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## CERTIFICATE OF CONFORMITY

Certificate No.: TB190722359

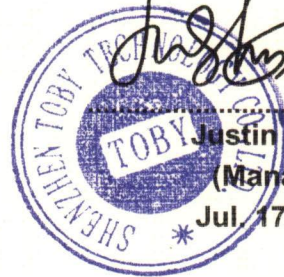
**Applicant** : SHENZHEN RMU SCIENCE TECHNOLOGY LTD.  
**Address** : 3th Floor, B3 Fuyuan Industrial Zone, Tangwei, Fuyong, Baoan,  
Shenzhen, China  
**Manufacturer** : SHENZHEN RMU SCIENCE TECHNOLOGY LTD.  
**Address** : 3th Floor, B3 Fuyuan Industrial Zone, Tangwei, Fuyong, Baoan,  
Shenzhen, China  
**Product** : Timer Reminder  
**Brand Name** : RUMI  
**Model(s)** : BSTE03, BSTE01, BSTE02, BSTE04.

**Test Standard(s):**

EN 61000-6-3: 2007+A1: 2011;  
EN 61000-6-1: 2007.

The EUT described above has been tested by us with the listed standards according to the Council Directive 2014/30/EU relating to electromagnetic compatibility, and found in compliance with all essential requirements of the Directive. It is possible to use CE marking to demonstrate the compliance with the EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: TB-EMC167404.



Justin Zhang  
(Manager)

Jul. 17, 2019

# Test Report

Report No.: CTT190610526EN

Date: Jun. 12, 2019

Page 1 of 3

Applicant: SHENZHEN RMU SCIENCE TECHNOLOGY LTD

Address: 3TH FLOOR, B3 FUYUAN INDUSTRIAL ZONE, TANGWEI FUYONG BAOAN SHENZHEN

Sample Received Date: Jun. 06, 2019

Completed Date: Jun. 12, 2019

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Tetris pill box (combination)

Sample Model: BSTE01-07

Test Result(s): Please refer to next page(s).

**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	US FDA 21 CFR 177.1520: Olefin polymers (PP copolymer). - Density - Extractable fraction in n-Hexane - Extractable fraction in Xylene	PASS

Signed for and on Behalf of CTT

*Hilary He*



Hilary He / Technical Manager  
Consumer Testing Technology Co., Ltd.

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# Test Report

Report No.: CTT190610526EN

Date: Jun. 12, 2019

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**Test Result(s):**

US FDA 21 CFR 177.1520 - Olefin polymers(PP copolymer)

Method:

Density - ASTM D1505-18

Maximum extractable fraction in n-Hexane - US FDA 21 CFR 177.1520

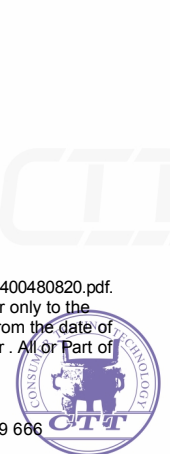
Maximum extractable fraction in Xylene - US FDA 21 CFR 177.1520

Material No.	Description	Location
1	White plastic (copolymer PP)	Medicine box

Material No.	Test Item	Limit	Result	Conclusion
1	Density	0.850-1.00g/cm <sup>3</sup>	0.908g/cm <sup>3</sup>	PASS
	Maximum extractable fraction in n-Hexane, 50°C,2 hours	5.5%	0.46%	PASS
	Maximum extractable fraction in Xylene , Refluxing,2 hours, 25°C standing for 1 hour at least	30%	3.82%	PASS

- Note:**
1. g/cm<sup>3</sup> = grams per cubic centimeter.
  2. % = Percent by weight.
  3. Olefin copolymers use in articles that contact food except for articles used for packing or holding food during cooking, maximum extractable fraction in N-hexane is 5.5%.
  4. Olefin copolymers use in articles used for packing or holding food during cooking, maximum extractable fraction in N-hexane is 2.6%.

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# Test Report

Report No.: CTT190610526EN

Date: Jun. 12, 2019

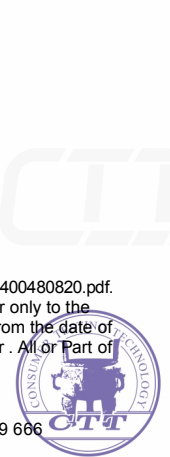
Page 3 of 3

**Photo of Sample:**



\*\*\*End of Report\*\*\*

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# EMC Test Report

**Application No.** : TB190722359  
**Applicant** : SHENZHEN RMU SCIENCE TECHNOLOGY LTD.  
**Equipment Under Test (EUT)**  
EUT Name : Timer Reminder  
Model No. : BSTE03  
Serial Model No. : BSTE01, BSTE02, BSTE04.  
Brand Name : RUMI  
**Receipt Date** : 2019-07-15  
**Test Date** : 2019-07-16 to 2019-07-17  
**Issue Date** : 2019-07-17  
**Standards** : EN 61000-6-3:2007+A1:2011  
EN 61000-6-1:2007  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above  
The EUT technically complies with the 2014/30/EU directive requirements

**Test/Witness Engineer** :

*Rebecca*

Rebecca

**Engineer Supervisor** :

*Ivan Su*

Ivan Su

**Engineer Manager** :

*Ray Lai*

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-075-1.0



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# 1. General Information

## 1.1. Client Information

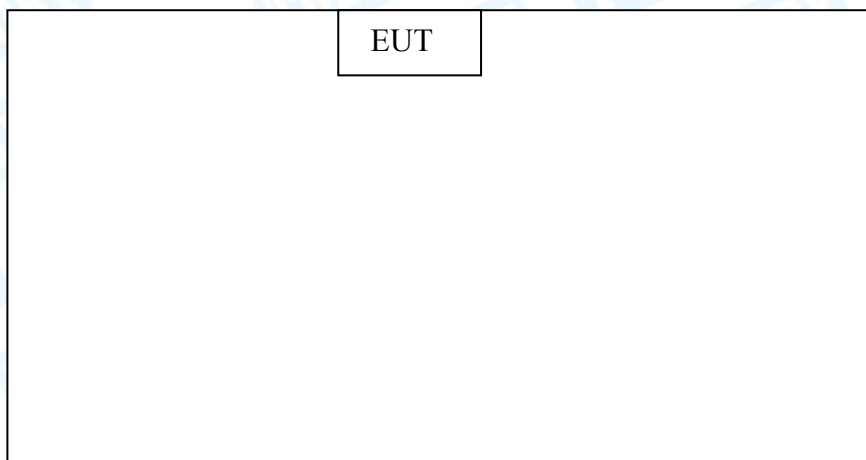
Applicant	:	SHENZHEN RMU SCIENCE TECHNOLOGY LTD.
Address	:	3th Floor, B3 Fuyuan Industrial Zone, Tangwei, Fuyong, Baoan, Shenzhen, China
Manufacturer	:	SHENZHEN RMU SCIENCE TECHNOLOGY LTD.
Address	:	3th Floor, B3 Fuyuan Industrial Zone, Tangwei, Fuyong, Baoan, Shenzhen, China

## 1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	Timer Reminder
Model(s)	:	BSTE03, BSTE01, BSTE02, BSTE04.
Model Difference	:	All above models are identical in schematic, structure and critical components except for different model number, therefore, EMI and EMS testing was performed with BSTE03 only.
Brand Name	:	RUMI
Power supply	:	DC 3V



### 1.3. Block Diagram Showing The Configuration of System Tested



### 1.4. Description of Support Units

The EUT has been tested as an independent unit.

