COMMUNICATION CERTIFICATION LABORATORY

1940 West Alexander Street Salt Lake City, UT 84119 801-972-6146

Test Report

Certification

TEST OF: 318ALD31V

FCC ID: SU7318ALD31V

To FCC PART 15, Subpart C Section 15.231

Test Report Serial No: 73-8264

Applicant:

Controlled Entry Distributors, Inc.
DBA Community Controls
2500 South 3850 West, Suite A
Salt Lake City, UT 84120

Date of Test: February 10, 2005

Issue Date: February 17, 2006

Accredited Testing Laboratory By:

NVLAP Lab Code 100272-0

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CERTIFICATION OF ENGINEERING REPORT

This report has been prepared by Communication Certification Laboratory to determine compliance of the device described below with the certification requirements of FCC Part 15, Subpart C Section 15.231. This report may be reproduced in full, partial reproduction may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

Applicant: Controlled Entry Distributors, Inc.

DBA Community Controls

- Manufacturer: Lighting Tech Co., LTD

- Trade Name: Community Controls

- Model Number: 318ALD31V

- FCC ID: SU7318ALD31V

On this 17th day of February 2006, I, individually, and for Communication Certification Laboratory, certify that the statements made in this engineering report are true, complete, and correct to the best of my knowledge, and are made in good faith.

Although NVLAP has recognized that the Communication Certification Laboratory EMC testing facilities are in good standing, NVLAP does not endorse the product described in this report.

COMMUNICATION CERTIFICATION LABORATORY

Tested by: Norman P. Hansen

EMC Technician

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SECTION 1.0 CLIENT INFORMATION

1.1 Client Information:

Company Name: Controlled Entry Distributors, Inc.

DBA Community Controls

2500 South 3850 West, Suite A Salt Lake City, UT 84120

Contact Name: Brad Kofford Title: President

1.2 Manufacturer:

Company Name: Lighting Tech Co., LTD

4F, No. 124 Hua Chen Rd.

Hsing Chuang City, Taipei Hsien

Taiwan, R.O.C.

Contact Name: N. J. Duan Title: Sales Manager

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SECTION 2.0 EQUIPMENT UNDER TEST (EUT)

2.1 Identification of EUT:

Trade Name: Community Controls

Model Number: 318ALD31V

Serial Number: None Options Fitted: N/A Country of Manufacture: Taiwan

2.2 Description of EUT:

The 318ALD31V is a one-button transmitter operating at 318 MHz. Encoding is performed by toggling the 9 DIP switches to either the on or off position. The 318ALD31V is for use with automated gates, access control panels, or garage door openers that operate at 318 MHz.

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SECTION 3.0 TEST SPECIFICATION, METHODS & PROCEDURES

3.1 Test Specification:

Title: FCC PART 15, Subpart C (47 CFR 15).

Section 15.231

Periodic operation in the band 40.66-40.70

MHz and above 70 MHz.

Purpose of Test: The tests were performed to demonstrate

Initial compliance.

3.2 Methods & Procedures:

3.2.1 §15.231

- (a) The provision of this section are restricted to periodic operation within the band 40.66-40.70 MHz and above 70 MHz. Except as Shown in paragraph (e) of this section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Radio control of toys is not permitted. Continuous transmissions, such as voice or video, and data transmissions are not permitted. The prohibition against data transmissions does not preclude the use of recognition codes. Those codes are used to identify the sensor that is activated or to identify the particular component as being part of the system. The following conditions shall be met to comply with the provisions for this periodic operation:
- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmission to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and

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safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

(b) In addition to the provisions of §15.205, the field strength of emission from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 - 40.70 | 2,250 | 225 |
| 70 -130 | 1,250 | 125 |
| 130 - 174 | 1,250 to 3,750 ** | 125 to 375 ** |
| 174 - 260 | 3 , 750 | 375 |
| 260 - 470 | 3,750 to 12,500 ** | 375 to 1,250 ** |
| Above 470 | 12,500 | 1,250 |

** Linear interpolations

- (1) the above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.
- (2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provision in §15.35 for averaging pulsed emission and for limiting peak emissions apply. Further, compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.
- (3) The limits on the field strength of the spurious emission in the above table are based on the fundamental frequency of the intentional radiator. Spurious emission shall be attenuated to the average (or, alternatively, CISPR quasipeak) limits shown in this table or to the general limits shown in \$15.209, whichever limit permits a higher field strength.
- (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is

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determined at the points 20 dB down from the modulated carrier.

