

GEN2WAVE CO.,LTD

APPROVAL SHEET

RP-1600			
NO	MODEL	FREQUENCY	
1	HWI-WFD-RP1600	Bluetooth WIFI Dual	2402 ~ 2484 MHz 5200 ~ 5800 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					



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HISTORY SHEET

[illegible]

ANTENNA SPECIFICATION

1. MODEL: HWI-WFD-RP1600

2. APPLICATION:

This specification is provided for Bluetooth and WIFI Dual Band 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	Bluetooth WIFI Dual	2402 ~ 2484 MHz 5200 ~ 5800 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	Bluetooth WIFI Dual	Less than 1:2.5	#1. Attached
5. 4	PEAK GAIN(Min)	Bluetooth WIFI Dual	-2.0dBi	#2. Attached
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	Carrier	PC(Poly-Carbonate)	Black
6. 2	FCCL	Halogen Free CCL	
6. 3	PSR INK	INK	Black
6. 4	Marking INK	INK (S-200W WITH HD-3)	White
6. 5	Tape	3M 9199	
6. 6	Plating	Electronics Ni Immersion Gold	

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 : - 30℃ / +70℃

Demands : Set Antenna and Cable for 48 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 : 90% ~ 95% / +40℃

Measuring method

Antenna is placed in climatic chamber for 48 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.

