Customer : _____　　　**P/N :** _____ **( )** _____

SPECIFICATION

Sb-F

Product : FPCB Antenna
_____

Remarks : _____
_____

_____

Revision: 1.1 (2022-12-15)

BLUECOM BT R&D			QA/QC
WRITTEN	**CHECK**	**APPROVAL**	**CHECK**
	CHECK	**APPROVAL**	**APPROVAL**

BLUECOM

- Contents -

3LUECOM

1. Revision History

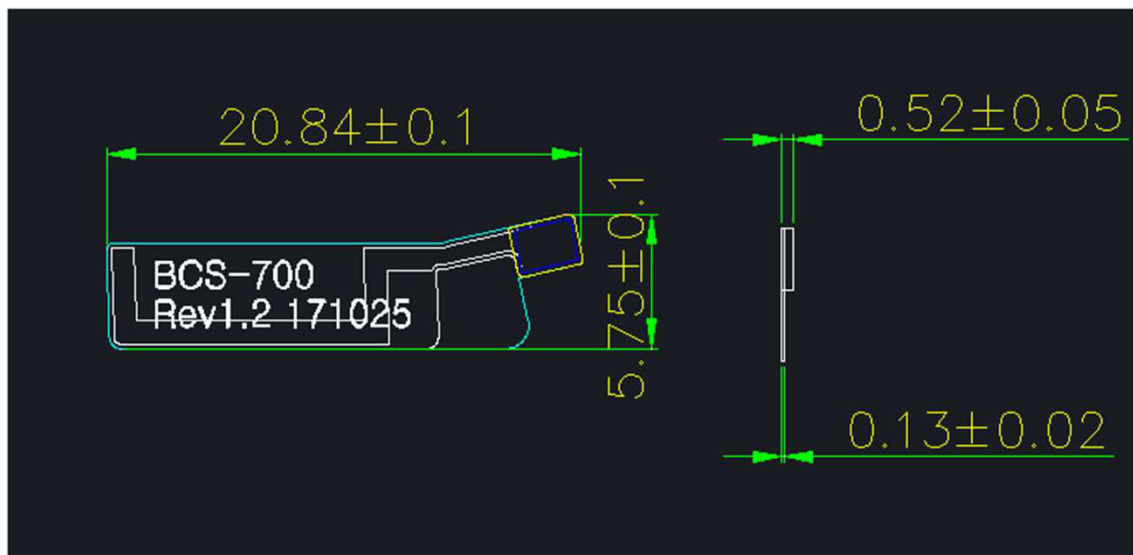| Rev.No	Issued Date	Page	Description	Summary
1.0	17-Aug-22	-	initial release	
1.1	15-Dec-22	-	DV Event	

2. Introduction

2.1 Introduction of Product

This Product is a FPCB BT Antenna that the thin copper is printed inside FPCB

2.2 Specification and Dimension

size [mm]	L = 20.84 ± 0.10	
	W = 5.75 ± 0.10	
	T = 0.13 ± 0.02	
Model	BCS-700 Pro	
Application	Bluetooth	
P/N	BCS-700 Antenna	
Revision	1.2	

3. Electrical Characteristics

3.1 Set Condition

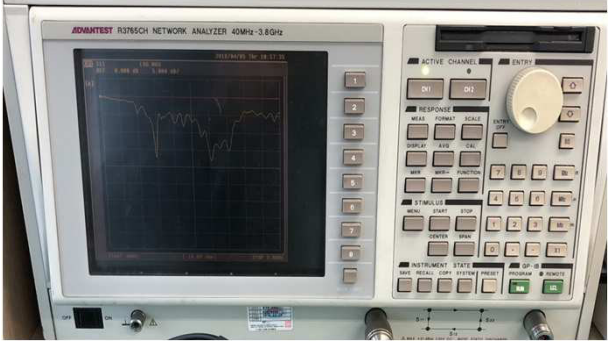| ITEM	SPEC				
Frequency Range [MHz]	1300 ~ 3300				
VSWR [MAX]	3.0 : 1				
Input Impedance [Ω]	50 Ohm				
Polarization	Linear				
Radiation Pattern	Omni-Directional				
Peak Gain(Max)	-0.47dBi (2400MHz)	-1.77dBi (2420MHz)	-4.17dBi (2450MHz)	-5.73dBi (2460MHz)	-6.49dBi (2480MHz)