### 1.5. Description of Operating Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For EMI Test	
Final Test Mode	Description
Mode 1	Normal Mode
For EMS Test	
Final Test Mode	Description
Mode 1	Normal Mode

## 1.6. Performance Criterion

**Criterion A:** The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

**Criterion B:** After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

**Criterion C:** Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.

## 1.7. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty ( $U_{Lab}$ )	Expanded Uncertainty ( $U_{Cispr}$ )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm 3.42$ dB $\pm 3.42$ dB	$\pm 4.0$ dB $\pm 3.6$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.40$ dB	$\pm 5.2$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB	N/A
Mains Harmonic	Voltage	$\pm 3.11\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 3.25\%$	N/A



## 1.8. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

## 2. TEST Results Summary

<b>EMISSION</b>		
<b>Description of test items</b>	<b>Standards</b>	<b>Results</b>
Conducted disturbance at mains terminals	EN 61000-6-3:2007+A1:2011	N/A
Radiated Disturbance	EN 61000-6-3:2007+A1:2011	Pass
Harmonic current emissions	EN 61000-3-2: 2014	N/A
Voltage fluctuation and flicker	EN 61000-3-3: 2013	N/A
<b>IMMUNITY</b>		
<b>Description of test items</b>	<b>Standards</b>	<b>Results</b>
Electrostatic Discharge (ESD)	EN 61000-4-2: 2009	Pass
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2006+A1: 2008 +A2:2010	Pass
EFT/B Immunity	EN 61000-4-4: 2012	N/A
Surge Immunity	EN 61000-4-5: 2014	N/A
Conducted RF Immunity	EN 61000-4-6: 2014	N/A
Power frequency magnetic field	EN 61000-4-8: 2010	N/A
Voltage dips, >95% reduction	EN 61000-4-11: 2004	N/A
Voltage dips, 30% reduction		
Voltage interruptions		
<b>Note:</b> N/A is an abbreviation for Not Applicable.		



### 3. Test Equipment Used

Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 03, 2019	Mar. 02, 2020
Pre-amplifier	HP	11909A	185903	Mar. 04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar. 03, 2019	Mar. 02, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 03, 2019	Mar. 02, 2020
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Mar. 03, 2019	Mar. 02, 2020
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Discharge Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
ESD Tester	TESEQ	NSG437	304	Jul. 13, 2019	Jul. 12, 2020
Radiated Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Signal Generator	Rohde & Schwarz	SMT03	200754	Mar. 20, 2019	Mar. 19, 2020
Power Meter	Rohde & Schwarz	NRVD	110562	Feb. 11, 2019	Feb. 10, 2020
Voltage Probe	Rohde & Schwarz	URV5-Z2	12056	Feb. 11, 2019	Feb. 10, 2020
Voltage Probe	Rohde & Schwarz	URV5-Z2	12074	Feb. 11, 2019	Feb. 10, 2020
RF Amplifier	AR	50S1G4A	326720	Feb. 11, 2019	Feb. 10, 2020
Bilog Antenna	ETS	3142C	00047662	Feb. 11, 2019	Feb. 10, 2020
Horn Antenna	ARA	DRG-118A	16554	Feb. 11, 2019	Feb. 10, 2020
Audio Analyzer	Rohde & Schwarz	UPL 16	SB2208	Feb. 11, 2019	Feb. 10, 2020
Sound Level Calibrator	B&K	4231	264516	Feb. 11, 2019	Feb. 10, 2020

## 4. Radiated Emission Test

### 4.1. Test Standard and Limit

#### 4.1.1. Test Standard

EN 61000-6-3:2007+A1:2011

#### 4.1.2. Test Limit

#### Radiated Disturbance Test Limit

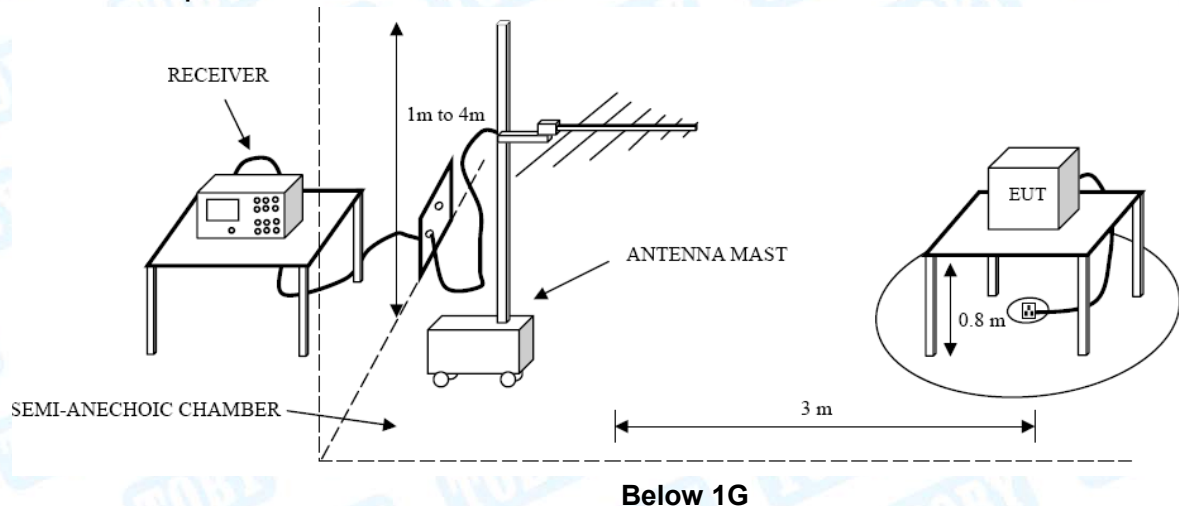
Radiated Disturbance Test Limit-Below 1G		
Frequency (MHz)	Limit (dB $\mu$ V/m)	
	Quasi-peak Level	
30~230	40	
230~1000	47	

