

### **3.1 DESCRIPTION OF TESTS (CONTINUED)**

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#### **3.4 §2.1049 Occupied Bandwidth**

The audio signal generator is adjusted to 1kHz. The output level is set to +/- 6kHz deviation. With the level constant, the freq. is set to 2,500Hz. Then the audio signal level is increased by 16dB.

The limits are specified in Section 2.1049.

##### **Bandwidth Calculations (2M + 2D):**

$$\begin{aligned} 2(3) + 2(2.20) \\ 6 + 4.4 = 10.4 \text{ kHz} \end{aligned}$$

##### **Emission Designator = 10K4F3E**

M = maximum modulation frequency

D = maximum deviation from modulating limiting plot

#### **3.5 §2.1051 Spurious and Harmonic Emissions at Antenna Terminal**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to the tenth harmonic.

#### **3.6 §2.1053 Radiation Spurious and Harmonic Emissions**

Radiation and harmonic emissions above 1 GHz is measured at out 3-meter indoor site. The EUT is placed on the turntable connected to a dummy load in normal operation using the intended power source. A receiving antenna located 3 meters from the turntable receives any signal radiated from the transmitter and its operating accessories. The antenna is varied from 1 to 4 meters and the polarization is varied (horizontal and vertical) to determine the worst-case emission level. To obtain actual radiated signal strength, a signal generator is adjusted in output until a reading identical to that obtained with the actual transmitter is obtained at the receiver. Signal strength is read directly from the generator and recorded on the attached table.