

Report No.:	TW2307030-02E
Applicant:	Eastern Times Technology Co.,Ltd
Product:	Mechanical Keyboard
Model No.:	Z-94, ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940
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	
Terry Tong	

Terry Tang

Manager

Dated:

October 26, 2023

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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Test Report Conclusion Content

	content	
1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
7.0	Band Edge	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
8.0	Antenna Requirement	28
9.0	20dB bandwidth measurement	29
10.0	FCC ID Label	33
11.0	Photo of Test Setup and EUT View	34

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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 with the Federal Communications Commission – United Sates
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:Eastern Times Technology Co.,LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,
Guangdong, China.Telephone:--Fax:--

1.3 Description of EUT

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			
Model Number:	Z-94			
Additional Model Name	ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940			
Rating:	Input: DC5V, 700mA			
Battery:	DC3.7V, 2500mAh Li-ion battery			
Hardware Version:	8907-A TX V1			
Software Version:	3699			
Serial No.:	8941B230600731			
Operation Frequency:	2402-2480MHz			
Modulation Type:	GFSK			
Number of Channels:	79			
Channel Separation:	1MHz			
Antenna Designation	PCB antenna with gain -7.30dBi maximum (Get from the antenna			
	specification)			

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1.4 Submitted Sample: 2 Samples

- 1.5 Test Duration 2023-07-04 to 2023-10-26
- 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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adopt any other remedies which may be appropriate.



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 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	
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

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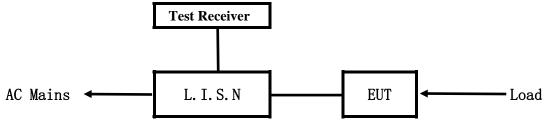
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

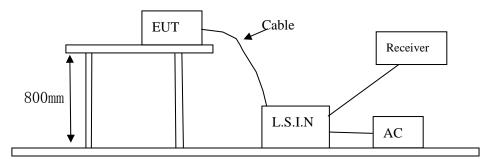


EUT: Equipment Under Test

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. 79 channels are provided to the EUT

A.	EUT
	201

Device	Manufacturer	Model	FCC ID
Mechanical Keyboard	Eastern Times Technology Co.,Ltd	Z-94, ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940	TUVET-8907A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC

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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:

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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging + Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class C_QP 60 FCC Part 5 CE-Class C_AVe 50 40 30 neal 20 AVG 10 0 -10 -20 30.000 0.150 (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1720	28.72	9.77	38.49	54.86	-16.37	AVG	Ρ
2	0.1730	42.51	9.77	52.28	64.82	-12.54	QP	Ρ
3	0.4600	25.67	9.77	35.44	<mark>56.69</mark>	-21.25	QP	Ρ
4	0.4600	19.49	9.77	29.26	46.69	-17.43	AVG	Ρ
5	4.1 <mark>6</mark> 20	16.54	9.89	26.43	<u>56.00</u>	-29.57	QP	Ρ
6	4.2210	7.29	9.90	17.19	46.00	-28.81	AVG	Ρ
7	16.6110	19.58	10.48	30.06	60.00	-29.94	QP	Ρ
8	16.6980	14.48	10.48	24.96	50.00	-25.04	AVG	Ρ

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa **EUT set Condition: Charging + Communication by BT Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class C_QP 60 FCC Part 5 CE-Class C_AVe 50 40 30 peal AVG 20 10 0 -10 -20 0.150 (MHz) 30.000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1760	28.30	9.77	38.07	54.67	-16.60	AVG	Ρ
2	0.1770	40.60	9.77	50.37	64.63	-14.26	QP	Ρ
3	0.8150	15.41	9.78	25.19	46.00	-20.81	AVG	Ρ
4	0.8160	19.27	9.78	29.05	56.00	-26.95	QP	Ρ
5	4.4320	7.51	9.91	17.42	46.00	-28.58	AVG	Ρ
6	4.4780	16.04	9.91	25.95	56.00	-30.05	QP	Ρ
7	16.4450	14.63	10.47	25.10	50.00	-24.90	AVG	Ρ
8	16.4960	19.73	10.47	30.20	60.00	-29.80	QP	Ρ

