



Test Report

Date : 2019-08-21
No. : HMD19080017

Page 1 of 18

Applicant : RMS International (USA) Inc.
4 Gill Street, STE A Woburn, MA 01801 United States

Supplier / Manufacturer : RMS International (USA) Inc.
4 Gill Street, STE A Woburn, MA 01801 United States

Description of Sample(s) : Submitted sample(s) said to be
Product: X-TREME BEASTS RC
Brand Name: RMS
Model No.: US4-0400/MEN1
FCC ID: 2ATYA27US40400

Date Samples Received : 2019-08-08

Date Tested : 2019-08-09 to 2019-08-20

Investigation Requested : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10: 2013 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : For additional model(s) details, please see page 3.




CHEUNG Chi, Kenneth
Authorized Signatory



Test Report

Date : 2019-08-21
No. : HMD19080017

Page 2 of 18

CONTENT:

Cover	Page 1 of 18
Content	Page 2 of 18
<u>1.0 General Details</u>	
1.1 Equipment Under Test [EUT] Description of EUT operation	Page 3 of 18
1.2 RF Module Details	Page 3 of 18
1.3 Antenna Details	Page 3 of 18
1.4 Date of Order	Page 3 of 18
1.5 Submitted Sample(s)	Page 3 of 18
1.6 Test Duration	Page 3 of 18
1.7 Country of Origin	Page 3 of 18
<u>2.0 Technical Details</u>	
2.1 Investigations Requested	Page 4 of 18
2.2 Test Standards and Results Summary	Page 4 of 18
<u>3.0 Test Results</u>	
3.1 Emission	Page 5-9 of 18
3.2 Bandwidth Measurement	Page 10-11 of 18
<u>Appendix A</u>	
List of Measurement Equipment	Page 12 of 18
<u>Appendix B</u>	
Duty Cycle Correction During 100 msec	Page 13-15 of 18
<u>Appendix C</u>	
Photograph(s) of Product	Page 16-18 of 18

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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 3 of 18

1.0 General Details

1.1 Equipment Under Test [EUT]

Description of Sample(s)

Product:	X-TREME BEASTS RC
Manufacturer:	RMS International (USA) Inc.
Brand Name:	4 Gill Street, STE A Woburn, MA 01801 United States
Model Number:	RMS
Additional Model Number:	US4-0400/MEN1
Rating:	US4-0400/MEN2
	3.0Vd.c. (AA battery*2)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Remote control. Operating at 27.145MHz. Test was conducted under Tx mode.

1.2 RF Module Details

Module Model Number:	TX2
Module FCC ID:	N/A
Modulation:	ASK
Frequency Range:	27.145MHz

1.3 Antenna Details

Antenna Type:	Line antenna
Antenna Gain:	0dBi

1.4 Date of Order

2019-08-08

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2019-08-09 to 2019-08-20

1.7 Country of Origin

China

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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 4 of 18

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10: 2013 for FCC Certification.
The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.227	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 5 of 18

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

Test Requirement:	FCC 47CFR 15.227
Test Method:	ANSI C63.10:2013
Test Date:	2019-08-20
Mode of Operation:	Tx mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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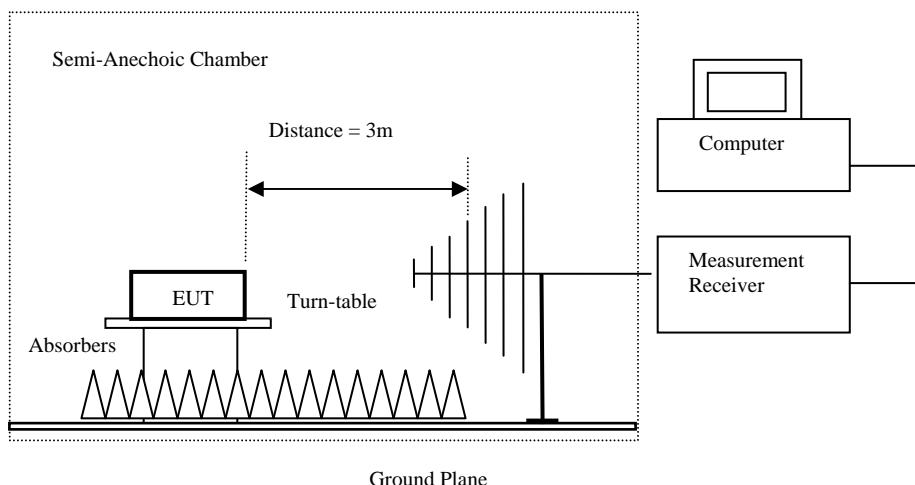
Date : 2019-08-21
No. : HMD19080017

