

EMC TEST REPORT

For

eKids, LLC. / KIDDESIGNS INC.

DISNEY FROZEN II LIGHT AND MUSIC SET

Model No.: FR-300, FR-300.11Mv9M (FR-V165, XX-V165 [XX denotes the brand name])

Prepared for : eKids, LLC. / KIDDESIGNS INC.
Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Prepared By : EMTEK(DONGGUAN) CO., LTD.
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Report Number : ED190717031E
Date of Test : July 17, 2019 to July 29, 2019
Date of Report : July 29, 2019

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TEST REPORT VERIFICATION

Applicant : eKids, LLC. / KIDDESIGNS INC.
Manufacturer : eKids, LLC. / KIDDESIGNS INC.
EUT : DISNEY FROZEN II LIGHT AND MUSIC SET
Model No. : FR-300, FR-300.11Mv9M (FR-V165, XX-V165 [XX denotes the brand name])
Input Rating : DC 4.5V

Measurement Procedure Used:

EN 55015: 2013+A1: 2015
EN 61547: 2009
(IEC 61000-4-2: 2008, IEC 61000-4-3: 2006+A1: 2007+A2: 2010)

The device described above is tested by EMTEK (DONGGUAN) CO., LTD. and EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (DONGGUAN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 55015 and EN 61547 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (DONGGUAN) CO., LTD.



Date of Test : July 17, 2019 to July 29, 2019

Stella Fan

Prepared by : Stella Fan / Editor

Galen Xiao

Reviewer : Galen Xiao / Supervisor

Approved & Authorized Signer :   Sam Lv/Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	ED190717031E

1. DESCRIPTION OF STANDARDS AND RESULTS

EMISSION			
Description of Test Item	Standard	Limits	Results
Radiated Disturbance	EN 55015: 2013+A1: 2015	Table 3b	Pass
Magnetic Field Emission Measurement	EN 55015: 2013+A1: 2015	Table 3a	Pass
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic Discharge (ESD)	IEC 61000-4-2: 2008	B	Pass
RF Field Strength Susceptibility (R/S)	IEC 61000-4-3: 2006+A1: 2007+A2: 2010	A	Pass

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT : DISNEY FROZEN II LIGHT AND MUSIC SET

Model Number : FR-300, FR-300.11Mv9M (FR-V165, XX-V165 [XX denotes the brand name])
(Note: These models are the same except the model name and appearance, so FR-V165 was selected for full testing)

Trade Mark : N/A

Power Supply for Test : DC 4.5V

Operate Mode : ON

Applicant : eKids, LLC. / KIDDESIGNS INC.

Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Manufacturer : eKids, LLC. / KIDDESIGNS INC.

Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Factory : eKids, LLC. / KIDDESIGNS INC.

Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Factory : Inecan

Country of Origin : CHINA

Country of Destination : EU

Date of sample received : July 17, 2019

Date of Test : July 17, 2019 to July 29, 2019

2.2 Test Facility

Site Description EMC Lab.	: Accredited by CNAS, 2018.07.06 The certificate is valid until 2024.07.05 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2006 The Certificate Registration Number is L3150 Registered on Industry Canada, January 13, 2017 The Certificate Number is 9444A
Name of Firm	: EMTEK(DONGGUAN) CO., LTD.
Site Location	: -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Reserch and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China

2.3 Measurement Uncertainty

Test Item	Uncertainty
Radiated Emission Uncertainty (3m Chamber)	: 3.34dB (30M~1GHz Polarize: H) 3.32dB (30M~1GHz Polarize: V)
Magnetic Emission Uncertainty	2.8dB
Uncertainty for R/S Test	: 2.10dB(80MHz-200MHz) 1.76dB(200MHz-1000MHz)
Uncertainty for test site temperature and humidity	: 0.6℃ 4%

2.4 Description of Support Device

N/A

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1 For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	101415	May 24, 2019	1 Year
2.	Bilog Antenna	Schwarzbeck	VULB9163	9163-143	May 19, 2019	1 Year
3.	Power Amplifier	HP	8447F	EED184	May 24, 2019	1 Year
4.	Cable	N/A	CBL-26	N/A	May 24, 2019	1 Year
5.	Cable	N/A	CBL-26	N/A	May 24, 2019	1 Year
6.	Cable	N/A	CBL-26	N/A	May 24, 2019	1 Year
7.	Signal Analyzer	R&S	FSV30	103040	May 24, 2019	1 Year
8.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1272	May 20, 2019	1 Year
9.	Power Amplifier	LUNAR EM	LNA1G18-40	J10100000081	May 24, 2019	1 Year
10.	Cable	H+S	RG 233/U	525178	May 24, 2019	1 Year
11.	Cable	H+S	RG 233/U	528948 WP	May 24, 2019	1 Year
12.	Cable	H+S	RG 233/U	525179	May 24, 2019	1 Year

3.2 For Magnetic Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	101414	21 May, 2019	1 Year
2.	Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	21 May, 2019	1 Year
3.	Cable	H+B	NmSm-2-C15201	N/A	21 May, 2019	1 Year
4.	Cable	H+B	NmNm-7-C15702	N/A	21 May, 2019	1 Year

3.3 For Electrostatic Discharge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	TESEQ	NSG437	409	May 24, 2019	1 Year