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6 Radiated Emission Test

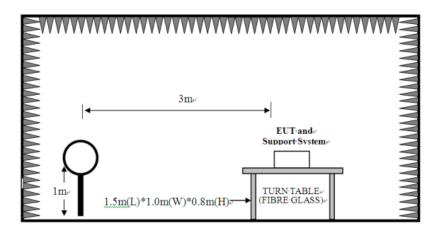
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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

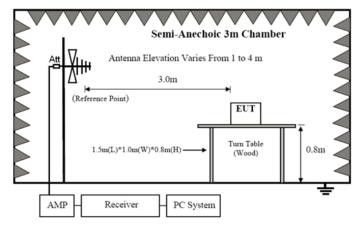


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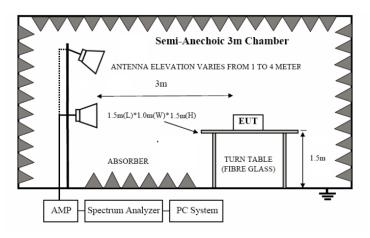
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For radiated emissions from 30MHz to1GHz



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.
- 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:

Α	FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m	

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2400-2483.5		50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	$= 20 \log \text{RF Volt}$	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.

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

-	4	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log \text{RF}$ 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. Battery fully charged was used during the test.

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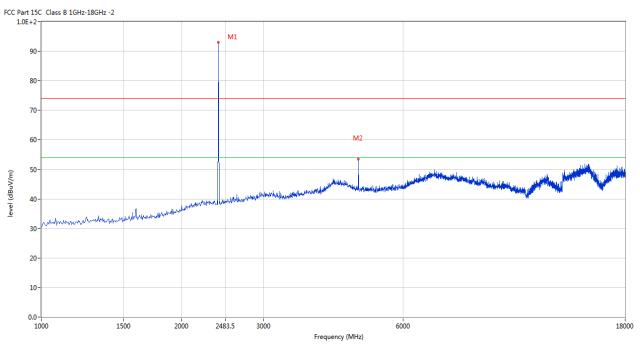
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

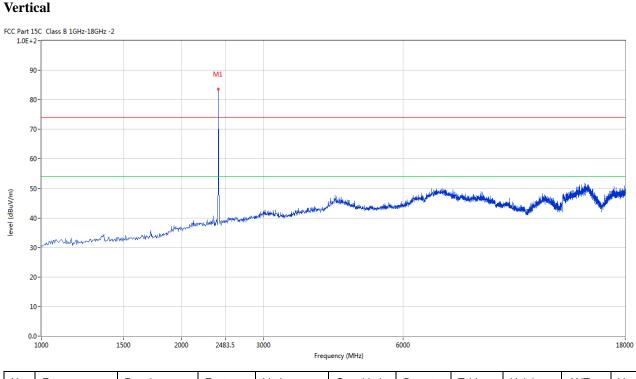


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	93.06	-3.57	114.0	-20.94	Peak	103.00	100	Horizontal	Pass
2	4802.799	53.80	3.12	74.0	-20.20	Peak	82.00	100	Horizontal	Pass

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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	83.58	-3.57	114.0	-30.42	Peak	339.00	100	Vertical	Pass

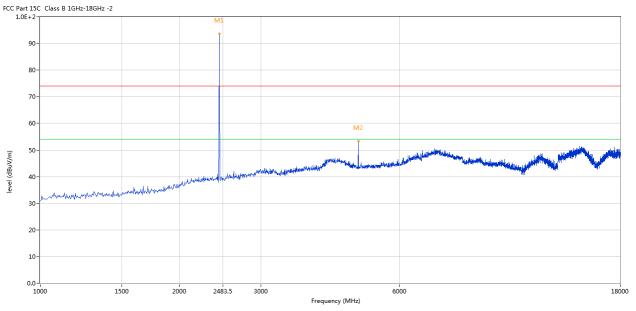
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	93.63	-3.57	114.0	-20.37	Peak	265.00	100	Horizontal	Pass
2	4879.280	53.61	3.20	74.0	-20.49	Peak	260.00	100	Horizontal	Pass