Page 6 of 18

Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: 10kHz
	VBW: 30kHz
	Sweep: Auto
	Span: Fully capture the emissions being measured
	Trace: Max. hold
30MHz – 1GHz (QP)	RBW: 120kHz
	VBW: 120kHz
	Sweep: Auto
	Span: Fully capture the emissions being measured
	Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.



Test Report

Date : 2019-08-21

No. : HMD19080017

Page 7 of 18

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.227]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μ V/m]	Field Strength of Harmonics Emission [Average] [μ V/m]
26.96-27.28	100,000	10,000

Results of Tx mode(30MHz-1GHz): PASS

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
27.15	42.6	18.6	61.2	1,149.5	100,000	Vertical
27.15	31.9	21.1	53.0	445.7	100,000	Horizontal

Field Strength of Fundamental Emissions Average						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
27.15	38.7	18.6	57.3	733.7	10,000	Vertical
27.15	28.0	21.1	49.1	284.4	10,000	Horizontal

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

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Test Report

Date : 2019-08-21

No. : HMD19080017

Page 8 of 18

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of TX mode (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s).

Results of TX mode (30MHz – 1GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m μ V/m	Limit @3m μ V/m
54.3	Horizontal	22.6	40.0	13.5	100
244.4	Horizontal	30.1	46.0	31.8	200
48.0	Vertical	28.6	40.0	26.9	100
54.3	Vertical	28.7	40.0	27.3	100
230.6	Vertical	28.4	46.0	26.2	200
529.9	Vertical	35.8	46.0	61.7	200

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: (9kHz-30MHz): 2.0dB

(30MHz -1GHz): 4.9dB

(1GHz -6GHz): 4.02dB

(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Test Report

Date : 2019-08-21

No. : HMD19080017

Page 9 of 18

3.1.2 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Line antenna. The antenna gain =0dBi. User is unable to remove or changed the Antenna.

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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 10 of 18

3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227
Test Method: ANSI C63.10: 2013 (Section 13.1.7)
Test Date: 2019-08-09
Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Spectrum Analyzer Setting:

RBW: 3kHz
VBW: 10kHz
Sweep: Auto
Trace: Max. hold

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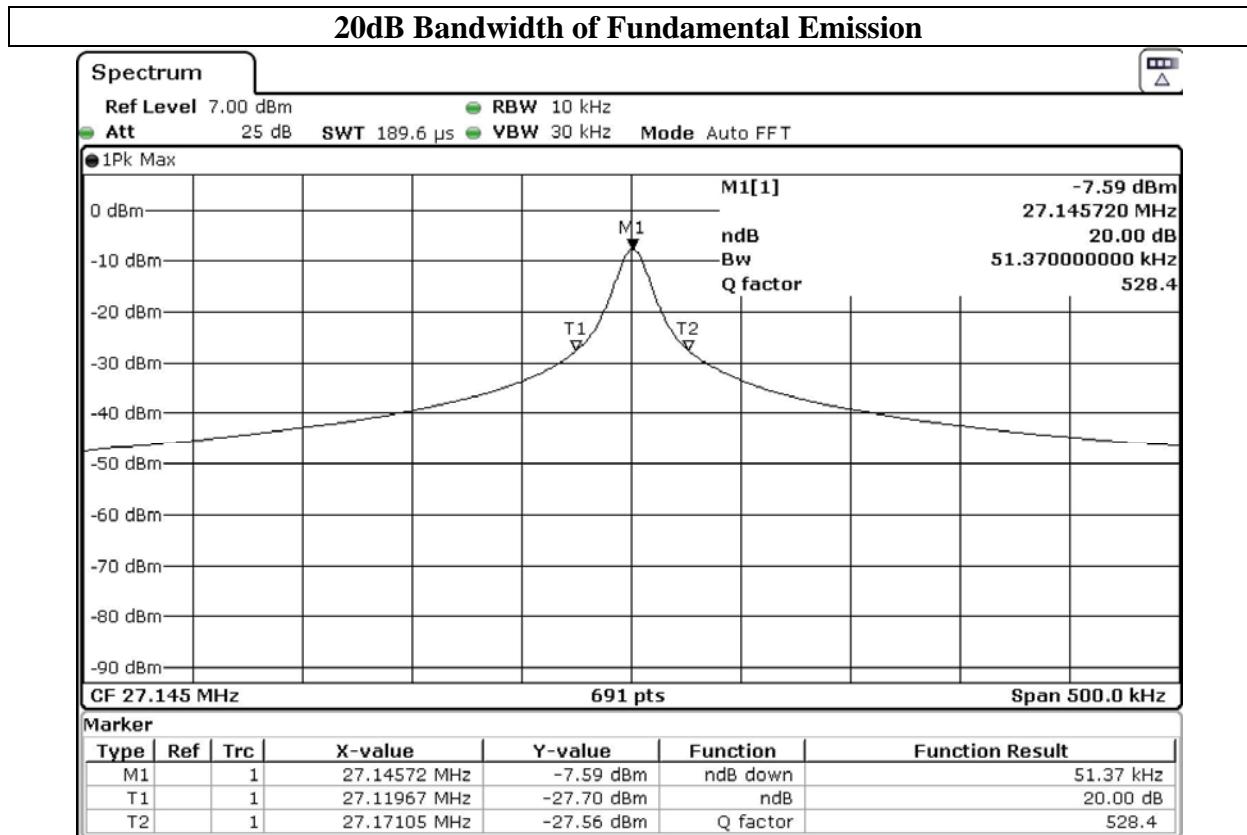
Date : 2019-08-21

No. : HMD19080017

Page 11 of 18

Limits for 20dB Bandwidth of Fundamental Emission:

Fl(MHz)	Fh(MHz)	Permitted frequency range(MHz)	Result
27.120	27.171	26.96-27.28	Compliant



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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 12 of 18

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2018/04/20	2020/04/20
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM355	Biconilog Antenna	ETS-Lindgren	3143B	00094856	2018/05/24	2020/05/24
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2019/06/01	2020/06/01
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2020/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2018/05/13	2020/05/13
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2018/05/11	2020/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2018/05/11	2020/05/11
EM353	LOOP ANTENNA	ETS-LINDGREN	6502	00206533	2018/04/16	2020/04/16
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2018/06/01	2020/06/01