3.4 For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	Agilent	N5181A	MY50145187	May 19, 2019	1 Year
2.	RF Power Meter.	BOONTON	4232A	10539	May 19, 2019	1 Year
3.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	May 19, 2019	1 Year
4.	Field Strength Meter	DARE	RSS1006A	10I00037SO22	May 20, 2019	1 Year
5.	50ohm Diode Power Sensor	BOONTON	51011EMC	36164	May 19, 2019	1 Year
6.	Power Amplifier	MILMEGA	80RF1000-175	1059345	May 20, 2019	1 Year
7.	Power Amplifier	MILMEGA	AS0102-55	1018770	May 19, 2019	1 Year
8.	Power Amplifier	MILMEGA	AS1860-50	1059346	May 19, 2019	1 Year
9.	Log.-Per. Antenna	Schwarzbeck	VULP 9118E	811	May 20, 2019	1 Year
10	Broad-Band Horn Antenna	Schwarzbeck	STLP 9149	9149-227	May 20, 2019	1 Year
11	Multi-function interface system	DARE	CTR1009B	12I00250SNO72	N/A	N/A
12	Automatic switch group	DARE	RSW1004A	N/A	N/A	N/A

4. RADIATED EMISSION MEASUREMENT

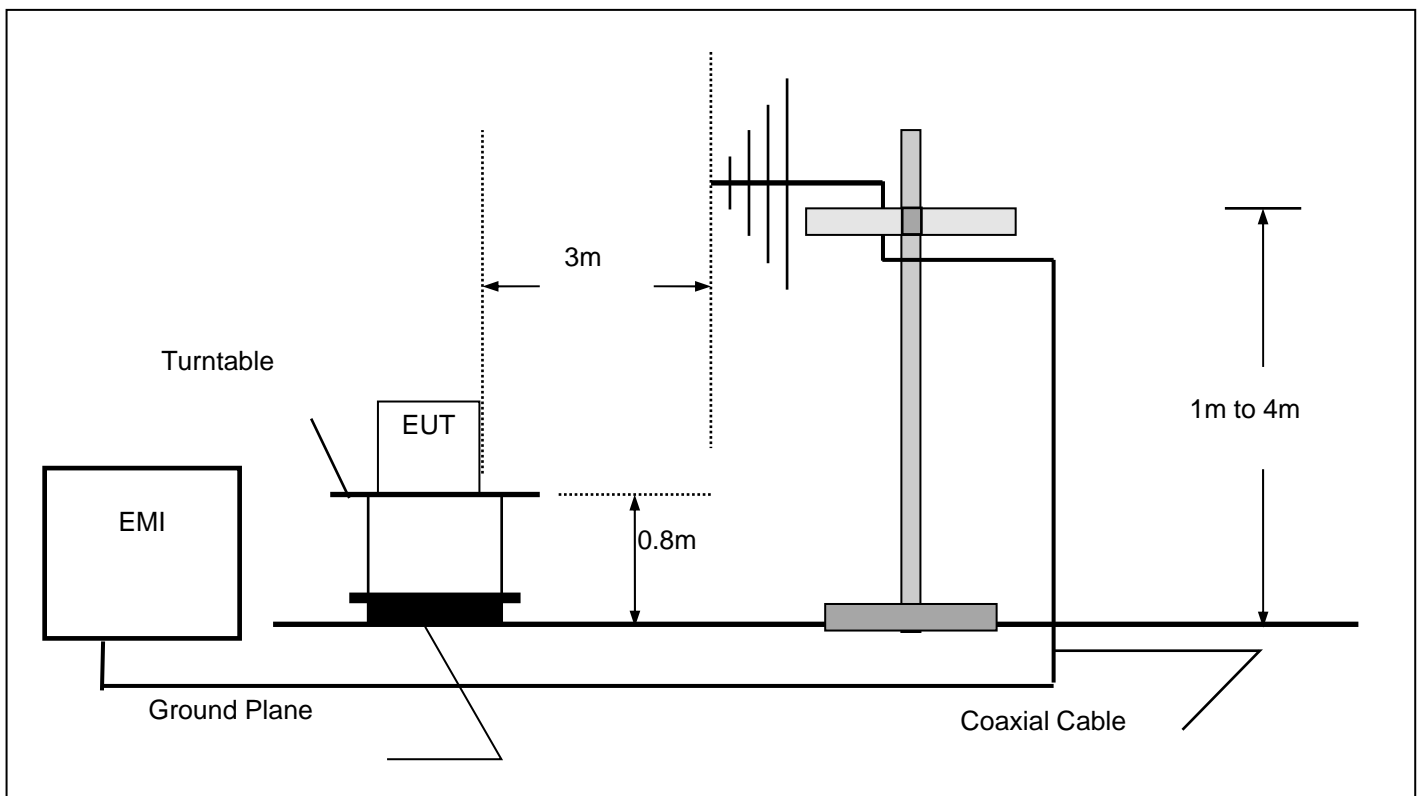
4.1 Block Diagram of Test

4.1.1 Block diagram of connection between the EUT and simulators



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

4.1.2 Block diagram of test setup (In chamber)



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

4.2 Measuring Standard

EN 55015: 2013+A1: 2015

4.3 Radiated Emission Limits

All emanations from a device or system shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (Db μ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.4 EUT Configuration on Test

The EN 55015 regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : DISNEY FROZEN II LIGHT AND MUSIC SET
Model No. : FR-V165

4.5 Operating Condition of EUT

Step 1: Turn on the power.

Step 2: Let the EUT work in test mode (ON) and measure it.

4.6 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meter to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarizations of the antenna are set on test.

