



Report No.: File reference No.:	TW2202167-03E 2022-03-10
Applicant:	Eastern Times Technology Co.,Ltd
Product:	Four-in-one mode RGB Mechanical Keyboard
Model No.:	Z-686, Z-686RGB, ET-8538, K686, K-686RGB, ET-8539, ET-8744, ET-8745, ET-8755, ET-8677, ET-8678
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 Tang	
Terry Tang	
Manager	
Dated:	March 10, 2022

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:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

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 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:	Four-in-one mode RGB 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-686
Additional Model Name	Z-686RGB, ET-8538, K686, K-686RGB, ET-8539, ET-8744, ET-8745, ET-8755,
	ET-8677, ET-8678
Serial No.:	8538W210700128
Rating:	DC5V or 3.7V, 660mA or 216mA
Battery:	DC3.7V, 1900mAh Li-ion battery
Modulation Type:	GFSK, Bluetooth Low Energy (BLE)
Operation Frequency:	2402-2480MHz
Channel Separate:	2MHz
Channel Number:	40
Antenna Designation	PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 1 pc

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1.5 Test Duration 2022-02-25 to 2022-03-09

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

The sample tested by

Andy -Xing

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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

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.



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	Pass
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

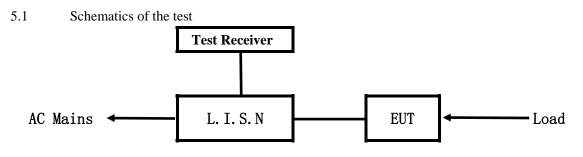
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5. Power Line Conducted Emission Test



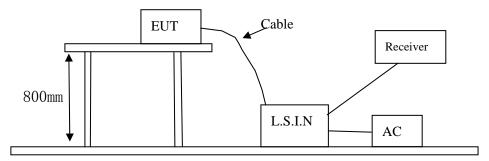
EUT: Equipment Under Test

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. 40 channels are provided to the EUT

Device	Manufacturer	Model	FCC ID
Four-in-one mode RGB Mechanical Keyboard	Eastern Times Technology Co.,Ltd	Z-686, Z-686RGB, ET-8538, K686, K-686RGB, ET-8539, ET-8744, ET-8745, ET-8755, ET-8677, ET-8678	TUVET-8538

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B. Internal Device

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

C. Peripherals

Device	Manufacturer	Model	Rating
PC	Dell	P54G	

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: Keep Bluetooth Transmitting 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_AV 50 40 peak 30 AVG 20 10 0.0 30.000 0.150 (MHz) Reading Factor Level Limit Frequency Margin

No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	P/F
1	0.1773	46.15	9.77	55.92	64.61	-8.69	QP	Ρ
2	0.1773	28.15	9.77	37.92	54.61	-16.69	AVG	Ρ
3	0.2982	31.35	9.76	41.11	60.29	-19.18	QP	Ρ
4	0.2982	11.77	9.76	21.53	50.29	-28.76	AVG	Ρ
5	0.6765	33.01	9.78	42.79	56.00	-13.21	QP	Ρ
6	0.6765	23.55	9.78	33.33	46.00	-12.67	AVG	Ρ
7	1.9050	26.49	9.80	36.29	56.00	-19.71	QP	Ρ
8	1.9050	19.79	9.80	29.59	46.00	-16.41	AVG	Ρ
9	4.5405	23.13	<mark>9.9</mark> 1	33.04	56.00	-22.96	QP	Ρ
10	4.5405	13.55	9.91	23.46	46.00	-22.54	AVG	Ρ
11	18.4947	32.56	10.59	43.15	60.00	-16.85	QP	Ρ
12	18.4947	26.11	10.59	36.70	50.00	-13.30	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	48.44	9.77	58.21	65.18	-6.97	QP	Ρ
2	0.1655	33.55	9.77	43.32	55.18	-11.86	AVG	Р
3	0.2085	41.01	9.75	50.76	63.26	-12.50	QP	Р
4	0.2085	23.20	9.75	32.95	53.26	-20.31	AVG	Р
5	0.6570	34.03	9.78	43.81	56.00	-12.19	QP	Р
6	0.6570	24.46	9.78	34.24	46.00	-11. <mark>7</mark> 6	AVG	Ρ
7	1.3746	29.46	9.79	39.25	56.00	-16.75	QP	Р
8	1.3746	22.08	9.79	31.87	46.00	-14.13	AVG	Р
9	4.0608	24.85	9.89	34.74	56.00	-21.26	QP	Ρ
10	4.0608	16.37	9.89	26.26	46.00	-19.74	AVG	Р
11	16.9814	31.75	10.50	42.25	60.00	-17.75	QP	Р
12	16.98 <mark>1</mark> 4	24.24	10.50	34.74	50.00	-15.26	AVG	Р