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2441

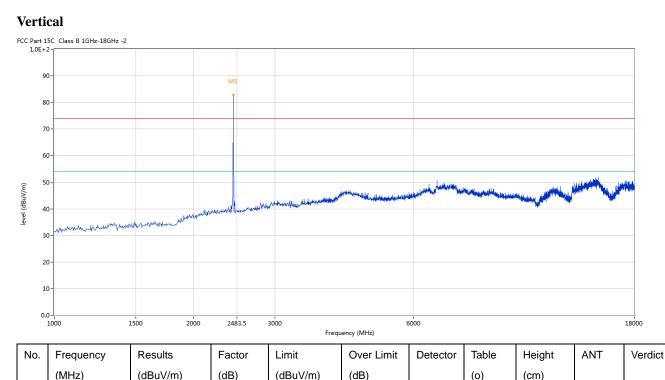
1

82.86

-3.57

114.0





-31.14

182.00

100

Vertical

Pass

Peak

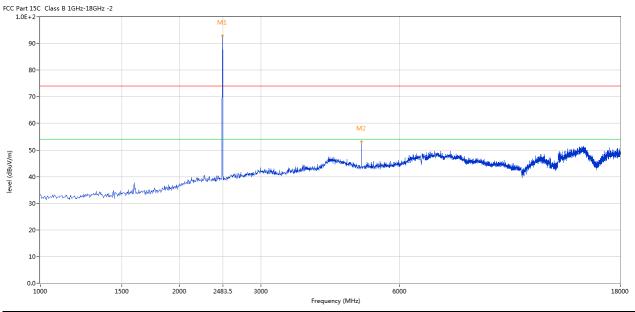
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

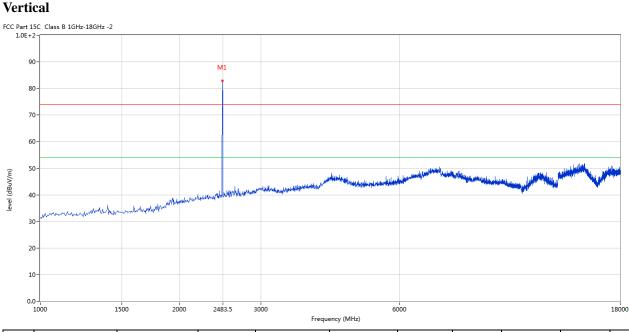


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	93.17	-3.57	114.0	-20.83	Peak	86.00	100	Horizontal	Pass
2	4960.010	53.69	3.36	74.0	-20.31	Peak	101.00	100	Horizontal	Pass

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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	82.87	-3.57	114.0	-31.13	Peak	11.00	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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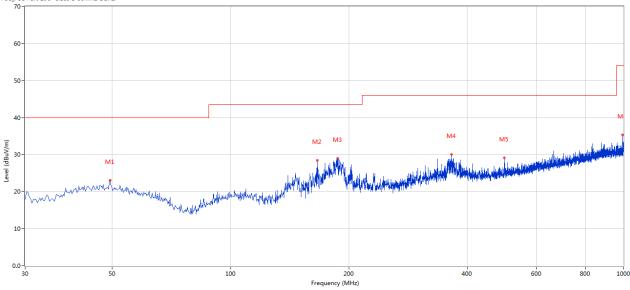
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	49.395	23.11	-11.28	40.0	16.89	Peak	217.00	100	Horizontal	Pass
2	166.008	28.52	-16.10	43.5	14.98	Peak	266.00	100	Horizontal	Pass
3	187.586	28.98	-14.54	43.5	14.52	Peak	208.00	100	Horizontal	Pass
4	365.536	30.12	-9.45	46.0	15.88	Peak	360.00	100	Horizontal	Pass
5	497.908	29.12	-7.12	46.0	16.88	Peak	275.00	100	Horizontal	Pass
6	995.636	35.38	-1.26	54.0	18.62	Peak	290.00	100	Horizontal	Pass