3.2 Graph of Set Condition
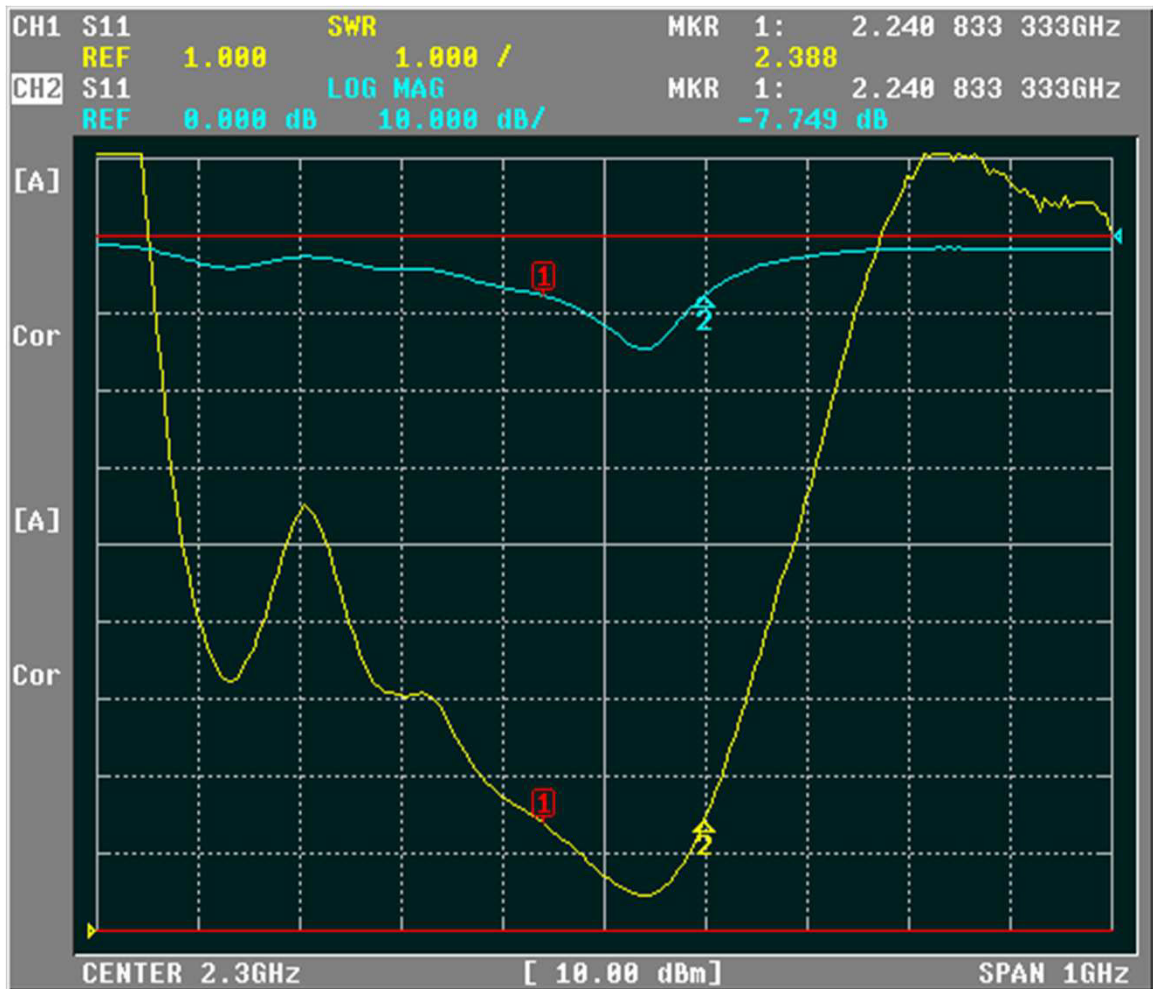
3.3 Table of Passive Effiency & gain

	1	2	3	4	5	6	7	8	9
Frequency [MHz]	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency [dB]	-5.84	-6.11	-6.74	-7.68	-8.09	-8.53	-9.49	-9.65	-9.92
Efficiency [%]	26.0	24.5	21.2	17.1	15.5	14.0	11.3	10.8	10.2
Peak Gain [dB]	-0.47	-1.01	-1.77	-2.70	-3.41	-4.17	-5.73	-6.07	-6.49