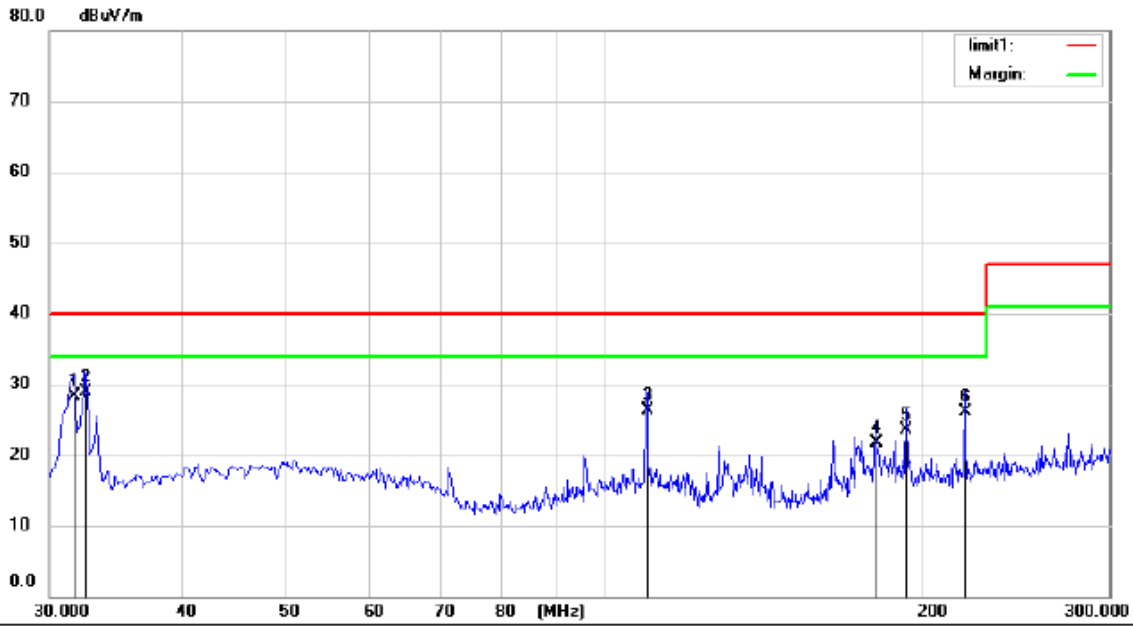
The bandwidth of the Receiver (ESCI) is set at 120kHz.

4.7 Test Results

PASS.

The frequency range from 30MHz to 300MHz is investigated.

The test data are attached in the following pages.



Site: Chamber #1 Polarization: *Horizontal* Temperature: 26
 Limit: (RE)EN55015_3m Power: DC 4.5V Humidity: 55 %
 Mode: ON
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.6200	47.21	-18.95	28.26	40.00	-11.74	QP		
2	*	32.4300	47.95	-19.00	28.95	40.00	-11.05	QP		
3		109.9200	44.73	-18.40	26.33	40.00	-13.67	QP		
4		180.3900	41.12	-19.39	21.73	40.00	-18.27	QP		
5		193.0800	41.36	-17.90	23.46	40.00	-16.54	QP		
6		219.8100	42.91	-16.77	26.14	40.00	-13.86	QP		

*:Maximum data x:Over limit !:over margin

Operator: HUANG



Site Chamber #1 Polarization: *Vertical* Temperature: 26
 Limit: (RE)EN55015_3m Power: DC 4.5V Humidity: 55 %
 Mode: ON
 Note:

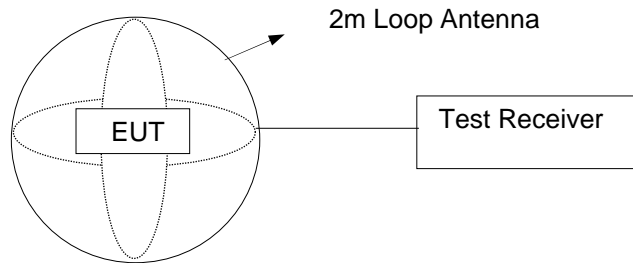
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		109.9200	50.59	-18.40	32.19	40.00	-7.81			QP
2		128.8200	50.65	-21.26	29.39	40.00	-10.61			QP
3		141.2400	50.36	-21.54	28.82	40.00	-11.18			QP
4	*	164.7300	54.84	-20.36	34.48	40.00	-5.52			QP
5		180.1200	50.79	-19.42	31.37	40.00	-8.63			QP
6		219.8100	50.10	-16.77	33.33	40.00	-6.67			QP

*:Maximum data x:Over limit !:over margin

Operator: HUANG

5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1 Block Diagram of Test Setup



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

5.2 Magnetic Field Emission Measurement Standard and Limits

5.2.1 Test Standard

EN 55015: 2013+A1: 2015

5.2.2 Test Limits

Frequency	Limits for loop diameter (Db μ A)
	2m
9KHz ~ 70KHz	88
70KHz ~ 150KHz	88 ~ 58*
150KHz ~ 3.0MHz	58 ~ 22*
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

5.3 EUT Configuration on Measurement

The configuration of the EUT is same as Section 5.1.

5.4 Operating Condition of EUT

Same as conducted measurement which is listed in Section 4.5, except that the test setup replaced by Section 5.1.

5.5 Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver.

Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter (Rohde & Schwarz test receiver ESCI) is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

