

**APPENDIX B**  
**: OPERATIONAL DESCRIPTION**

## Operational Description

- The EUT is a Wireless Headphone that can receive the audio signals from the RF transmitter.
- The audio signal that received from the antenna is amplified by Q101 and Q102. The amplified signals change to IF frequency 10.7MHz at a MIXER part of Q103. The IF frequency is filtered at U101, Z101 and FM demodulated at DET circuit. The demodulated FM signal is separated L, R channels and amplified by U101. The amplified L, R signal pass to the speaker on the headphone set.
  - ✓ Receiving Frequency : 426MHz, 428MHz (2CH)
  - ✓ Modulation Type : FM
  - ✓ Receiving Type : Heterodyne
  - ✓ Power supply : 3Vdc(1.5Vdc AAA x 2)

### ■ MAIN COMPONENT LIST

Block	Circuit No	Name	Description
LNA	Q101,Q102	STC917	Low noise amplifier
MIXER	Q103	STC917	Signal mixer
OSC	Q104	STC917	Oscillator
FILTER	Z101	LT10MA20	IF Ceramic filter(10.7MHz)
DISCRIMINATOR	X101	ZT10.7MG	10.7MHz
RESONATOR	X102	ZTB456F16	456KHz
AUDIO AMP	U102	TDA2822D	Audio amplifier

The detail information of used component is described on the schematic diagram.