

Report No.:	TW2407202-02E
Applicant:	Eastern Times Technology Co.,Ltd
Product:	Mechanical Keyboard
Model No.:	Z-99, ET-7125, ET-7188, Z-99PRO
Trademark:	E-YOOSO
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

Term for

Terry Tang

Manager

Dated:

July 31, 2024

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

# CAB identifier: CN0033

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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
		Village, Nanshan District, Shenzhen, China
	Telephone:	(755) 83448688
	Fax:	(755) 83442996
	Site on File w	vith the Federal Communications Commission – United Sates
Registration Number: 744189		Number: 744189
For 3m Anechoic Chamber		

# 1.2 Applicant Details

Applicant:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,
	Guangdong, China.

1.3 Description of EUT

Description of LOT	
Product:	Mechanical Keyboard
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Trademark:	E-YOOSO
Additional Trademark:	N/A
Model Number:	Z-99
Additional Model Name	ET-7125, ET-7188, Z-99PRO
Hardware Version:	7125-A TX V1
Software Version:	0989
Serial No.:	Z992404000986
Rating:	DC5V, 600mA or DC3.7V, 300mA
Battery:	DC3.7V, 3000mAh Li-ion battery
Modulation Type:	GFSK
<b>Operation Frequency:</b>	2402-2480MHz (Bluetooth)
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

# 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration 2024-07-24 to 2024-07-31

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 - King

The sample tested by

Print Name: Terry Tang

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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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
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	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
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	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

#### 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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#### **3.0** Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
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	

#### **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

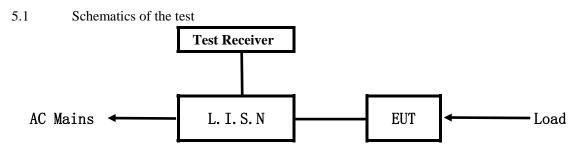
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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### 5. Power Line Conducted Emission Test



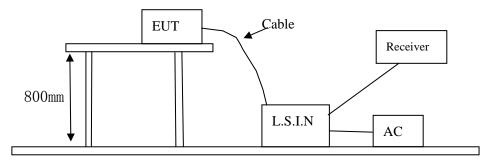
EUT: Equipment Under Test

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 500hm/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. 79 channels are provided to the EUT

A.	EUT

Device	Manufacturer	Model	FCC ID	
Machanical Kaybaand	Eastern Times	Z-99, ET-7125, ET-7188,	TUVET-7125A	
Mechanical Keyboard	Technology Co.,Ltd	Z-99PRO	1UVE1-/123A	

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B. Internal Device

2.	1110011141 200100			
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

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:

Pass

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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 FCC Part 15 CE-Class B AV 50 40 3 30 peak 20 AVG 10 0 -10 -20 (MHz) 30.000 0.150 Frequency Reading Factor Level Limit Margin Detector

NO.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Deteolo	1 /1
1	0.2943	17.52	9.76	27.28	60.40	-33.12	QP	Ρ
2	0.2943	14.94	9.76	24.70	50.40	-25.70	AVG	Ρ
3	0.8676	23.98	9.79	33.77	56.00	-22.23	QP	Ρ
4	0.8676	13.38	9.79	23.17	46.00	-22.83	AVG	Ρ
5	2.8488	11. <mark>6</mark> 5	9.84	21.49	56.00	-34.51	QP	Ρ
6	2.8488	-1.02	9.84	8.82	46.00	-37.18	AVG	Ρ
7	21.9735	15.89	10.80	26.69	60.00	-33.31	QP	Р
8	21.9735	10.70	10.80	21.50	50.00	-28.50	AVG	Ρ

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**B**: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Atmospheric Pressure: 101 kPa Temperature: 25℃ Humidity: 65%RH EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 FCC Part 5 CE-Class B AV 50 40 30 peak 20 AVG 10 0 -10 -20 0.150 (MHz) 30.000 Frequency Reading Factor Level Limit Margin Detector P/F No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB)1 0.4347 19.58 9.77 29.35 57.16 -27.81 QP Ρ 2 0.4347 16.62 9.77 26.39 47.16 -20.77AVG Ρ 3 0.8442 27.88 37.66 Ρ 9.78 56.00 -18.34 QP Ρ 4 0.8442 15.37 9.78 25.15 46.00 -20.85 AVG Ρ 5 2.1624 13.85 9.81 23.66 56.00 -32.34 QP Ρ 6 2.1624 5.61 9.81 15.42 46.00 -30.58 AVG