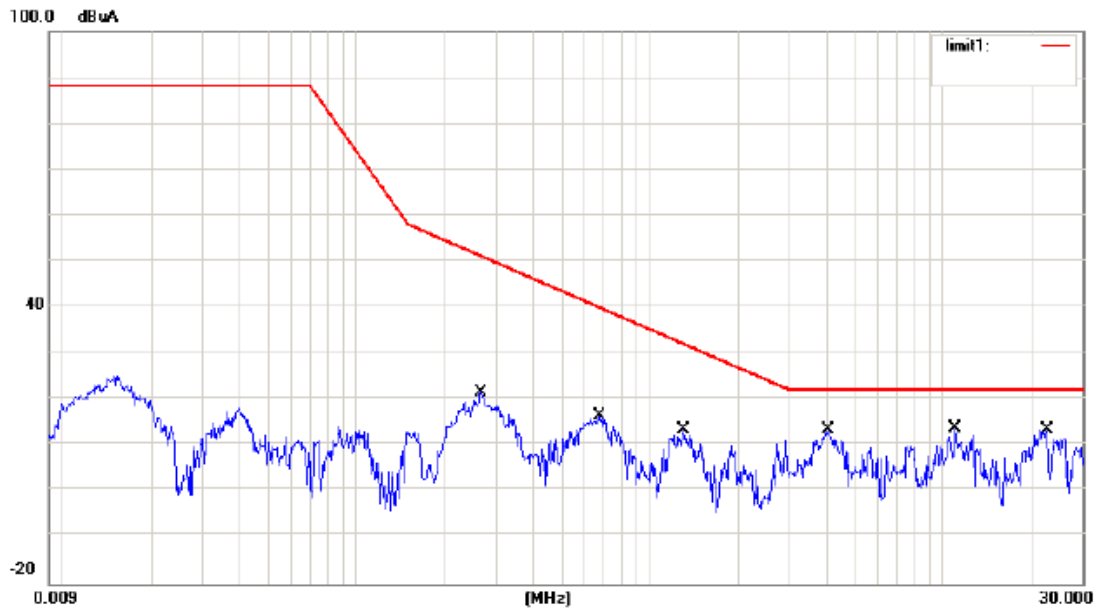
5.6 Test Results

PASS.

These test result outsourced to EMTEK (SHENZHEN) CO., LTD.

The frequency range from 9KHz to 30MHz is investigated.

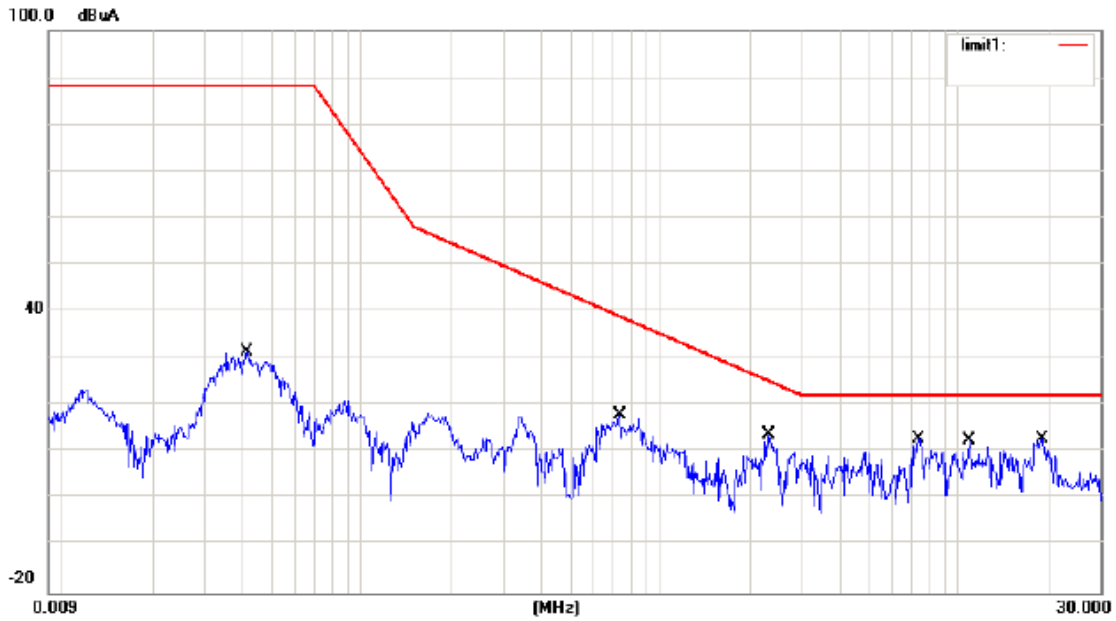
The test data are attached in the following pages.



Site site #1 Phase: *Loop A* Temperature: 22
 Limit: (ME)EN55015 ME Power: DC 4.5V Humidity: 50 %
 Mode: ON
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.2671	21.66	0.00	21.66	51.07	-29.41	QP	
2		0.6780	16.43	0.00	16.43	39.87	-23.44	QP	
3		1.3180	13.35	0.00	13.35	31.88	-18.53	QP	
4		4.1020	13.45	0.00	13.45	22.00	-8.55	QP	
5	*	11.1200	13.76	0.00	13.76	22.00	-8.24	QP	
6		22.8800	13.43	0.00	13.43	22.00	-8.57	QP	

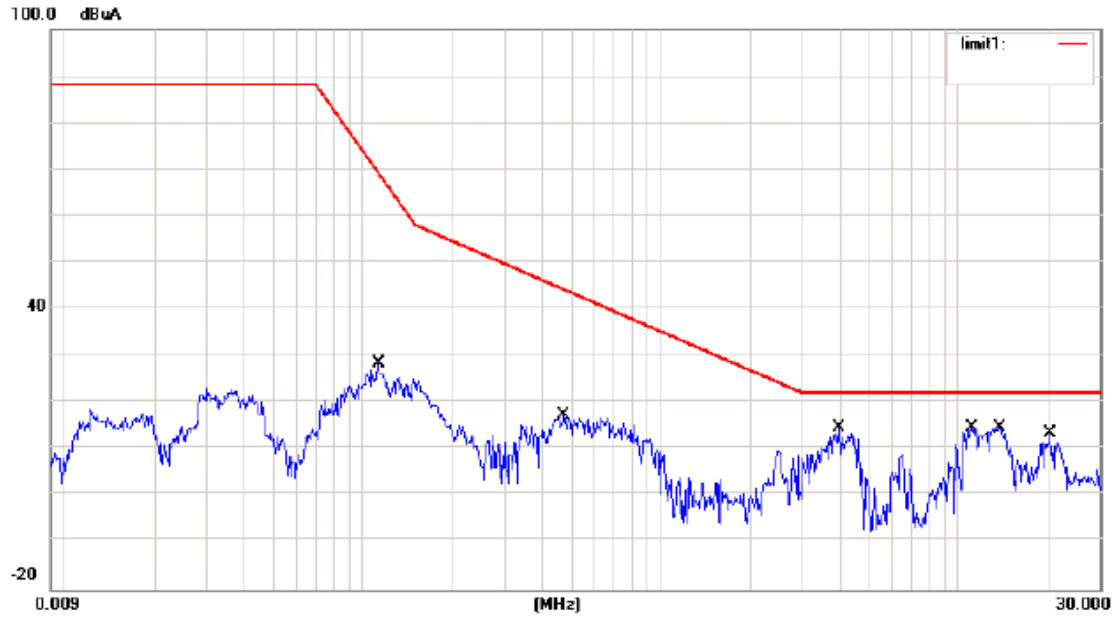
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL



Site site #1 Phase: *Loop B* Temperature: 22
 Limit: (ME)EN55015_ME Power: DC 4.5V Humidity: 50 %
 Mode: ON
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.0413	31.46	0.00	31.46	88.00	-56.54	QP	
2		0.7380	18.02	0.00	18.02	38.85	-20.83	QP	
3		2.3380	13.73	0.00	13.73	25.00	-11.27	QP	
4	*	7.3860	12.94	0.00	12.94	22.00	-9.06	QP	
5		10.9200	12.54	0.00	12.54	22.00	-9.46	QP	
6		19.3200	12.85	0.00	12.85	22.00	-9.15	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL



Site site #1 Phase: *Loop C* Temperature: 22
 Limit: (ME)EN55015_ME Power: DC 4.5V Humidity: 50 %
 Mode: ON
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1131	28.52	0.00	28.52	69.11	-40.59	QP	
2		0.4780	17.34	0.00	17.34	44.07	-26.73	QP	
3	*	3.9980	14.69	0.00	14.69	22.00	-7.31	QP	
4		11.1600	14.55	0.00	14.55	22.00	-7.45	QP	
5		13.8000	14.56	0.00	14.56	22.00	-7.44	QP	
6		20.5600	13.38	0.00	13.38	22.00	-8.62	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

6. ELECTROSTATIC DISCHARGE TEST

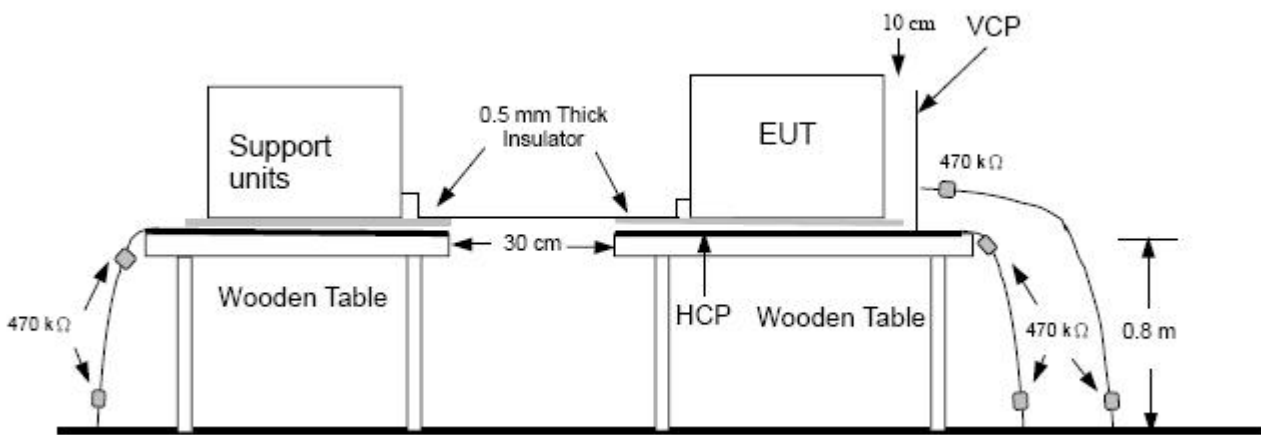
6.1 Block Diagram of Test Setup

6.1.1 Block Diagram of the EUT



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

6.1.2 Block Diagram of ESD Test Setup



Ground Reference Plane

(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

6.2 Test Standard

EN 61547: 2009

(IEC 61000-4-2: 2008, Severity Level: Air Discharge: Level 3, $\pm 8\text{KV}$ /Contact Discharge: Level 2, $\pm 4\text{KV}$)

6.3 Severity Levels and Performance Criterion

6.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

Performance criterion: B

6.4 EUT Configuration

The configuration of EUT is listed in Section 6.1.

6.5 Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 6.1.

Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (ON) and measure it.

6.6 Test Procedure

6.6.1 Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

6.6.2 Contact Discharge

All the procedure shall be same as Section 6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.6.3 Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

6.6.4 Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.7 Test Results

PASS.

Please refer to the following page.

Electrostatic Discharge Test Results

EMTEK (DONGGUAN) CO., LTD.

