



**EMC Compliance
Management Group**
670 National Avenue
Mountain View, CA 94043
Tel. (650) 988-0900
Fax (650) 988-6647

Competent Body Approval #: 14082
NVLAP Lab code: 200068-0

EMC TEST REPORT

On Models: 33-1 & 510
Prepared for Trine Products Corporation

According to FCC Part 15 Class B

Test Report #: *TRI-9912-2350-FCC*
Prepared by: *Arcelia Maldonado*
QC Manager: *Michael J. Azar*

DECLARATION OF CONFORMITY

According to FCC Part 15

Responsible Party Name : **Trine Products Corporation**

Address : **1430 Ferris Place**
Bronx, NY 10461-3699 USA

Telephone : **(718) 829-4796**

Declares that product : **Wireless Door Chime**

Model Name : **33-1 & 510**

Complies with Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC rules. Operations is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Date: _____

Phone: _____

Fax: _____

Signature: _____

Test Laboratory:

This is the result of tests, that were carried out from the submitted product sample(s) in conformity with the specification of the respective standards. The certification holder has the right to affix the FCC label on the product complying with the inspection sample.



670 National Ave. Mountain View, CA 94043
650-988-0900 650-988-6647(Fax)



Accreditation #: 200068-0

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ADMINISTRATIVE DATA

Test Sample : Wireless Door Chime

Part Number : N/A

Manufacturer : Smart Hero Enterprise Ltd.

*Applicant : Trine Products Corporation
1430 Ferris Place
Bronx, NY 10461-3699 USA*

Telephone : (718) 829-4796

Fax : (718) 792-9127

EUT Description

Trine Products Corporation models 33-1 & 510 (referred to as the EUT in this report) are a Wireless Door Chime.

Model Differences

1. *Receiver model 33-1 has same circuit as model 510. The difference of these two receivers is the battery, 510 uses 3 x UM-2 batteries while 33-1 uses 3 x UM-1 batteries.*

Test Summary

The Electromagnetic Compatibility requirements on Models 33-1 for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Radiated Emission Tests			
Specifications	Test Results	Test Point	Remark
CFR 47 Part 15 Section 15.109	Receiver (30MHz to 1,000MHz on Quasi-peak) Passed by 0.8 dB of QP	Enclosure	Attachment 1

Test Location

EMC Compliance Management Group is located at 670 National Ave., Mountain View, CA 94043, USA.

Accreditation Bodies

EMC Compliance Management Group is a fully accredited Test Laboratory for ITE, ISM and Telecommunications Products.



Laboratory Assessment #: 14082, Approved by Assessment Services, A U. K. Competent Body, as meeting the requirements of EN45001 and ISO Guide 25.



In compliance with the site registration requirements of Section 2.948 of the FCC Rules to perform EMI measurements for the general public.



Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code # 200068-0.



Registered in accordance with Japanese VCCI Regulations.

Equipment Modification

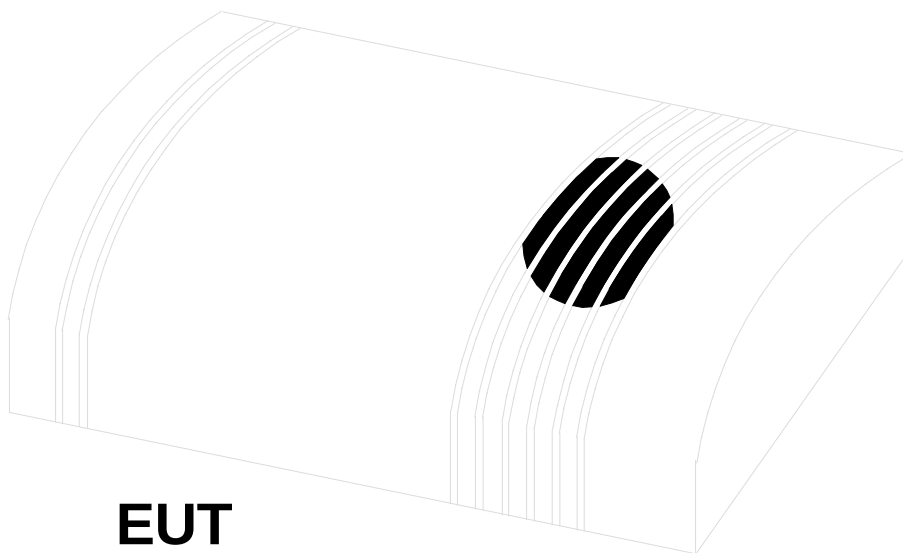
Any modifications installed previous to testing by Trine Products Corporation will be incorporated in each production model sold or leased in United States.

