Report No.:	TW2309172E
Applicant:	TIME DROPS LLC
Product:	PB-2 Button
Model No.:	Time Drops PB-2
Trademark:	Time Drops
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	
Terry Tong	

Terry Tang

Manager

Dated:

September 22, 2023

X

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## **Special Statement:**

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## 1.0 General Details

1.1 Test Lab Details

Name:SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File With the Federal Communications Commission – United Sates

Registration Number: 744189

For 3m Anechoic Chamber

## 1.2 Applicant Details

Applicant:TIME DROPS LLCAddress:237 Los Cerros Ave, Walnut Creek, CA 94598 (USA)Telephone:+1 (925) 412-1512Fax:--

1.3 Description of EUT

Product:	PB-2 Button
Manufacturer:	Hangzhou Roombanker Technology Co., Ltd.
Address:	A#801 Wantongcenter, Hangzhou, Zhejiang, China
Trademark:	Time Drops
Model Number:	Time Drops PB-2
Additional Model Name	N/A
Rating:	Input: DC3.0V
Battery:	DC3.0V (1pc CR2032 button battery)
Modulation Type:	GFSK (Bluetooth Low Energy)
Operation Frequency:	2402-2480MHz
Channel Separate:	2MHz
Channel Number:	40
Hardware Version:	B45080980G
Software Version:	V1
Serial No.:	5.1.9.007616
Antenna Designation	PCB antenna with gain -3.8dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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- 1.5 Test Duration 2023-09-15 to 2023-09-22
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.
- 1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

### 2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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The EUT has been tested according to the following specifications:

## **3.0** Technical Details

## 3.1 Summary of test results

The EOT has been tested according to th	ie ionowing speer	incations.	
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

## 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

## 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

The report refers only to the sample tested and does not apply to the bulk.

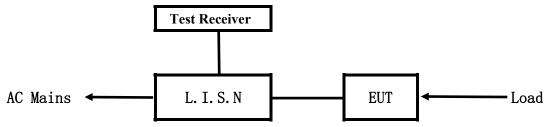
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## 5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

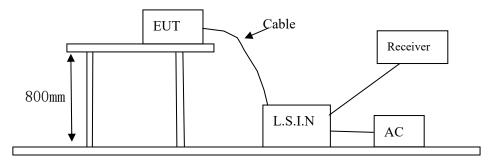


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



## 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 40 channels are provided to the EUT

A.	EUT
	I

Device	Manufacturer	Model	FCC ID
PB-2 Button	Hangzhou Roombanker Technology Co., Ltd.	Time Drops PB-2	2AZ5T-PB002

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B. Internal Device

2.				
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00~\sim~30.00$	60.0	50.0	

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

N/A

Note: EUT powered by CR2032 button battery, so this test item not applicable.

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## 6 Radiated Emission Test

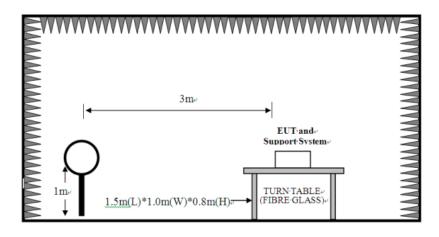
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
Above IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

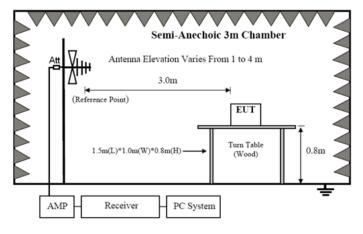


The report refers only to the sample tested and does not apply to the bulk.

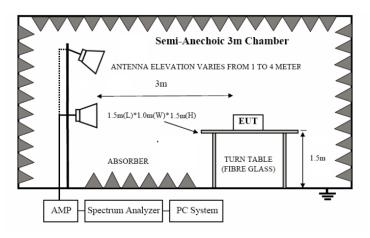
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

		Si upii 10.2 17(u) Eliint		
Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field S	trength of Harmonics (3m)
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

## A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

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2	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	= 20 log RF Volt	age (uV)			