(d) For devices operating within the frequency band 40.66-40.70 MHz, the bandwidth of the emission shall be confined within the band edges and the frequency tolerance of the carrier shall be $\pm 0.01\%$. This frequency tolerance shall be maintained for a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation on the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided that intentional radiator complies with the provisions of paragraphs (b) through (d) of this section except the field strength table in paragraph (b) of this section is replaced by the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 - 40.70 | 1,000 | 100 |
| 70 -130 | 500 | 50 |
| 130 - 174 | 500 to 1,500 ** | 50 to 150 ** |
| 174 - 260 | 1,500 | 150 |
| 260 - 470 Above 470 | 1,500 to 5,000 ** 5,000 | 150 to 500 ** |

** Linear interpolations

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent periods between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

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3.2.2 §15.207 Conducted Limits

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHZ to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu\text{H}/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | | | |
|-----------------------------|------------------------|-----------------------|--|--|
| | Quasi-peak | Average | | |
| 0.15 - 0.5* | 66 to 56 [*] | 56 to 46 [*] | | |
| 0.5 - 5 | 56 | 46 | | |
| 5 - 30 | 60 | 50 | | |

 st Decreases with the logarithm of the frequency.

3.3 Test Procedure

The line conducted and radiated emissions testing was performed according to the procedures in ANSI C63.4 (2003). Testing was performed at CCL's Wanship open area test site #2, located at 550 West Wanship Road, Wanship, UT. This site has been fully described in a report submitted to the FCC, and was accepted in a letter dated August 11, 2003 (90504).

CCL participates in the National Voluntary Laboratory Accreditation Program (NVLAP) and has been accepted under NVLAP Lab Code:100272-0, which is effective until September 30, 2006.

For radiated emissions testing at 30 MHz or above that is performed at distances closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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SECTION 4.0 OPERATION OF EUT DURING TESTING

4.1 Operating Environment:

Power Supply: 12 volt alkaline battery (Type A23)

4.2 Operating Modes:

The 318ALD31V was tested in three orientations, horizontal flat, horizontal edge, and vertical. The worst-case emissions were with the 318ALD31V button held down so the EUT would constantly transmit and placed horizontally on the EUT table. See Photograph 1 through 3 of Appendix 2.

4.3 EUT Exercise Software:

No software was required.

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SECTION 5.0 SUMMARY OF TEST RESULTS

5.1 FCC PART 15, Subpart C Section 15.231

5.1.1 Summary of Tests:

| Section | Test Performed | Frequency Range (MHz) | Result |
|------------|-----------------------------|-----------------------|-------------------|
| 15.231 (a) | Periodic Operation | 318 | Complied |
| 15.231 (b) | Radiated Emissions | 30 to 3180 | Complied |
| 15.231 (c) | Bandwidth | 318 | Complied |
| 15.231 (d) | Frequency Stability | 40.66 to 40.70 | Not Applicable |
| 15.231 (e) | Radiated Emissions | 30 to 3180 | Not Applicable |
| 15.207 | Line Conducted Emissions | 0.15 to 30 | Not Applicable |
| | (Hot Lead to Ground) | | (Note 1) |
| 15.207 | Line Conducted Emissions | 0.15 to 30 | Not Applicable |
| | (Neutral Lead to Ground) | | (Note 1) |

Note 1: The EUT is battery powered with no provision for connection to the AC mains or a device connected to the AC Mains; therefore, this test is not applicable.

5.2 Result

In the configuration tested, the EUT complied with the requirements of the specification.