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14.41

9.40

7

8

21.9813

21.9813

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10.80

10.80

25.21

20.20

60.00

50.00

-34.79

-29.80

QP

AVG

Ρ

Ρ

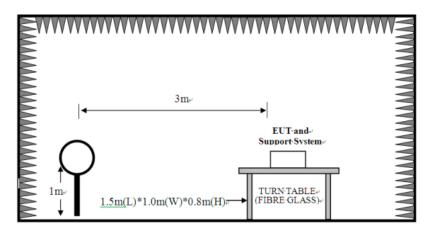


### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) 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 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (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

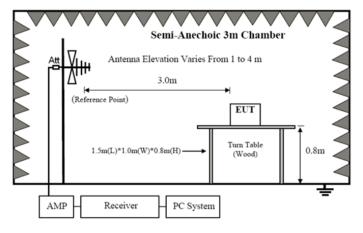


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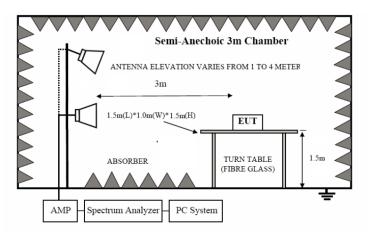
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For radiated emissions from 30MHz to1GHz



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.

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# 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:

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

Fundamental Frequency	Field Strength of Fundamental (3m)Field Strength of Harmonics (3m)					nics (3m)	
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/m		
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

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

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

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

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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.

6. Battery full charged during tests.

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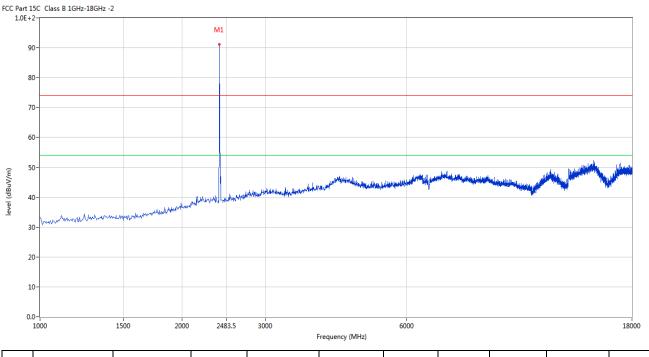


# 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

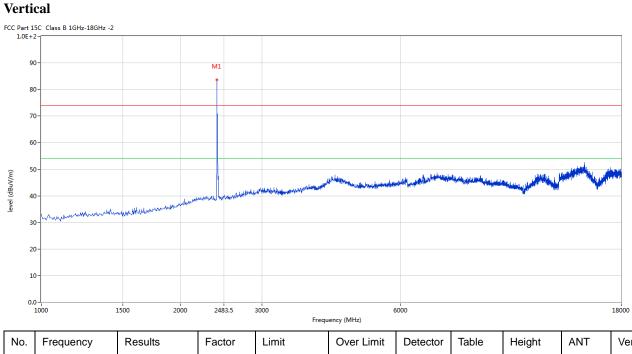


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	91.10	-3.57	114.0	-22.90	Peak	258.00	100	Horizontal	Pass

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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	2402	83.63	-3.57	114.0	-30.37	Peak	343.00	100	Vertical	Pass

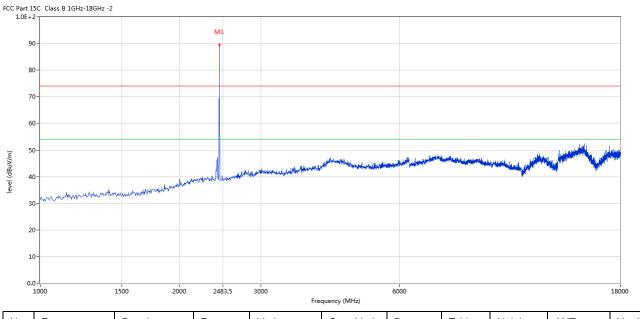
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# Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal

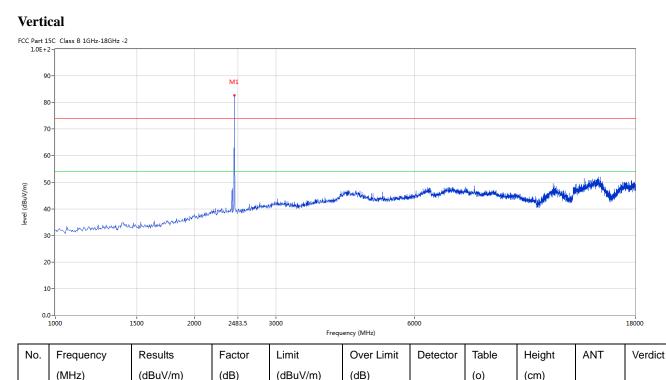


No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.39	-3.57	114.0	-24.61	Peak	88.00	100	Horizontal	Pass

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-31.25

349.00

100

Vertical

Pass

Peak

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

82.75

-3.57

114.0

2441

1

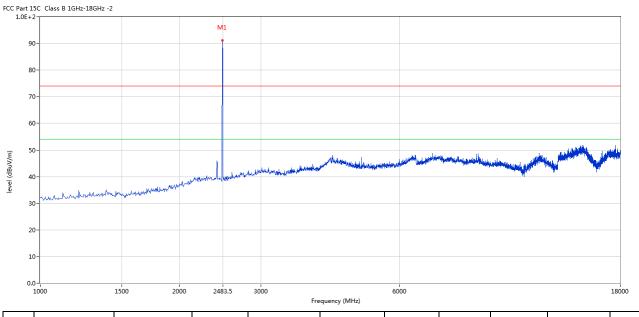
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# Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

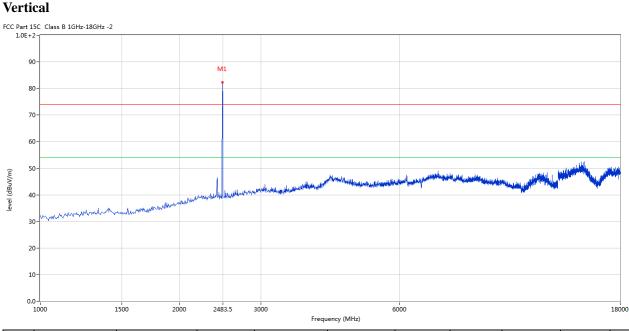


No	o. Fre	equency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(M	1Hz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	24	480	91.13	-3.57	114.0	-22.87	Peak	259.00	100	Horizontal	Pass

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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	82.34	-3.57	114.0	-31.66	Peak	197.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3) Margin=Emission-Limits

- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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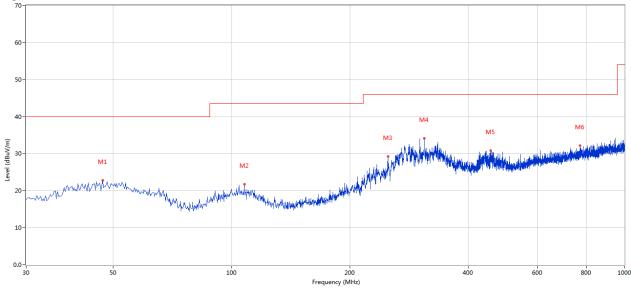
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15B 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	46.971	22.83	-11.45	40.0	17.17	Peak	67.00	100	Horizontal	Pass
2	107.823	21.81	-13.41	43.5	21.69	Peak	360.00	100	Horizontal	Pass
3	249.893	29.29	-12.08	46.0	16.71	Peak	67.00	100	Horizontal	Pass
4	309.290	34.09	-10.79	46.0	11.91	Peak	77.00	100	Horizontal	Pass
5	455.966	30.82	-7.95	46.0	15.18	Peak	291.00	100	Horizontal	Pass
6	771.622	32.21	-3.24	46.0	13.79	Peak	77.00	100	Horizontal	Pass