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

#### Frequency Range (MHz) Distance (m) Field strength (dB $\mu$ V/m) 0.009-0.490 3 $20\log(2400/F(kHz)) + 40\log(300/3)$ 0.490-1.705 3 $20\log(24000/F(kHz)) + 40\log(30/3)$ 3 1.705-30 69.5 30-80 3 40.0 88-216 3 43.5 216-960 3 46.0 Above 960 3 54.0

## B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. This is a portable device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

6. New battery was used during the test.

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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

## Horizontal

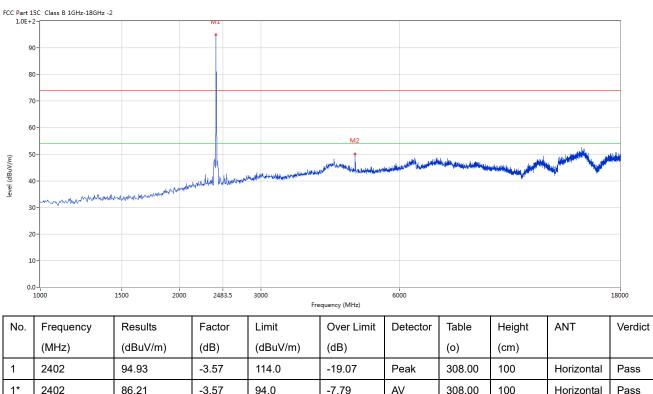
2

4802.799

50.14

3.12

74.0



-23.86

Peak

303.00

100

Horizontal

Pass

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1

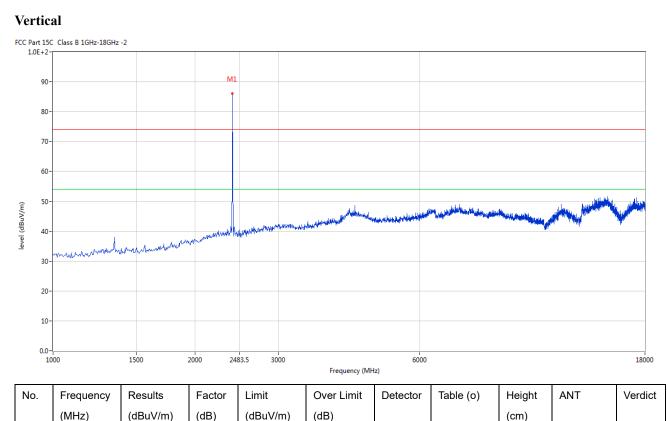
2402

85.97

-3.57

114.0





-28.03

333.00

100

Vertical

Pass

Peak

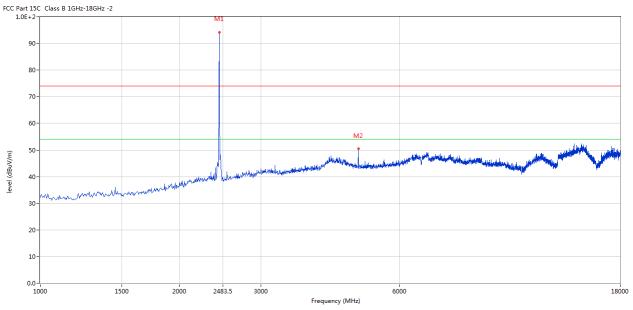
The report refers on	ly to the sample	tested and does n	ot apply to the bulk.
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## Please refer to the following test plots for details: Middle Channel-2440MHz

## Horizontal

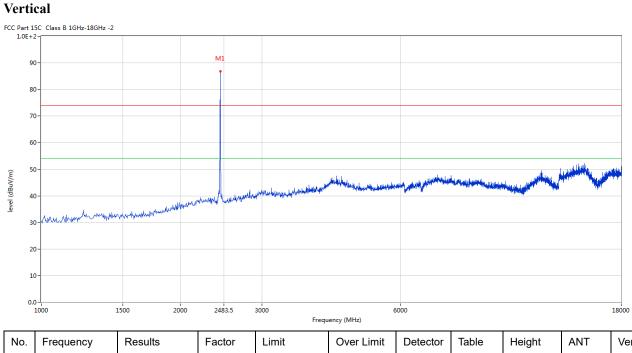


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	94.24	-3.57	114.0	-19.76	Peak	325.00	100	Horizontal	Pass
1*	2440	85.90	-3.57	94.0	-8.10	AV	325.00	100	Horizontal	Pass
2	4879.280	50.39	3.20	74.0	-23.61	Peak	325.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	86.79	-3.57	114.0	-27.21	Peak	360.00	100	Vertical	Pass