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SECTION 6.0 MEASUREMENTS, EXAMINATIONS AND DERIVED RESULTS

6.1 General Comments:

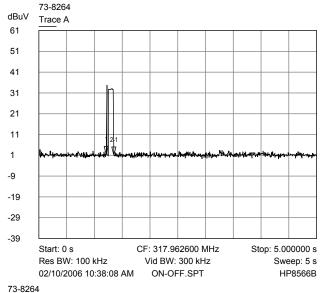
This section contains the test results only. Details of the test methods used and a list of the test equipment used during the measurements can be found in Appendix 1 of this report.

6.2 Test Results:

6.2.1 §15.231(a)

Demonstration of Compliance:

1. A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. The plot below shows the transmitter button depressed to activate the transmitter and then immediately released.



1 1.215000 s ∇ 1.5000 dBuV 2-1 140.000000 ms ∇ -0.4000 dB

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Trace A on to off time - button pressed and immediately released

- 2. The 318ALD31V cannot be automatically activated. The 318ALD31V only transmits if manually activated.
- 3. The 318ALD31V does not transmit at regular predetermined intervals. The 318ALD31V only transmits if manually activated.

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RESULT

In the configuration tested, the EUT complied with the requirements of this section.

6.2.2 §15.231(b) Radiated Emissions

Demonstration of Compliance:

The 318ALD31V operates at 318.0 MHz, therefore; the field strength of the fundamental must be less than 6166.6673 $\mu\text{V/m}$ (75.8 dB $\mu\text{V/m}$) at 3 meters and the field strength of the harmonics must be attenuated 20 dB below the maximum permitted fundamental strength or 55.8 dB $\mu\text{V/m}$ at 3 meters.

The limits for a distance of 3 meters are determined using the formula:

Limit in the 260 - 470 MHz band = 41.6667 (F) - 7083.3333

Where F is the frequency in MHz

Emissions in the restricted bands of §15.205 must meet the limits specified in §15.209.

Measurement Data Fundamental and Harmonic Emissions:

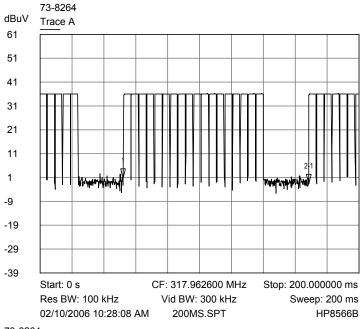
The frequency range from $30~\mathrm{MHz}$ to the tenth harmonic of the highest fundamental frequency was investigated to measure any radiated emissions.

A diagram of the test configuration and test equipment used is enclosed in Appendix 1.

Pulsed Emission Averaging Factor

The 318ALD31V transmitter is a pulsed emission device; therefore, the method of \$15.35 for averaging a pulsed emission may be used. The plot of the pulse train and the average factor calculations are shown below:

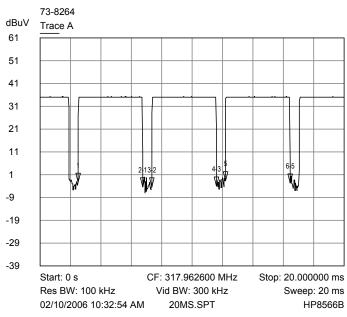
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1 52.200000 ms ∇ 0.7000 dBuV 2-1 116.200000 ms ∇ -2.4000 dB

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Trace A 200 ms pulse train plot



∇ -2.4000 dBuV
 2.1 4.280000 ms
 ∇ -1.9000 dB
 3-2 580.000000 us
 ∇ 0.1000 dB
 4.280000 ms
 ∇ 0.3000 dB
 5 12.180000 ms
 ∇ -1.6000 dBuV
 6-5 4.280000 ms

7 -1.1000 dB

2.480000 ms

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Trace A 20 ms pulse plot

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Average factor calculation

From the above plots, there are 18 pulses at $4.28~\mathrm{ms}$ each for a total on time of $77.04~\mathrm{ms}$. The pulse train is $116.2~\mathrm{ms}$ which is greater than $100~\mathrm{ms}$; therefore, the average factor is calculated over a $100~\mathrm{ms}$ period as specified in \$15.35(c).

