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FCC Test Report

Test Result :	PASS*
Date of Issue:	2016-06-03
Date of Test:	2016-06-02 to 2016-06-03
Date of Receipt:	2016-05-30
	Intentional Radiators.(Section 15.227)
Requirement:	CFR 47 FCC PART 15 SUBPART C, 2016
FCC ID :	2AIY3Y161137A
Product Class :	Low Power Communication Device – Transmitter (27.145MHz)
Age Grading:	3+
Country of Destination:	US
Country of Origin:	China
Item No.:	Y161137
Product Description:	RC Scraper and Big Rig
Product Information:	MA 01862 USA.
	North Billerica,
Address:	101 Billerica Ave.,
Application No.: Applicant:	T31620210127EM POTPOURRI GROUP, INC.

* In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature:

TSANG KA TING, Calvin

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system comples with all relevant standards. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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Test Summary 2

Test	Test Requirement	Test Method	Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART C: 2016 ANSI C63.10:2013		N/A ¹⁾
Radiated Emission below 30MHz	FCC PART 15, SUBPART C: 2016	ANSI C63.10:2013	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART C: 2016	ANSI C63.10:2013	PASS
Radiated Emission above 1 GHzFCC PART 15, SUBPART C: 2016ANSI C63.10:2013N/A1)			
Remark :Please refer to section 6.1 & 6.4 of this report for explanation			

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4 General Information

4.1 General Description of EUT

EUT Name: RC Scraper and Big Rig Item No.: Y161137 Serial No.: --

4.2 Details of EUT

Power Supply: Power Cord: Antenna type DC 3V (AA battery x 1)

Integral antenna



Internal irreplaceable antenna 27.145MHz PCM

Operating frequency: Modulation Type:

4.3 Conditions of EUT

The received sample was under good condition.

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, 2016 ANSI C63.10:2013

4.6 Test Location

All tests were performed at: -

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

No tests were sub-contracted.



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC – CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

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4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions None.

4.10 Declaration of Family Grouping

None.

4.11 Abbreviations

N/A: Not Applicable EUT: Equipment Under Test

4.12 Measurement Uncertainty (95% confidence levels, k=2)bbreviations

No.	Item	Measurement Uncertainty
1	Radiated disturbance 9 kHz - 30MHz	4.2
2	Radiated disturbance 30MHz – 1GHz	5.5
3	Radiated disturbance 1GHz – 18GHz	5.5
4	Conducted Emissions	3.1

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5 Equipments Used during Test

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)				
3m / 10m Open Aera Test Site			2015/03/11	2018/03/10
Test Receiver	Rohde & Schwarz	ESCS 30 / 100388	2015/09/29	2016/09/28
Spectrum Analyzer	Rohde & Schwarz	FSP30 /101474	2015/06/12	2016/06/11
Antenna (30-1000 MHz)	Schaffner	CBL6111C / 2791	2014/10/19	2016/10/18
Loop Antenna	Rohde & Schwarz	HFH2-Z2 / 871336/48	2016/01/23	2019/01/22
Coaxial Cable		E167	2015/06/25	2016/06/24
Antenna Mast System	Schwarzbeck	AM9104 / -		
Turntable with Controller	Drehtisch	DT312 / -		

General Use Equipment					
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date	
Digital Multimeter	Fluke	189 / 83640020	2016/04/20	2017/04/19	
Temperature / Humidity meter	-	E159	2015/10/07	2016/10/06	

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6 Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

Test Requirement:	FCC Part15 C
Test Method:	ANSI C63.10
Test Date:	Not Applicable

Remark:

The product is battery operated and this test is not applicable.

6.2 Radiated Emissions below 30MHz

Test Requirement:	FCC Part15 Subpart C Section 15.227 and 15.209
Test Method:	ANSI C63.10
Test Date:	2016-06-03
Frequency Range:	9kHz to 30MHz
Measurement Distance:	3 m
Detector:	Peak for pre-scan (200Hz resolution bandwidth for measurement between 9kHz – 150kHz) (9kHz resolution bandwidth for measurement between 150kHz – 30MHz)
	Peak for final measurement within the operation band Quasi-Peak for final measurement outside the operation band

Limits :

(a) Measurement within operation band :

Average detector: 10000μ V/m (or 80 dB(μ V/m)) at 3 m Peak detector: 100 dB(μ V/m) at 3m

(b) Measurement outside operation band :

	Frequency range	Field strength limits	Measurement distance
	(MHz)	(µV/m)	(m)
	0.009 to 0.490	2400/F(kHz)	300
	0.490 to 1.705	24000/F(kHz)	30
	1.705 to 30.0	30	30
Note:	ote: At transitional frequencies the lower limit applies.		

