

# **Exhibit 11**

# RF Exposure Information

## Radio Frequency Radiation Exposure Evaluation

Rule Part Number: 1.1307, 1.1310, 2.1091 (per Federal Register 12/10/2004)

**1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.**

TABLE 1—TRANSMITTERS, FACILITIES AND OPERATIONS SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

Service (title 47 CFR rule part)	Evaluation required if—
Wireless Communications Service (Part 27) .....	Non-building-mounted antennas: height above ground level to lowest point of antenna < 10 m and power > 1640 W EIRP. Building-mounted antennas: power > 1640 W EIRP. BRS and EBS licensees are required to attach a label to subscriber transceiver or transverter antennas that: (1) Provide adequate notice regarding potential radiofrequency safety hazards, <i>e.g.</i> , information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) reference the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310.

**1.1310 Radio frequency radiation exposure limits.**

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
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**(A) Limits for Occupational/Controlled Exposures**

1500–100,000 .....	.....	.....	5	6
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**(B) Limits for General Population/Uncontrolled Exposure**

1500–100,000 .....	.....	.....	1.0	30
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f = frequency in MHz

## Radio Frequency Radiation Exposure Evaluation

### § 2.1091 Radio Frequency radiation exposure evaluation: mobile devices.

(a) Requirements of this section are a consequence of Commission responsibilities under the National Environmental Policy Act to evaluate the environmental significance of its actions. See subpart I of part 1 of this chapter, in particular § 1.1307(b).

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily relocated, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

(d) The limits to be used for evaluation are specified in § 1.1310 of this chapter. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/un-controlled exposure. (1) For purposes of analyzing mobile transmitting devices under the occupational/ controlled criteria specified in § 1.1310 of this chapter, time-averaging provisions of the guidelines may be used in conjunction with typical maximum duty factors to determine maximum likely exposure levels. (2) Time-averaging provisions may not be used in determining typical exposure levels for devices intended for use by consumers in general population uncontrolled environments as defined in § 1.1310 of this chapter. However, "source-based" time-averaging based on an inherent property or duty-cycle of a device is allowed. An example of this is the determination of exposure from a device that uses digital technology such as a time-division multiple-access (TDMA) scheme for transmission of a signal. In general, maximum average power levels must be used to determine compliance.

Calculations:           The NextNet Wireless Expedience MSU-2510-A operates at a maximum of 2 watts (33dBm) average power while transmitting in the 2496-2690 MHz band. The MSU-2510-A has a maximum transmit duty cycle of 14.29 % and is based on a TDM frame (see test information at end of this report).

The omni antennas selected for the MSU-2510-A have a maximum gain of 0 dBi. Therefore the maximum radiated transmit power would be:

#### **2496-2690 MHz Band:**

14.29 % Transmit duty cycle:

$$P_{max} = P_{tx}(dBm) + G(\text{antenna}(dBi)) - 10 * \log(\text{duty cycle})(dB)$$

$$P_{max} = 33 + 0 - 10 * \log(0.1429) = 33 + 0 - 8.45$$

$$P_{max} = 24.55 \text{ dBm} = .2851 \text{ Watts EIRP}$$

## Radio Frequency Radiation Exposure Evaluation

Calculations: The following calculations can be used to determine the distance from the transmitting antenna that must be maintained to ensure that the exposure limit as defined in Table 1 of part 1.1310 (B) Limits for General Population/Uncontrolled Exposure. The formula for the following calculations are found in the OET Bulletin 65, edition 97-01 August 1997, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields".

The maximum power level from the previous calculations will be used.

$$S = \text{EIRP}/4\pi R^2$$

or

$$R = (\text{EIRP}/4\pi S)^{0.5}$$

### 2496-2690 MHz Band:

$$S=1 \text{ mW/cm}^2$$

$$R=20 \text{ cm}$$

$$\text{EIRP} = 0.2851 \text{ W}$$

$$\text{EIRP} = 0.2851 \text{ W}$$

$$\text{EIRP} = 285.1 \text{ mW}$$

$$\text{EIRP} = 285.1 \text{ mW}$$

$$S = 1 \text{ mW/cm}^2$$

$$R = 20 \text{ cm}$$

$$R = (285.1/(4*\pi*1))^{0.5}$$

$$S = 285.1/(4*\pi*20^2)$$

$$R = 4.763 \text{ cm}$$

$$S = 0.0567 \text{ mW/cm}^2$$

Calculated safe distance from the transmitting antenna is 4.763 cm for a point source radiation element.