**Remark:** 1. The lower limit shall apply at the transition frequency.  
2. The test distance is 3m.

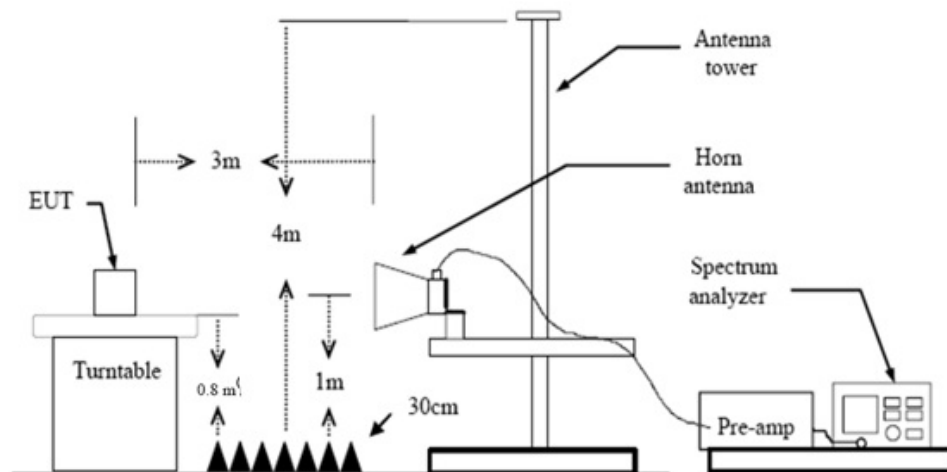
Radiated Disturbance Test Limit-Above 1G		
Frequency (GHz)	Limit (dB $\mu$ V/m)	
	Peak Level	Average Level
1~3	70	50
3~16	74	54

if the highest internal frequency of the EUT is less than 108 MHz, the measurement shall only be made up to 1GHz.  
if the highest internal frequency of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2GHz.  
if the highest internal frequency of the EUT is between 500MHz and 1GHz, the measurement shall only be made up to 5GHz.  
if the highest internal frequency of the EUT is above 1GHz, the measurement shall be made up to 6GHz.

### 4.2. Test Setup







Above 1G

#### 4.3. Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

#### 4.4. Test Data

Please refer to the Attachment A.

## 5. Electrostatic Discharge Immunity Test

### 5.1. Test Requirements

#### 5.1.1. Test Standard

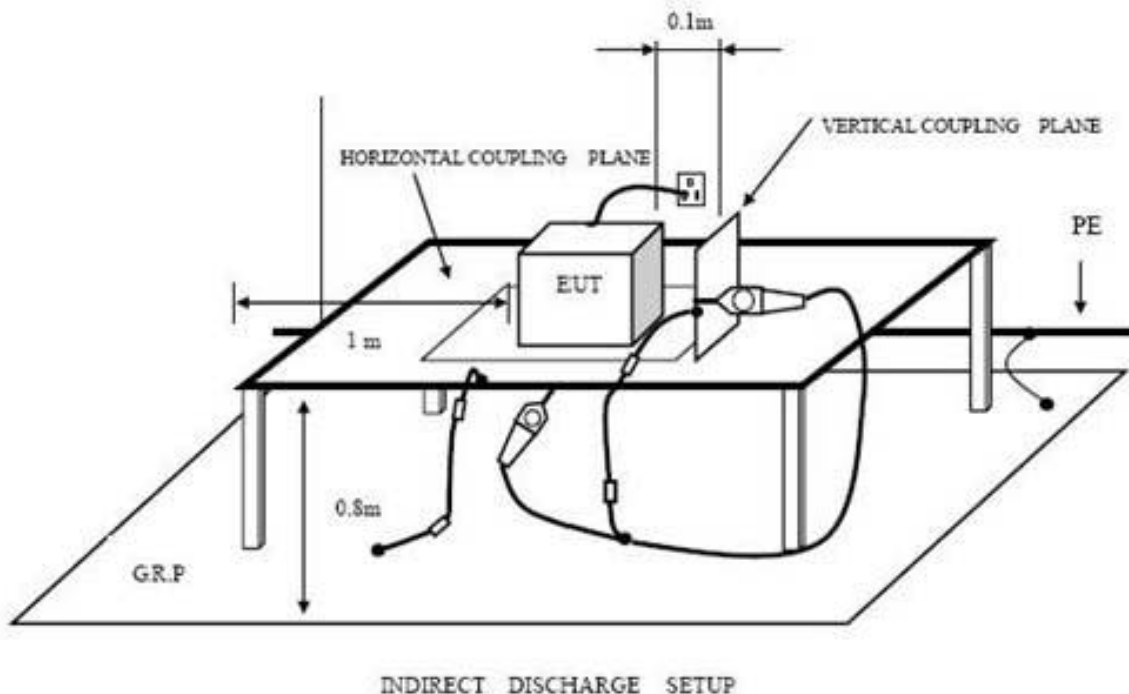
EN 61000-6-1: 2007 (EN 61000-4-2:2009)

#### 5.1.2. Test Level

<b>Discharge Impedance:</b>	330 ohm/ 150pF
<b>Discharge Voltage:</b>	Air Discharge: 2kV/4kV/8kV(Direct) Contact Discharge: 2kV/4kV (Direct /Indirect)
<b>Polarity:</b>	Positive& Negative
<b>Number of Discharge:</b>	Air Discharge: min.20 times at each test point Contact Discharge: min.200 times in total
<b>Discharge Mode:</b>	Single Discharge
<b>Discharge Period:</b>	1 second minimum

#### 5.1.3. Performance criterion: **B**

### 5.2. Test Setup





---

### 5.3. Test Procedure

#### 5.3.1. 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.

#### 5.3.2. Contact Discharge:

All the procedure shall be same as air discharge. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

#### 5.3.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

#### 5.3.4. Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) 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.

### 5.4. Test Data

Please refer to the Attachment B.

## 6. Radiated Electromagnetic Field Immunity Test

### 6.1. Test Requirements

#### 6.1.1. Test Standard

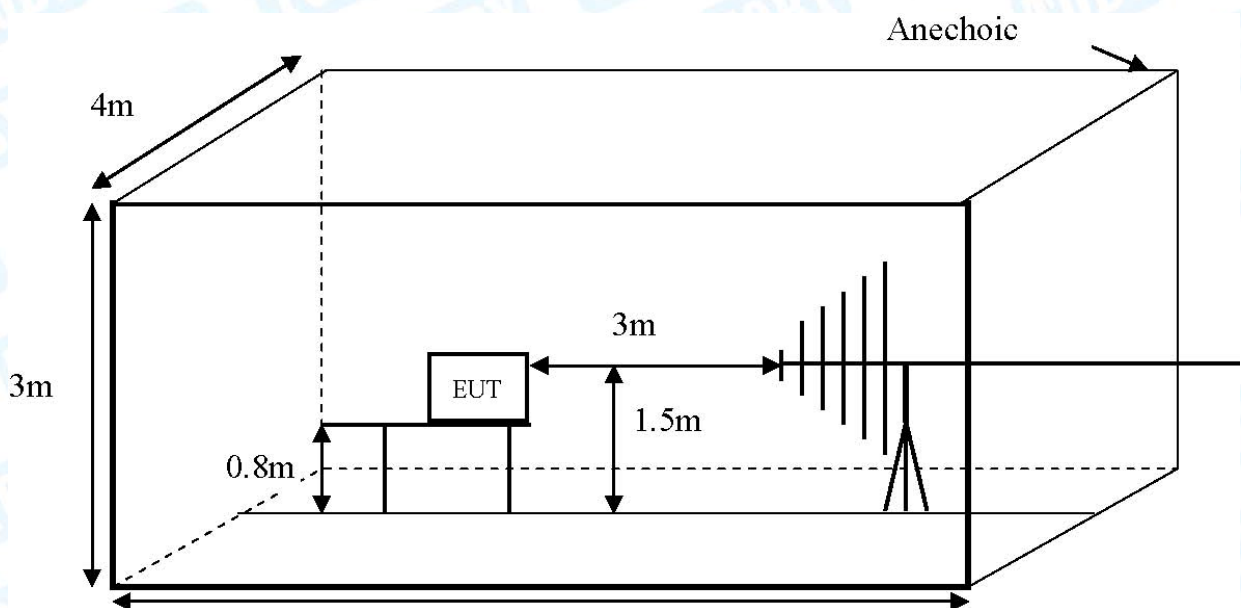
EN 61000-6-1: 2007 (EN 61000-4-3:2006+A1:2008+A2:2010)