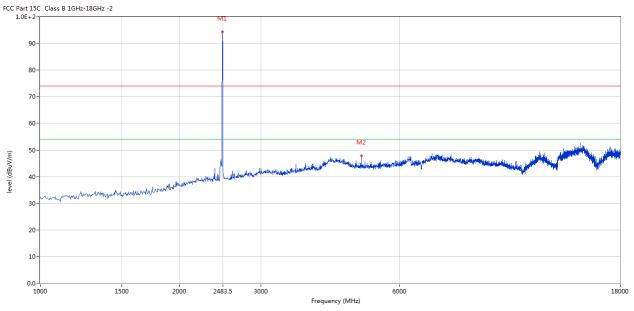
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## Please refer to the following test plots for details: High Channel-2480MHz

## Horizontal

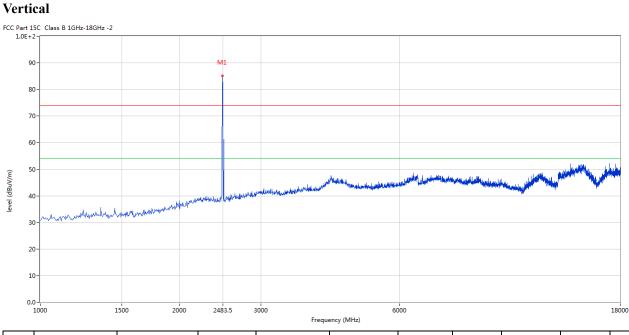


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	94.52	-3.57	114.0	-19.48	Peak	207.00	100	Horizontal	Pass
1*	2480	86.18	-3.57	94.0	-7.82	AV	207.00	100	Horizontal	Pass
2	4960.010	47.87	3.36	74.0	-26.13	Peak	287.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	84.35	-3.57	114.0	-29.65	Peak	0.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

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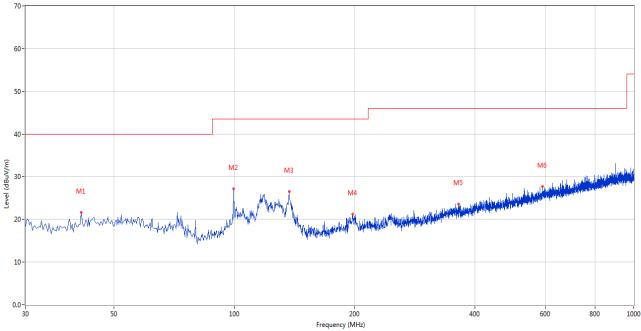
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

## Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	41.395	21.64	-11.91	40.0	18.36	Peak	197.00	100	Horizontal	Pass
2	99.580	27.22	-13.60	43.5	16.28	Peak	85.00	100	Horizontal	Pass
3	137.158	26.54	-17.21	43.5	16.96	Peak	190.00	100	Horizontal	Pass
4	197.768	21.22	-13.50	43.5	22.28	Peak	58.00	100	Horizontal	Pass
5	364.566	23.55	-9.51	46.0	22.45	Peak	51.00	100	Horizontal	Pass
6	590.035	27.64	-5.09	46.0	18.36	Peak	223.00	100	Horizontal	Pass

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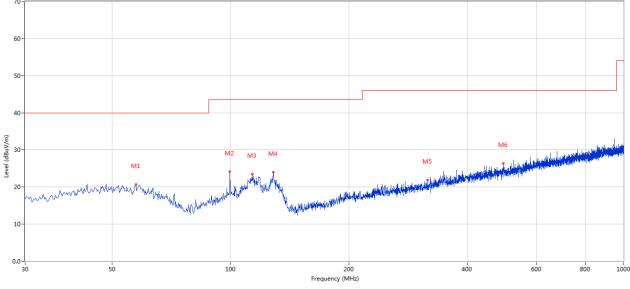
## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

## Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	57.396	20.68	-12.44	40.0	19.32	Peak	191.00	100	Vertical	Pass
2	99.580	24.08	-13.60	43.5	19.42	Peak	227.00	100	Vertical	Pass
3	113.399	23.44	-14.12	43.5	20.06	Peak	28.00	100	Vertical	Pass
4	128.430	24.01	-16.75	43.5	19.49	Peak	179.00	100	Vertical	Pass
5	317.291	21.83	-10.78	46.0	24.17	Peak	203.00	100	Vertical	Pass
6	494.999	26.31	-7.13	46.0	19.69	Peak	230.00	100	Vertical	Pass

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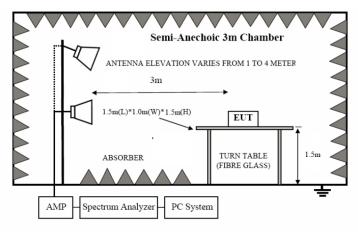


## 7. Band Edge

## 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

## 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

## 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

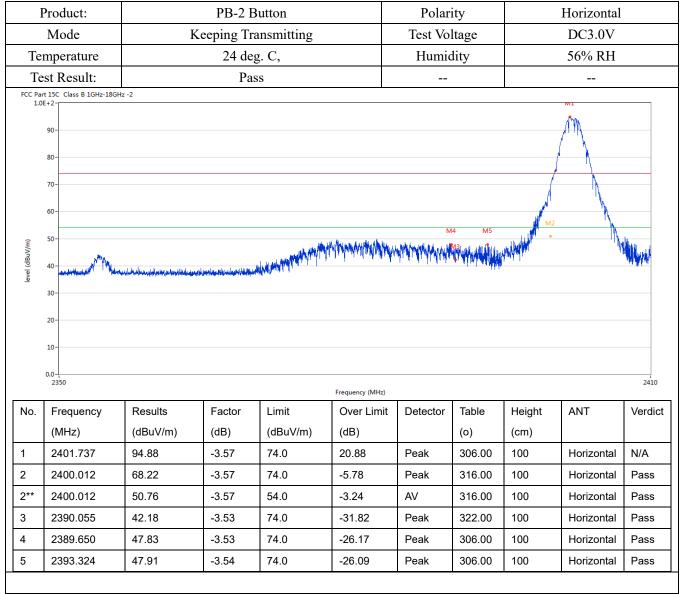
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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## 7.6 Test Result



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	Product:		PB-2 I	Button		Detect	tor		Vertical	
	Mode	]	Keeping Ti	ransmitting		Test Vol	tage		DC3.0V	
Te	mperature		24 de	eg. C,		Humid	lity		56% RH	
Te	est Result:		Pa	ISS						
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- 2 1	цянацяния 30 - 20 - 10 -	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	
3 2 1 0	10- 2350				Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	
- 2 1 0 No.	64-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Results	Factor	Limit	Frequency (MHz)	Detector		-	ANT	
3 2 1 0 No.	60- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)		(o)	(cm)		Verdi
3 2 1 0 No.	Frequency (MHz) 2401.737	Results (dBuV/m) 85.89	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 11.89	Peak	(o) 342.00	(cm) 100	Vertical	Verdi
3 2 1 0 No. 1 2 2**	Frequency (MHz) 2400.002	Results (dBuV/m) 85.89 57.95	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 11.89 -16.05	Peak Peak	(o) 342.00 347.00	(cm) 100 100	Vertical Vertical	Verdi N/A Pass
3 2 1 0	Frequency (MHz) 2400.002 2400.002	Results (dBuV/m) 85.89 57.95 43.78	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 11.89 -16.05 -12.32	Peak Peak AV	(o) 342.00 347.00 347.00	(cm) 100 100 100	Vertical Vertical Vertical	Pass Pass