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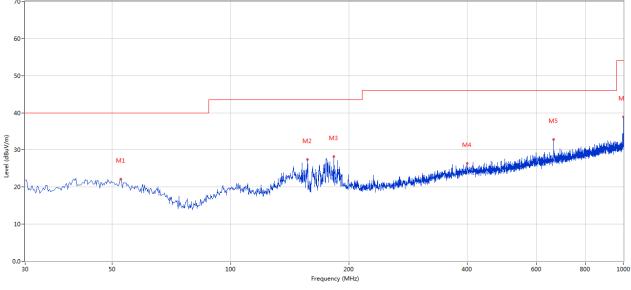
Radiated Emission In Vertical (30MHz----1000MHz)

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	52.547	22.20	-11.46	40.0	17.80	Peak	53.00	100	Vertical	Pass
2	157.038	27.47	-16.59	43.5	16.03	Peak	203.00	100	Vertical	Pass
3	182.979	28.16	-14.94	43.5	15.34	Peak	231.00	100	Vertical	Pass
4	399.963	26.38	-8.57	46.0	19.62	Peak	210.00	100	Vertical	Pass
5	663.737	32.81	-4.42	46.0	13.19	Peak	70.00	100	Vertical	Pass
6	999.030	38.90	-1.14	54.0	15.10	Peak	357.00	100	Vertical	Pass

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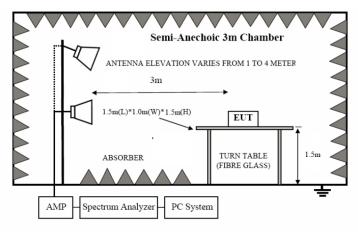


7. Band Edge

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

J	Product:	N	Aechanical	Keyboard		Polar	ity		Horizontal			
	Mode	ŀ	Keeping Transmitting			Test Vo	ltage		DC3.7V			
Te	mperature	erature 24 deg. C,			Humidity		Humidity			56% RH	RH	
Te	est Result:		Pas	SS								
	rt 15C Class B 1GHz-18G E+2	Hz -2						M2	MI			
level (dBuV/m)	40- 30- 20- 10-	illerileviewisedenterileter	96.1951.990.2971.09 .40.40	eisthinni ja taan tulilli	llyiaitantaatabaatiintiintiintiintiintiintiintiintiinti		8ª Liliul yang kad	Hillin M				
	40- 30- 20- 10-	ill sélesépesépesépesépesépesépesépesépesépesép	y, i g f. j g n. k j i j h u g /u	eistikinni ja taan tukku	Frequency (MHz)					2410		
	40- 30- 20- 10- 2350 Frequency	Results	Factor	Limit	Over Limit		Table	Height	ANT			
No.	40- 30- 20- 10- 2350 Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector	Table (o)	(cm)		Verdi		
No.	40- 30- 20- 10- 2350 Frequency				Over Limit	ar dhikakida dha	Table		Horizontal			
No. 1	40- 30- 20- 10- 2350 Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector	Table (o)	(cm)		Verdio		
No. 1	40- 30- 20- 10- 2350 Frequency (MHz) 2402.172	(dBuV/m) 92.22	(dB) -3.57	(dBuV/m) 74.0	Over Limit (dB) 18.22	Detector Peak	Table (0) 76.00	(cm) 100	Horizontal	Verdie N/A		
No.	40- 30- 20- 10- 2350 Frequency (MHz) 2402.172 2400.000	(dBuV/m) 92.22 66.40	(dB) -3.57 -3.57	(dBuV/m) 74.0 74.0	Over Limit (dB) 18.22 -7.60	Detector Peak Peak	Table (o) 76.00 100.57	(cm) 100 100	Horizontal Horizontal	Verdio N/A Pass		