#### 6.1.2. Test Level

Test Specification		
80-1000MHz 3 V/m 80 % AM (1kHz)	1400-2000MHz 3 V/m 80 % AM (1kHz)	2000-2700MHz 1 V/m 80 % AM (1kHz)

#### 6.1.3. Performance criterion: A

### 6.2. Test Setup



### 6.3. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a camera is used to monitor its screen.

All the scanning conditions are as following:



Condition of Test	Remark		
	Fielded strength	3V/m	3V/m
Radiated signal	Modulated	Modulated	Modulated
Scanning frequency	80-1000MHz	1400-2000MHz	2000-2700MHz
Dwell time	3 Sec.	3 Sec.	3 Sec.

#### 6.4. Test Data

Please refer to the Attachment C.

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## 7. Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT





**Photo 3 Appearance of EUT**

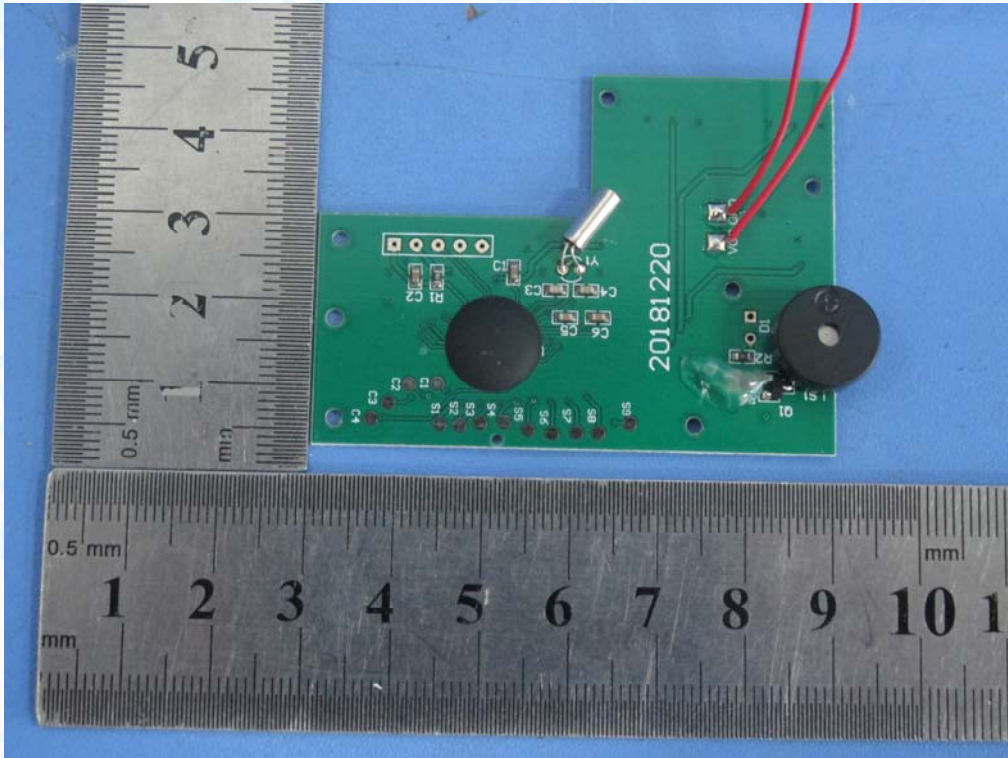


**Photo 4 Internal of EUT**

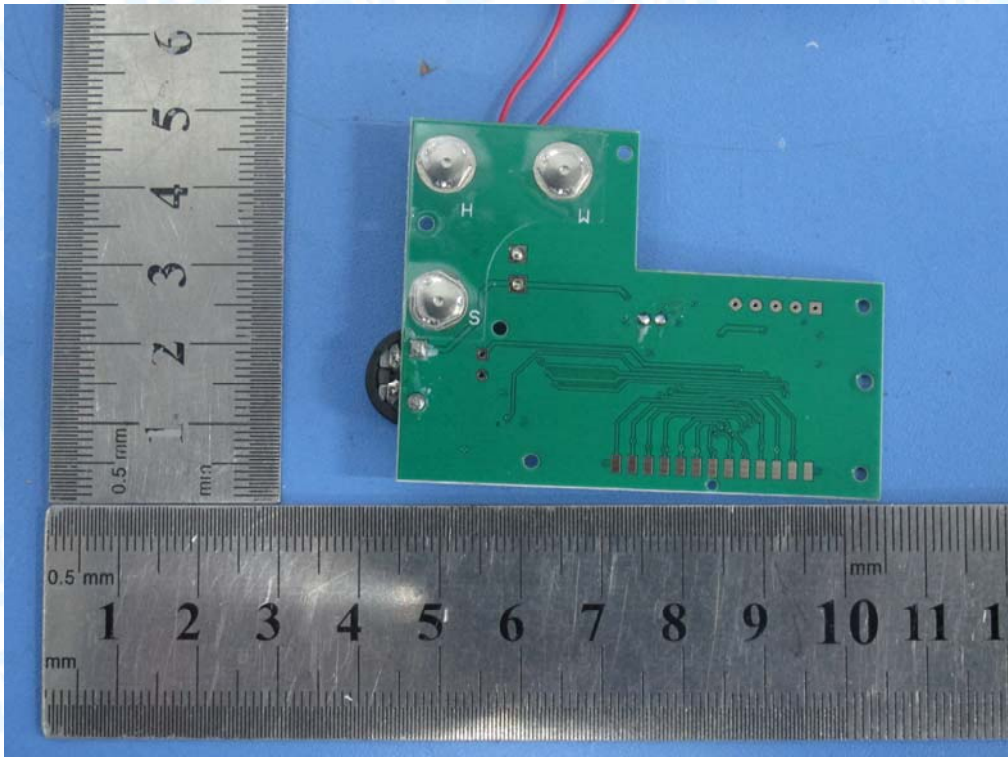




**Photo 5 Appearance of PCB**



**Photo 6 Appearance of PCB**





## 8. Photographs - Test Setup

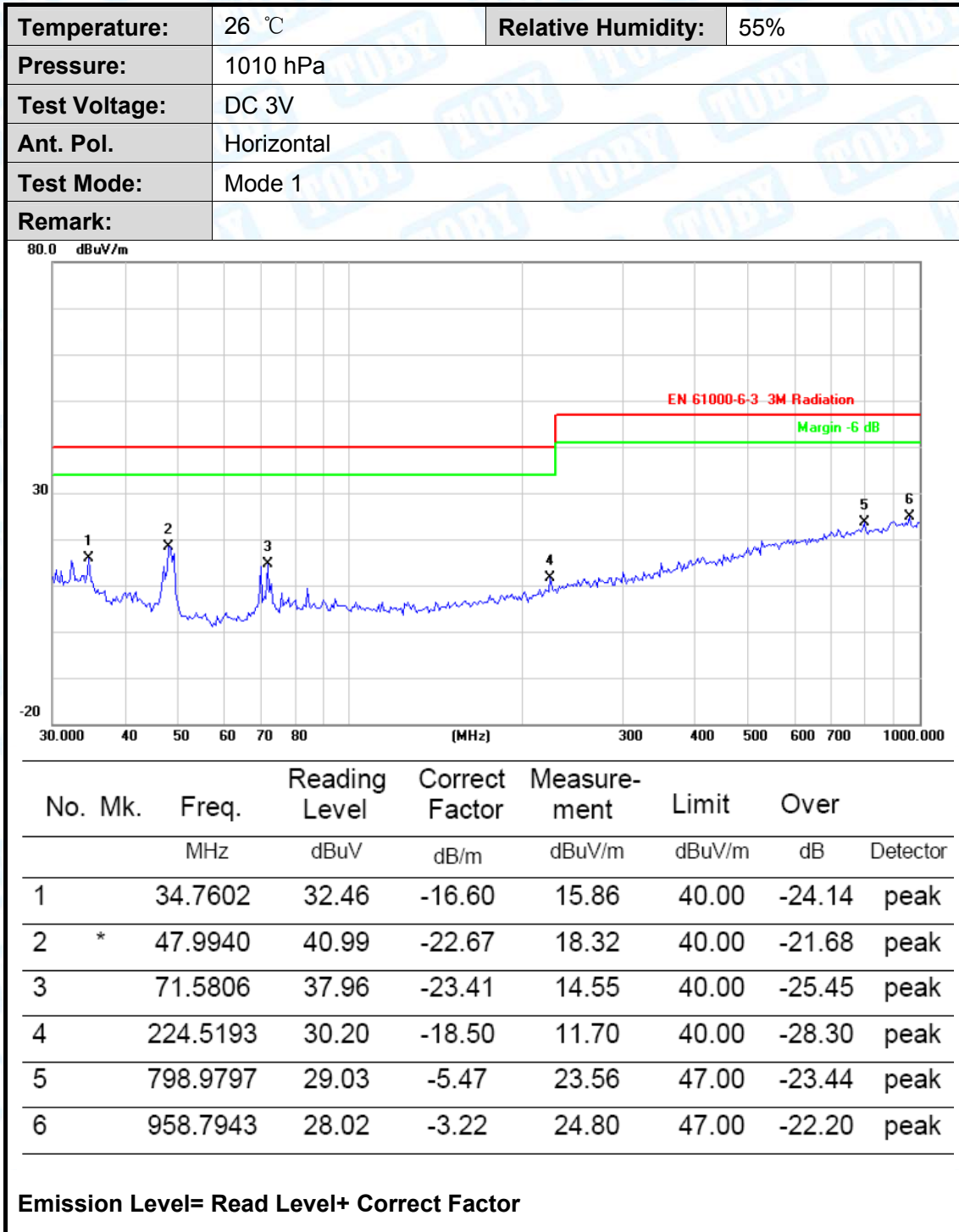
### Radiated Emission Test Setup



### Electrostatic discharge Test Setup

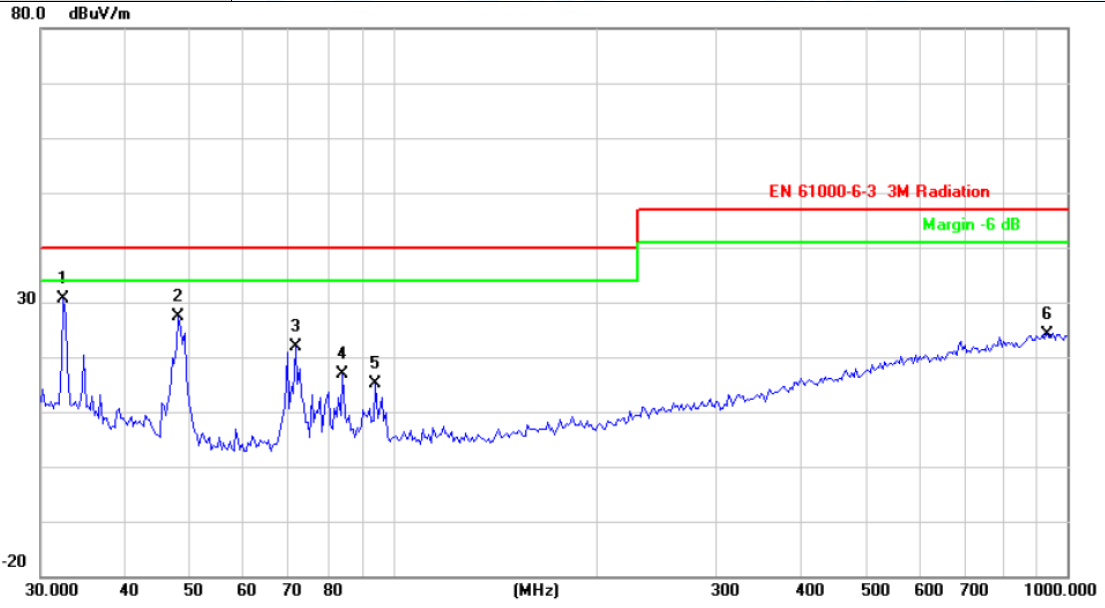


## Attachment A--Radiated Emission Test Data (Below 1G)





<b>Temperature:</b>	26 °C	<b>Relative Humidity:</b>	55%
<b>Pressure:</b>	1010 hPa		
<b>Test Voltage:</b>	DC 3V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	Mode 1		
<b>Remark:</b>			