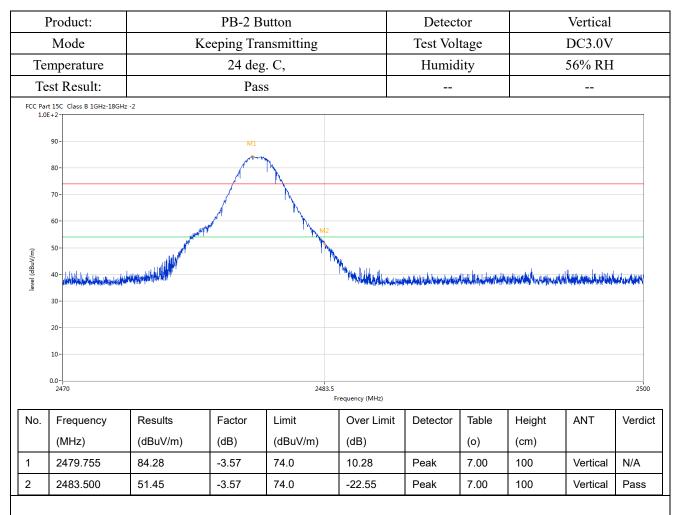
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Mode   Keeping Transmitting   Test Voltage   DC     Temperature   24 deg. C,   Humidity   569     Test Result:   Pass      PCC Part ISC Class B 16Hz-18GHz-2   Mit      90- <th>0V RH</th>	0V RH
Test Result:   Pass     FCC Part ISC Class B IGHz-18GHz-2     10E+2     90     80     70     90 <td>RH</td>	RH
FCC Part ISC Class B 1GHz-18GHz-2	
30-20-	فالديوار المقل والملي
30-20-	and such a
10-	
0.0-	
2470 2483.5 Frequency (MHz)	
No.       Frequency       Results       Factor       Limit       Over       Detector       Table       Height       ANT	2500
(MHz) (dBuV/m) (dB) (dBuV/m) Limit (dB) (o) (cm)	2500 Verdict
1 2480.115 94.47 -3.57 74.0 20.47 Peak 206.00 100 Horizo	
2 2483.500 61.45 -3.57 74.0 -12.55 Peak 313.00 100 Horizo	Verdict
2** 2483.500 44.13 -3.57 54.0 -9.87 AV 313.00 100 Horizo	Verdict al N/A

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Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### **Applicable Standard**

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.

This product has a PCB antenna. The antenna gain is -3.80dBi Max. It fulfills the requirement of this section. Test Result: Pass

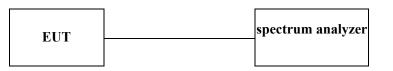
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## 9.0 20dB Bandwidth Measurement