The Average Factor is calculated by the equation:

Average Factor = 20 log (on time/pulse train time) = 20 log (77.04 ms/100 ms) = -2.3 dB

The peak measurements were adjusted using $-2.3~\mathrm{dB}$ as the average factor.

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Radiated Interference Level Data - (Vertical Polarity)

| Frequency MHz | Detector | Receiver Reading dB μ V | Average Factor dB | Correction Factor dB | Field Strength dB μ V/m | Limit dB _µ V/m | Delta dB |
|------------------|-------------------------------------|-----------------------------------|-------------------------|----------------------------|-----------------------------------|------------------------------|-------------|
| 318.0 | Peak | 46.8 | -2.3 | 17.0 | 61.5 | 75.8 | -14.3 |
| 636.0 | Peak | 21.0 | -2.3 | 24.5 | 43.2 | 55.8 | -12.6 |
| 954.0 | Peak | 9.6 | -2.3 | 29.0 | 36.3 | 55.8 | -19.5 |
| 1272.0 | Peak | 6.3 | -2.3 | 28.4 | 32.4 | 55.8 | -23.4 |
| 1590.0* | Peak | 8.1 | -2.3 | 30.0 | 35.8 | 54.0 | -18.2 |
| 1908.0 | Peak | 5.9 | -2.3 | 31.2 | 34.8 | 55.8 | -21.0 |
| 2226.0* | Peak | 5.7 | -2.3 | 32.3 | 35.7 | 54.0 | -18.3 |
| 2544.0 | Peak | 5.4 | -2.3 | 33.3 | 36.4 | 55.8 | -19.4 |
| 2862.0* | Peak | 4.6 | -2.3 | 34.2 | 36.5 | 54.0 | -17.5 |
| 3180.0 | Peak | 5.8 | -2.3 | 34.9 | 38.4 | 55.8 | -17.4 |
| * Emissions | * Emissions within restricted bands | | | | | | |

Radiated Interference Level Data - (Horizontal Polarity)

| Frequency MHz | Detector | Receiver Reading dBµV | Average Factor dB | Correction Factor dB | Field Strength dB μ V/m | Limit dB _µ V/m | Delta dB |
|------------------|-------------------------------------|-----------------------------|-------------------------|----------------------------|-----------------------------------|------------------------------|-------------|
| 318.0 | Peak | 51.5 | -2.3 | 17.0 | 66.2 | 75.8 | -9.6 |
| 636.0 | Peak | 27.8 | -2.3 | 24.5 | 50.0 | 55.8 | -5.8 |
| 954.0 | Peak | 10.5 | -2.3 | 29.0 | 37.2 | 55.8 | -18.6 |
| 1272.0 | Peak | 6.6 | -2.3 | 28.4 | 32.7 | 55.8 | -23.1 |
| 1590.0* | Peak | 8.2 | -2.3 | 30.0 | 35.9 | 54.0 | -18.1 |
| 1908.0 | Peak | 6.4 | -2.3 | 31.2 | 35.3 | 55.8 | -20.5 |
| 2226.0* | Peak | 5.9 | -2.3 | 32.3 | 35.9 | 54.0 | -18.1 |
| 2544.0 | Peak | 5.1 | -2.3 | 33.3 | 36.1 | 55.8 | -19.7 |
| 2862.0* | Peak | 4.8 | -2.3 | 34.2 | 36.7 | 54.0 | -17.3 |
| 3180.0 | Peak | 6.1 | -2.3 | 34.9 | 38.7 | 55.8 | -17.1 |
| * Emissions | * Emissions within restricted bands | | | | | | |

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Sample Field Strength Calculation:

The field strength is calculated by adding the Correction Factor (Antenna Factor + Cable Factor) and the Average Factor to the measured level of the receiver. The receiver amplitude reading is compensated for any amplifier gain.

The basic equation with a sample calculation is shown below:

FS = RA + CF + AV Where

FS = Field Strength

RA = Receiver Amplitude Reading

CF = Correction Factor (Antenna Factor + Cable Factor)

AV = Averaging Factor

Assume a receiver reading of $44.2~\text{dB}\mu\text{V}$ is obtained from the receiver, with an average factor of -8.6~dB and a correction factor of 17.5 dB. The field strength is calculated by adding the correction factor and the average factor, giving a field strength of 53.1 dB $_{\mu}\text{V/m}$, FS = 44.2 + 17.5 + (-8.6) = 53.1 dB $_{\mu}\text{V/m}$

RESULT

In the configuration tested, the EUT complied with the requirements of this section.

