

## **MEASUREMENT PROCEDURE**

### **Subpart 2.1049 and 24.133**

#### **BANDWIDTH OF FUNDAMENTAL EMISSION UNDER MODULATION**

The following test was performed by Stephen Makk & Associates, Inc. The EUT was modulated by a 2.4 kHz peak deviation with 3.2 kHz modulation frequency. The data for this measurement is shown in Figures 3A through 3L and the emission mask applied in 3M & 3N.

#### **FCC Minimum Standard**

From authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of up to and including 40 kHz

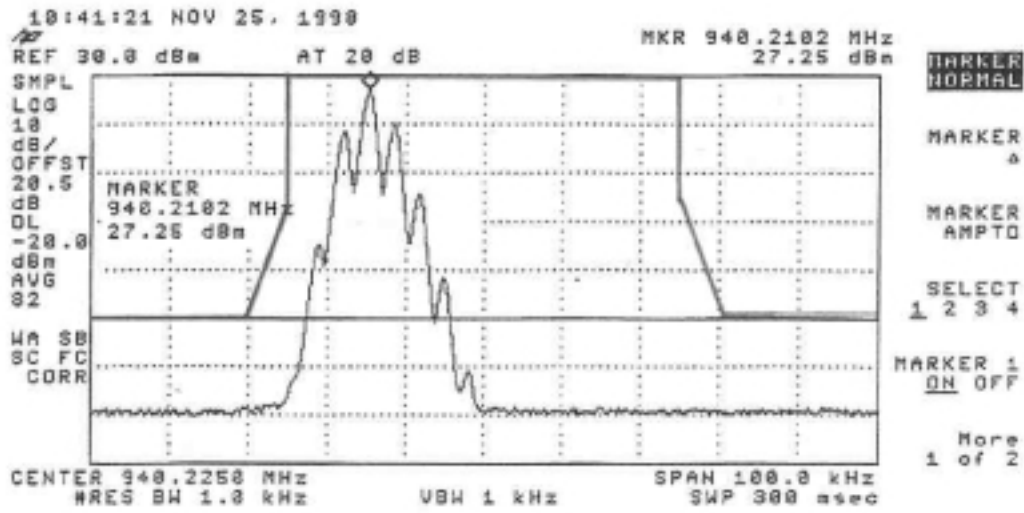
at least  $116 \text{ Log}_{10} ((f_d + 10)/6.1)$  dB or  $50 + 10 \text{ Log}_{10} (P)$  dB or 70 dB whichever is lesser attenuation

