

# Section 5.3.5

## 3000B

# PERFORMANCE TEST RECORD

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Serial # \_\_\_\_\_

Date # \_\_\_\_\_

Tech # \_\_\_\_\_

**I. VISUAL INSPECTION**

**A. External Hardware Inspection**

1a. Front panel hardware & appearance \_\_\_\_\_

8 \_\_\_\_\_ 9 \_\_\_\_\_ 10 \_\_\_\_\_

4a. Subtone filter response and frequency accuracy: 60 to 238 Hz  $\pm$  .1 Hz

**II. VOLTAGE REQUIREMENTS**

**A. Regulation**

1a. Regulation (104VAC) \_\_\_\_\_

1b. Regulation (126VAC) \_\_\_\_\_

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_

7 \_\_\_\_\_ 8 \_\_\_\_\_ 9 \_\_\_\_\_

5a. Audio sources max output fixed \_\_\_\_\_

Audio sources max output synth. \_\_\_\_\_

6a. Scope sweep rate adjusted \_\_\_\_\_

**III. SYSTEM TIME BASE**

**A. TCXO Accuracy**

1a. TXCO error 10.000000 MHz \_\_\_\_\_  $\pm$  4 Hz

1b. RCV frequency error 852.35 MHz \_\_\_\_\_  
 $\pm$  400 Hz

1c. RCV frequency error 52.35 MHz \_\_\_\_\_  
 $\pm$  20 Hz

**B. SINAD**

1a. Notch Range \_\_\_\_\_  $<$  -20 dB

1b. Accuracy (-12 dB) \_\_\_\_\_  $\pm$  1 db

**IV. AUDIO SECTIONS**

**A. Voltmeter/Scope Calibration Check**

1a. 1.5 V peak measurement meter (1.5V) \_\_\_\_\_  
 $\pm$  .075V

1.5 V peak measurement scope (1.5V) \_\_\_\_\_  
 $\pm$  .075V

2a. Audio in LED w/200 mV \_\_\_\_\_

3a. 1000 to 9999 Hz Audio Synthesizer  $\pm$  1 Hz

1 \_\_\_\_\_

2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_

5 \_\_\_\_\_ 6 \_\_\_\_\_ 7 \_\_\_\_\_

**V. HIGH FREQUENCY SYNTHESIZER**

**A. Lock Requirements**

1a. A3 lock through range \_\_\_\_\_

**VI. GENERATOR FUNCTIONS**

**A. Residual FM**

1a. Residual FM 450 MHz \_\_\_\_\_  $<$  100 Hz

Residual FM 850 MHz \_\_\_\_\_  $<$  100 Hz

**B. FM Deviation Accuracy**

1a. 5 kHz Generator deviation accuracy (3.5 kHz average)  $\pm$  .35 kHz (10%) 3.19 to 3.89