**Test Configuration** 



## **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### Limit

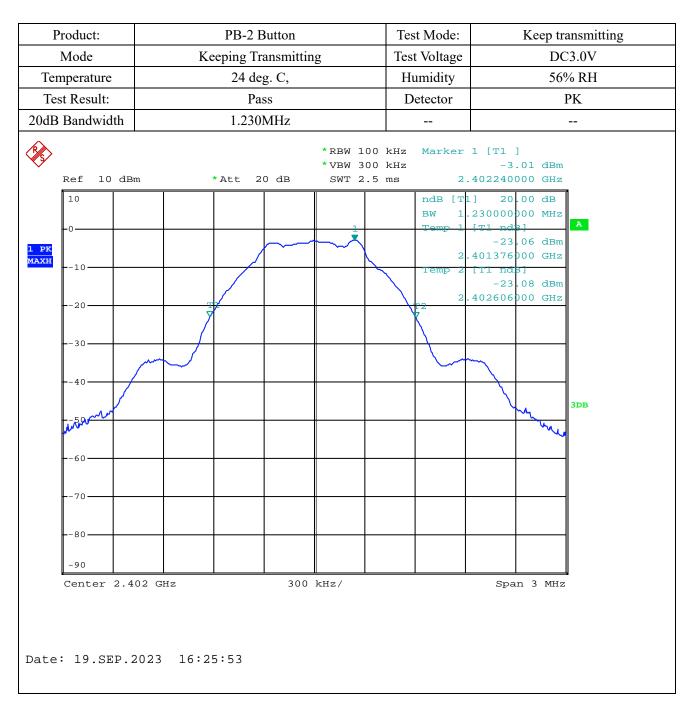
N/A

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## **Test Result**



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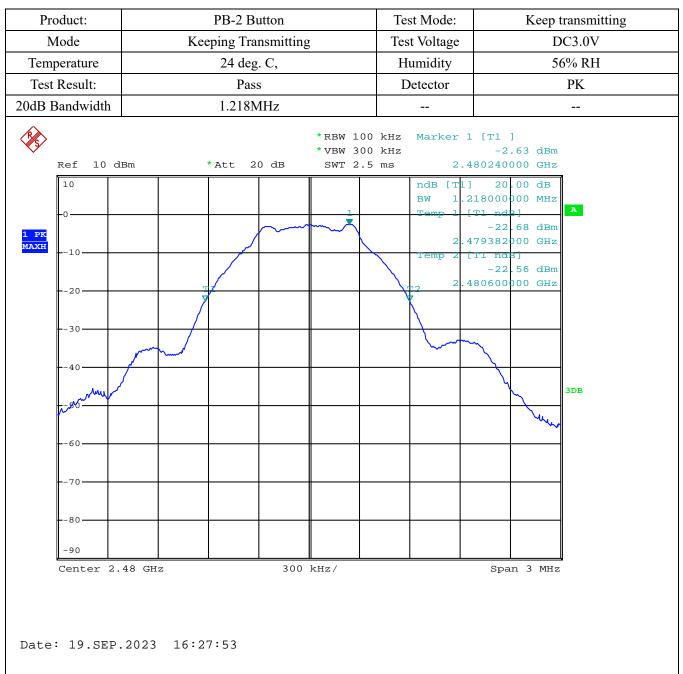




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## 10.0 FCC ID Label

## FCC ID: 2AZ5T-PB002

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

FCC Label Location

Mark Location:

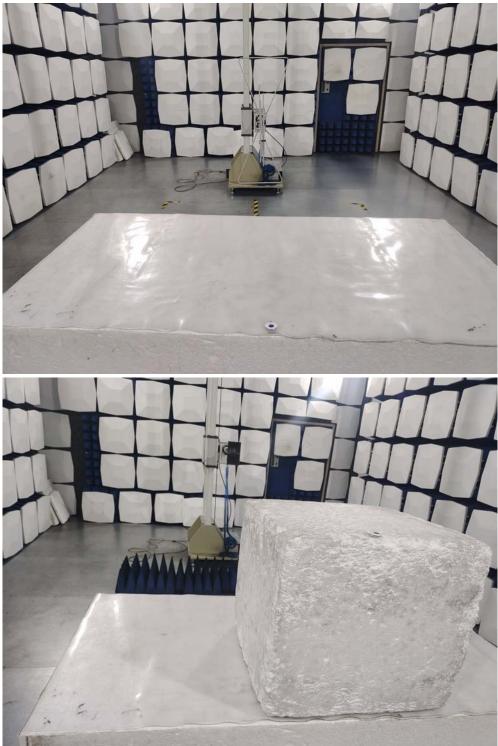
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#### 11.0 Photo of testing