Applicant	eKids, LLC. / KIDDESIGNS INC.	Test Date	: July 29, 2019
EUT	DISNEY FROZEN II LIGHT AND MUSIC SET	Temperature	: 24°C
M/N	FR-V165	Humidity	: 53%
Power Supply	DC 4.5V	Test Engineer	: Cao
Test Mode	:ON	Criterion	: B
Air Discharge: ±8KV			
Contact Discharge: ±4KV # For Positive and negative each 10/25 times			
Location	Kind A-Air Discharge C-Contact Discharge	Result	
Gap	A	PASS	
Non-metal	A	PASS	
HCP	C	PASS	
VCP	C	PASS	
Screw	C	PASS	
Switch	A	PASS	
Remark :		Test Equipment : ESD Tester (TESEQ, 409)	

Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

7. RF FIELD STRENGTH SUSCEPTIBILITY TEST

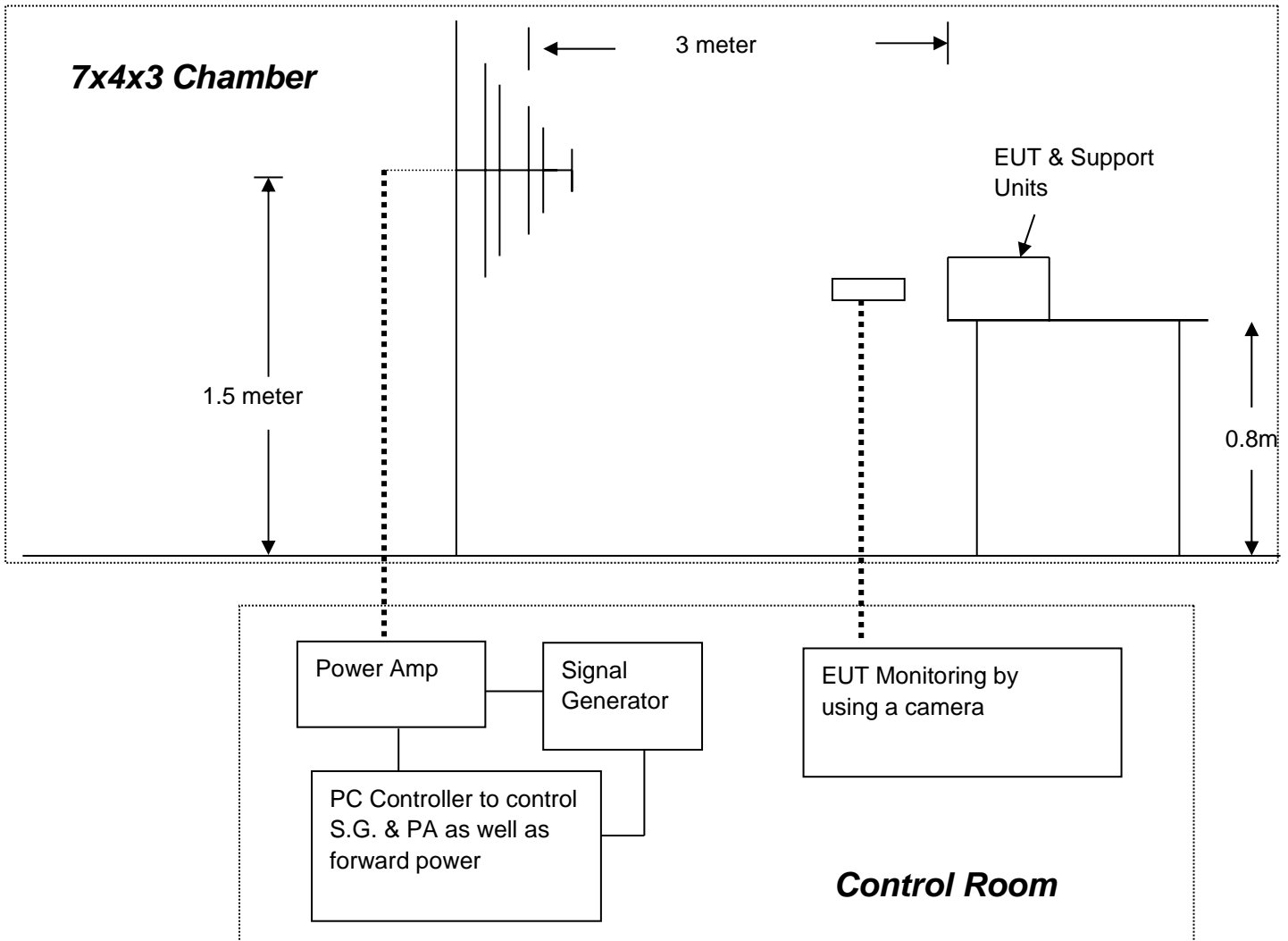
7.1 Block Diagram of Test Setup

7.1.1 Block Diagram of the EUT and the simulators



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

7.1.2 R/S Test Setup



(EUT: DISNEY FROZEN II LIGHT AND MUSIC SET)

7.2 Test Standard

EN 61547: 2009

(IEC 61000-4-3: 2006+A1: 2007+A2: 2010, Severity Level: 2, 3V / m)

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

Performance criterion: A

7.4 EUT Configuration

The configurations of EUT are listed in Section 7.1.

7.5 Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 7.1.

Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (ON) and measure it.

7.6 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80 - 1000 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	1 Sec.

7.7 Test Results

PASS.

These test result outsourced to EMTEK (SHENZHEN) CO., LTD.

Please refer to the following page.