There were no modifications installed by EMC Compliance Management Group.

Test System Details

<i>EUT</i>	
<i>Model Number:</i>	<i>33-1</i>
<i>Description:</i>	<i>Wireless Door Chime</i>
<i>Manufacturer:</i>	<i>Smart Hero Enterprises Ltd.</i>
<i>Support Equipment</i>	
<i>None</i>	

Configuration of Tested System



EUT

ATTACHMENT 1 - RADIATED EMISSION TEST RESULTS (204-R-01)

CLIENT:	Trine Products Corporation	TEST REFERENCE:	FCC Part 15.109
EUT MODEL:	33-1	PRODUCT:	Wireless Door Chime (Receiver)
SERIAL NO.:	N/A	EUT DESIGNATION:	Home Use
TEMPERATURE:	15°C	HUMIDITY:	48%
ATM PRESSURE:	1017 Mbar	GROUNDING:	N/A
TESTED BY:	Robert Li	DATE OF TEST:	2000 Feb 12
SETUP METHOD:	ANSI C63.4:1992, CISPR 16-1:1993		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4:1992 for radiated emissions. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. These peaks are then quasi-peaked from 30 MHz to 1GHz at an Anechoic chamber. The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor is given as follows: FS= RA + AF + CF - AG Where: FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Attenuation Factor AG = Amplifier Gain		
TESTED RANGE:	30MHz to 1,000MHz on Quasi-peak		
TEST VOLTAGE:	4.5VDC		
RESULTS:	Receiver: The EUT meets the requirements of test reference for Radiated Emissions on horizontal polarization by 0.8 dB at 316.0585MHz. The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by EMC Compliance Management Group test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		

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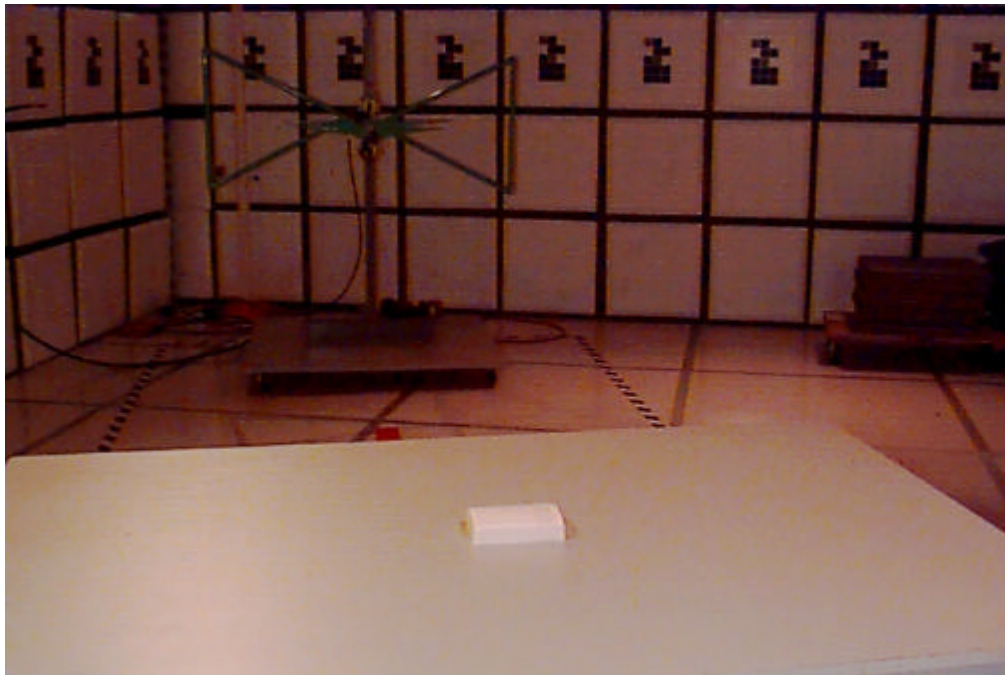
Receiver					
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBμV/m]	Delta, QP [dB]	3Meters Limits [dBμV/m]	Correction Factors [dB/m]
Set-up/Configuration: ANSI C63.4:1992					
316.0585	H	45.2	-0.8	46.0	15.5
902.8305	H	39.9	-6.1	46.0	24.3
902.9425	V	34.4	-11.6	46.0	24.3
316.0585	V	31.9	-14.1	46.0	15.5
Comments: None					
Note: All readings are quasi-peak unless stated otherwise, using a QPA bandwidth of 120kHz, with a 30 ms sweep time. A video filter was not used.					