> 40 kHz

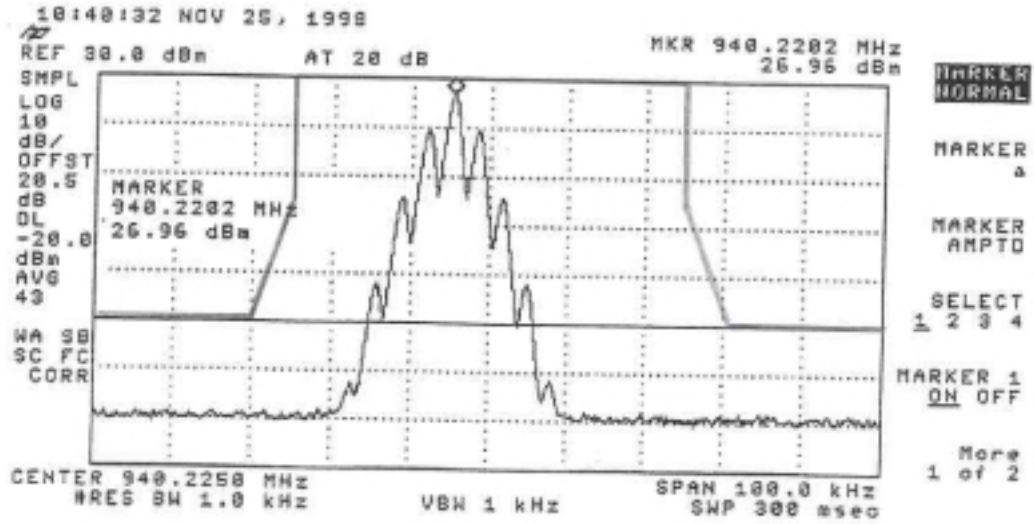
$43 + 10 \text{ Log}_{10} (P)$  dB

or 80 dB whichever is lesser attenuation

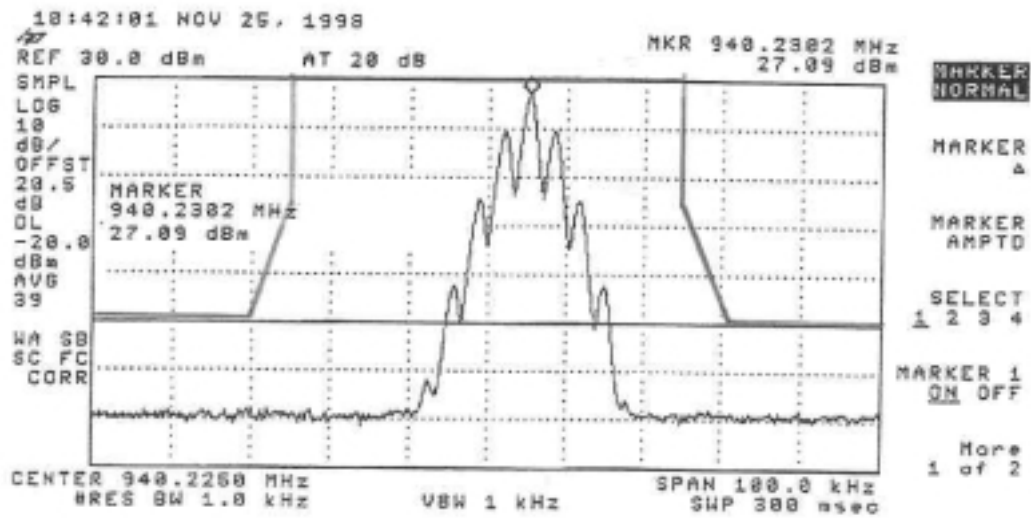
**Figure 3A**  
**Occupied Bandwidth Single Carrier (940.210 MHz)**



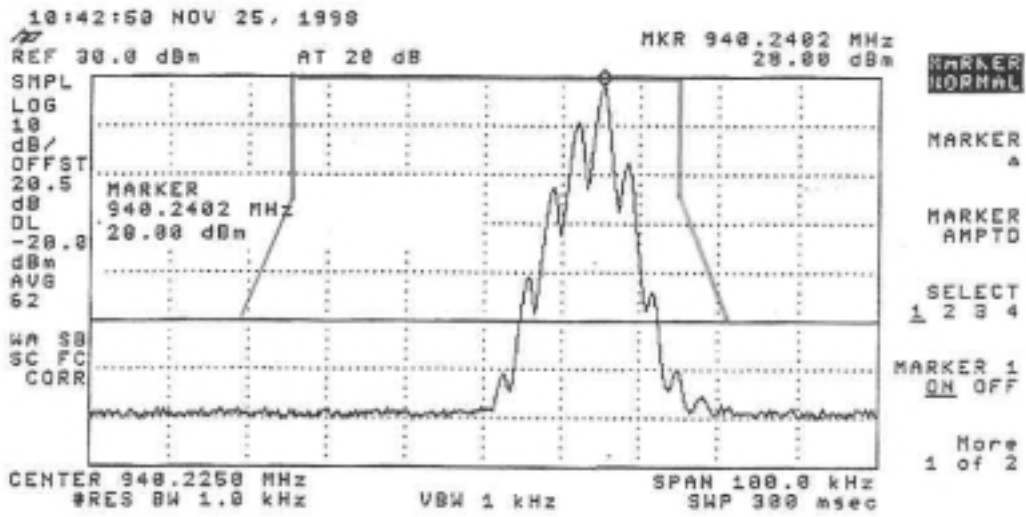
**Figure 3B**  
**Occupied Bandwidth Single Carrier (940.220 MHz)**