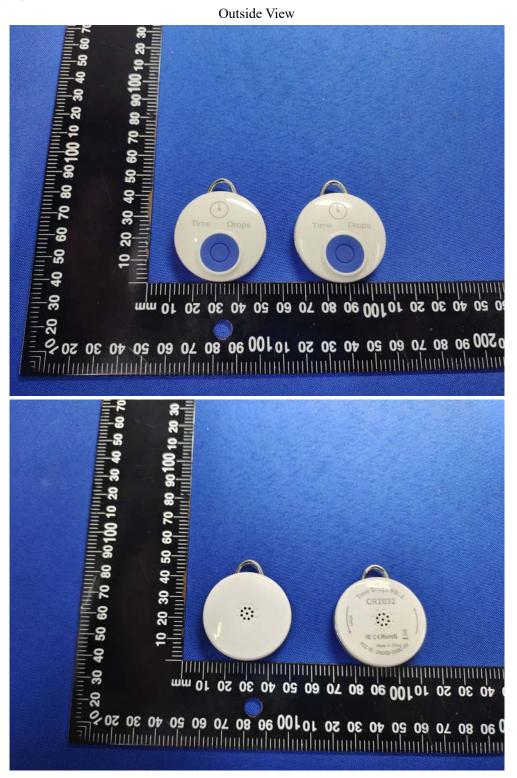
11.1 Radiated emission test view



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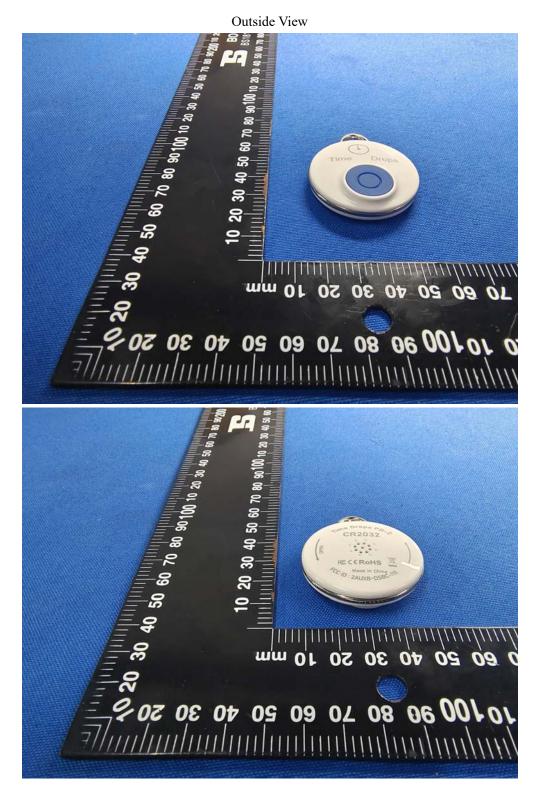
#### 11.2 Photographs – EUT



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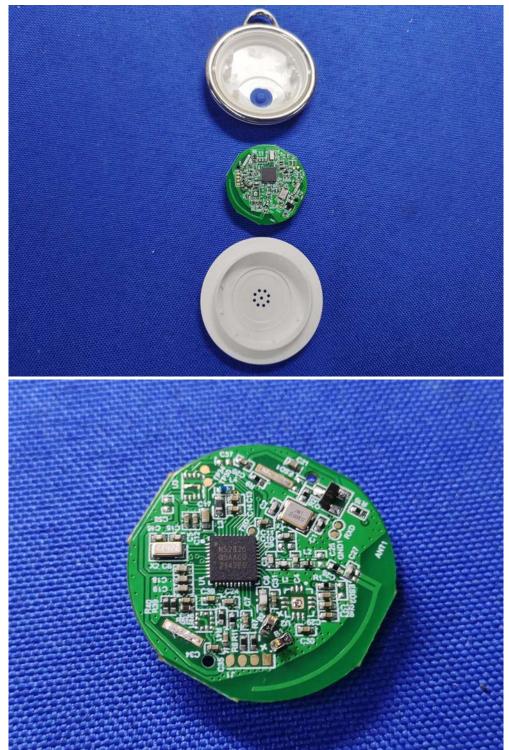


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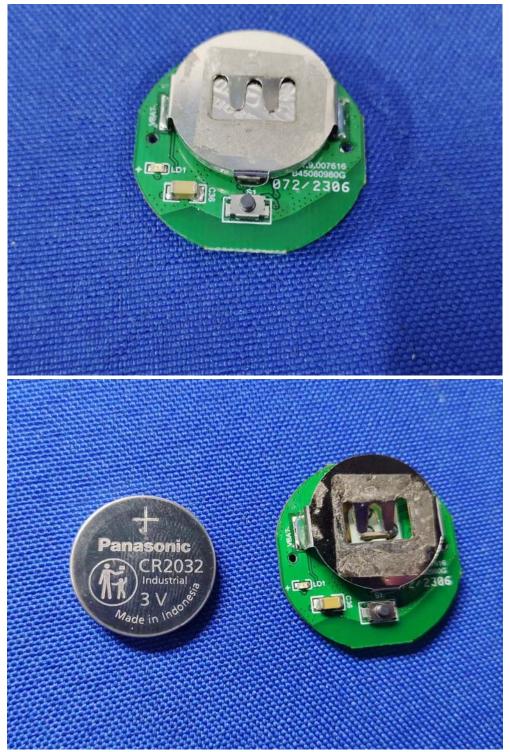
Inside View



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Inside View



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Inside View



--End of the report--

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