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due Date
EMI Receiver	HP 85462A	3650A00363	05/21/99	05/21/00
RF Filter	HP 85460A	3704A00349	05/21/99	05/21/00
Antenna	CHASE CBL6112A	2274	11/15/99	11/15/00
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).				

SIGNED: Robert E.

REVIEWED: Michael J.

EUT MODEL: 33-1 (Receiver)



Radiated Emission Test Set-up – Receiver

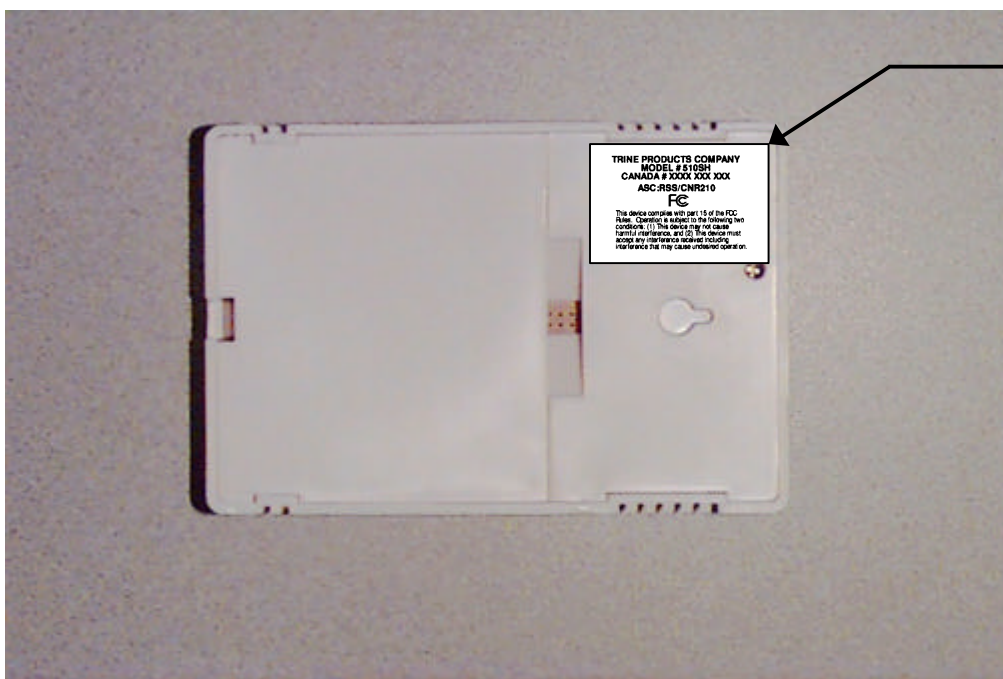


Radiated Emission Test Set-up – Receiver

EUT MODEL: 33-1



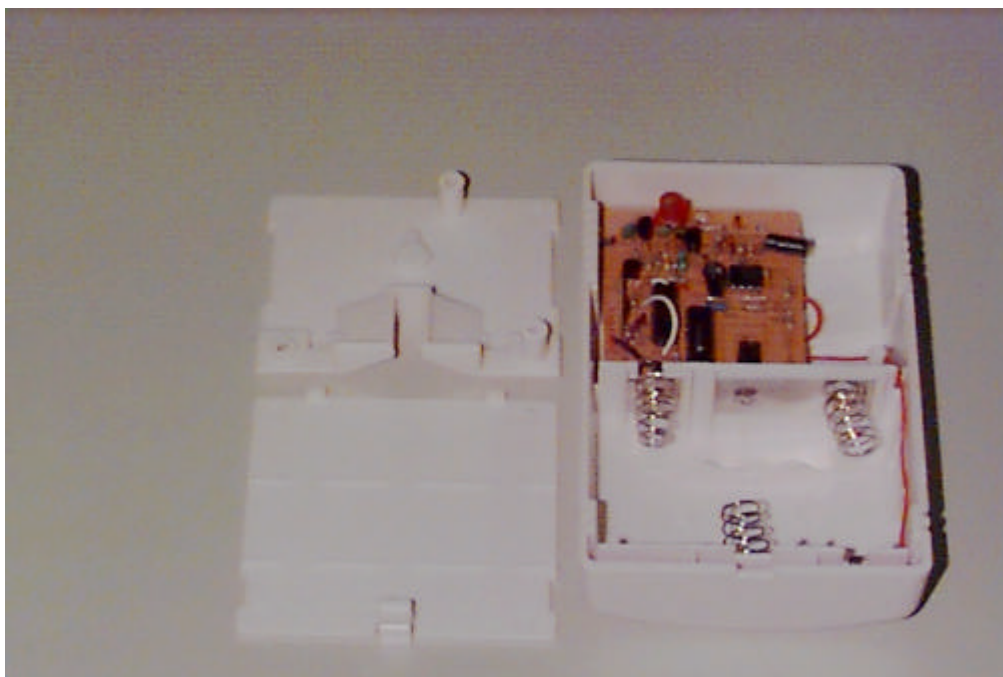
Receiver SAMPLE PHOTOGRAPHS – FRONT VIEW



