

## Technical Description

The equipment under test (EUT) is a Bluetooth Speaker. The EUT will operate 3.7 VDC fully charged rechargeable battery charged by an USB Power Adapter with AC 120V, 60Hz input or PC during the test. For more detail information pls. refer to the user manual.

### Bluetooth V2.1 Channel List

2402	2403	2404	2405	2406	2407	2408	2409	2410
2411	2412	2413	2414	2415	2416	2417	2418	2419
2420	2421	2422	2423	2424	2425	2426	2427	2428
2429	2430	2431	2432	2433	2434	2435	2436	2437
2438	2439	2440	2441	2442	2443	2444	2445	2446
2447	2448	2449	2450	2451	2452	2453	2454	2455
2456	2457	2458	2459	2460	2461	2462	2463	2464
2465	2466	2467	2468	2469	2470	2471	2472	2473
2474	2475	2476	2477	2478	2479	2480		

### Bluetooth V4.0 Channel List

2402	2404	2406	2408	2410	2412	2414	2416	2418	2420
2422	2424	2426	2428	2430	2432	2434	2436	2438	2440
2442	2444	2446	2448	2450	2452	2454	2456	2458	2460
2462	2464	2466	2468	2470	2472	2474	2476	2478	2480

**Modulation Type: GFSK for BT 4.0 and GFSK,  $\pi/4$ DQPSK, 8DPSK for BT 2.1+EDR**

**Bluetooth Version: 4.0 and 2.1 with EDR**

**Antenna Type: Integral antenna**

**Antenna Gain: 0dBi**

**The nominal radiated output power (e.i.r.p) specified: -2 dBm (Tolerance: +/- 3 dB)**

**The nominal conducted output power specified: -2 dBm (Tolerance: +/- 3 dB)**

The function of main IC is mentioned as below.

- 1) IC1 acts 5V DC to DC.
- 2) IC2 acts 3.3V DC to DC
- 3) IC3 acts POWER AMP
- 4) IC4-A acts operational amplifier
- 5) IC4-B acts operational amplifier

- 6) IC5 acts Audio Switch Processor
- 7) IC6 acts Regulator
- 8) IC7 acts Regulator
- 9) MC1 acts Microcontroller Processor
- 10) BU1 Bluetooth module

In Bluetooth Module:

- 1) U1 acts as Bluetooth chip.
- 2) U2 is a filter.
- 3) U3 acts as EEPROM.
- 4) Y1 is a 26MHz oscillator for Bluetooth chip.