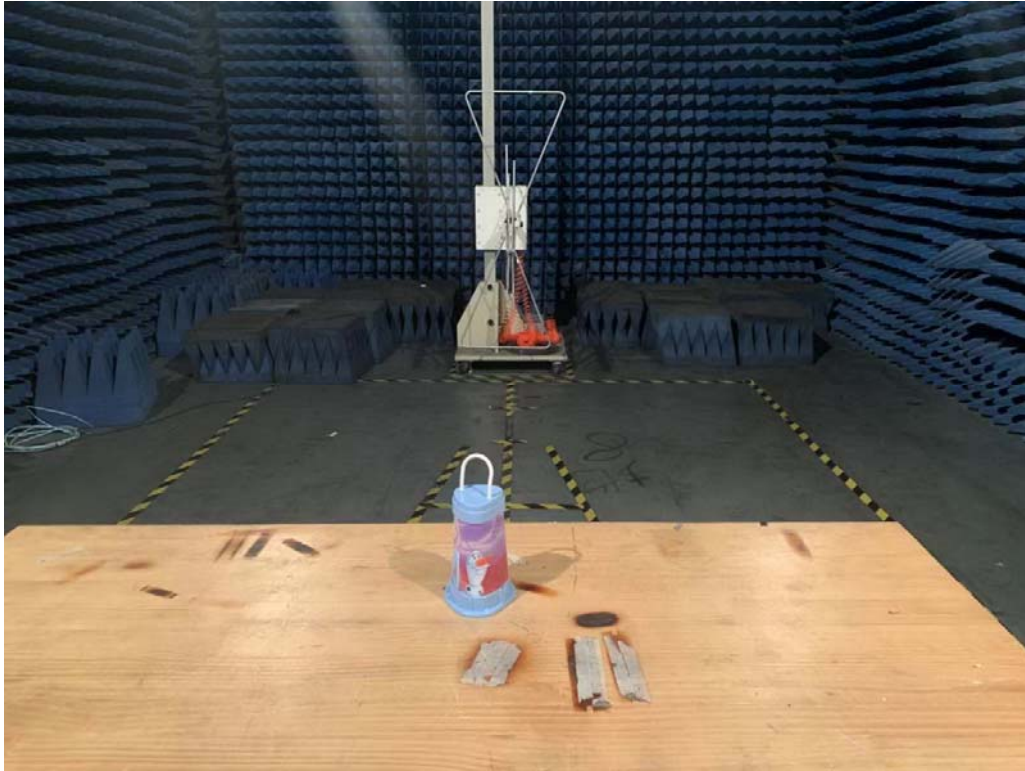
RF Field Strength Susceptibility Test Results

EMTEK (SHENZHEN) CO., LTD.

Applicant :	eKids, LLC. / KIDDESIGNS INC.		Test Date :	July 29, 2019
EUT :	DISNEY FROZEN II LIGHT AND MUSIC SET		Temperature :	24°C
M/N :	FR-V165		Humidity :	53%
Field Strength :	3 V/m		Criterion :	A
Power Supply :	DC 4.5V		Frequency Range:	80 to 1000 MHz
Test Engineer :	Cao			
Modulation :	<input checked="" type="checkbox"/> AM <input type="checkbox"/> Pulse <input type="checkbox"/> none 1 KHz 80%			
Test Mode :	ON			
	Frequency Range : 80-1000MHz			
Steps	1 %			
	Horizontal		Vertical	
Front	PASS		PASS	
Right	PASS		PASS	
Rear	PASS		PASS	
Left	PASS		PASS	
Test Equipment : 1. Signal Generator : N5181A (Agilent) 2. Power Amplifier : 80RF1000-175 (MILMEGA)& AS0102-55 (MILMEGA)& AS1860-50 (MILMEGA) 3. Log.-Per. Antenna: VULP 9118E(SCHWARZBECK) 4. Broad-Band Horn Antenna: STLP 9149 (SCHWARZBECK) 5. RF Power Meter. Dual Channel : 4232A (BOONTON) 6. Field Strength Meter: RSS1006A (DARE)				
Note:				

