

FRS 130 TX alignment procedure

- 1) Adjust power supply to 6V, turn on the unit.
- 2) In RX mode, set to CH1, measure the VCO voltage.
- 3) Adjust the VCO voltage to 0.8V by tuning the coil L9.
- 4) Press PTT button, the unit then in TX mode, the VCO voltage will change to about 0.8V +/- 0.2V.
- 5) Measure the TX frequency, adjust the frequency to 462.5625MHz +/- 100Hz by Variable-capacitor TC1 (30pF).
- 6) Also measure the TX power within the range 500mW +/- 100mW.
- 7) Release the PTT button, change to CH14.
- 8) Press the PTT button again, measure the TX frequency which must be 467.7125MHz +/- 300Hz and also measure the TX power as in step 6.
- 9) The VCO voltage in CH14 TX mode must less than 2.9V.