## Radio Frequency Radiation Exposure Evaluation

**Test Procedure:** The NextNet Wireless, Inc. Expedience system operates as a Time Division Duplex (TDD) product with a Time Division Multiplex (TDM) frame structure. The MSU-2510-A Customer Premise Equipment (CPE) is able to transmit a time division duplex (TDD) signal up to a 14.29 % transmit duty cycle. To measure the RF Exposure, the MSU transmitter is enabled in a test mode that transmits random data at the 2 watt power level for the 2496-2690 MHz band into the antenna. Measurements are performed at the low, mid, and high channels of each channel bandwidth, using the maximum transmitter duty cycle. The antenna is secured to the center of a metal plate of 12 inches x 12 inches to simulate the metal from an automobile trunk or roof. Measurement of the MPE is performed by placement of the probe at 20 cm from the antenna. The probe is positioned around the antenna in a spherical fashion to ensure that the maximum MPE reading is measured. The equipment used by NextNet Wireless to verify MPE compliance is the General Microwave Corporation RAHAM Model 3 Isotropic Broadband Electromagnetic Radiation Hazard Meter. The MPE measurement of the NextNet Wireless MSU-2500-A product was performed per IEEE Standard C95.3-2002 for measurements performed at 20 cm from the radiating element.

**Standard:** IEEE Standard C95.3-2002  
IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields  
With Respect to Human Exposure to Such Fields, 100 kHz–300 GHz

**Test Conditions:** Frequencies:  
2499, 2575, 2621 MHz (6 MHz channels)  
2504.75, 2565.25, 2626.75, 2687.25 MHz (5.5 MHz channels)  
Temperature = 25°C  
Supply Voltage = 13.8 Vdc supplied to MSU-2510-A

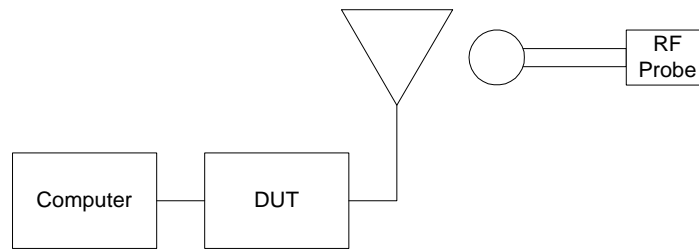
## Radio Frequency Radiation Exposure Evaluation

Test Equipment:

DUT	NextNet Wireless CPE (MSU-2510-A) # 0050-0300-4300924
Computer	Dell Inspiron 5000 Model: PPM S/N: 000832RM-12961-04R-0441
Ethernet Switch	D-Link Model: DSS-5+ 5 port 10/100Mbps S/N: B205335003175
Power Supply	Agilent E3615A S/N: KR01508898 Calibrated with voltmeter listed below.
Voltmeter	HP 34401A S/N: 3146A23291 Calibrated on: 11-17-2004 Cal due: 11-17-2006
Radiation Hazard Meter	General Microwave Corporation RAHAM Model 3 Cal Date: 10-14-2003 Cal Due: 10-14-2005
Antenna1	Maxrad BMMG24000ML195C 0 dBi omni mag mount
Antenna2	Mobilemark IMAG0-2600 0dBi omni mag mount

## Radio Frequency Radiation Exposure Evaluation

Test Set-Up:



Test Results: 2496-2690 MHz Band

14.29 % Duty Cycle

At 20 cm away from the surface of the MSU-2510-A antennas, the highest RF Exposure reading was measured to be  $0.2 \text{ mW/cm}^2$  for the two antennas tested. Including the calibration factor, this value becomes  $0.2 * 1.05 = 0.21 \text{ mW/cm}^2$ .

Test Conclusion: The NextNet Wireless, Inc., Expedience, MSU-2510-A Customer Premise Equipment is below the limits of RF Exposure as detailed in 47CFR1.1310.

