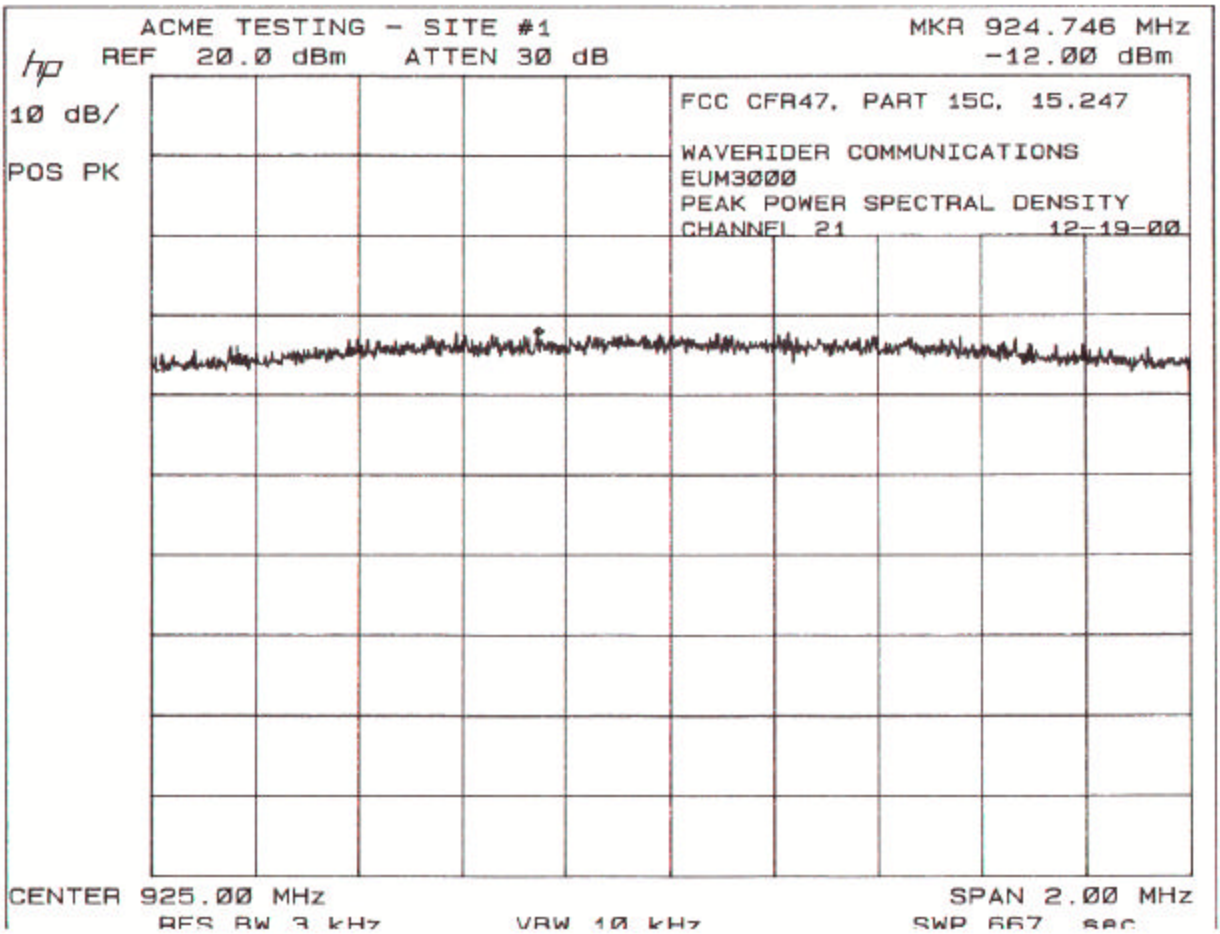

ACME TESTING - SITE #1
MKR 924.746 MHz
REF 20.0 dBm
ATTEN 30 dB
-12.00 dBm
10 dB/
POS PK
FCC CFR47, PART 15C, 15.247
WAVERIDER COMMUNICATIONS
EUM3000
PEAK POWER SPECTRAL DENSITY
CHANNEL 21
12-19-00
CENTER 925.00 MHz
SPAN 2.00 MHz
RES BW 3 kHz
VBW 10 kHz
SWP 667 sec

13. Process gain requirements

13.1 Regulation

The processing gain of a direct sequence system shall be at least 10 dB. The processing gain represents the improvement to the received signal-to-noise ratio, after filtering to the information bandwidth, from the spreading/despreading function. The processing gain may be determined using one of the following methods:

(1) As measured at the demodulated output of the receiver: the ratio in dB of the signal-to-noise ratio with the system spreading code turned off to the signal-to-noise ratio with the system spreading code turned on.