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 13 of 18

Appendix B

Duty Cycle Correction During 100msec

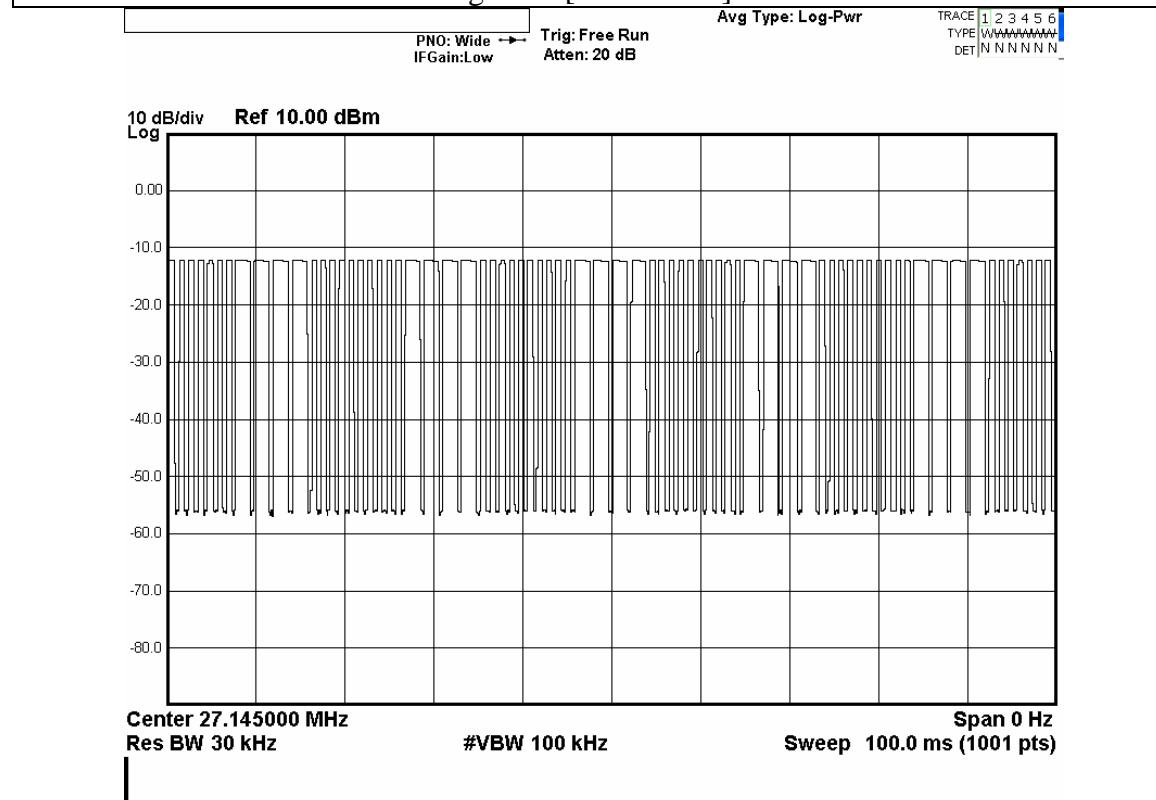
Each packet period (100msec) never exceeds a series of 20 (1.65msec) long and 54 (0.57msec) short pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $(1.65*20+0.57*54)$ msec per 100msec = 63.78% duty cycle. Figure A through C shows the characteristics of the pulses train for one of these functions.

Remarks:

Duty cycle factor = $20\log [(20*1.651\text{ms}+54*0.57\text{ms})/100] = -3.9\text{dB}$

The following figures [Figure A to Figure C] showed the characteristics of the pulse train for one of these functions.

Figure A [Pulse Train]



