

APPROVAL SHEET

MODEL NAME		WB1NP9	
MCSLogic P/N			
NO	MODEL	FREQUENCY	
1	HWI-BTP-WB1NP9	BLUETOOTH	2402~ 2480MHz



SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					
H. CHOI	W.C. LEE	C.G. NAM			



FAX: 032) 624-2559

[illegible]

ANTENNA SPECIFICATION

1. MODEL: HWI-BTP-WB1NP9

2. APPLICATION:

This specification is provided for Bluetooth PCB Pattern 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

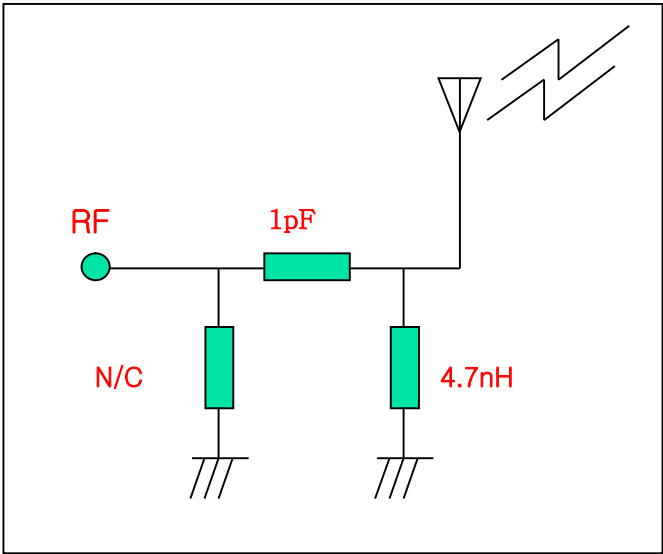
Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
5. 1	FREQUENCY RANGE	2400 ~ 2500 MHz	
5. 2	IMPEDANCE	50 Ω	NOMINAL
5. 3	V. S. W. R	Less than 1:2.0	#1. Attached
5. 4	PEAK GAIN (MAX)	3.784dBi	#2. Attached
5. 5	RADIATION PATTERN	OMNI – DIRECTIONAL	
5. 6	POLARIZATION	LINEAR	

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	Antenna Type	PIFA Type	
6. 2	Matching Value	4.7nH (Shunt)	GND Feeding
6. 3	Matching Value	1pF(Series)	
6. 4	Dimension [D X H X W]	17.8 X 4.8 X 1.0T	

7. IMPEDANCE MATCHING



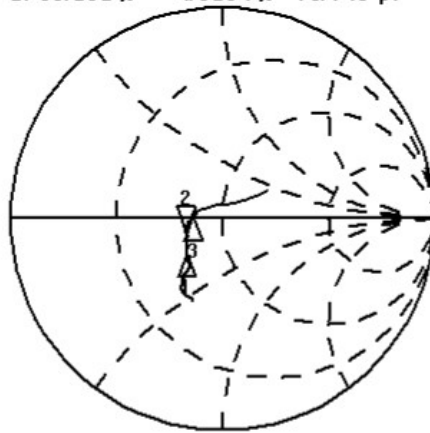
DQ No.	HW-190109-1	Modify No.		Write	Hwan. Choi
Supply to	MCSLogic CO., LTD	Date	2019-01-09	Approval	Chang-gi. Nam