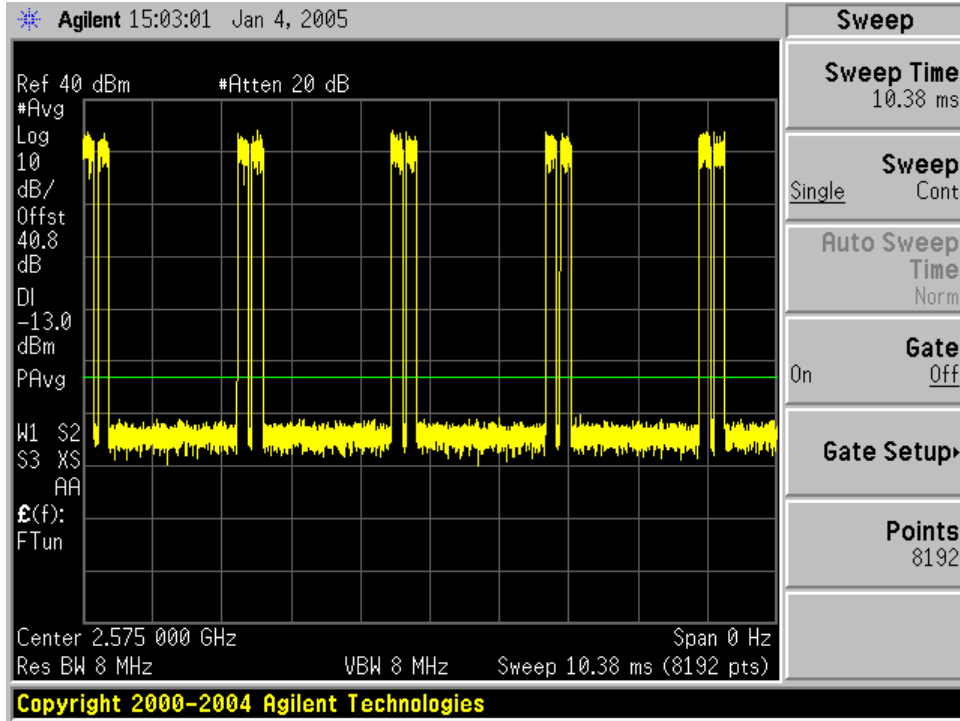
### **The following warning statement is included in the MSU-2510-A operating manual:**

NOTICE: This equipment has been tested and found to comply with the Radio Frequency Radiation Exposure Limits detailed below. A minimum of 20 centimeter (8 inches) separation between the MSU antenna and the operator and all other persons must be maintained.

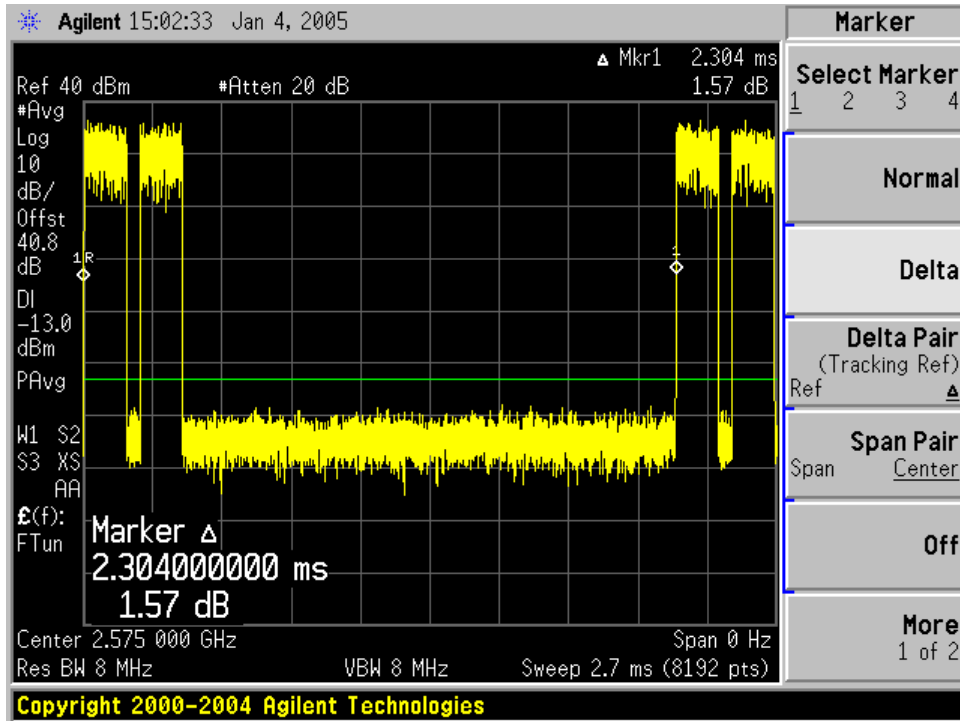
### **The following information is located on the MSU-2510-A product:**