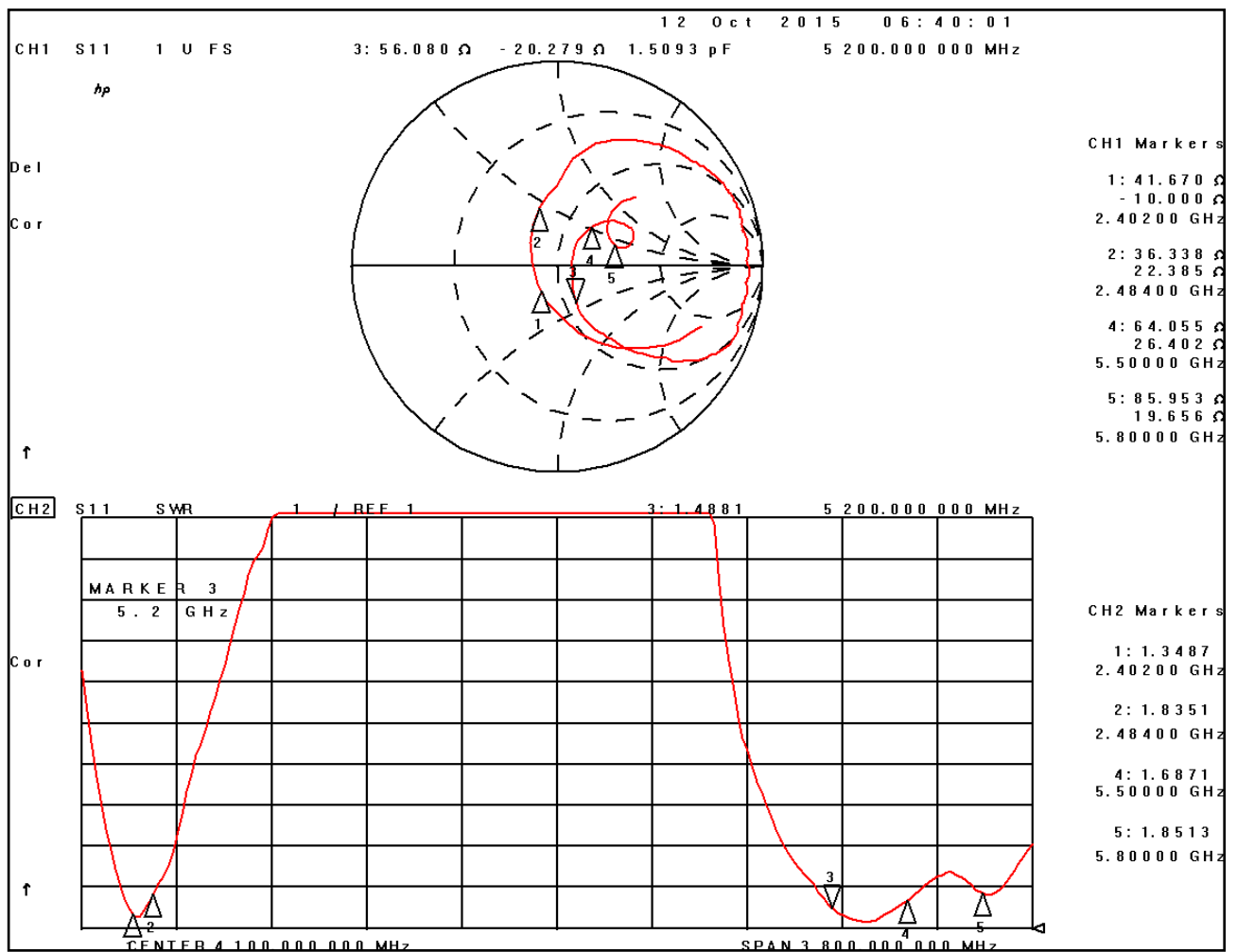
10. TEST and Q/C

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

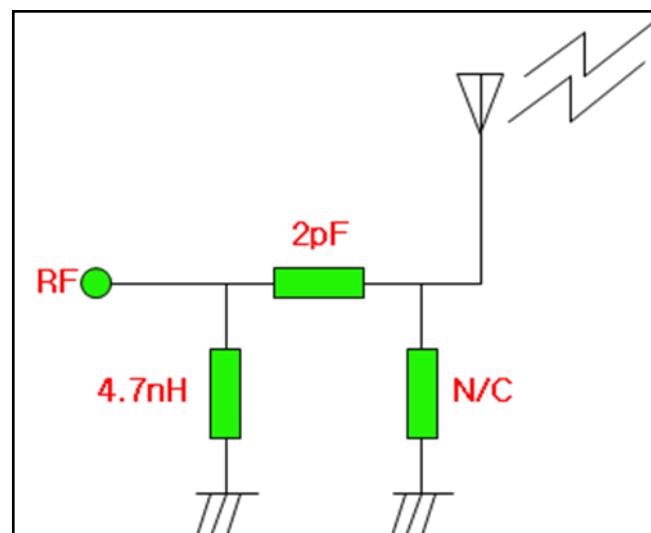
But it is possible to skip No. 7~9 demands, after consultation with buyer.

DQ No.	HW-151012-20	Modify No.		Write	Hwan. Choi
Supply to	GEN2WAVE CO., LTD	Date	2015-10-12	Approval	Chang-gi. Nam