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6.2.1 EUT Operation

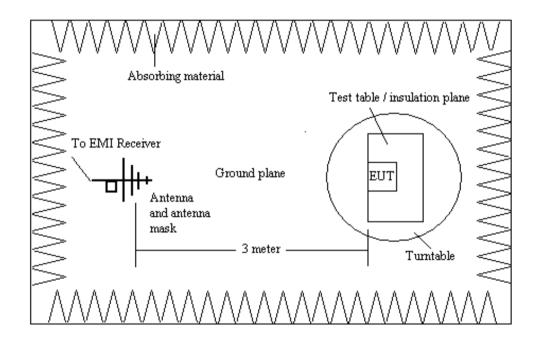
Operating Environment:

Temperature: 25 °C Humidity: 46 %

EUT Operation: Pre-test with Peak detector with the following mode(s): 1. Control for different direction with both control button or single button

> Final test with Peak detector with the following mode(s): 1. Control with up direction of left control button

6.2.2 Test Setup and Procedure



- 1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
- 2. The EUT was operated with new battery. The EUT was placed upon a non-metallic table 0.8m above the floor.
- 3. A loop antenna for the frequency range 9kHz 30MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The center of the loop was 1 m above the floor, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.
- 4. An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes and with the turntable rotated 360°. Final measurement was then performed to record the data for fundamental emission within the operation band and spurious emissions outside the band under worst-case condition for combination of the antenna orientation and turntable position.

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5. Emission at the fundemental frequency for this pulse modulated device was measured with the peak detector function of the test receiver and was properly adjusted for the duty cycle correction factor as pulse desensitization to calculate the average emission value.

6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by loop antenna with 3 orthogonal polarities. Final measurement was conducted in the open area test site with data as follows:

(a) Measurement within operation band :

Frequency (MHz)	Antenna Polarity	<u>Test Results (dBµV/m)</u>		FCC Limit	(dBµV/m)
		<u>Peak</u>	<u>Average</u> *	Peak	<u>Average</u>
27.145	Horizontal	56.39	49.18	100	80
	Vertical	65.59	58.38	100	80

- Note : (1) The above peak value is the maximum value of the measurement in the 3 orthogonal planes
 - (2) * Calculation for radiation (average) :

Formula:

Duty cycle = (N1L1 + N2L2 + ... + Nn-1Ln-1 + NnLn) / 100 or Twhere

N1 is the number of type 1 pulse; L1 is length of type 1 pulse, etc. T is the period of the pulse train (if less than 100ms)

According to the time domain plots shown on the next two pages:

Duty cycle of the EUT = $(0.52 \times 10 + 1.56 \times 6) / 33.4$ = 0.436

Av correction factor = $20 \times \log (0.436) dB$ = - 7.21dB

Radiation (average) = Radiation (peak) + Av correction factor Radiation (average) of the EUT = $56.39 - 7.21 \text{ dB}(\mu\text{V/m}) = 49.18 \text{ dB}(\mu\text{V/m})$ (Horizontal ant.) = $65.59 - 7.21 \text{ dB}(\mu\text{V/m}) = 58.38 \text{ dB}(\mu\text{V/m})$ (Vertical ant.)

