# 6 FCC RULES AND REGULATIONS PART 2 §2.1053 (A): FIELD STRENGTH OF SPURIOUS RADIATION

## 6.1 TEST PROCEDURE

ANSI/TIA/EIA-603-1992, section 2.2.12

The transmitter is terminated with a 50 Ω load and is modulated with a 2,500 Hz sine wave at an input level 16 dB greater than that required to produce 50% of the rated system deviation at 1000 Hz.

Refer to section "Radiated Measurement" in this report for further information.

## 6.2 TEST DATA

The worst-case emissions test data are shown. The magnitude of emissions attenuated more than 20 dB below the FCC limit need not be recorded.

| Radiated Emissions (Channel 25 at 1851.25 MHz)<br>Substitution Method (limit = 42.1 dBc) | | | | |
|---|---|---|---|---|
| **Frequency (MHz)** | **S/G level (dBm)** | **Correction Factor (dB)*** | **ERP (dBc)** | **Margin** |
| 3702.50 | -51.9 | 2.4 | 78.6 | 36.5 |
| 5553.75 | -34.6 | 3.6 | 60.1 | 18.0 |
| 7405.00 | NF | | | |
| 9256.25 | NF | | | |
| 11107.50 | NF | | | |
| 12958.75 | NF | | | |
| 14810.00 | NF | | | |
| 15551.25 | NF | | | |
| 18512.50 | NF | | | |

*This insertion loss corresponds to the cable connecting the RF Signal Generator and the respective correction to a ½ wave dipole antenna. NF= Noise floor of spectrum analyzer

## 6.3 TEST EQUIPMENT

Antenna: CHASE CBL6112 s/n 2099
Amplifier: HP8449Bs/n 3008A00505
Spectrum analyzer: HP8564Es/n 3943A01719

RF Signal Generator HP8648Cs/n 3537A01741
Synthesized Sweeper HP83752A s/n 3610A00846