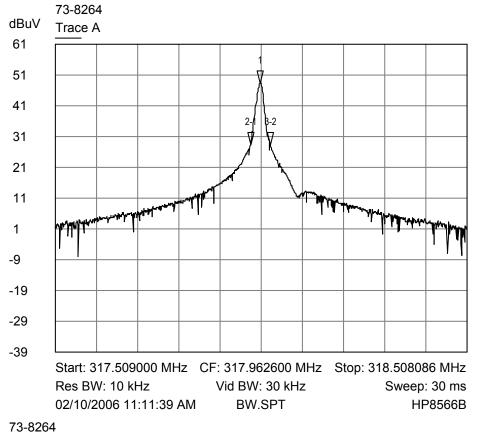
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6.2.3 \$15.231(c) Bandwidth

Demonstration of Compliance:

The bandwidth of the emission must not be wider than 0.25% of the center frequency. The center frequency is 318 MHz, therefore the bandwidth must not be wider than 795 kHz. The 318ALD31V bandwidth was 47.96 kHz, therefore it meets the bandwidth requirements. See spectrum analyzer plot below.

Bandwidth Plot



1 318.006545 MHz ∇ 48.4000 dBuV

²⁻¹ -23.978064 kHz

7 -20.1000 dB

y -20.1000 db

³⁻² 47.956128 kHz

Trace A bandwidth plot

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6.2.4 §15.231(d) Frequency Stability

The EUT does not operate in the frequency band 40.66 to 40.70 MHz; therefore this test is not applicable.

6.2.5 §15.231(e) Reduced Field Strengths

The EUT does not exceed the periodic rate of operation specified in paragraph (a); therefore, this test is not applicable.

6.2.6 §15.207 Line Conducted Emissions

The 318ALD31V is powered from a 12 VDC battery, therefore the line conducted emission tests are not applicable.

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APPENDIX 1 TEST PROCEDURES AND TEST EQUIPMENT

Radiated Interference Emissions:

The radiated emission from the intentional radiator was measured using a spectrum analyzer. The resolution bandwidth was set at 100 kHz and the video bandwidth was set at 300 kHz. For peak emissions above 1000 MHz the spectrum analyzer's resolution bandwidth was set to 1 MHz and the video bandwidth was set to 3 MHz.

A biconilog antenna was used to measure the frequency range of 30 to 1000 MHz and a Double Ridge Guide Horn antenna was used to measure the frequency range 1 GHz to 3.18 GHz, at a distance of 3 meters from the EUT. The readings obtained by these antennas are correlated to the levels obtained with a tuned dipole antenna by adding antenna factors.

The configuration of the intentional radiator was varied to find the maximum radiated emission. The intentional radiator was rotated 360 degrees, and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission. Where there were multiple interface ports all of the same type, cables are either placed on all of the ports or cables added to these ports until the emissions do not increase by more than 2 dB.

Desktop intentional radiator is measured on a non-conducting table 0.8 meter above the ground plane. The table is placed on a turntable which is level with the ground plane. For equipment normally placed on floors, the equipment shall be placed directly on the turntable.

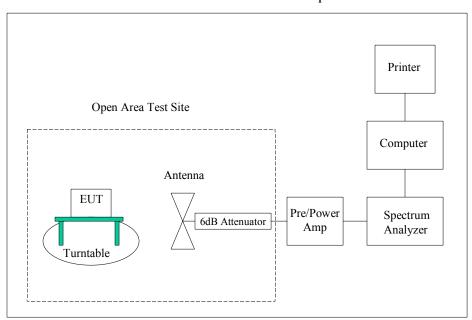
| Type of Equipment | Manufacturer | Model Number | Serial Number | Date of Last Calibration |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------|
| Wanship Open Area Test Site #2 | CCL | N/A | N/A | 10/28/2005 |
| Test Software | CCL | Radiated Emissions | Revision 1.3 | N/A |
| Spectrum Analyzer | Hewlett Packard | 8566B | 2230A01711 | 10/10/2005 |
| Biconilog Antenna | EMCO | 3142 | 9601-1009 | 12/28/2005 |
| Double Ridged Guide Antenna | EMCO | 3115 | 9604-4779 | 05/26/2005 |
| High Frequency Amplifier | Hewlett Packard | 8449B | 3008A00990 | 05/25/2005 |

