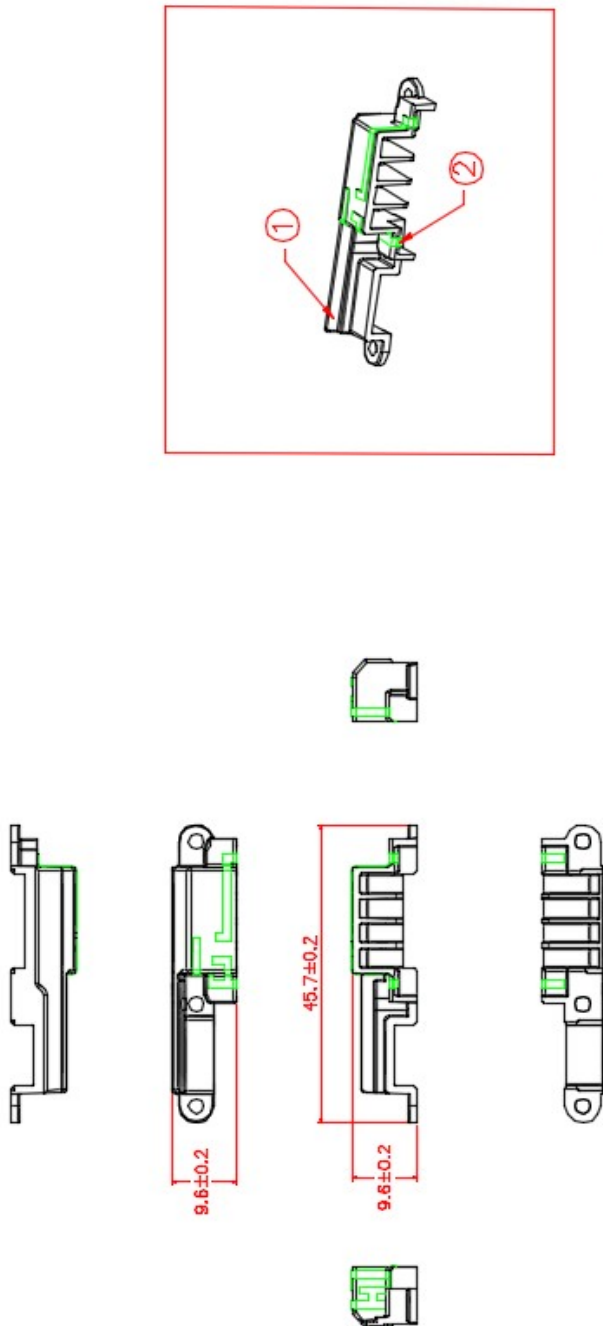


- #3. Attached : RADIATION PATTERN(GAIN)_ WIFI 5GHz



- #3. Drawing paper

No		Revision Note	Checked	Date
△				



3D VIEW

2	PATTERN	LPS	2	
1	CARRIER	PC-UV화합 SC1004	1	BLACK
No	Part Name	Material Description	Q'ty	Finish
Scale	Unit	ASSY	Model	HWI-ABG-SP3000R
1/1	mm	Checked by	Approved by File Name	
Decimal	Angle	J.O.LIM	드림머스	
반공과 과	N/A	231108-51	H,CHOI	

Hanwool Technology