31LT216MHZ

31LT Adjustment Procedure

1) Output adjustment
   a) Put a lapel microphone into the jack(3.5mm diameter) and turn on the switch (SW101). Put an antenna on the spectrum analyzer.
   b) Adjust T101, 103, 104, 105, and VC101 and VC102. Maximize the output level of carrier frequency and minimize the spurious as low as possible. The spurious should be -45dBm less than the carrier frequency.

2) Transmitter frequency adjustment
   a) Connect the frequency counter to the mic jack (3.5mm diameter jack) and TP1 .
   b) Adjust the T101 and the transmitte frequency should be within the desired frequency±2kHz.

3) Max Frequency deviation adjustment
   a) Turn on the SW101
   b) Connect the oscillator and DC volt meter to the Mic jack
   c) Put the Liner detector between the shielding of 3.5mm mic jack and TP1 then AF output of Liner detector should be connect to the Oscilloscope.
   d) Turn on VR101 clockwise(maximize) and provide AF(1KHz) output by -20dBm.
   e) Then Adjust VR102 and its deviation should be ±12kHz

4) Modulation sensitivity adjustment
Adjust VR101 and the frequency deviation should be within ±7kHz.

5) Transmitter frequency
Connect the frequency counter between shielding of 3.5mm Mic jack and TP1, then reconfirm the transmitter frequency allowance will be within ±2kHz.

6) Frequency response
Reduce the oscillator level by 20dBm from above (4) and change the oscillator frequency to 100Hz, then make sure the level will be within -2.5±1.0dB. Then change the frequency to 10kHz and then its level will be within +4.5dB±1.0dB.

6) LED check
Reduce the power voltage to 5.0V and make sure LED does not light up.