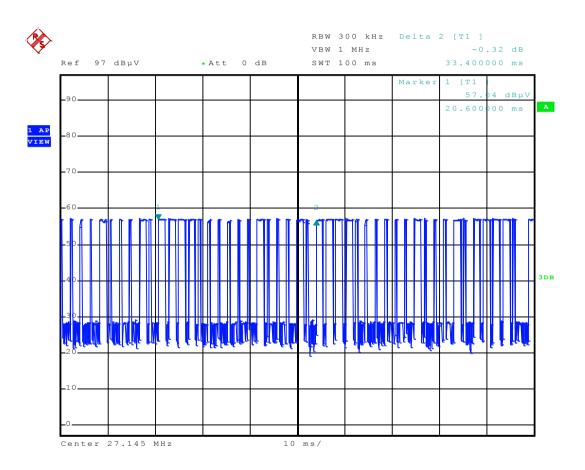
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(b) Measurement outside operation band :

The spurious radiated emissions measured by the loop antenna were negligible (more than 20dB below limit), so the test data were not recorded in the test report.

Time Domain Plots (Fundamental frequency of Transmitter) :



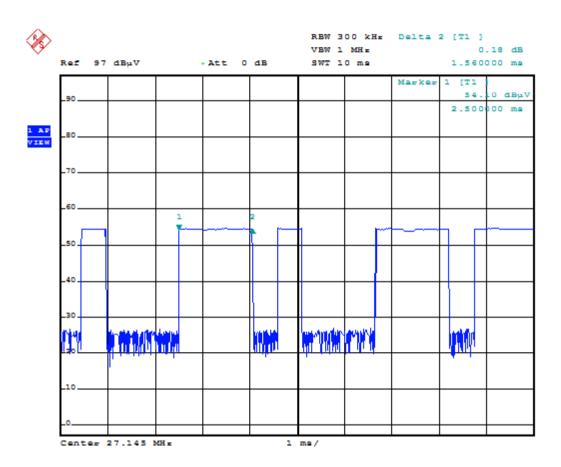
Date: 3.JUN.2016 11:06:50

Pulse cycle period = 33.4 ms

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Time Domain Plots (Fundamental frequency of Transmitter) :

Date: 3.JUN.2016 11:07:59

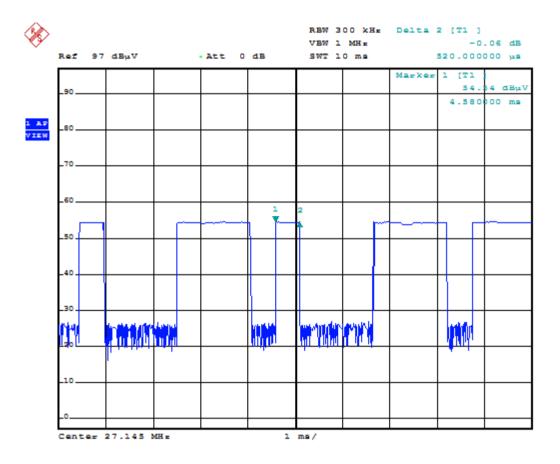
Pulse width = 1.56ms (total no. of pulse: 6)

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Time Domain Plots (Fundamental frequency of Transmitter) :



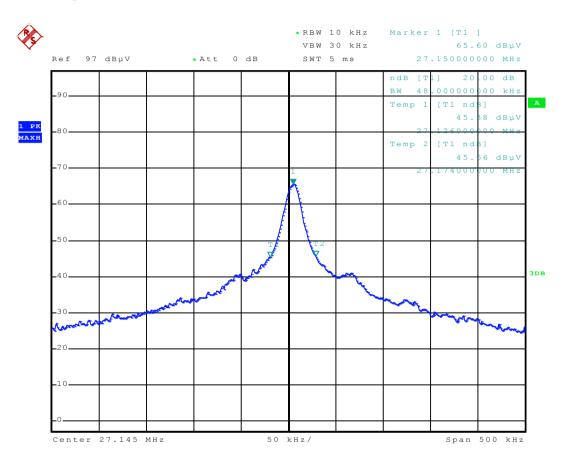
Date: 3.JUN.2016 11:08:23

Pulse width = 0.52ms (total no. of pulse: 10)

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Band Edges Plot:

Date: 3.JUN.2016 11:03:46

The field strength of any emission within the operation band did not exceed 80 dB (μ V/m) for average value or 100 dB (μ V/m) for peak value.

From above plot, at the bandedge, 26.96MHz and 27.28MHz are more than 20dB down from the 27.145MHz carrier which comply to section 15.227(b).Beside, it below the limit of 49.5dB dB(μ V/m) for quasi-peak value under 15.209.