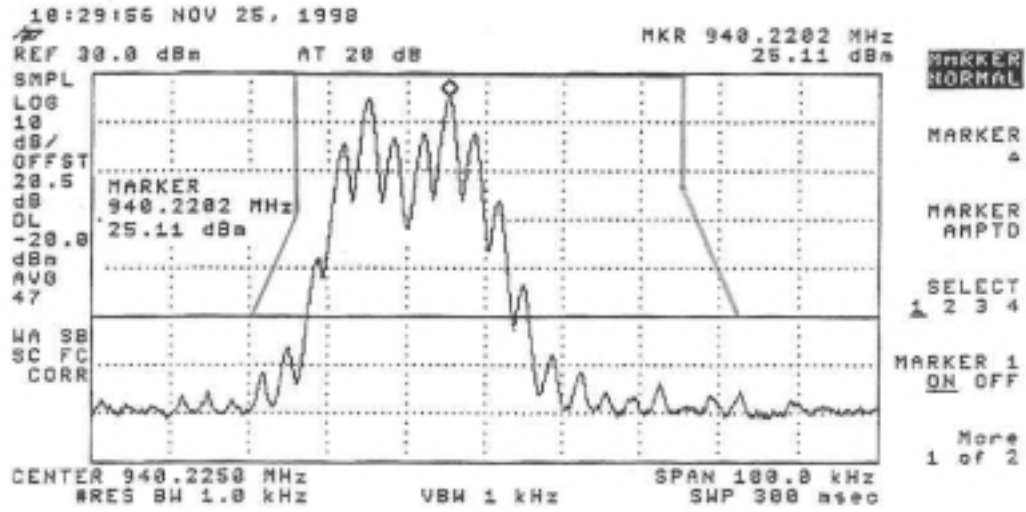
**Figure 3C**  
**Occupied Bandwidth Single Carrier (940.230 MHz)**



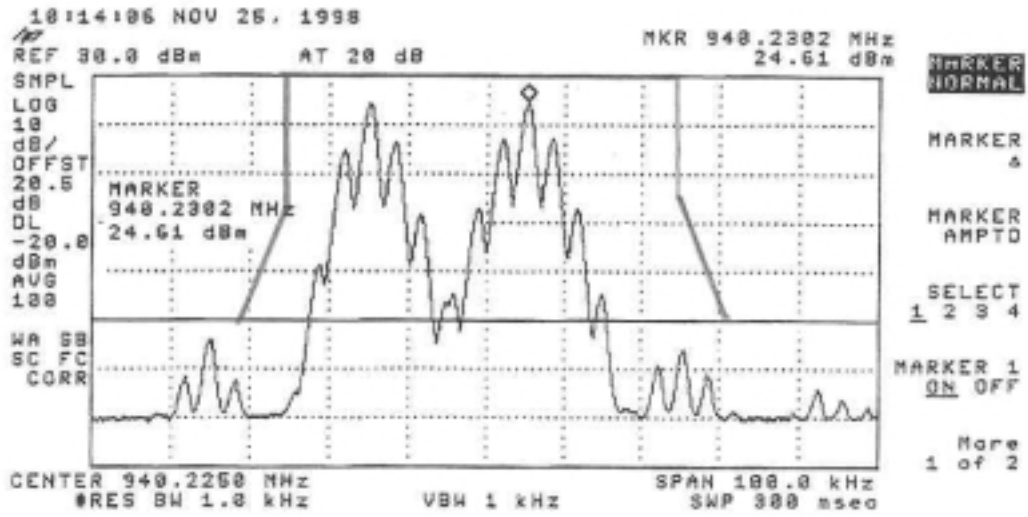
**Figure 3D**  
**Occupied Bandwidth Single Carrier (940.240 MHz)**



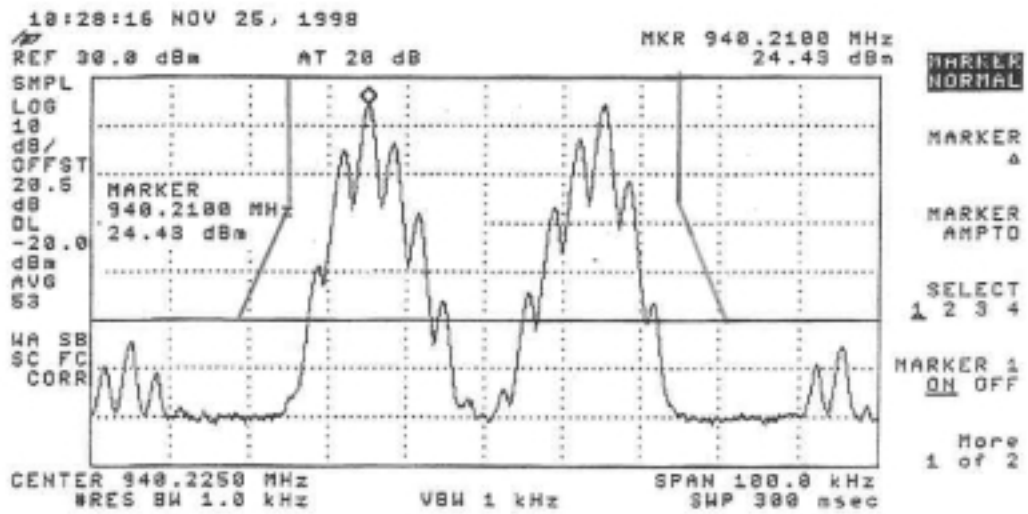
**Figure 3E**  
**Occupied Bandwidth Two Carriers (940.210 & 940.220 MHz)**