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| Type of Equipment | Manufacturer | Model Number | Serial Number | Date of Last Calibration |
|--|--------------------|--------------|------------------|-----------------------------|
| 3 Meter Radiated Emissions Cable Wanship Site #2 | CCL | Cable K | N/A | 12/12/2005 |
| Pre/Power- Amplifier | Hewlett Packard | 8447F | 3113A05161 | 09/19/2005 |
| 6 dB Attenuator | Hewlett Packard | 8491A | 32835 | 12/12/2005 |

An independent calibration laboratory or CCL personnel calibrates all the equipment listed above at intervals defined in ANSI C63.4:2003 Section 4.4 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to tractability is on file and is available for examination upon request.

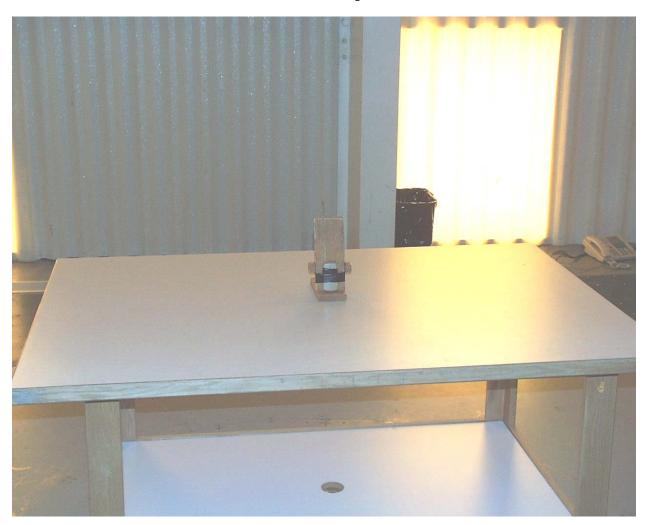
Radiated Emissions Test Setup



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APPENDIX 2 PHOTOGRAPHS

Photograph 1 - View of the Radiated Emission Test Setup (Vertical Alignment)



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Photograph 2 - View of the Radiated Emission Test Setup (Horizontal Face Alignment)



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Photograph 3 - View of the Radiated Emission Test Setup (Horizontal Flat Alignment)



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Photograph 4 - Front View of the EUT



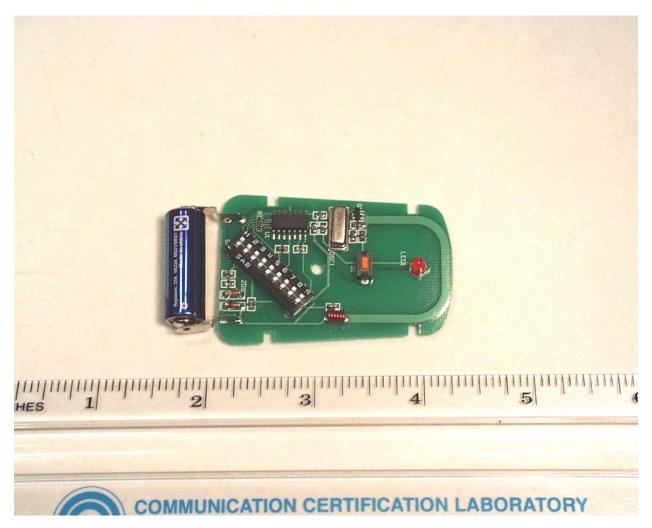
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Photograph 5 - Back View of the EUT



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Photograph 6 - View of the Component Side of the PCB



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Photograph 7 - View of the Trace Side of the PCB