Directivity [dB]	5.37	5.10	4.97	4.98	4.68	4.36	3.76	3.57	3.43
Minimum Gain [dB]	-15.41	-14.85	-14.98	-15.98	-17.07	-17.00	-16.93	-17.52	-17.40
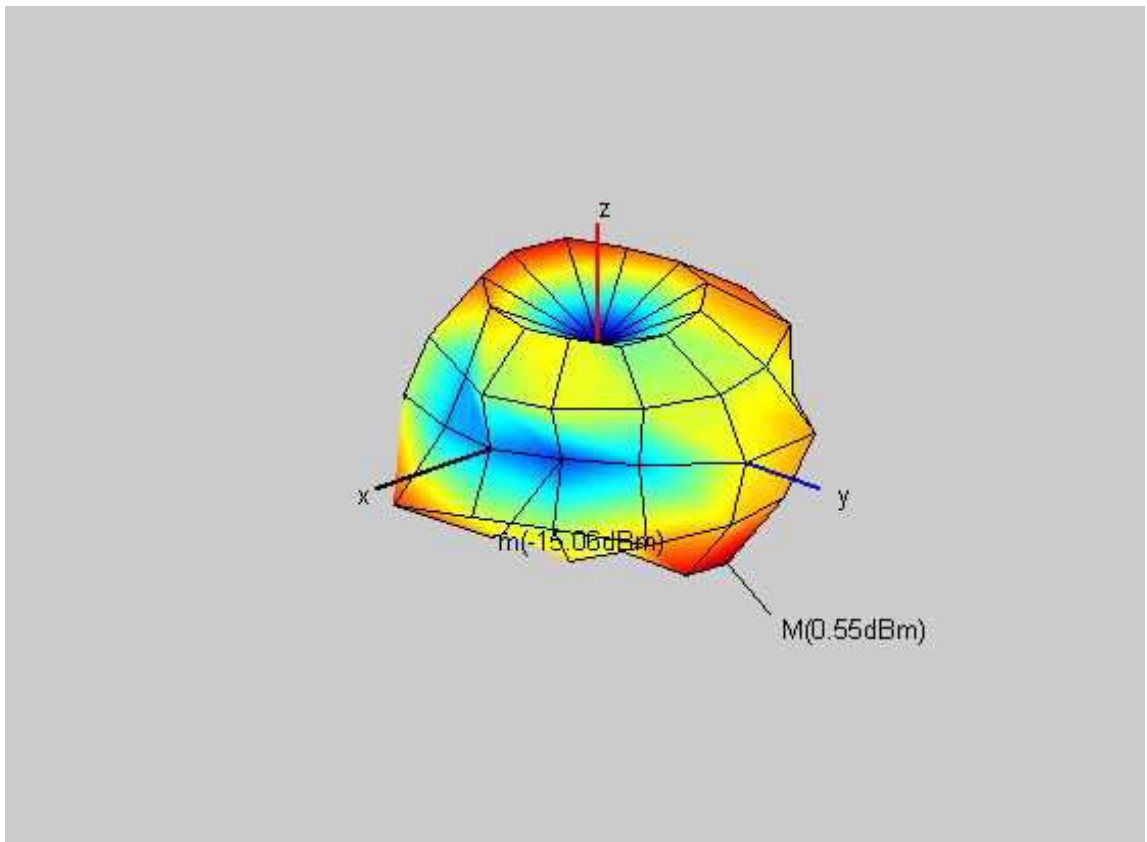
4. Measurement Process

4.1 VSWR/Returnloss

	Set Condition
Network Analyzer	ADVANTEST R3765CH
Cable	RF Cable (300mm)
Test Condition	

4.2 Gain

- The Antenna Gain is measured using the set at Anechoic Chamber

Anechoic Chamber for Antenna Gain Measurement