To comply with FCC radio frequency exposure rules, 47CFR1.1307 and 1.1310, a minimum separation of 20 cm (8 inches) is required between this device and all persons.

Verification of the transmit duty cycle is shown below.

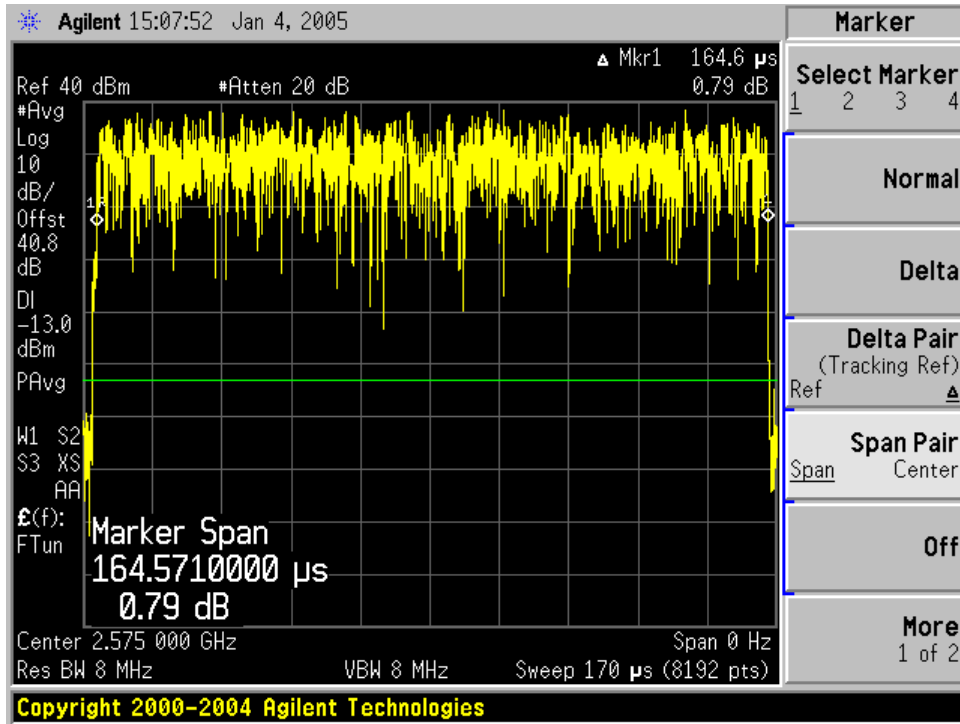


Wide time sweep of transmitter at maximum duty cycle (14.29%)