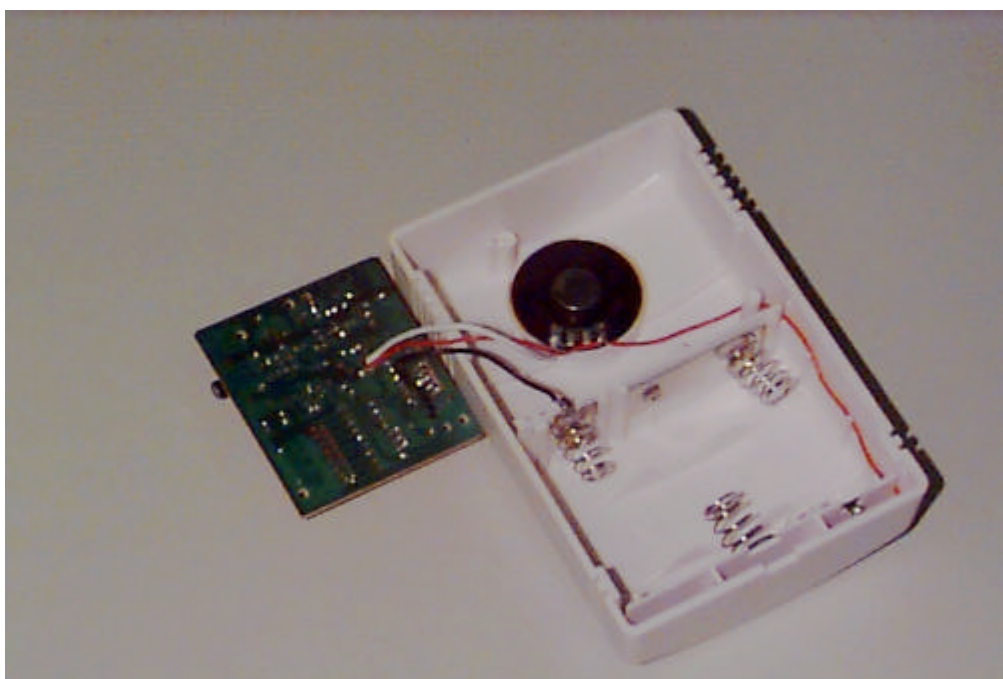
**FCC Label
Location**

Receiver SAMPLE PHOTOGRAPHS – FRONT VIEW

EUT MODEL: 33-1

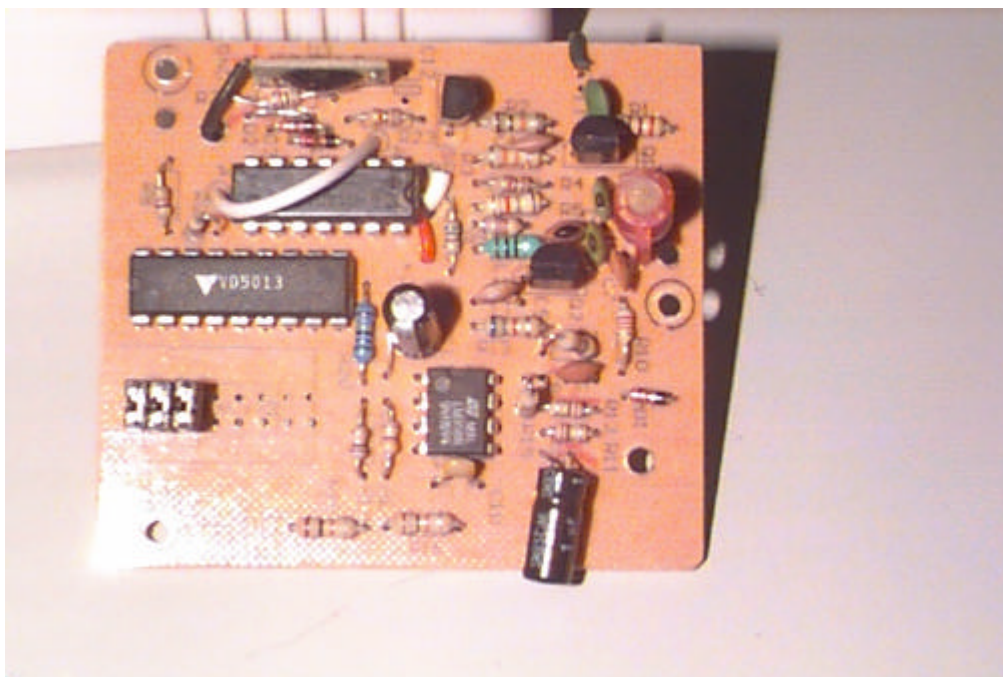


Receiver SAMPLE PHOTOGRAPHS - INSIDE VIEW

