



ALIGNMENT PROCEDURE AND SPECIFICATION

A. STANDARD TEST CONDITION

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|------------------------------|------------------------------|
| 1. RF IN/OUT IMPENDANCE | -----50 OHM |
| 2. RF SIGNAL GENERATOR | |
| RF OUTPUT | -----47dbm |
| MODULATION | -----1Khz, 1.2 Khz DEVIATION |
| 3. SPEAKER OUTPUT IMPENDANCE | -----8 OHM |
| 4. SPEAKER VOLUME | -----MAXMUM |
| 5. MIC INPUT SIGNAL | -----1Khz 6mVrms |
| 6. POWER SUPPLY | -----DC 6V±15% |

B. ELECTRICAL TEST ITEMS

1. VCO VOLTAGE ADJUSTMENT

- 1) PRESS AND HOLD DOWN THE POWER BUTTON TO POWER ON
- 2) PRESS THE PTT BUTTON INTO THE TX MODE
- 3) CONNECT THE DC VOLT METER TO TP1
- 4) ADJUST L1 AND OBSERVE DC VOLTAGE

LIMIT: 1.6±0.3 Vdc

2. FREQUENCY ADJUSTMENT

- 1) CONNECT THE FREQUENCY COUNTER TO ANT POINT
- 2) PRES THE PTT BUTTON
- 3) ADJUST THE FREQUENCY BY TC401

LIMIT: ±200HZ

3. TX POWER CHECK

- 1) CONNECT THE RF POWER METER TO ANT POINT
- 2) PRESS THE PTT BUTTON
- 3) MEASURE THE TX POWER

LIMIT: 26dBm±1dB

4. MIC MODULATION SENSITIVITY CHECK

- 1) CONNECT THE MODULATION METER TO ANT
- 2) THE AUDIO SIGNAL INPUT TO MIC
- 3) PRESS THE PTT BUTTON
- 4) MEASURE THE MODULATE DEV

LIMIT: 1.2 ± 0.3 Khz DEV

5. MAXIMUM DEVIATION CHECK

- 1) CONNECT THE MODULATION METER TO ANT.
- 2) THE AUDIO SIGNAL INPUT TO MIC.
- 3) INCREASE THE AUDIO LEVEL BY 20DB
- 4) PRESS THE PTT BUTTON
- 5) MEASURE THE MODULATE DEV.

LIMIT: <2.5 Khz

6. CALL SIGNAL MODULATION DEV. CHECK

- 1) CONNECT THE MODULATION METER TO ANT.
- 2) PRESS THE CALL BUTTON
- 3) MEASURE MODULATE DEV.

LIMIT: 1.1 ± 0.3 Khz DEV

7. LOW BATTERY DETECT CHECK

- 1) VARY THE DC POWER
- 2) OBSERVE THE BATTERY ICON INSIDE BARS DISAPPEARED
- 3) MEASURE THE DC POWER VOLTAGE

LIMIT: $4.2-4.5$ Vdc.

8. ECRIMINATOR ADJUST

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE DC VOLT METER TO TP9
- 3) ADJUST IF101 AND MEASURE TP9 VOLTAGE

LIMIT: 0.8 ± 0.3 Vdc

9. SPEAKER OUTPUT LEVEL CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE AUDIO VOLT METER TO SPK.
- 3) MEASURE THE SPEAKER OUTPUT LEVEL

LIMIT: 0±4dBm

10. RECEIVING SENSITIVITY CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE SINAD METER TO SPK.
- 3) REDUCE THE SSG RF OUTPUT LEVEL UP TO SINAD 12Db
- 4) MEASURE THE SSG RF OUTPUT LEVEL

LIMIT: <-118dBm

11. SQ CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE SINAD METER TO SPK.
- 3) CONNECT THE DC VOLT METER TO TP10
- 4) REDUCE THE SSG RF OUTPUT UP TO TP10 OS CHATERING
- 5) ADJUST VR102 AND MEASURE THE SINAD METER

LIMIT: 7.5±2 dB