POINT MOBILE CO.,LTD

APPROVAL SHEET

PM560					
NO	NO MODEL FREQUENCY				
1	HWI-BT-PM560	Bluetooth	2402 ~ 2484 MHz		

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
3/8					



FAX: 032) 624-2559

HISTORY SHEET

ITEM	F-PCB Type ANTENNA		Developed by	Hwan. Choi	3/0
Part Name	HWI-BT	C-PM560 Director			
Rev. No.	Date		Description		Etc.
0	2022-12-16	Initial Version			
1	2023-01-26	Pattern Change			

ANTENNA SPECIFICATION

1. MODEL: HWI-BT-PM560

2. APPLICATION:

This specification is provided for Bluetooth 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 2402 ~ 2484 MHz		
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	Bluetooth Less than 1.5:1		#1. Attached
5. 4	PEAK GAIN(Min)	Bluetooth ≥ 3.6dBi		#2. Attached
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS		REMARK
6. 1	FCCL	Halogen Free CCL		
6. 2	INK	IR INK		Black
6. 3	Marking INK	INK (S-200W WITH HD-3)		White
6. 4	TAPE	TESA4982		
	Plating Thickness (Soft-ENIG)	Cu	8~12 <i>µ</i> m	
6. 5		Ni	1~3 <i>µ</i> m	
		Au	Min 0.03#	
6. 6	PET	0.188 T		
6. 7	Dimension	18 X 15 X 0.43mm		

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° / $+60^{\circ}$

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 : $90\% \sim 95\% / +60\%$

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.

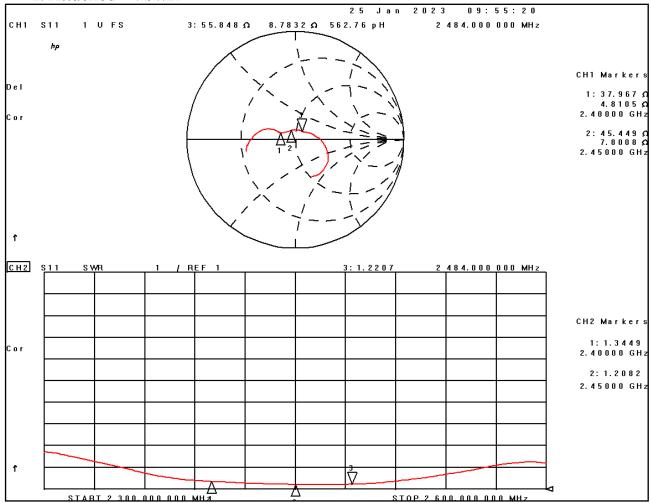
10. TEST and Q/C

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

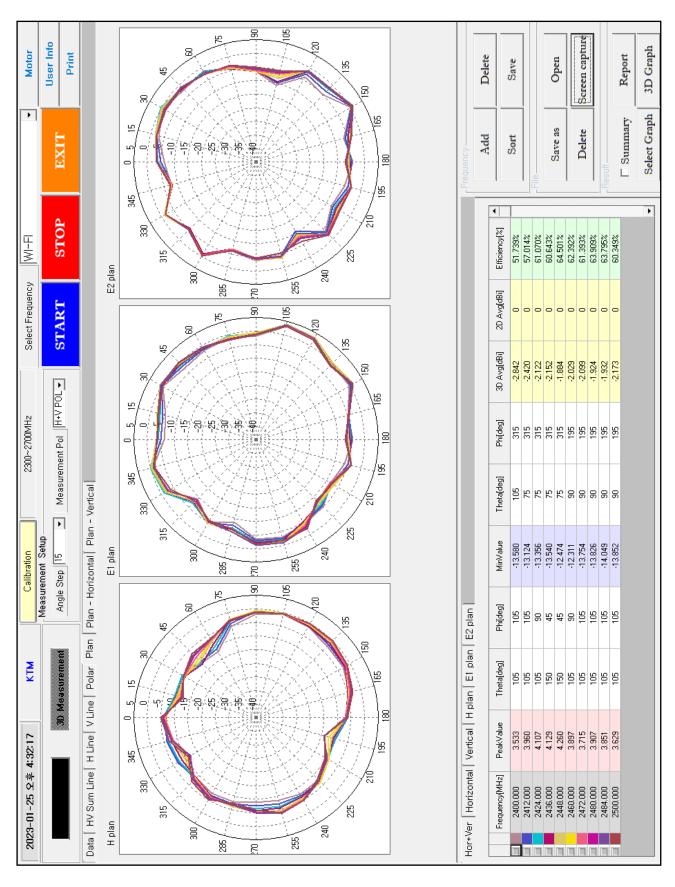
But it is possible to skip No. 7~9 demands, after consultation with buyer.

DQ No.	HW-230126-20	Modify No.		Write	Hwan. Choi
Supply to	POINT MOBILE CO., LTD	Date	2023-01-26	Approval	Chang-gi. Nam

- #1. Attached: VSWR



- #2. Attached: RADIATION PATTERN(GAIN)_Bluetooth



- #3. Attached: Drawing paper