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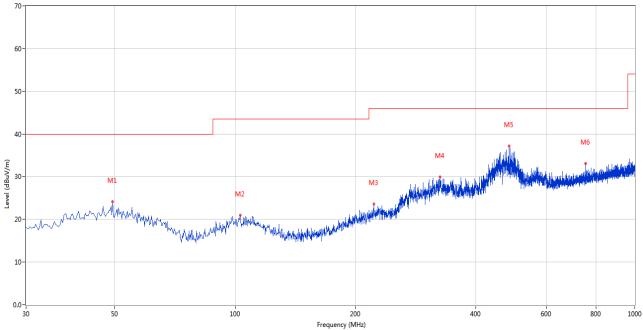
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

#### Please refer to following diagram for individual

FCC\_FCC Part 15B 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	49.395	24.15	-11.28	40.0	15.85	Peak	136.00	100	Vertical	Pass
2	102.974	20.97	-13.38	43.5	22.53	Peak	199.00	100	Vertical	Pass
3	222.254	23.60	-13.21	46.0	22.40	Peak	196.00	100	Vertical	Pass
4	325.291	29.94	-10.39	46.0	16.06	Peak	11.00	100	Vertical	Pass
5	484.089	37.21	-7.35	46.0	8.79	Peak	146.00	100	Vertical	Pass
6	753.924	33.04	-3.40	46.0	12.96	Peak	104.00	100	Vertical	Pass

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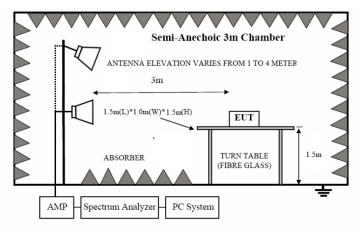


### 7. Band Edge

### 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

	Product:	Me	Mechanical Keyboard				Horizontal				
Mode		Kee	Keeping Transmitting			Test Voltage		DC3.7V			
Temperature Test Result:			Hu	midity	56% RH						
			24 deg. C, Pass								
2 Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								_	
1.021	-							N	M1		
9	0-							ſ	1		
8	0-								$\rightarrow$	_	
7	0-									_	
6	0-							M2	1		
5	0-							•			
	M3										
4	0-										
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3 2 1 0.	0- 			Fri	equency (MHz)					r	
3 2 1 0.	0- 0- 0- 2350 Frequency	Results	Factor	Fr Limit	equency (MHz)		Table	Height	ANT	ſ	
3 2 1 0.	0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	Verdi	
3 2 1 0.	0- 0- 0- 2350 Frequency	Results	Factor	Fr Limit	equency (MHz)		Table	-		r	
3 2 1 0. <b>NO.</b>	0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	Verdi	
3 2 1 0. <b>No.</b>	Frequency (MHz)   2402.487	Results (dBuV/m) 90.88	Factor (dB) -3.57	Fri Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 16.88	Detector	Table (o) 260.00	(cm) 100	ANT Horizontal	Verdie N/A	

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-	Product:	Me	Det	Detector		Vertical				
	Mode	Ke	Test	Test Voltage		DC3.7V				
Temperature			24 deg. C,				56% RH			
Te	est Result:	Pass				Humidity 		-		
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2			I					
g	90-							м	1	
8	30-							/^*	Y	
7	70-							/		
	50 -							(	$\sim$	
C									$\rightarrow$	
5	50 -							M2		
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- 4 3 2 1	Ummi /h high	Results	Factor				Table	Height	ANT	2410
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4 3 2 1 0	00- 00- 00- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	uniter of the last		_	· · · · · · · · · · · · · · · · · · ·	2410
3 2 1 0 No.	Unit A fail and a fail with a fail of the	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(o)	(cm)	ANT	2410 Verdic
4	Image: Arrive	Results (dBuV/m) 83.34	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Trequency (MHz) Over Limit (dB) 9.34	Detector	(o) 338.00	(cm) 100	ANT	2410 Verdic