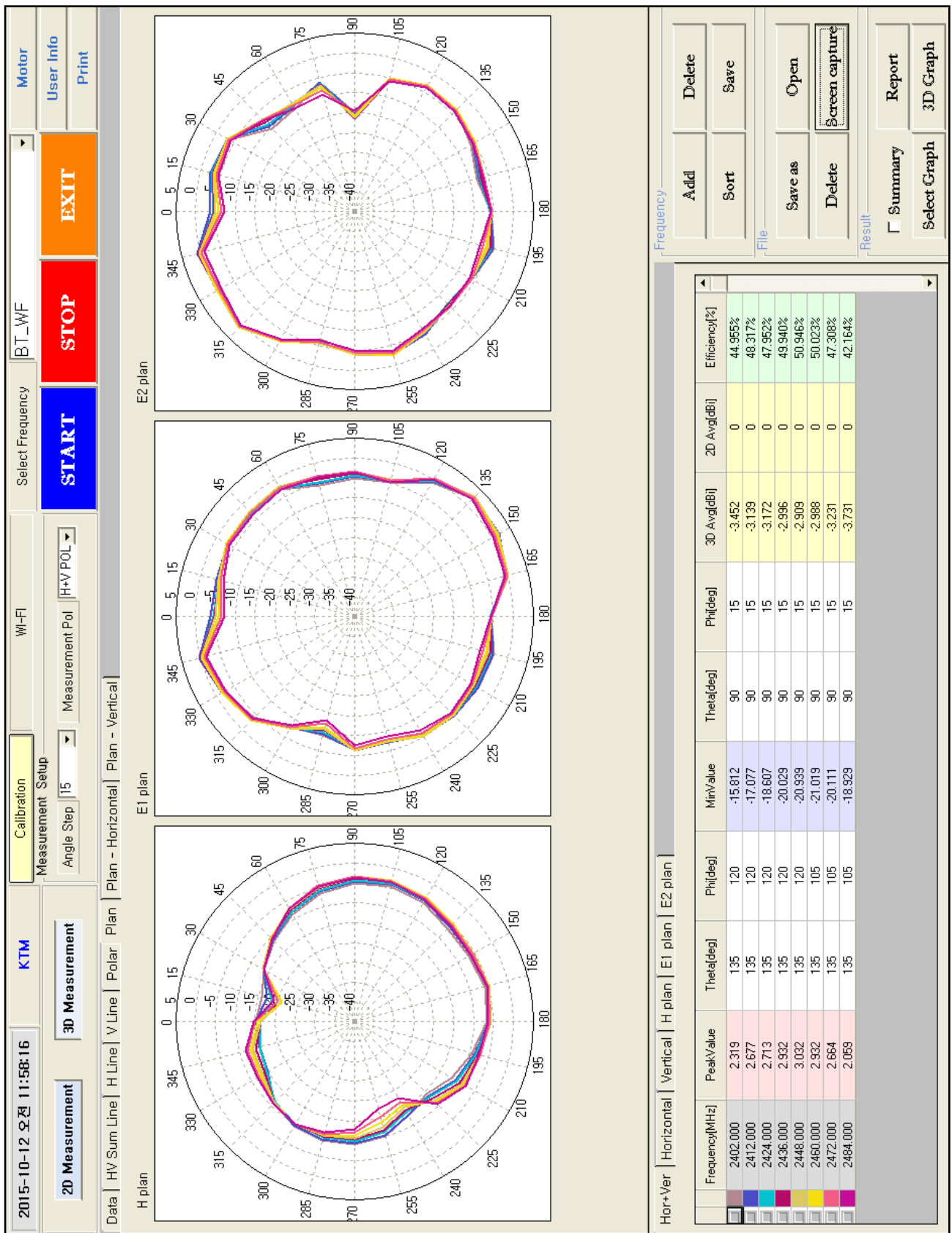
- #1. Attached : VSWR



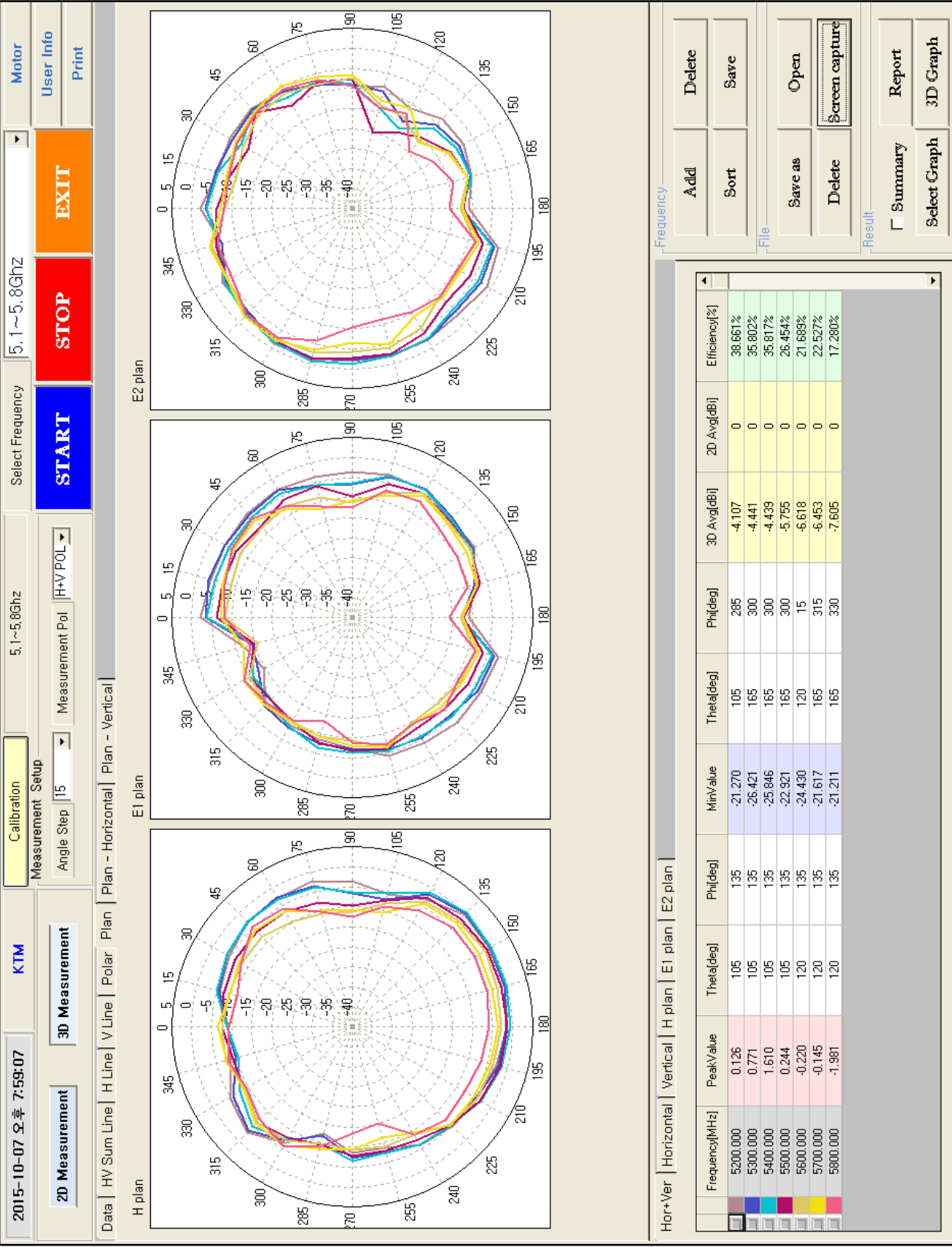
- . Matching Circuit



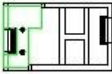
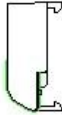
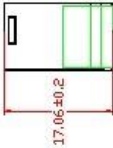
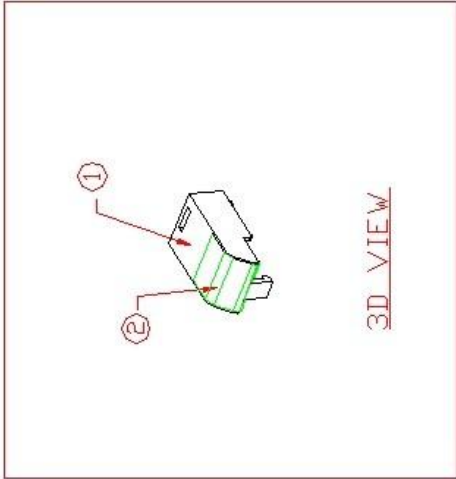
- #2. Attached : RADIATION PATTERN(GAIN)_BT/WF 2.4GHz



-. RADIATION PATTERN(GAIN)_WF 5GHz



- #3. Attached : Drawing paper

Hanwool Technology		TOL Unless Noted		DIMENSION		mm	No	DATE	REVISION	CHECKER
		X. =		SCALE	1/1		△	20 . . .		
		X.X =		MATERIAL		△	20 . . .			
		X.XX =		FINISH						
  3D VIEW										
TITLE	ASSY		MODEL	HWM-WFD-FP1600	②	F-PCB	IR BLACK, 3M 9199			
Drawn	Checked	Approval	Date	File Name	①	CARRIER	PC <BLACK>			
J.O.LIM		C.G.NAM	2015.10.08	전투웨이브	No.	PART NAME	MATERIAL	FINISH		
한울테크놀로지										