

**SECTION 3**

**OCCUPIED BANDWIDTH**

Per 2.989 (c, 1) the measurements were made per TIA/EIA 603.

**455.000 Mhz 12.5KHz**

SECTION 3 D3, D4 (50 & 150 kHz spans) Page 3 & 4

**SECTION 3****OCCUPIED BANDWIDTH**

Method of Measurement Per 2.989 (c,1) Data on Occupied Bandwidth is presented in the form of a spectrum analyzer plot which illustrates the transmitter sidebands. A plot is taken of the carrier sideband modulated with a 2500 Hz tone at a level 16 dB greater than that required to produce 50 percent modulation. (The spectrum analyzer grid indicates the reference level of the carrier unmodulated in all exhibits.)

SECTION 3 D3 &D4  
Data, Digital Voice

$B_n = 2(B/2) + 2DK$  where

$B = 9600 \text{ Hz}$   
 $D = 1800 \text{ Hz}$   
 $K=1(\text{assumed})$

$$B_n = 13200$$

The above calculation using carson's rule exceeds the 11.25 kHz limit for Authorized bandwidth , Per 90.209 . We have measured the Authorized Bandwidth at he 99% power level and found a bandwidth of 7.7kHz, , this measurment may be found on the Section D4 plot:

Ericsson Inc. is asking for an Emission designator of

$$B_n = 7700$$

7K7F1D,  
7K7F1E

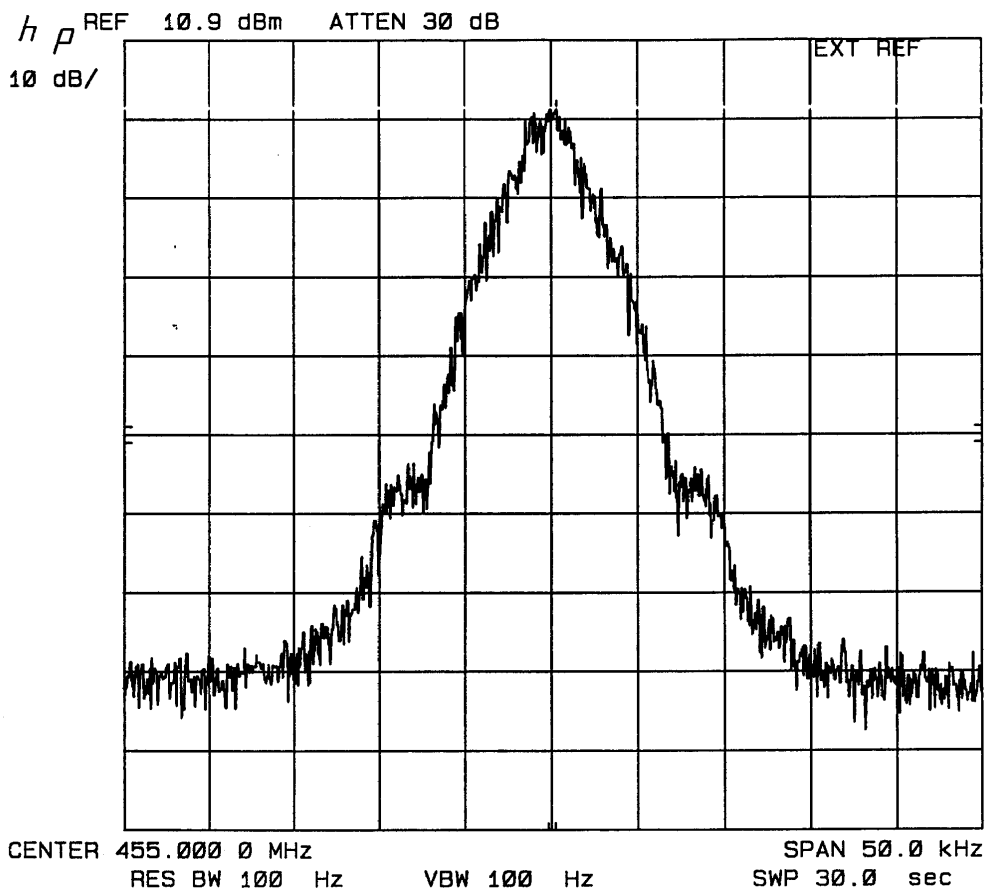
APPLICANT: Ericsson Inc.

EXHIBIT Sec 303

ID NO. AXATR-342-A2

## OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



Referenced to the Unmodulated Carrier  
Modulated with Pseudorandom Data 9600 BPS  
Analyzer: Vertical = 10 dB/Div.

ERICSSON INC.  
OCCUPIED BANDWIDTH  
Modulation Sideband Spectrum  
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