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	Product:	N	Aechanical	Keyboard		Detect	or		Vertical	
	Mode	Keeping Transmitting				Test Voltage			DC3.7V	
Te	mperature		24 deg. C,			Humidity			56% RH	
Te	est Result:		Pa	SS						
C Part 1 1.0E+	15C Class B 1GHz-18GHz +2-	: -2								
c	90-									
2									M1	
8	30 -								\wedge	
7	70-							/		
e	50 -									
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Ę 5	50-					M	3	M2		
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3 2 1	best locipality work for the second	Results	Factor	Limit		Detector	Table	Height	ANT	24
3 2 1 0	batiletinitik politikation 30 - 20 - 10 - 2350				Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	24
3 2 1 0	Institution Institution 300	Results	Factor	Limit	Frequency (MHz)	Detector			ANT	24 Verdic N/A
3 1 0 No.	batiletina life positive stations 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)		(0)	(cm)		24 Verdic
3 2 1 0 No.	Frequency (MHz) 2401.872	Results (dBuV/m) 83.34	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 9.34	Peak	(o) 188.00	(cm) 100	Vertical	24 Verdic N/A
3 2 1 0. No.	backbackbackbackbackbackbackbackbackback	Results (dBuV/m) 83.34 60.46	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 9.34 -13.54	Peak Peak	(o) 188.00 188.00	(cm) 100 100	Vertical Vertical	24 Verdic N/A Pass

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	Product:		Mechanic	al Keyboard		Po	olarity		Horizont	al
	Mode		Keeping 7	Fransmitting		Test	Voltage		DC3.7V	1
Te	emperature		24 d	leg. C,		Hu	midity		56% RH	ł
	est Result:			ass						
	15C Class B 1GHz-18GH	z -2								
1.0E-	90 -		م المسلسل المحلسل							
;	80-			W						
:	70-			W.						
	60-	لول		Novel,	L.					
				M2	- Judy hay					
Ê	50-				N.L.					
(dBuV/m)	40	المعلم		•	Mary Mary					
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level (dBuV/m	40- addissippers disable that 30- 20-	una materia de la constitución de l		•	Mar Mar Market	in der stander und gestand och	Hen Hen artister un sei	n in seeksen alle state of	pelallilagian ai un	allel da fi fotti anna
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level (dBuV/m	40- 30- 20- 10- 2470 Frequency	Results	Factor	Limit	.5 Frequency (MHz) Over Limit	Detector	Table	Height	ANT	250 Verdic
level (dBuV/m	40- 	Results (dBuV/m)	(dB)	Limit (dBuV/m)	.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	25 Verdic
level (dBuV/m	40- 30- 20- 10- 2470 Frequency	Results		Limit	.5 Frequency (MHz) Over Limit		Table	-		25
M/MBD Isosof	40- 	Results (dBuV/m)	(dB)	Limit (dBuV/m)	.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	250 Verdia

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]	Product:			Keyboard		Detec			Vertical	
	Mode	ŀ		ansmitting	Test Voltage				DC3.7V	
Te	mperature		24 de	g. C,	Humidity 5			56% RH		
Te	est Result:		Pa	SS						
	t 15C Class B 1GHz-18GH E+2- 90- 80- 70-	iz -2	M1							
	60-			<u> </u>						
level (dBuV/m)	50- 50- 40- 30- 20-	And has not been a ball a ball a star		M2	Var hunsen of the official particular	Habbau Habbau Ardeala	kan Latan kana	duar Maraa Aldah da Mayoo	s, and performance of the	N ^{ileon} t i kolta
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_	50- 40	Results	Factor	2483.5	;	Detector	Table	Height	ANT	
	50- 40- 20- 10- 2470	Results (dBuV/m)	Factor (dB)	2483.5	; Frequency (MHz)	T	L		ANT	
	50- 40- 20- 10- 2470 Frequency			2483.5 Limit	Frequency (MHz)	T	Table	Height	ANT	2500 Verdic

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

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



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 -7.30dBi maximum. 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