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	32.4059	45.54	-14.82	30.72	40.00	-9.28	peak
2		47.9940	50.10	-22.67	27.43	40.00	-12.57	peak
3		71.5806	45.31	-23.41	21.90	40.00	-18.10	peak
4		84.1100	39.26	-22.33	16.93	40.00	-23.07	peak
5		94.0979	37.29	-22.06	15.23	40.00	-24.77	peak
6		932.2715	27.64	-3.39	24.25	47.00	-22.75	peak

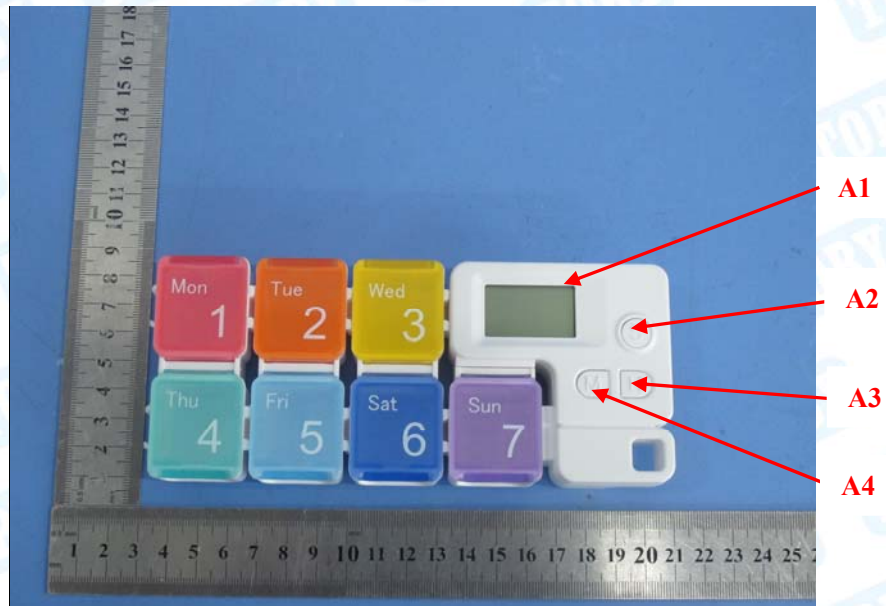
**Emission Level= Read Level+ Correct Factor**

## Attachment B--Electrostatic Discharge Test Data

Temperature : <u>24.6°C</u>		Humidity : <u>47%</u>	
Power supply : <u>DC 3V</u>		Test Mode : <u>Mode 1</u>	
<b>Required Performance Criteria: B</b>			
Air Discharge: $\pm 2/\pm 4/\pm 8\text{kV}$ Contact Discharge: $\pm 2/\pm 4\text{kV}$			
Location	Test Level (kV)	Judgment	Result
A1	$\pm 2\text{kV} \pm 4\text{kV} \pm 8\text{kV}$	A	<b>PASS</b>
A2		A	
A3		A	
A4		A	
C1	$\pm 2\text{kV} \pm 4\text{kV}$	A	
HCP	$\pm 4\text{kV}$	A	
VCP	$\pm 4\text{kV}$	A	



### Test Location Photos



#### Note:

- 1) Criteria A: There was no change operated with initial operating during the test.
- 2) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 3) Criteria C: The system shut down during the test.

## Attachment C--RF Field Strength Susceptibility Test Data

Temperature : 24.6°C Humidity : 47%

Power supply : DC 3V Test Mode : Mode 1

### Required Performance Criteria: A

Position	Frequency Range 1		Frequency Range 2		Frequency Range 3		Result
	80~1000MHz		1400~2000MHz		2000~2700MHz		
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
Front	A	A	A	A	A	A	<b>PASS</b>
Right	A	A	A	A	A	A	
Rear	A	A	A	A	A	A	
Left	A	A	A	A	A	A	

### Remark:

- 1) Criteria A: There was no change operated with initial operating during the test.
- 2) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 3) Criteria C: The system shut down during the test.

-----END OF REPORT-----





**Shenzhen Toby Technology CO.,Ltd.**

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Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong  
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## CERTIFICATE OF CONFORMITY

Certificate No.: TB190722360

**Applicant** : SHENZHEN RMU SCIENCE TECHNOLOGY LTD  
**Address** : 3th Floor, B3 Fuyuan Industrial Zone, Tangwei Fuyong Baoan  
Shenzhen  
**Manufacturer** : SHENZHEN RMU SCIENCE TECHNOLOGY LTD  
**Address** : 3th Floor, B3 Fuyuan Industrial Zone, Tangwei Fuyong Baoan  
Shenzhen  
**Product** : Timer Reminder  
**Brand Name** : RUMI  
**Model(s)** : BSTE03, BSTE01, BSTE02, BSTE04

**Test Standard(s):**

2011/65/EU&2015/863/EU;  
IEC 62321: 2013/2015/2017.

The EUT described above has been examined by us with the listed standards and found in compliance with the Council RoHS Directive 2015/863/EU amending Annex II Directive 2011/65/EU. It is possible to use CE marking to demonstrate the compliance with the CE requirement.

The preparation of necessary technical documents according to the requirement of EN50581. The report shall not be reproduced in part without written approval of us. It is only valid in connection with the test report number: TB-RoHS167405.







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## CONSOLIDATED TEST REPORT

### Sample information:

1. **Applicant:** SHENZHEN RMU SCIENCE TECHNOLOGY LTD
2. **Applicant Address:** 3th Floor, B3 Fuyuan Industrial Zone, Tangwei Fuyong Baoan Shenzhen
3. **Sample Name:** Timer Reminder
4. **Brand Name:** RUMI
5. **Model(s):** BSTE03, BSTE01, BSTE02, BSTE04
6. **Manufacturer:** SHENZHEN RMU SCIENCE TECHNOLOGY LTD
7. **Manufacturer Address:** 3th Floor, B3 Fuyuan Industrial Zone, Tangwei Fuyong Baoan Shenzhen
8. **Sample received date:** Jul.15, 2019
9. **Testing period:** Jul.15-18, 2019

### Testing Required:

- 1) In accordance with the RoHS Directive 2015/863/EU amending Annex II Directive 2011/65/EU.
- 2) As specified by client, to determine Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs and Phthalates (DEHP, BBP, DBP, DIBP) content in the selected materials (see remark) of submitted sample with reference to Directive 2015/863/EU of the European Parliament and of the Council of 31 March 2015 (RoHS, Previously 2002/95/EC and 2011/65/EU).