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1	Product:	M	Keyboard		Polarity			Horizontal					
	Mode	K	Т	Test Voltage		DC3.7V							
Te	mperature	24 deg. C,				Humidity	56% RH						
	est Result:		Pas	S									
	15C Class B 1GHz-18GHz	-2											
1.0E+	-2-		M1										
9	90-		w da	N.									
8	30-		- N	- Nu -									
7	70-			Ku									
6	50 -												
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4 3 2 1 0. No.	10	Results (dBuV/m) 90.79	(dB) -3.57	2483.5 Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 16.79	Detector Peak	Table (o) 258.00	Height (cm) 100	ANT Horizontal	2500 Verdic			
للسرامي ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع	10	Results (dBuV/m)	(dB)	2463. Limit (dBuV/m)	5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic			

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	Product:	Mec	D	etector		Ver	tical			
	Mode	Keeping Transmitting				t Voltage		DC	3.7V	
Temperature		24 deg. C,				umidity		56%	6 RH	
Test Result:			Pass					-		
CC Part : 1.0E+	15C Class B 1GHz-18GHz - -2-	2			•					
ġ	90-		M1							
8	30 -		1 mil	Σ						
7	70-		1	N N N N N N N N N N N N N N N N N N N						
6	50 -		/	<u>N</u>						
(w/\n	50-	- Mark		V M2						
evel (dbuV/m)	10-	مراجع المراجع ا		~	www.commenterlanderlander	halbailden en tairn an air bhreigi	terre viewaystradilityraturaterat	لمراسب والقول فجرر بالانتاج وطروا	avallaataanda hadaanada	and the second
eve	and the second second									
	30-									
-	20-									
- 3										
- 3	20			2025						
- 3	10-			2483.5 Fre	quency (MHz)					2500
: 2 t 0	20	Results	Factor		<sup>quency (MHz)</sup> Over Limit	Detector	Table	Height	ANT	
: 2 t 0	20	Results (dBuV/m)	Factor (dB)	Fre		Detector	Table (o)	Height (cm)	ANT	
- 3	20- 10- 2470 Frequency			Fre Limit	Over Limit	Detector Peak		-	ANT	2500 Verdic

Note: 1. 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 with gain 2.34dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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Product:	Mechani	cal Keyboard	Test Mode:		Keep transmitting			
Mode		Transmitting	Test Voltage		DC3.7V			
Temperature		deg. C,		Humidi		56% RH		
Test Result:		Pass		Detecto	-		PK	
20dB Bandwidth		52MHz						
6 <b>)</b>	Delta 1 [5	F1]	RBW	30 k	Hz	RF Att	20 dB	
Ref Lvl		-0.06 dB	VBW	100 k	Hz			
10 dBm	1.05	5210421 MHz	SWT	8.5 m	ເຮ	Unit	dBn	n
10				<b>v</b> 1	[T1]	-2	0.29 dBm	A
			2			2.4014	3788 GHz	-
0		$\sim$	ĺγ.	<b>▲</b> 1	[T1]	-	0.06 dB	
		$ \land \downarrow $	$\sim$	▼ 2		1.0521		
-10			W V		[T1]	2 4019	0.82 dBm 9699 GHz	
	1,			1		2.1019		
-20	dBm //			~~~				
1MAX	$\sim$			<u>کر</u>	4			181
-30	$\sim$							
· · · · · · · · · · · · · · · · · · ·					$\sim$	$\sim$		
-40						W \		
Mark Contraction						$\sim$	$h \sim$	
-50								
							V	
-60								
-70								
-80								
-90			_					
Center 2.40	2 GHz	300	kHz/			Spa	an 3 MHz	

