SECTION 3

OCCUPIED BANDWIDTH

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

455.025 Mhz 12.5KHz

SECTION 3 D3,D4 (50 & 150 kHz spans, Voice) 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	$Bn = 2(B/2) + 2DK$ where	B = 9600 Hz
Data, Digital Voice		D = 1800 Hz
		K=1(assumed)

$$Bn=13200$$

The above calulation using carson's rule exceeds the 11.25 kHz limit for Autorized bandwidth , Per 90.209 . We have measured the Autorized Bandwidth at he 99% power level and found a bandwidth of 7.5kHz, , this measurment may be found on the Section D4 plot:

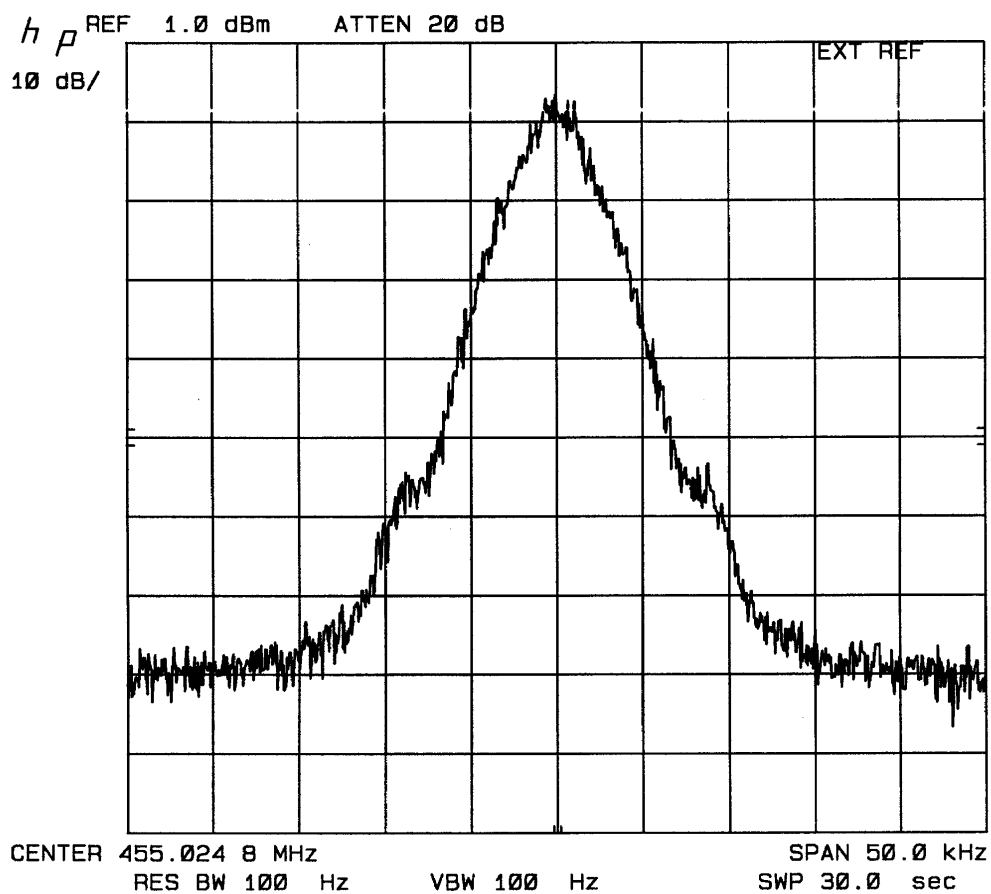Ericsson Inc. is asking for an Emission designator of

$$Bn=7500$$

7K5F1D,
7K5F1E

APPLICANT: Ericsson Inc.

EXHIBIT Sec 3D3
ID NO. AXATR-202-AA5

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum

$h\ p$ REF   1.0 dBm   ATTEN 20 dB

10 dB/

EXT REF

CENTER 455.024 8 MHz   SPAN 50.0 kHz
         RES BW 100   Hz   VBW 100   Hz   SWP 30.0 sec

Referenced to the Unmodulated Carrier
Modulated with Pseudorandom Data 9600 BPS

Analyzer: Vertical = 10 dB/Div.

ERICSSON INC.
OCCUPIED BANDWIDTH
Modulation Sideband Spectrum

ID NO. AXATR-202-A5

A_write&max B_blank

REF -9.9 dBm
10dB/

OBW %
99.0 %

ATT 10 dB

OBW,Fc
7.5 kHz
455.0238 MHz

Reference: Unmodulated Carrier
Modulated with:
Pseudorandom Data 9600 BPS

RBW
100 Hz
VBW
100 Hz
SWP
75 s

CENTER 455.0250 MHz

SPAN 150.0 kHz

EXHIBIT Sec 3D4

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