

RF Exposure Evaluation

Project Number: 01076-10

Prepared for:

LESTER ELECTRICAL, INC.
625 West A Street
Lincoln, Nebraska 68522-1794

By

Professional Testing (EMI), Inc.
1601 FM 1460, Suite B
Round Rock, Texas 78664

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TYPE CERTIFICATION

LESTER ELECTRICAL, INC.
DATA COLLECTION MODULE

The **Data Collection Module** operates under Part 15 and is classified as a “Mobile Device” by the guidance given in 47 CFR 2.1091 and OET Bulletin 65, which states:

“Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer and transportable cellular telephones (“bag” phones), are considered to be mobile devices if they meet the 20 centimeter separation requirement.”

The **Data Collection Module** meets this description including the requirement that it be used more than 20 centimeters from the user.

“...are subject to routine environmental evaluation for RF exposure use if they operate at frequencies of 1.5 GHz or below and their effective radiated power (ERP) is 1.5 watts or more,...”

The **Data Collection Module** has a typical output power of 0 dBm or 1 mW. The peak, measured power in the fundamental was 90.1 dB (uV/m). Using the formula:

$$P = .3 V^2$$

The measured power is 0.307 mW in the fundamental. An earlier reading of the fundamental, made without a preamplifier measured a result of 93 dB (uV/m), which yields a result of 0.60 mW. This measurement is considered less accurate than the value reported in the test report. However, it is reported here as it give a worst case measurement for this purpose. However, both measurements are clearly well below the requirement. Therefore, a routine environmental evaluation for RF exposure is not required.