

Antenna Specification

Project : SM-U600

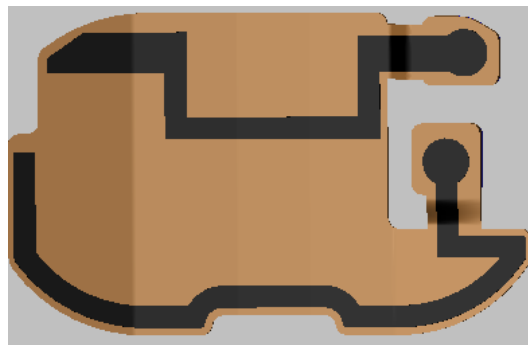
P/N : ANT FPC

Vendor : Huizhou Speed Wireless Technology Co.,Ltd

Antenna Description

Antenna Type : Inverted-F

Size : 14.54 x 8.8 x 0.415mm



Radiation Pattern Test

Antennas tested for Gain and Efficiency must be assembled into the enclosure and tested in the fully assembled and operating **Galaxy Buds**. The antenna is tested in free space in the anechoic chamber in the H, E1 and, E2 planes. The radiation patterns are measured at the center of transmit and receive bands.

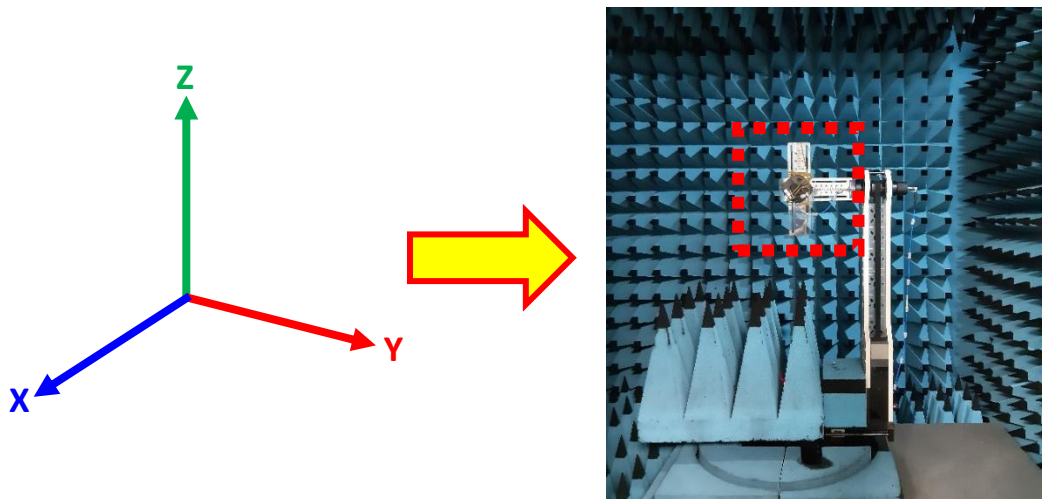


Figure 1: Geometry for **Galaxy Buds** for Radiation patterns.

Chamber Information

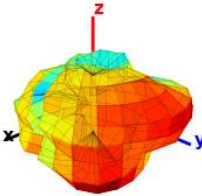
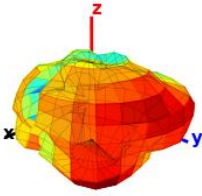
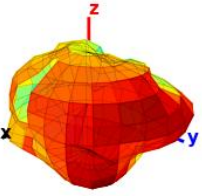
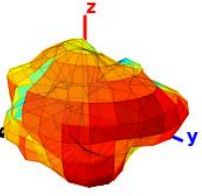
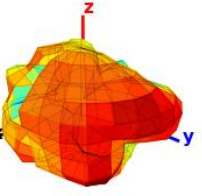


Figure 2: Geometry of Anechoic Chamber for Radiation patterns.