8. PHOTOGRAPH

8.1 Photo of Radiation Emission Measurement



8.2 Photo of Magnetic Field Emission Measurement



8.3 Photo of Electrostatic Discharge Test

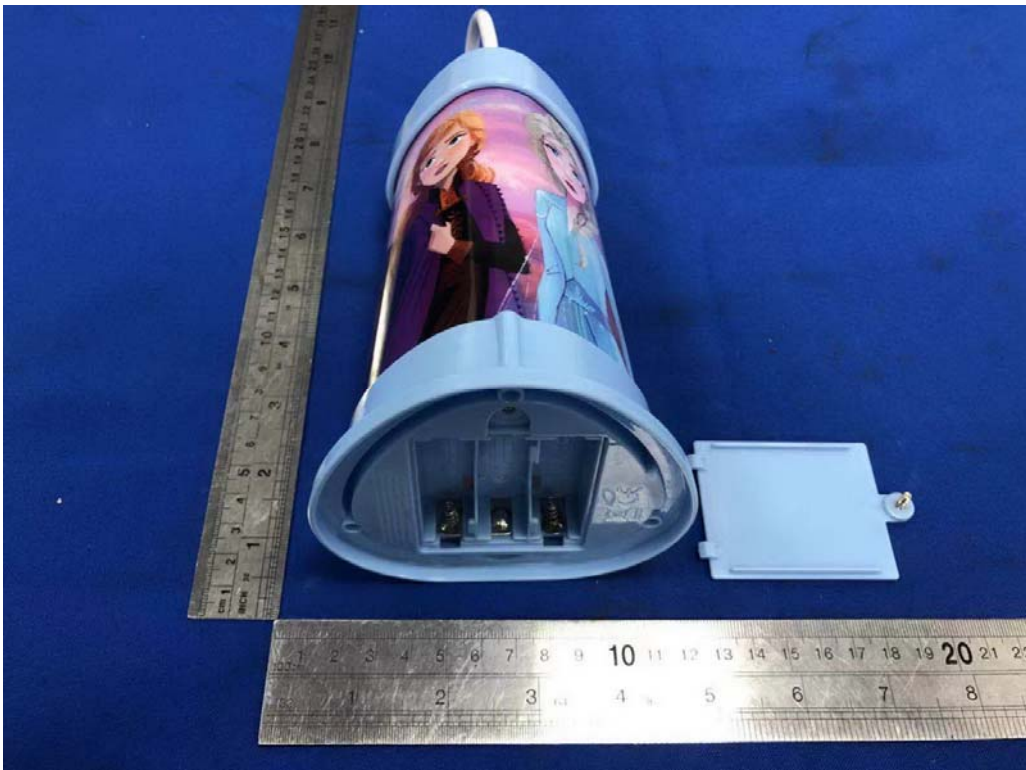


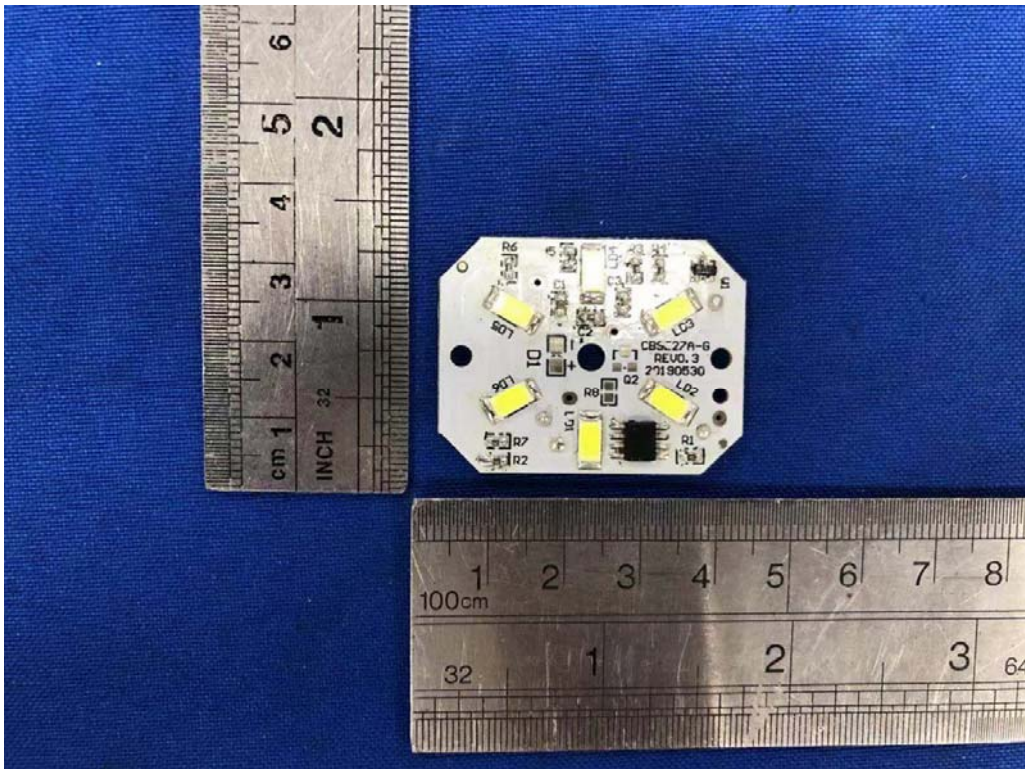
8.4 Photo of RF Field Strength susceptibility Test

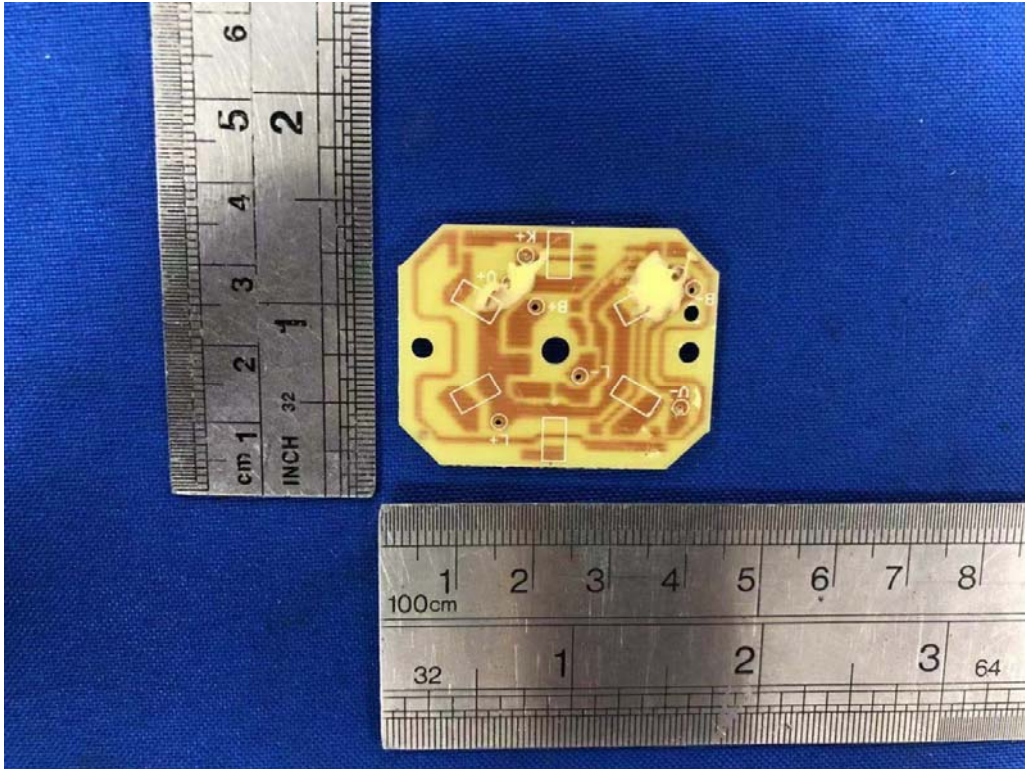


APPENDIX
(Photos of EUT)









-----The end-----