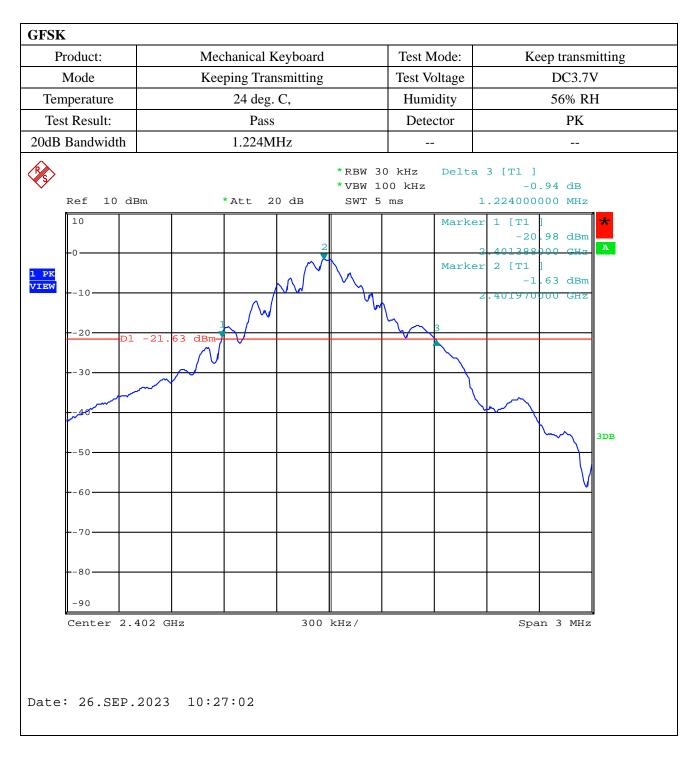
N/A

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Test Result



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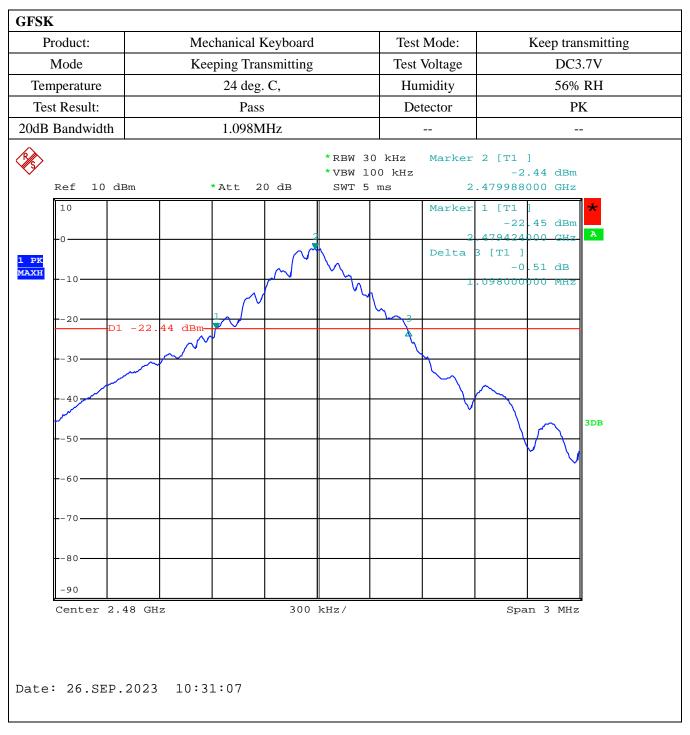
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Product:	Mechanical Keyboard	l Tes	st Mode:	Keep transmitting	
Mode	Keeping Transmitting		t Voltage	DC3.7V	
Temperature	24 deg. C,	Hu	umidity	56% RH	
Test Result:	Pass	D	etector	РК	
20dB Bandwidth	Bandwidth 1.170MHz				
Ref 10 df		* RBW 30 kHz * VBW 100 kHz SWT 5 ms	1.1 Marker 1 2 4 Marker 2		
				3DB	
-90					
Center 2.4	441 GHz 300	kHz/		Span 3 MHz	

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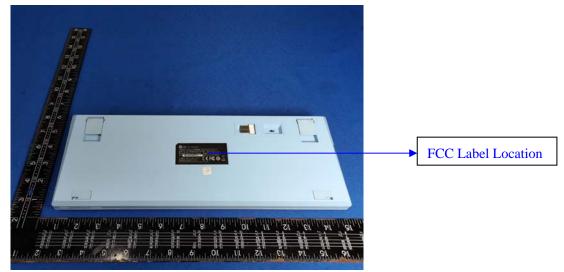
10.0 FCC ID Label

FCC ID: TUVET-8907A

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



11.2 Photographs – EUT

Please refer test report TW2307030-01E

--End of the report--

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