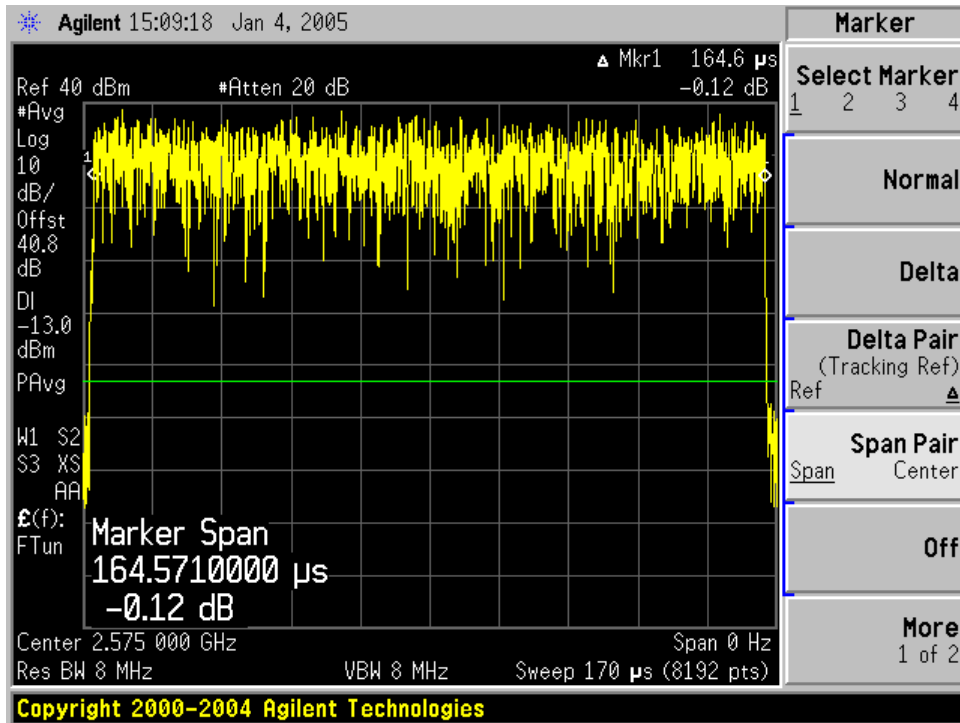


Time measurement between one complete transmit cycle is 2.304 msec.

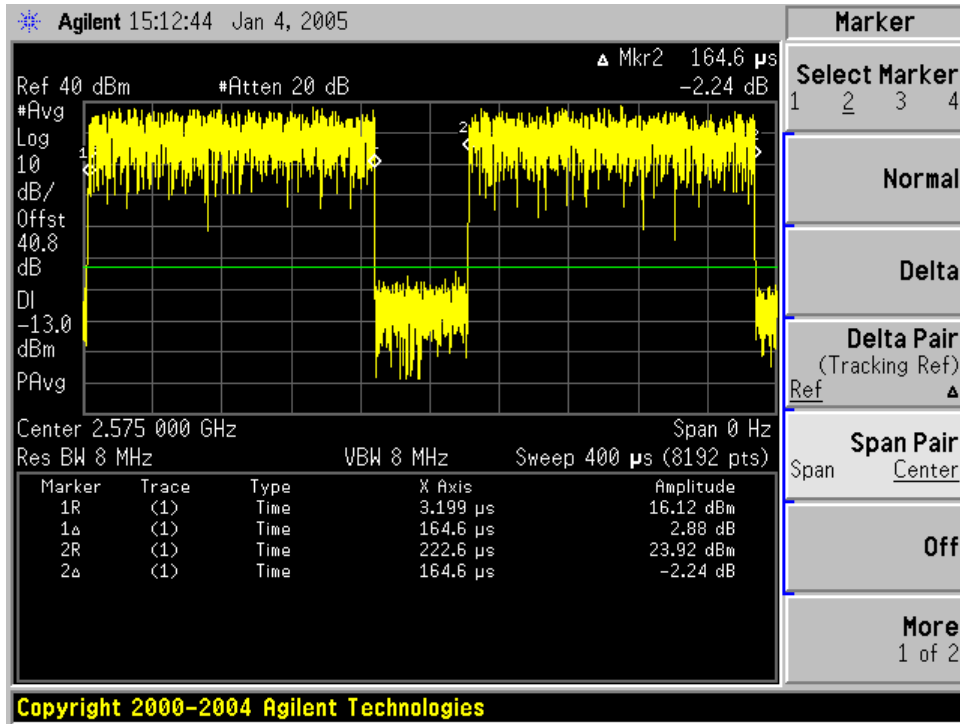




TX pulse number 1 on time = 164.6 usec.



TX pulse number 2 on time = 164.6 usec



TX pulse 1 and 2

Transmit duty cycle = total time transmitting / time between repetition

Transmit duty cycle = (164.6 usec + 164.6 usec) / 2.304 msec

Transmit duty cycle = 329.2 usec / 2.304 msec = .14288 or 14.288 %