- #1. Attached : VSWR

8 Jan 2019 10:25:36
CH1 S11 1 U FS 2: 35.232 μ -4.0234 μ 16.146 pF 2 450.000 000 MHz

Del

Cor



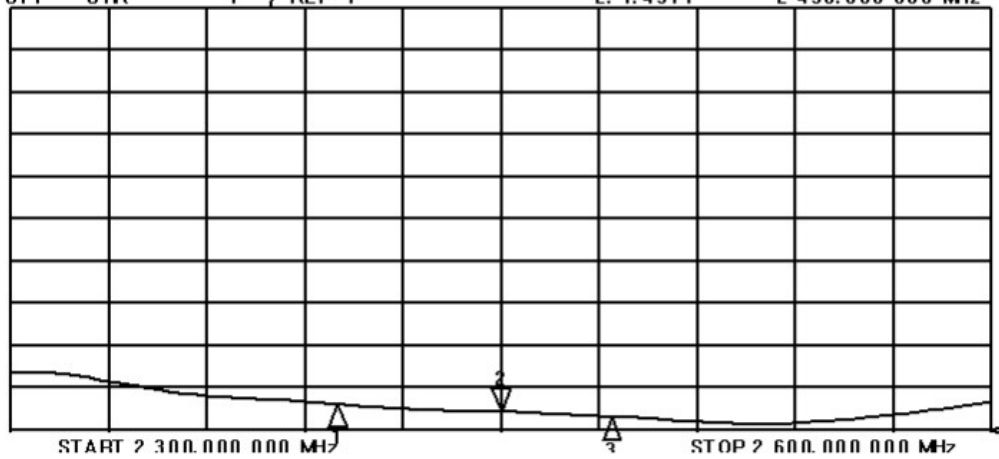
CH1 Markers

1: 34.180 μ
 -11.918 μ
 2.40000 GHz
 3: 38.205 μ
 0.6211 μ
 2.48400 GHz

↑

CH2 S11 SWR 1 / REF 1 2: 1.4371 2 450.000 000 MHz

Cor

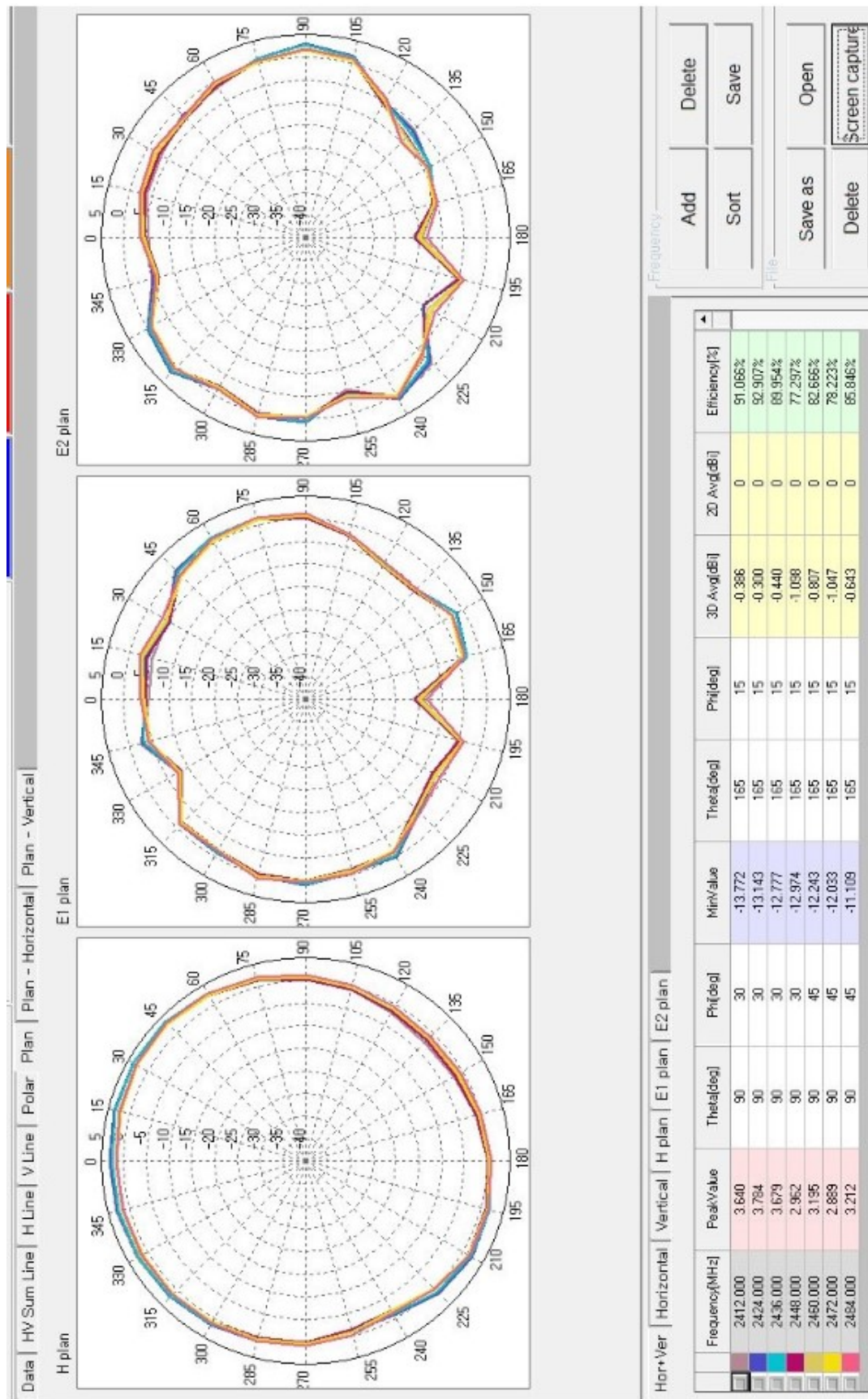


CH2 Markers

1: 1.6075
 2.40000 GHz
 3: 1.3091
 2.48400 GHz

↑

- #2. Attached : RADIATION PATTERN(GAIN)



- #3. Attached : Drawing paper

