



## **Nortel BWA Type Acceptance Radio Transceiver Test Report Addendum**

<b>Product Description:</b>	28 GHz Base Station (BTR)
<b>Model:</b>	BTR2800
<b>Nortel BWA File #</b>	OHOBTR2807NT

**CHARLIE BISHOP PI ENGINEER**

**DATE JUN 17, 1999**

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WINNIPEG,

## **DECLARATION BY Nortel Networks BWA**

The tests were performed on June 16, 1999 at the Nortel Networks BWA's Laboratory in Winnipeg and is an addendum to the Test Report submitted earlier. This addendum shows compliance for the spectral mask

The following personnel collaborated to this project:

Charlie Bishop, PI Engineer

Testing was performed and supervised by the undersigned. The test supervisor attests to the accuracy of the test data recorded in this report.

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by: Charlie Bishop

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Date June 17, 1999

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Total number of pages: 5

The results presented in this report refer only to the product(s) described in section 1.

All equipment and instrumentation used during this test have been verified and/or calibrated. All calibration certificates are traceable to the National Research Council of Canada (CNRC) and/or to the American National Institute of Standards and Technology (NIST) standards and can be provided on request.

**Nortel BWA is registered ISO 9002:1998, certificate # 766.2.**

## **SPECTRAL MASK TEST**

Tested by: Charlie Bishop  
Date: June 16,1999

### **Test Conditions**

Temperature 25C,  
Primary Voltage -48VDC

### **Minimum Specifications**

As specified in FCC part 101.111(a)(2)(ii) - Complies

### **Test Method**

Nortel processing equipment stimulated the BTR with digitally modulated 16 QAM signal. The modulator output signals are then combined, through a passive combiner, and fed into the input to the BTR. The output is examined directly by a spectrum analyzer and the data trace is compared against the spectrum analyzer limits. The BTR transmits from 29100 to 29250 MHz as shown by the plots following.

No changes were made to the equipment under test. The correct measurement method was used along with the verification of the correct level of modulator stimulus applied

### BTR 2800, 4 carrier QAM 16 modulated - In-band carriers

The emission showing amplitude and angle-modulated (D) with two or more channels (7) which could contain data or telephony (W). The signal has a maximum occupied bandwidth of 40MHz. (40M0). Equipment Type 40M0D7W  
The following pictures show 4 – 10MHz carriers across the minimum, and maximum 150MHz band. The symbol rate is 7.968Mps