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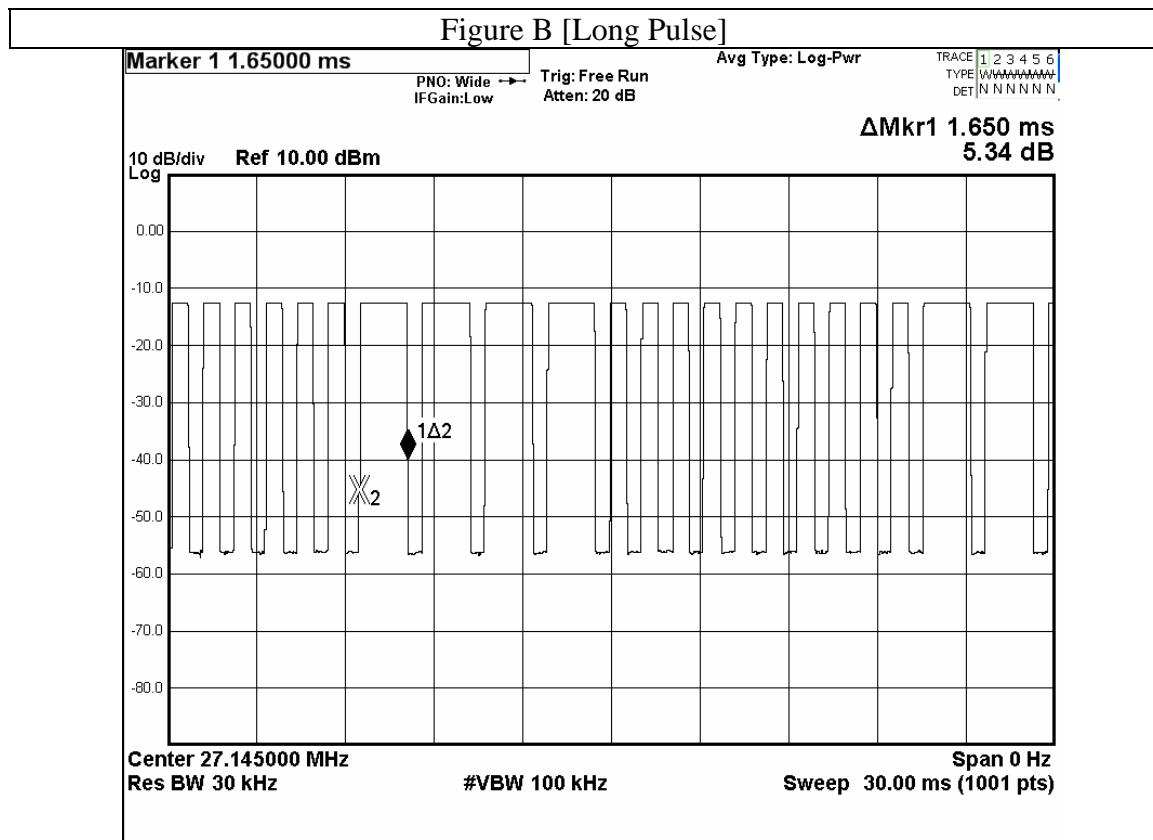
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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 14 of 18



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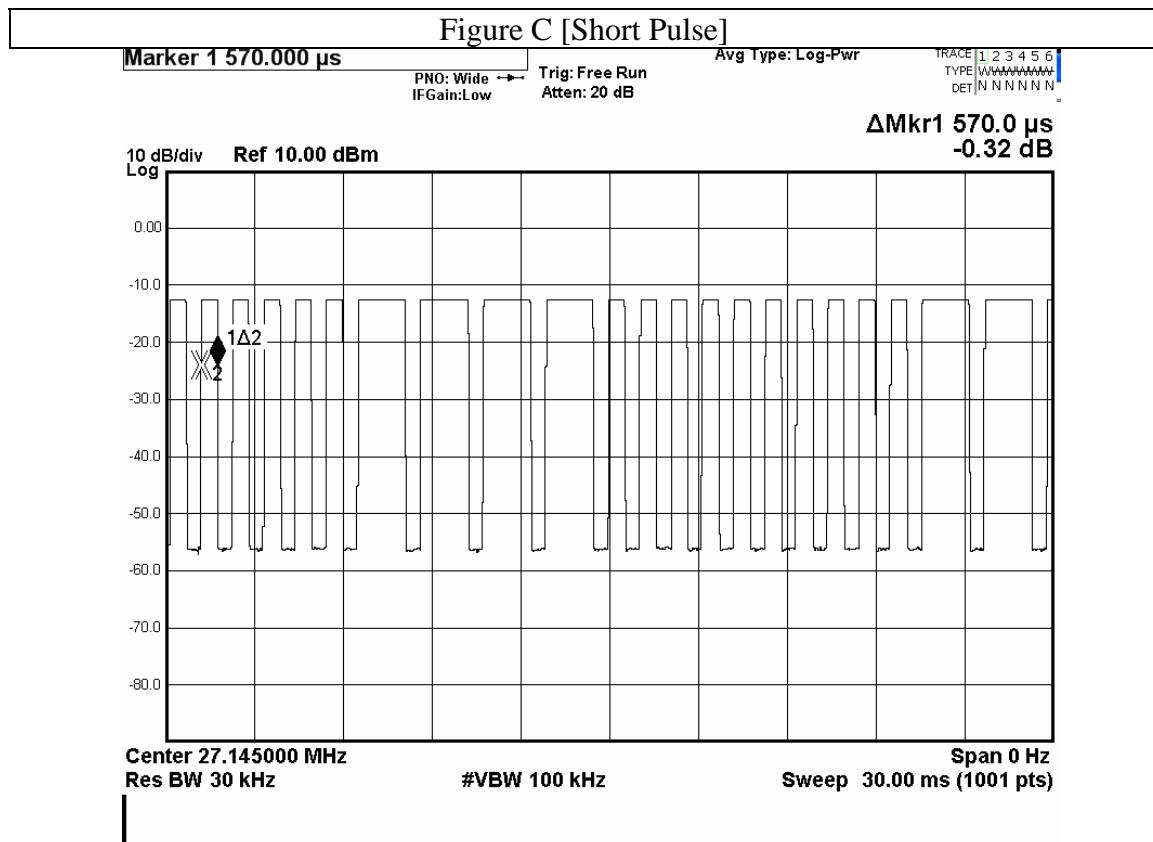
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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 15 of 18