**Figure 3F**  
**Occupied Bandwidth Two Carriers (940.210 & 940.230 MHz)**

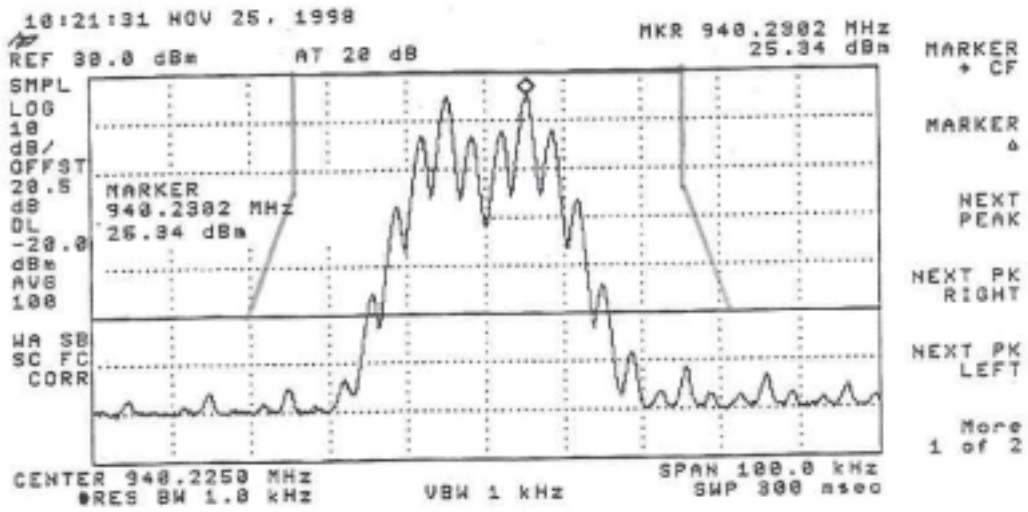


**Figure 3G**  
**Occupied Bandwidth Two Carriers (940.210 & 940.240 MHz)**

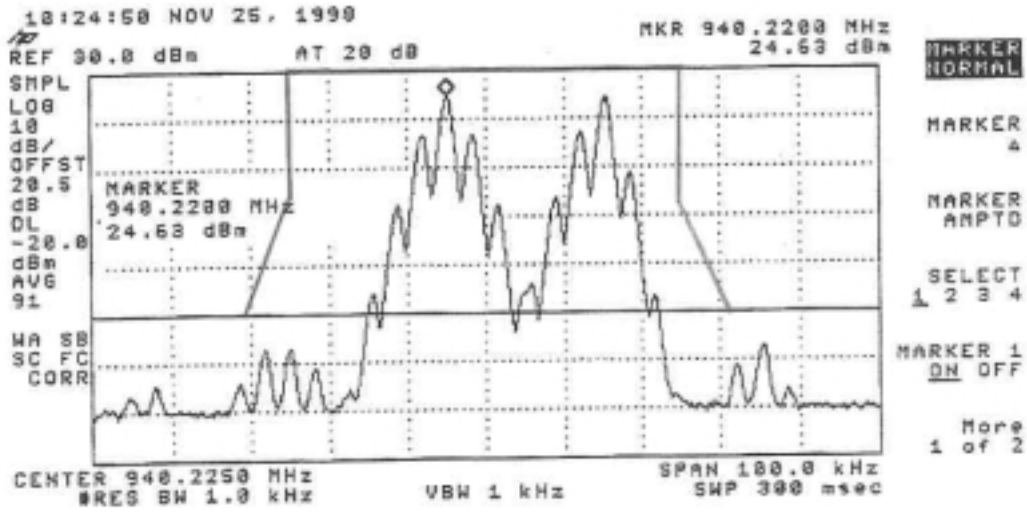




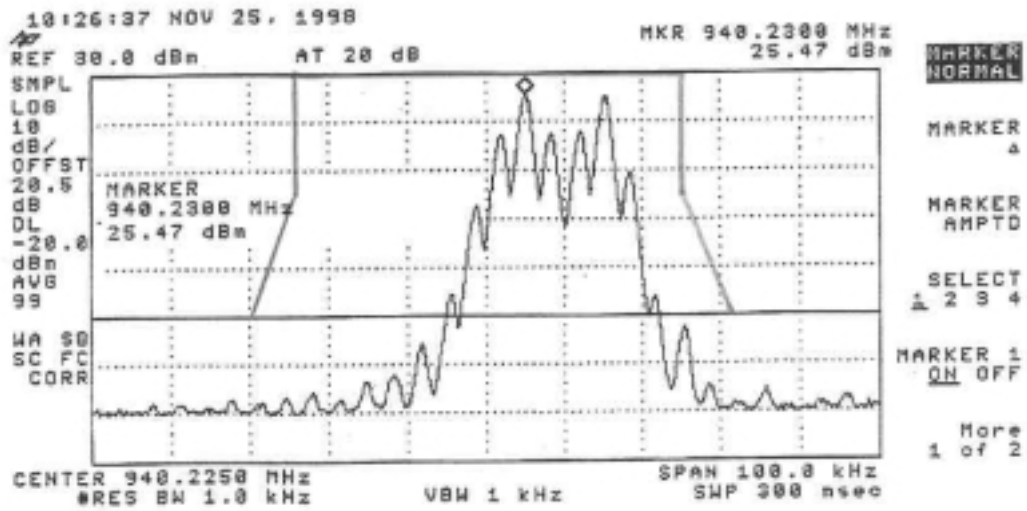
**Figure 3H**  
**Occupied Bandwidth Two Carriers (940.220 & 940.230 MHz)**



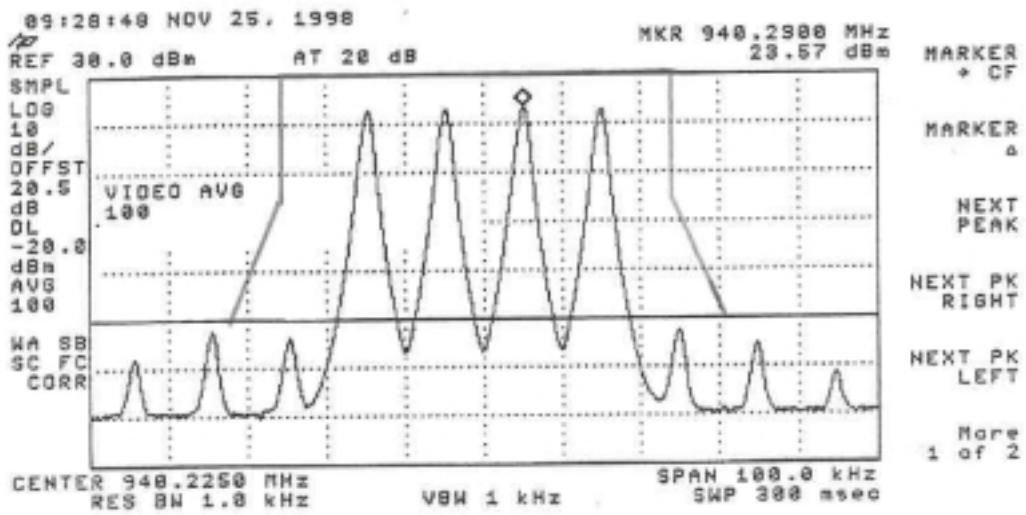
**Figure 31**  
**Occupied Bandwidth Two Carriers (940.220 & 940.240 MHz)**



**Figure 3J**  
**Occupied Bandwidth Two Carriers (940.230 & 940.240 MHz)**



**Figure 3K**  
**Occupied Bandwidth Four Carriers (100 kHz span)**



**Figure 3L**  
**Occupied Bandwidth Four Carriers (200 kHz span)**

