

Applicant:	MotorGuide
Equipment Under Test: (E.U.T.)	Transmitter M887649
In Accordance With:	FCC Part 15, Subpart C, 15.249 Transmitters
Tested By:	Nemko USA Inc. 802 N. Kealy Lewisville, Texas 75057-3136
Authorized By:	Busin Boyea
	Brian Boyea, Rescource Manager
Date:	26 August, 2005

Nemko Test Report: 5L0314RUS1

FCC PART 15, SUBPART C TRANSMITTERS PROJECT NO.:5L0314RUS1

EQUIPMENT: Transmitter M887649

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FCC PART 15, SUBPART C TRANSMITTERS PROJECT NO.:5L0314RUS1

EQUIPMENT: Transmitter M887649

Section 1.	Summary Of Test Result	S	
Manufacturer:	MotorGuide		
Model No.:	Transmitter M887649		
Serial No.:	None		
General:	All measurements are tracea	ble to n	ational standards.
demonstrating c	re conducted on a sample of ompliance with FCC Part 15.249 cocedure ANSI C63.4-2003. Racte.). All	tests were conducted using
Nev Nev	w Submission		Production Unit
Cla	ss II Permissive Change		Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".

NVLAP

NVLAP LAB CODE: 100426-0

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FCC PART 15, SUBPART C TRANSMITTERS PROJECT NO.:5L0314RUS1

EQUIPMENT: Transmitter M887649

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT		
Conducted Emissions	15.207	Not Applicable		
Radiated Emissions	15.249	Complies		

Footnotes For N/A's: This device is battery powered. Testing was performed using a fully charged battery.

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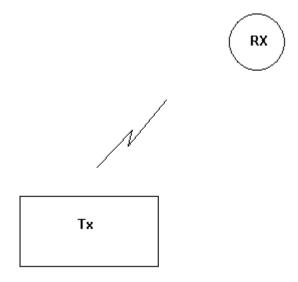
EQUIPMENT: Transmitter M887649

Section 2.	General Equipment Specification				
Frequency Rang	e:	Single			
Operating Freque	ency(ies) of Sample:	915.2 MHz			
Tunable Bands:		N/A			
User Frequency	Adjustment:	Dip Switches			
Integral Antenna		Yes ⊠	No		

Description of Device Tested

Remote control for trolling motor.

System Diagram



FCC PART 15, SUBPART C TRANSMITTERS PROJECT NO.:5L0314RUS1

EQUIPMENT: Transmitter M887649

Section 3. Radiated Emissions

NAME OF TEST: Radiated Emissions PARA. NO.: 15.249

TESTED BY: David Light DATE: 8/19/2005

Minimum Standard: Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dB _µ V)	Harmonic (mV/m)	Harmonic (dBμV)
902-928	50	94	0.5	54
2400-2483.5	50	94	0.5	54

(b) Field strength limits are specified at a distance of 3 metres.

- (c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.
- (d) ...for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Test Results: Complies

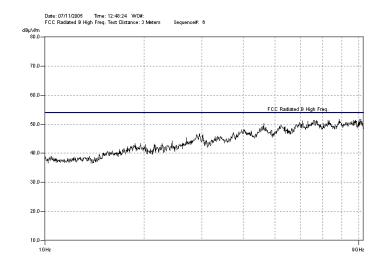
Measurement Data: See attached table.

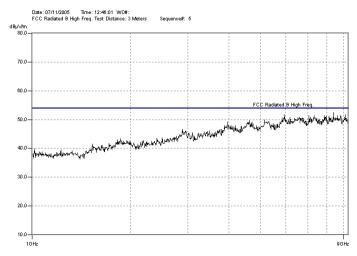
Test Equipment Used: 759-791-1484-1485-1464-1016-1304

Test Equipment Settings: RBW=1 MHz, VBW=1 MHz

Test Data - Radiated Emissions

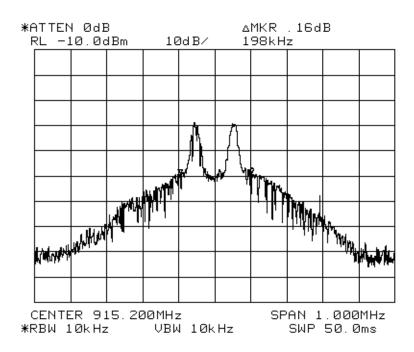
Meas.	Ant.	Atten.	Meter	Antenna	Path	RF	Corrected	Spec.	CR/SL	Pass	
Freq.	Pol.		Reading	Factor	Loss	Gain	Reading	limit	Diff.	Fail	QP readings
(MHz)	(H/V)	(dB)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Unc.	Comment
915.2	Ι	0	84.6	23.5	8.2	24.2	92.1	94.0	-1.9	Pass	
915.2	V	0	78.3	23.5	8.2	24.2	85.8	94.0	-8.2	Pass	





There were no emissions detected above the noise floor. Spectrum was searched from 30 MHz to 9200 MHz.

20 dB Bandwidth



Radiated Photographs



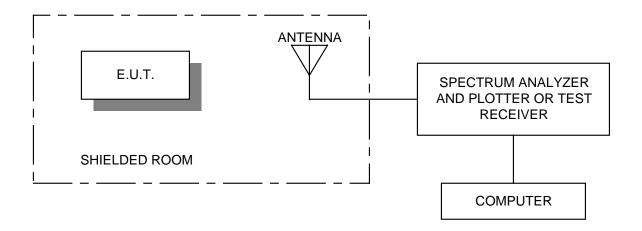
Section 4. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	07/23/04	08/23/05
791	PREAMP, 25dB	ICC LNA25	398	11/12/04	11/12/05
1484	Cable 2.0-18.0 Ghz Storm PR90-010-072		N/A	08/26/04	08/26/05
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/26/04	08/26/05
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/04	11/12/05
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05

Note: Calibration was exended for 30 days on asset 759

ANNEX A TEST DIAGRAMS

Radiated Prescan



Test Site For Radiated Emissions