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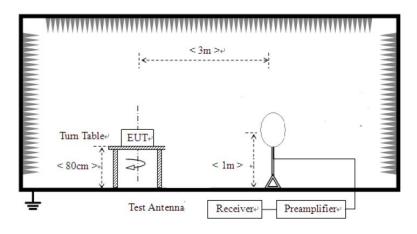


6.0 Radiated Emission Test

- 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

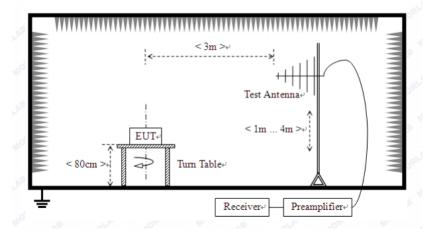


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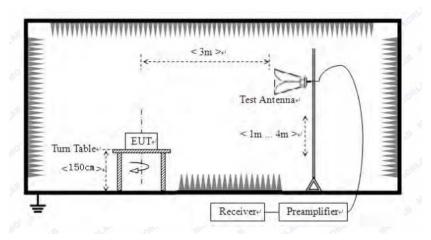
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For radiated emissions from 30MHz to1GHz



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 Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/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	L	
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
30-88	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. This is a handhold 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.

5. 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.

6. New Battery was used during tests.

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

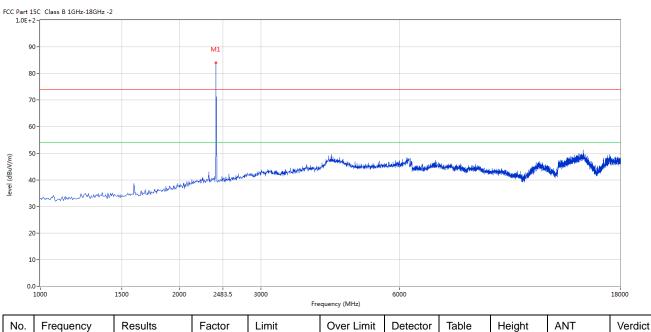
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal



(dB)

-29.96

(0)

255.00

Peak

(cm)

100

Horizontal

Pass

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

(dBuV/m)

84.04

(MHz)

2402.058

1

(dB)

-3.57

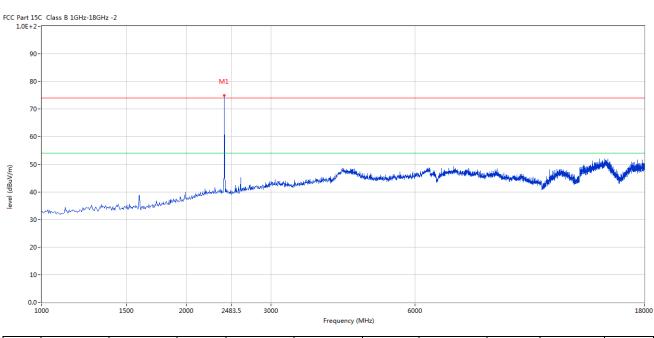
(dBuV/m)

114.0

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Vertical





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.058	75.20	-3.57	114.0	-38.80	Peak	154.00	100	Vertical	Pass

