TUNING PROCEDURE

UH16 WIRELESS MICROPHONE

UH16 Transmitter:

1: The following items are adjusted and measured according to scheme 1

a) RF Power Typical result = 13 dBm

b) RF Frequency Typical result, CH 1 = 726.00 MHz, CH 16 = 745.90 MHz

Adjustment = VC1 for correct frequency

c) Drain Current Typical result = 120 mA

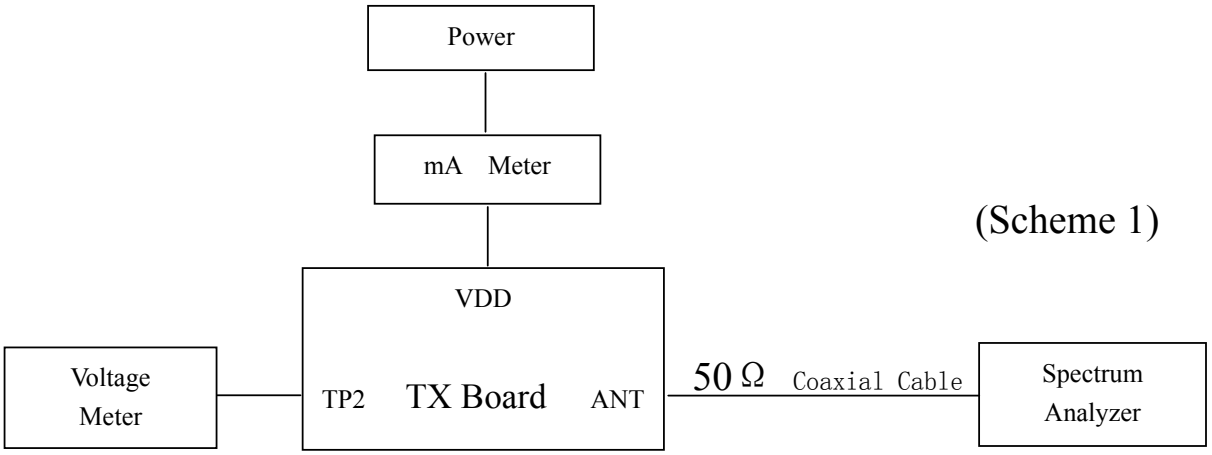
d) Harmonics Typical result, Fx2 <-40 dBm, Fx3 <-45 dBm, others <-65 dBm

e) Spurious Typical result = <-40 dBm

f) Low Battery on Typical result = 2.2V

g) VCO Voltage Typical result, CH 1=0.8V, CH 16=2.22V

Adjustment = VC2 to center VCO control voltage range.



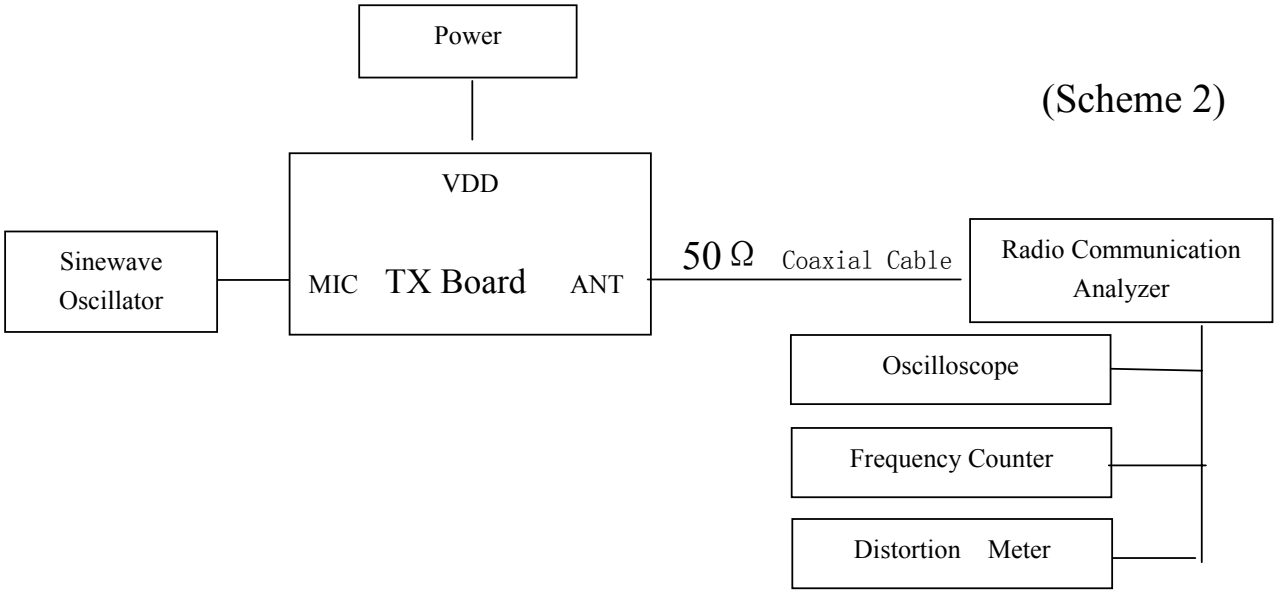
(Scheme 1)

2: The following items are measured according to scheme 2

a) Pilot Tone Frequency Typical result, Tone 1= 32.768 KHz Tone 2= 30.720 KHz

b) Pilot Tone Modulation Deviation Typical result = 6 KHz

c) 1 kHz Audio Tone Modulation Distortion Typical result = <1 %



(Scheme 2)

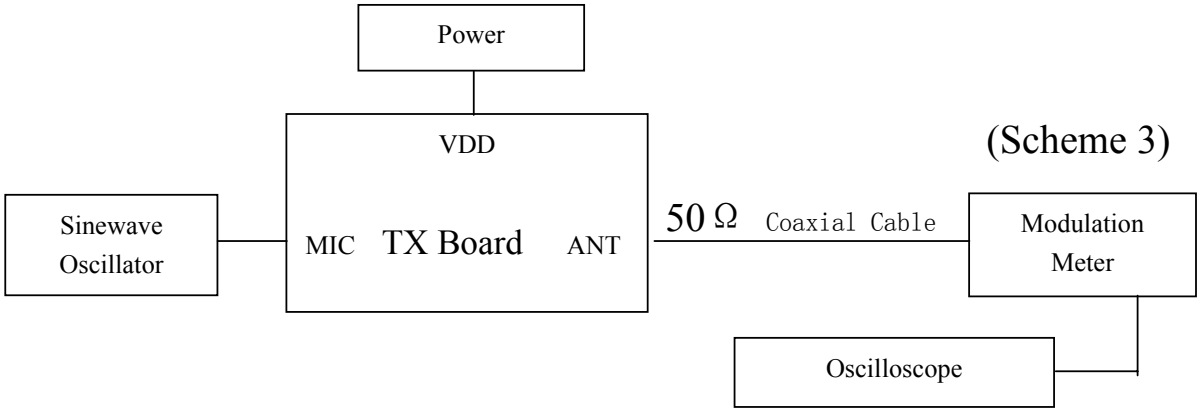
3: The following items are adjusted and measured according to scheme 3

a) Normal Deviation Typical result = 25 KHz for UHT-16 = 24 mV RMS

At 400 Hz UB-16 = 225 mV RMS

Adjustment = VR1 for microphone level

b) Maximum Deviation Typical result = 200 KHz


Power
VDD
(Scheme 3)
Sinewave
Oscillator
MIC
TX Board
ANT
50 Ω
Coaxial Cable
Modulation
Meter
Oscilloscope