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Test Report

Date : 2019-08-21
No. : HMD19080017

Page 16 of 18

Appendix C

Photographs of EUT

Front View of the product



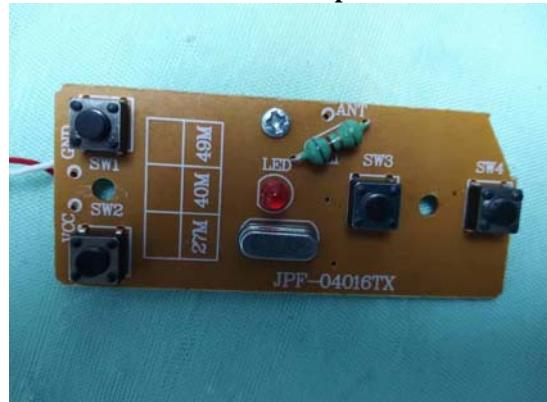
Rear View of the product



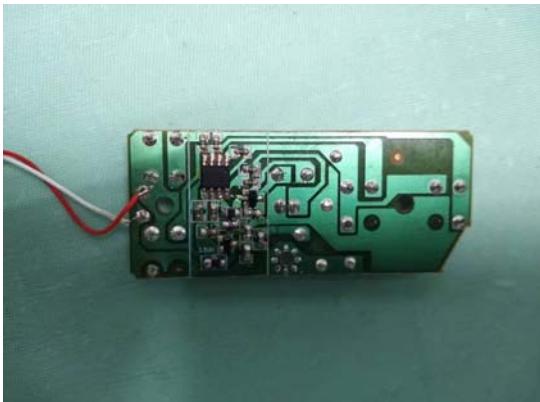
Inside View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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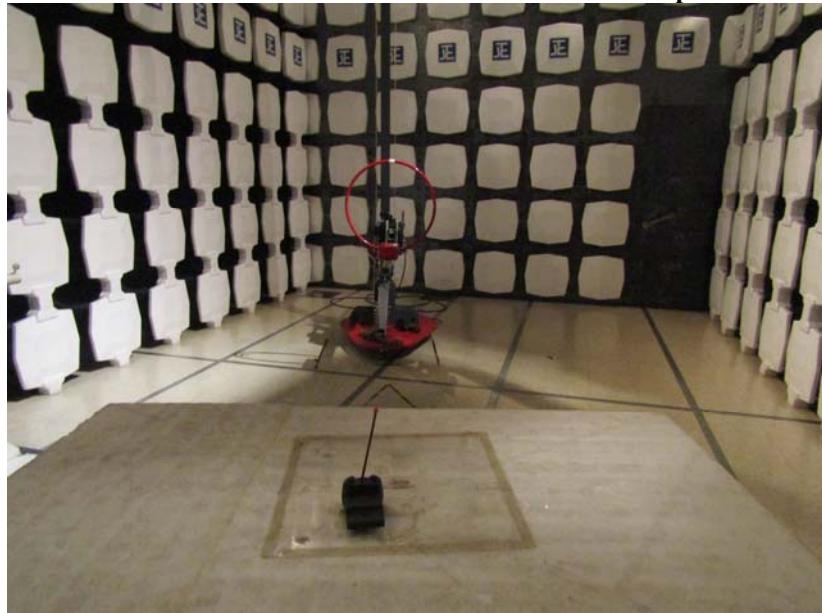