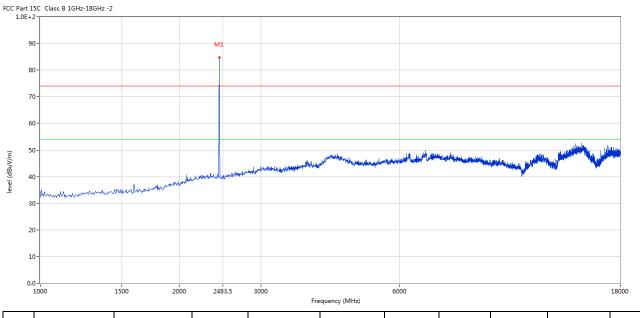
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal

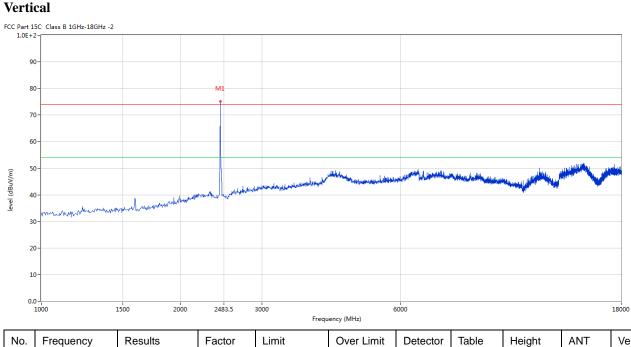


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.060	84.67	-3.57	114.0	-29.33	Peak	237.00	100	Horizontal	Pass

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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	2440.060	75.12	-3.57	114.0	-38.88	Peak	201.00	100	Vertical	Pass

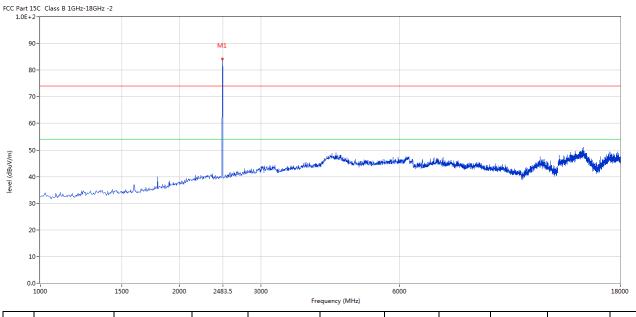
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

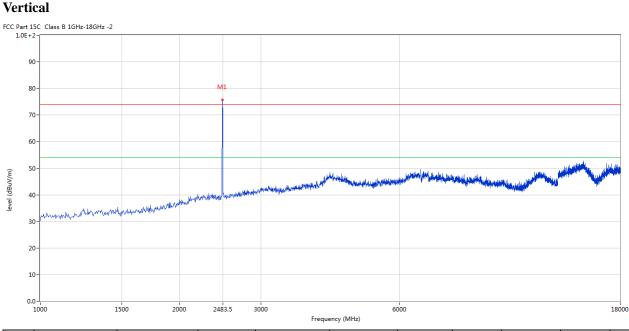


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480.060	84.21	-3.57	114.0	-29.79	Peak	237.00	100	Horizontal	Pass

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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)		
ĺ	1	2480.060	75.68	-3.57	114.0	-38.32	Peak	11.00	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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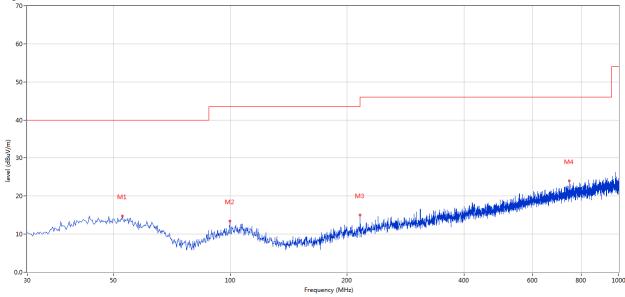
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	52.789	14.72	-11.48	40.0	-25.28	Peak	295.00	100	Horizontal	Pass
2	99.823	13.45	-13.56	43.5	-30.05	Peak	334.00	100	Horizontal	Pass
3	215.951	15.02	-13.60	43.5	-28.48	Peak	316.00	100	Horizontal	Pass
4	746.166	24.03	-3.41	46.0	-21.97	Peak	300.00	100	Horizontal	Pass