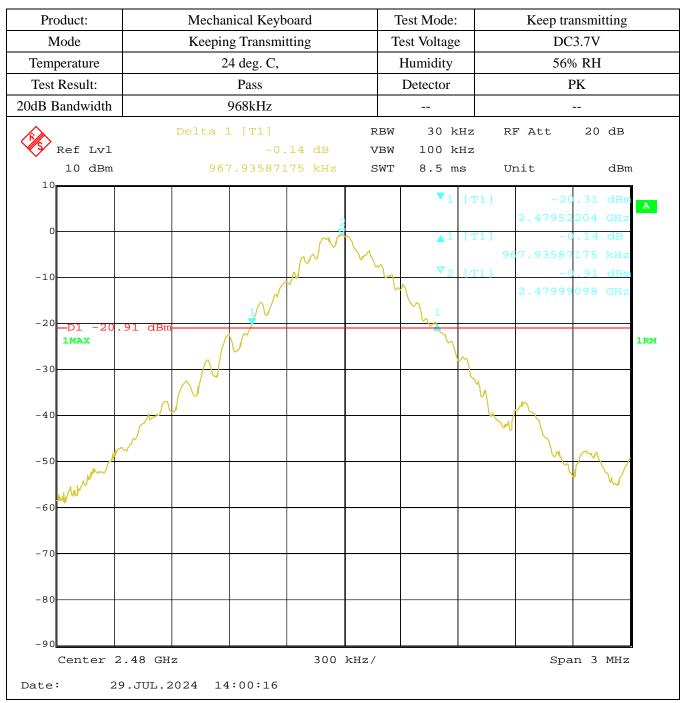
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Product:	Mechanical Keyboard					Test Mode:		Keep transmitting		
Mode	Keeping Transmitting					Test Voltage		DC3.7V		
Temperature	24 deg. C, Pass 1.016MHz					Humidit	у	56% RH		
Test Result:						Detecto	r	]	PK	
OdB Bandwidth										
k k k k k k k k k k k k k k k k k k k		Delta 1	[T1]		RBW	30	kHz	RF Att	20 dB	
Ref Lvl				50 dB	VBW		kHz			
10 dBm 10		1	.016032	206 MHz	SWT	8.5	ms	Unit	dBn	n
10						•	1 [T1]	-20	.61 dBm	A
0				2	2			2.44047	395 GHz	
0				$\sim$	Ν.		1 [T1]	1 01 00 0	2.50 dB	
				$\wedge$	M.	$\nabla$	2 [T1]	1.01603	206  MHz	
-10				<b>J</b> *				2.44099	699 GHz	
-20 <mark>0120</mark> .	76 dBm						_			
-30			$\mathcal{I}$				My .			1RM
	$\sim$	$\leq$								
-40									~	
-50									$\checkmark$	
-60										
-70										
-80										
-90										
Center 2	.441 GH 9.JUL.2		:07:18	300	kHz/			Spa	an 3 MHz	

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### 10.0 FCC ID Label

### FCC ID: TUVET-7125A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

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.

### Mark Location:



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#### 11.0 Photo of testing

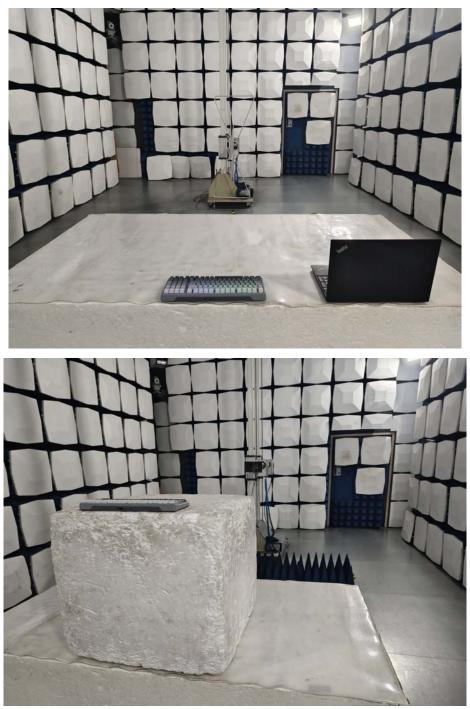
11.1 Conducted test View--



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Radiated emission test view



#### **Photographs – EUT**

Please refer test report TW2407202-01E

#### --End of the report--

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