(2) As measured using the CW jamming margin method: a signal generator is stepped in 50 kHz increments across the passband of the system, recording at each point the generator level required to produce the recommended Bit Error Rate (BER). This level is the jammer level. The output power of the intentional radiator is measured at the same point. The jammer to signal ratio (J/S) is then calculated, discarding the worst 20% of the J/S data points. The lowest remaining J/S ratio is used to calculate the processing gain as follows: Gp = (S/N)o + Mj + Lsys, where Gp = processing gain of the system, (S/N)o = signal-to-noise ratio required for the chosen BER, Mj = J/S ratio, and Lsys = system losses. Note that total losses in a system, including intentional radiator and receiver, should be assumed to be no more than 2 dB.

13.2 Result

Please see the process gain measurements in the attachments. The process gain of the product exceeds 10 dB.

14. Labeling Information

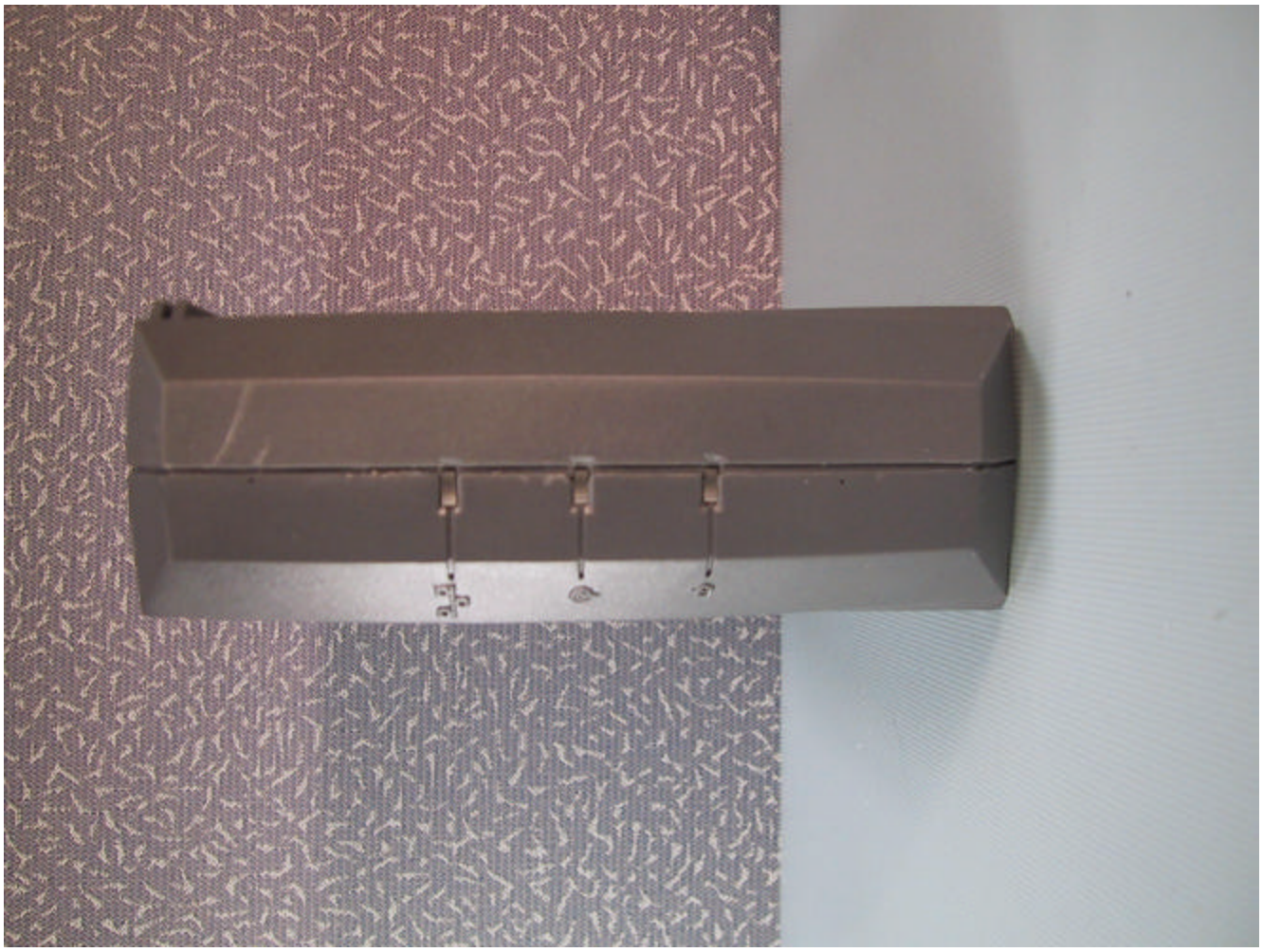
Location

Text


WaveRider
COMMUNICATIONS (CANADA) INC.
MODEL: EUM30000
MFG.: WC044
FCC ID: QOX-LMS30000
CAN:
This device complies with part 15 of the FCC rules.
Operation is subject to the following conditions:
1) This device may not cause harmful interference and
2) This device must accept any interference received, including interference that might cause undesired operation.
FC
0014EP
WWW.WAVERIDER.COM
Made in Canada / Fabriqué au Canada

15. EUT Photos

CHASSIS FRONT VIEW



CHASSIS REAR VIEW

SIDE VIEW - 1