- ✓ Location : Samsung R&D Center R5 bld.
- ✓ Size : 4m x 2.5 x 2.5m (L x W x H)
- ✓ Frequency : 600 MHz -18GHz
- ✓ TX Antenna : 2GHz –18GHz Dual Polarization
- ✓ Quiet zone : 22cm @ 6GHz (Far-Field Length 2m)
- ✓ 2-axis DUT positioner -360°continuous rotation

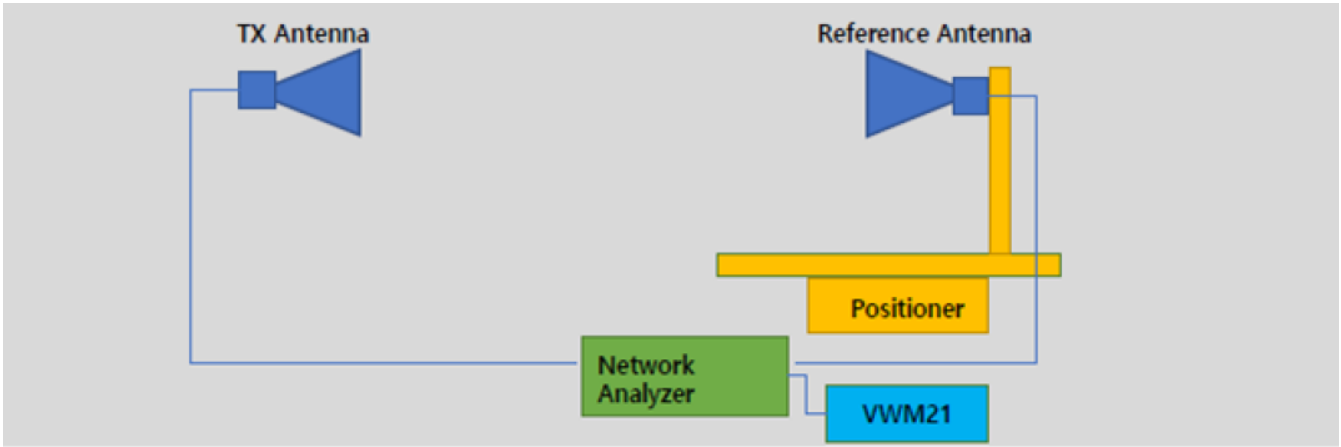
Antenna Peak Gain & Antenna Radiation Pattern (3D)

- Test Dates : 2026. 06. 29
- Location : Samsung R&D Center R5 bld

Model	Freq. [MHz]				
	2,400 MHz	2,420 MHz	2,440 MHz	2,460 MHz	2,480 MHz
Galaxy Buds					
	-9.37 dBi	-8.59 dBi	-8.97 dBi	-9.42 dBi	-9.14 dBi

	Frequency [MHz]	Average gain			Peak gain		
		Ver	Hor	Total	Ver	Hor	Total
1	2400	-20.8	-15.9	-14.65	-27.21	-9.44	-9.37
2	2420	-19.7	-14.9	-13.65	-16.72	-9.32	-8.59
3	2440	-19.6	-15	-13.69	-15.91	-9.95	-8.97
4	2460	-20.2	-15.5	-14.26	-17.1	-10.24	-9.42
5	2480	-20.2	-15.4	-14.15	-17.8	-9.78	-9.14

Table of calibrated equipment



Part	Model Name	Specification	
TX Antenna	QRH-006M-006G	600MHz to 6GHz	
	QRH-002G-018G	2GHz to 18GHz	
Reference Antenna	BBHA9120LFA	680MHz to 6500MHz	Calibration Frequency (680MHz to 6GHz)
	BBHA9120C	2GHz to 18GHz	Calibration Frequency (2GHz to 8.5GHz)
Network Analyzer	Agilent 5071B	300KHz to 8.5GHz	Cal. Due : 2027. 03. 06
Measurement Software	VWM21		MTG Visual Wave-Mobile (Ver.2.1)

By Test : Mobiletech Calibration Lab co.,Ltd. Jaecheon Eom

Names of commercial test software being used

MTG Visual Wave-Mobile (Ver.2.1)