### Test Standards:

Testing Item	Pretreatment method	Measuring method	Report Limit
Lead (Pb)	IEC 62321, Ed1:2013	IEC62321 (ICP-OES)	2ppm
Cadmium (Cd)	IEC 62321, Ed1:2013	IEC62321 (ICP-OES)	2ppm
Mercury (Hg)	IEC 62321, Ed1:2013+A1:2017	IEC62321 (ICP-OES)	2ppm
Chromium (Cr <sup>6+</sup> )	IEC 62321, Ed1:2015 IEC 62321, Ed1:2017	IEC62321 (UV-VIS)	0.1 μg/cm <sup>2</sup> 8ppm
PBBs/PBDEs	IEC 62321, Ed1:2015	IEC62321 (GC-MS)	5ppm
Phthalates	IEC 62321, Ed1:2017	IEC62321 (GC-MS)	30ppm

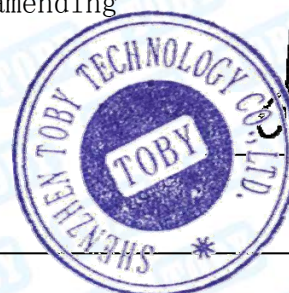
### Remarks:

1. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the company.
2. Characterization & Condition of sample: Normal.
3. Ambient Condition During Testing: (17~22) °C, (55~68) % RH.

### Conclusion:

Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs, PBDEs and Phthalates comply with the Limits as set by RoHS Directive 2015/863/EU amending Annex II Directive 2011/65/EU.

Signed for Shenzhen TOBY



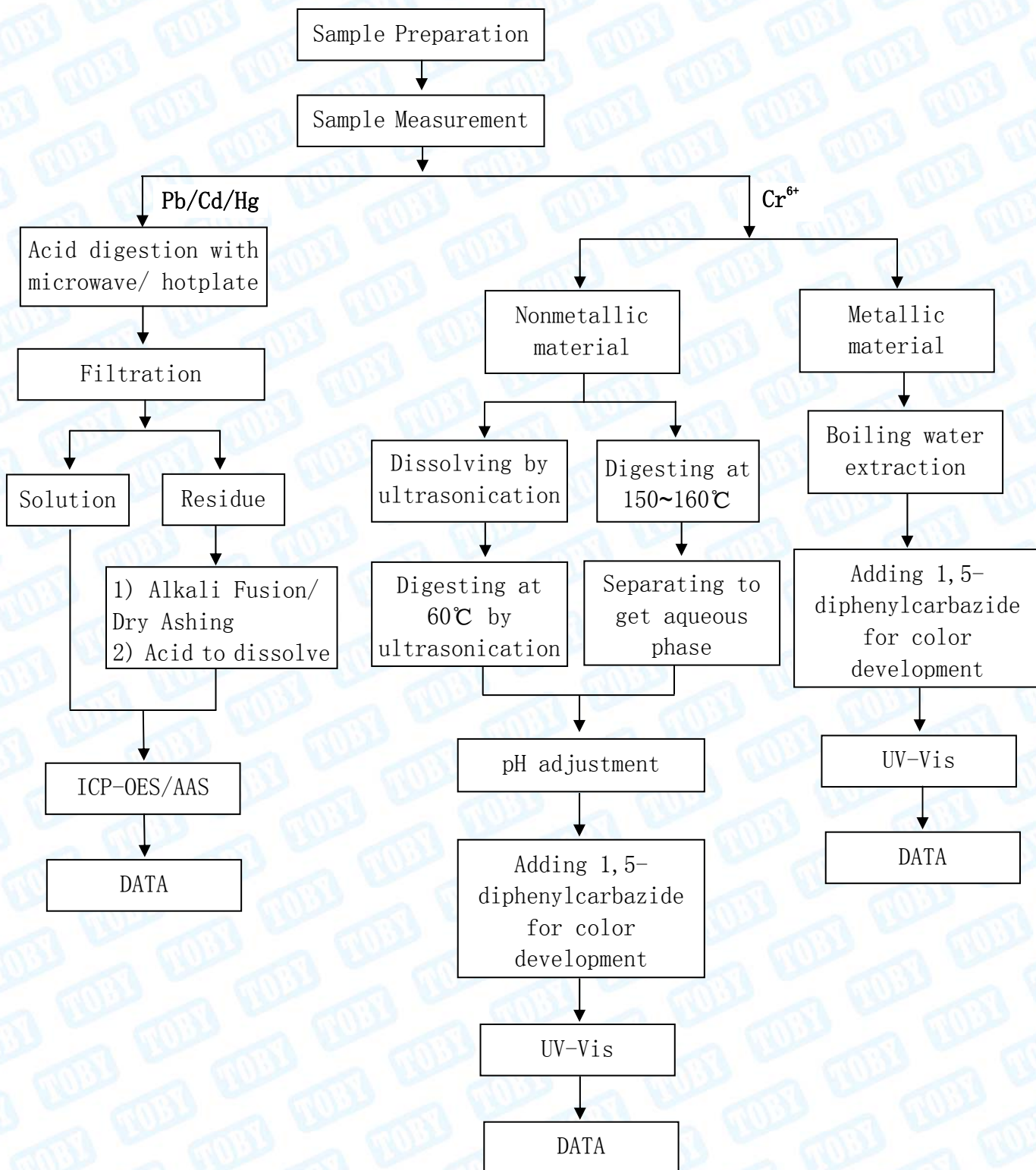
Justin Zhang  
Manager



# CONSOLIDATED TEST REPORT

Test flow:

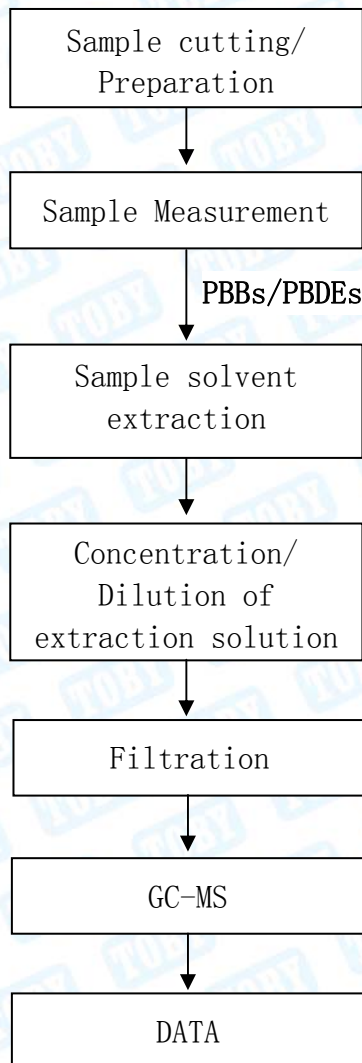
1. To Determine Lead/Cadmium/Mercury/ Hexavalent Chromium Content:





## CONSOLIDATED TEST REPORT

### 2. To Determine PBBs/PBDEs Content:



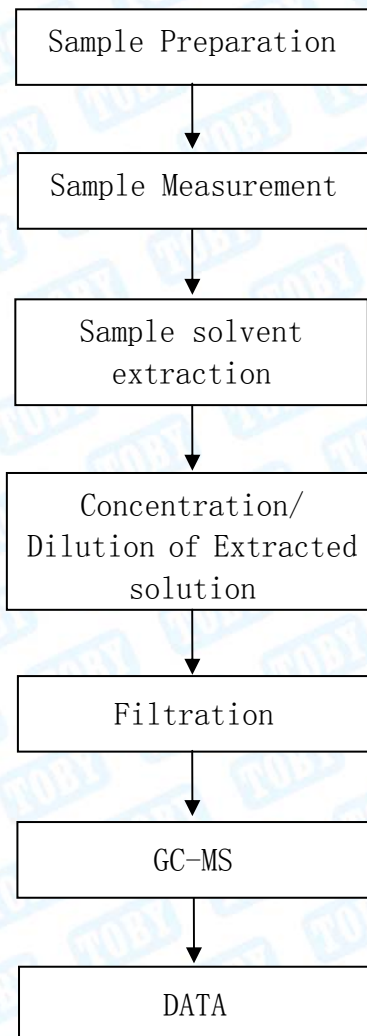




## CONSOLIDATED TEST REPORT

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### 3. To Determine Phthalates Content:







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## CONSOLIDATED TEST REPORT

NO.	SAMPLES NAME	TEST REPORT NO.	DESCRIPTION	REMARK
1	PCB	SCL01J037275007C	PCB (TESTED AS A WHOLE)	----
2	CHIP RESISTOR	SHAEC1827155301	RESISTOR PRODUCT	----
3	CRYSTALS	A2180036168101003	SILVERY BODY AND SILVERY METAL PIN (MIXALL)	----
4	CHIP CAPACITOR	CANEC1808819408	MIXED ALL PARTS	----
5	AUDION	CANEC1800217511 A01	BLACK BODY W/ SILVERY METAL PIN	----
6	LCD	SZXEC1900129302	MIXED ALL PARTS	----
7.1	BUZZER	HAP160428730	BLACK PLASTIC SHELL	----
7.2			SILVERY METAL	----
7.3			COPPER METAL SHEET	----
8	BATTERY POLES	SZXEC1700158303	SILVERY METAL	----
9	SWITCH	SZXEC1700788201	SILVERY METAL	----
10.1	WIRE	SHAEC1803997501	RED WIRE	----
10.2		ECL01I011606002	BLACK WIRE	----
10.3		SZXEC1801574909	SILVERY METAL WIRE	----
11	SOLDER	CANEC1717174502	SILVERY METAL	----
12	SCREW	SZXEC1800275101	SILVERY METAL SCREW	----
13.1	SHELL	A2180115846102001	WHITE PLASTIC	----
13.2		SZC18060688982	RED PLASTIC	----
13.3		CANEC1807753001	ORANGE PLASTIC	----
13.4		CANEC1613746104	YELLOW PLASTIC	----
13.5		A2180069189101001	GREEN PLASTIC	----
13.6		CANML1704950101	BLUE PLASTIC	----
13.7		CANML1712657901	DARK BLUE PLASTIC	----
13.8		A2180069189101002	PURPLE PLASTIC	----





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## CONSOLIDATED TEST REPORT

### 1) Test Result: Heavy Metals (Pb, Cd, Cr<sup>6+</sup>, Hg) Tests

Element	Pb	Cd	Cr <sup>6+</sup>	Hg
Limit:	1000 (mg/kg)	100 (mg/kg)	1000 (mg/kg)	1000 (mg/kg)
1	N. D.	N. D.	N. D.	N. D.
2	N. D.	N. D.	N. D.	N. D.
3	N. D.	N. D.	N. D.	N. D.
4	N. D.	N. D.	N. D.	N. D.
5	N. D.	N. D.	N. D.	N. D.
6	N. D.	N. D.	N. D.	N. D.
7.1	N. D.	N. D.	N. D.	N. D.
7.2	N. D.	N. D.	N. D.	N. D.
7.3	N. D.	N. D.	N. D.	N. D.
8	N. D.	N. D.	N. D.	N. D.
9	N. D.	N. D.	N. D.	N. D.
10.1	5	N. D.	N. D.	N. D.
10.2	N. D.	N. D.	N. D.	N. D.
10.3	11	N. D.	N. D.	N. D.
11	25	N. D.	N. D.	N. D.
12	N. D.	N. D.	N. D.	N. D.
13.1	N. D.	N. D.	N. D.	N. D.
13.2	N. D.	N. D.	N. D.	N. D.
13.3	N. D.	N. D.	N. D.	N. D.
13.4	N. D.	N. D.	N. D.	N. D.
13.5	N. D.	N. D.	N. D.	N. D.
13.6	8	N. D.	N. D.	N. D.
13.7	15	N. D.	N. D.	N. D.
13.8	N. D.	N. D.	N. D.	N. D.

◆ “N. D.” means “Not Detected”, method detection limit=2mg/kg.

◆ “\*” means be exempted from RoHS Directive.





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## CONSOLIDATED TEST REPORT

### 2) Test Result: Brominated Flame Retardants (PBBs & PBDEs) Tests

PBBs	1	2	3	4	5	6	7.1	10.1	10.2
MONOBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DIBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TRIBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TETRABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PENTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEXABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEPTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
OCTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
NONABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DECABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Sum of PBBs	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PBDEs	1	2	3	4	5	6	7.1	10.1	10.2
MONOBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DIBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TRIBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TETRABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PENTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEXABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEPTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
OCTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
NONABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DECABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Sum of PBDEs	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.





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## CONSOLIDATED TEST REPORT

PBBs	13. 1	13. 2	13. 3	13. 4	13. 5	13. 6	13. 7	13. 8
MONOBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DIBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TRIBROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TETRABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PENTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEXABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEPTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
OCTABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
NONABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DECABROMOBIPHENYL	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Sum of PBBs	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PBDEs	13. 1	13. 2	13. 3	13. 4	13. 5	13. 6	13. 7	13. 8
MONOBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DIBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TRIBROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
TETRABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
PENTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEXABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
HEPTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
OCTABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
NONABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
DECABROMODIPHENYL ETHER	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Sum of PBDEs	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.

◆ PBBs Limit = 1000 ppm, PBDEs Limit = 1000 ppm

◆ “N. D. ” means “Not Detected”, method detection limit = 5mg/kg.





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## CONSOLIDATED TEST REPORT

### 3) Test Result: Phthalates (DEHP, BBP, DBP, DIBP) Tests

Phthalates	1	2	3	4	5	6	7.1	10.1	10.2
Bis(2-ethylhexyl) phthalate (DEHP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Butyl benzyl phthalate (BBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Dibutyl phthalate (DBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Diisobutyl phthalate (DIBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.

Phthalates	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
Bis(2-ethylhexyl) phthalate (DEHP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Butyl benzyl phthalate (BBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Dibutyl phthalate (DBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
Diisobutyl phthalate (DIBP)	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.

◆ Each Item of Phthalates Limit = 1000 ppm

◆ "N. D." means "Not Detected", method detection limit = 30mg/kg.



# CONSOLIDATED TEST REPORT

Appearance Photo 1 of Sample



Appearance Photo 2 of Sample



\*\*\*\*\* END OF REPORT \*\*\*\*\*