

# Operation Description

The 16MHz Crystal oscillator drivers the base of 2.4GHz the final/ buffer amplifier. The modulation provided by MASK. The output of carrier has the matching network consisting of proper band pass filter that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

## Antenna, Ground and Power Source

The antenna consists of a 10 mm long PCB antenna.

There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by USB.

The dongle transmitter and receiver are operated at 2.4GHz and powered by USB. The transmitting and receiving frequencies are crystal controlled. The operation is achieved by different combinations of frequency modulationg signals on the 2.4GHz carrier frequency.

## Remark:

The EUT transmits while received remoter signal. It is modulation by IC(U1 SPRF2413A) and type is pulse modulation.