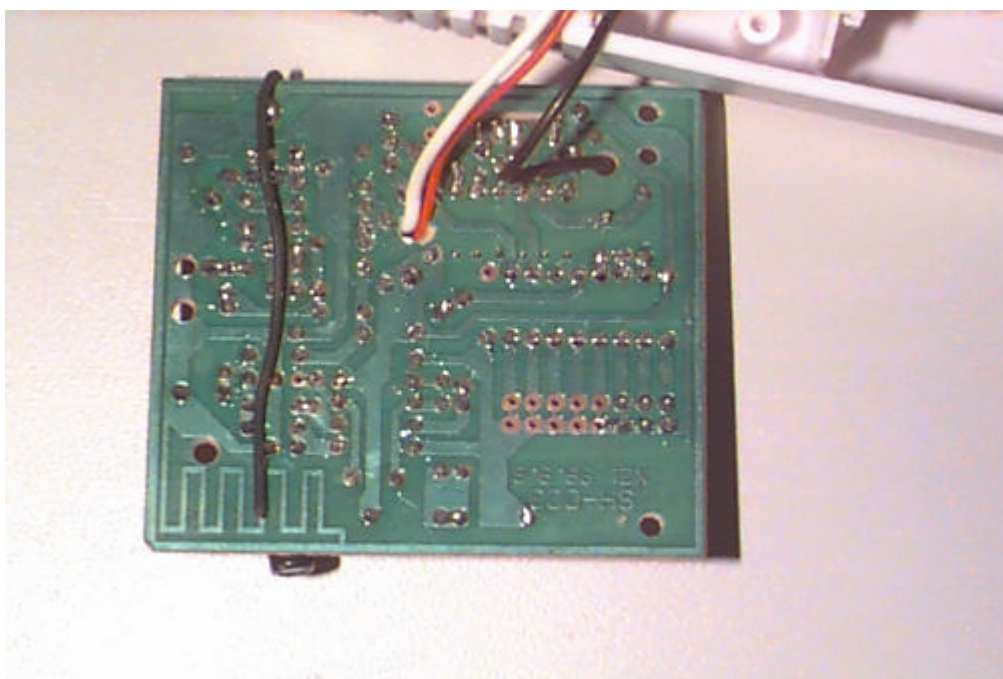


Receiver SAMPLE PHOTOGRAPHS - INSIDE VIEW

EUT MODEL: 33-1



Receiver SAMPLE PHOTOGRAPHS – PCB COMPONENT SIDE VIEW



Receiver SAMPLE PHOTOGRAPHS – PCB SOILDER SIDE VIEW