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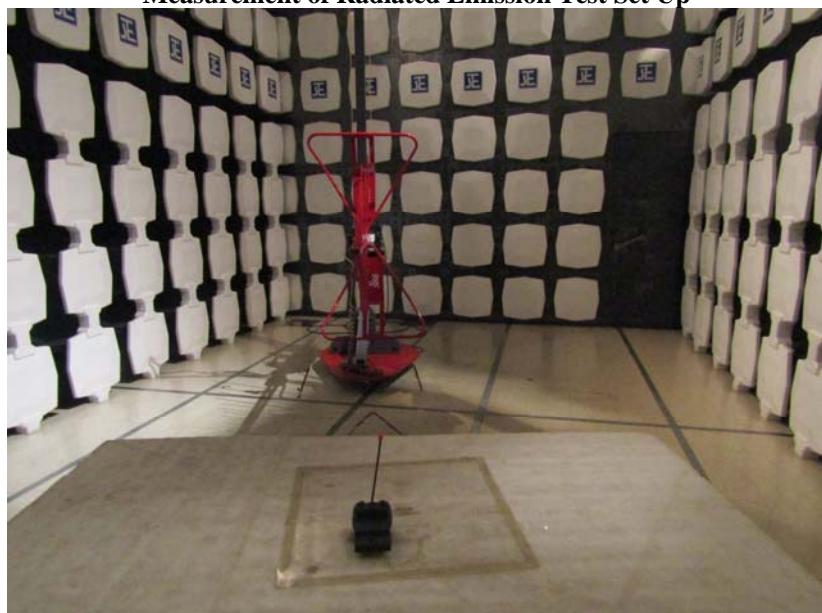
Page 17 of 18

Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



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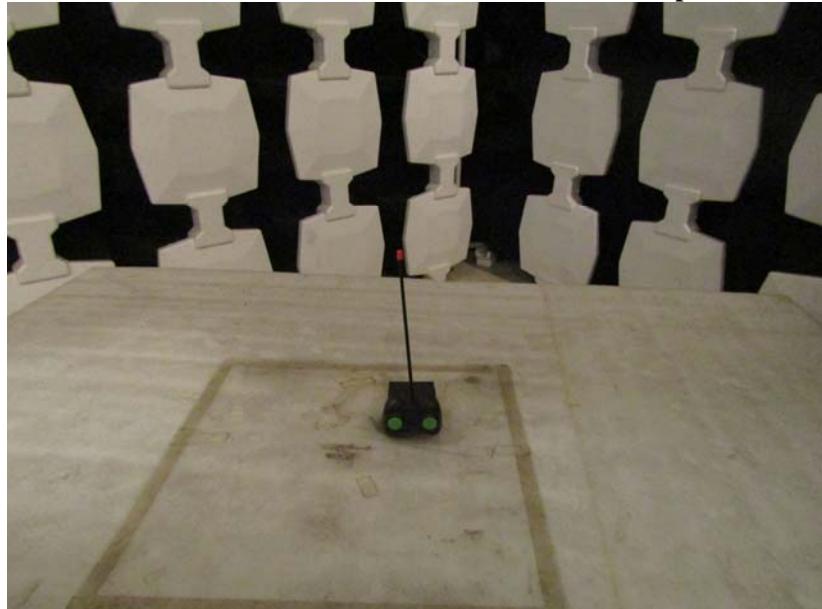
Date : 2019-08-21

No. : HMD19080017

Page 18 of 18

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
7. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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