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6.3 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	FCC Part15 Subpart C Section 15.209
Test Method:	ANSI C63.10
Test Date:	2016-06-02
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-peak for final test (120kHz resolution bandwidth)

Frequency range	Quasi-peak limits	
MHz	dB (µV/m)	
30 to 88	40	
88 to 216	43.5	
216 to 960	46	
Above 960	54	
Note: At transitional frequencies the lower limit applies.		

6.3.1 EUT Operation

Operating Environment:

Temperature: 25 °C Humidity: 46 %

EUT Operation: Pre-test with Peak detector with the following mode(s): 1. Control for different direction with both control button or single button

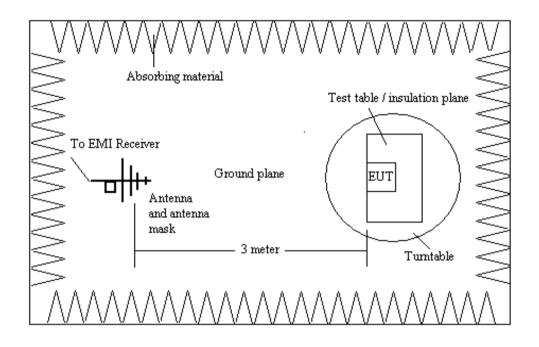
Final test with Quasi-Peak detector with the following mode(s):

1. Control with up direction of left control button



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6.3.2 Test Setup and Procedure



- 1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
- 2. The EUT was operated with new battery. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
- 3. Bilog antenna was used for the frequency range from 30MHz to 1GHz
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
- 5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



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6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on operation with up direction of left control button mode:

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)
33.938	Н	17.8	4.5	22.3	40.0	-17.7
40.625	V	15.2	4.7	19.9	40.0	-20.1
54.301	V	11.1	15.5	26.6	40.0	-13.4
81.438	V	9.1	13.5	22.6	40.0	-17.4
135.751	V	11.7	28.1	39.8	43.5	-3.7
239.813	V	11.5	5.8	17.3	46.0	-28.7

Note:

- 1) All readings are Quasi-Peak values.
- 2) Correction Factor = Antenna Factor + Cable Loss.
- 3) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively and with its antenna fully extended.



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6.4 Radiated Emissions above 1 GHz

Test Requirement:	FCC Part15
Test Method:	ANSI C63.10
Test Date:	Not Applicable

Remark:

There is no need for Radiated Emissions (above 1G) test to be performed on this product in accordance with FCC Part 15: 2013 because the tenth harmonic of the highest fundamental frequency is less than 1 GHz.

For further details, please refer to Subpart A section 15.33 (a) (1)of FCC Part 15 which states:

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Lowest frequency generated in the device	Upper frequency range of measurement		
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower		
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower		
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified		

Frequency range of radiated emission measurements

Remark: Test frequency is 27.145 MHz.

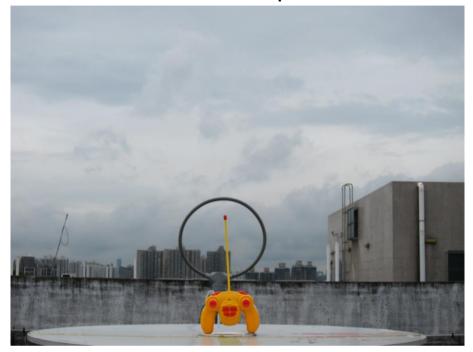
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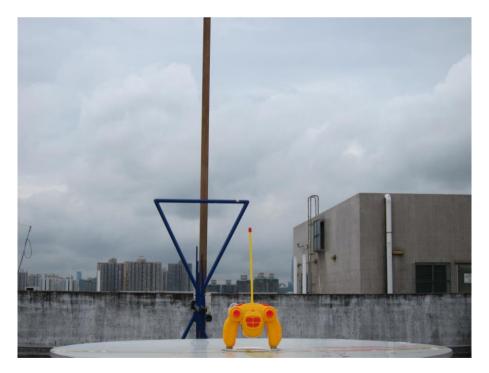


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7 Photographs

7.1 Radiated Emission Test Setup





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7.2 EUT Constructional Details





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