

# OPERATIONAL DESCRIPTION

The equipment under test (EUT) is a transmitter of 2.402-2.480GHz Bluetooth Speaker

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	5.02dBm(Max)
Bluetooth Version	V4.0
Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Number of channels	79 for traditional BT 40 for BLE
Hardware Version	BSK52
Software Version	BSK52
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
Note: The Micro USB port only used for charging and can't be used to transfer data with PC.	

After the product has been connected to DC 3.7V, product will start to work through XTAL 26MHz (Y1) vibration. During transmitting, transceiver (U1:CSR8605) will output low-power signals to the PA (Power Amplifier), and then eradiate signals to the space through Antenna network. During receiving signal, antenna will send electromagnetic wave signal to the Low Noise Amplifier for enlarging, and then signal will be sent to transceiver to demodulate.