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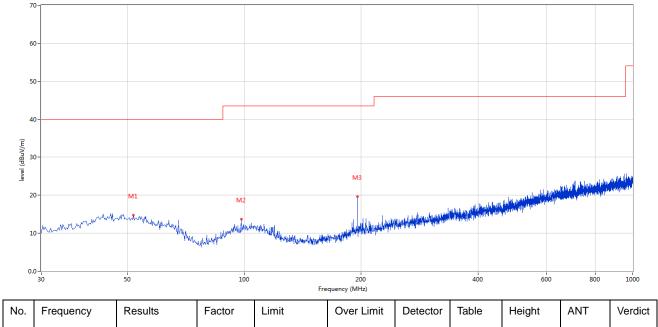
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



	rioquonoy	rtoodito	1 40101	2	Over Einit	Botootoi	Tablo	riorgine	/	voraiot
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	51.820	14.74	-11.42	40.0	-25.26	Peak	14.00	100	Vertical	Pass
2	98.368	13.69	-13.72	43.5	-29.81	Peak	108.00	100	Vertical	Pass
3	195.586	19.65	-13.70	43.5	-23.85	Peak	131.00	100	Vertical	Pass

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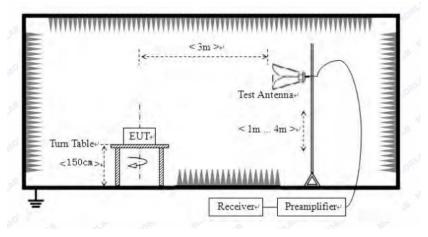


7. Band Edge

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:	Four-in-	one mode l Keybo	RGB Mechar pard	nical	Polarity		Η	orizontal	
	Mode	K	Leeping Tra	insmitting	Г	Test Voltag	ge	Ι	DC3.0V	
Te	mperature		24 deg	g. C,		Humidity		5	56% RH	
Τe	est Result:		Pas	S						
1.0E+ 9 8 7	15C Class B 1GHz-18GHz	-2						M		
4 3 2 1	100 - 200 - 100 -	un son blomaðal býðu tanni skulaðin blomatanu	launaurhdiaethy the arrevey.	ingelythings of the state of the	nakinangenter der sternester vaser bel		hallaliindeija	M2 •		
3 2 1	10 - <mark></mark>	แก <i>งคะได้แหล่งแม</i> ่งร่องสาวรังหม่งที่สารรังและ	Section of the step of the		անություն, մայն տեղ մայնի equency (MHz)		ha halan in a hara a	M2 •		2410
3 2 1	10	Results (dBuV/m)	Factor (dB)			Detector	Table (0)	Height (cm)		2410
4 3 2 1	10	Results	Factor	Fr Limit	equency (MHz)		Table	•		2410
4 3 2 1 0. No.	10	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdic
4 3 2 1 0. No.	10	Results (dBuV/m) 83.98	Factor (dB) -3.57	Fri Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 9.98	Detector Peak	Table (o) 250.00	(cm) 100	ANT	2410 Verdic

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Product:		Four-in-	ical	Detector		Vertical				
	Mode	Keeping Transmitting 24 deg. C,				est Voltage	DC3.0V 56% RH			
Te	emperature					Humidity				
Te	est Result:		Pas							
CC Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
8	90							M		
level (dBuV/m)	50	lengt assertingstranking Alis-adolanised	eneltediscontetiologic	inderson in latitude a new desidered	รระวรรไปสาคาสุดดูปัตระระไฟฟ้า	M3				
level (dBuV/m)	50 - 40	linest a stateling to active for a later of the second	ner treken er	Haliten Andre Land	equency (MHz)	M3				400.00000 2410
level (dBuV/m)	50	Results	Factor	Free Limit	equency (MHz)	Detector	Table	Height	ANT	
level (dBuV/m)	50 - 40	Results (dBuV/m)	Factor (dB)				Table (o)	Height (cm)	ANT	Г
level (dBuV/m)	50 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4			Limit	Over Limit			-	ANT	Г
(w/(ng)) (m/ng)	50 - 40	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	(o)	(cm)		Verdic

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Product:		Four-in-	one mode Keyt	RGB Mecha	anical Polarity			Horizontal			
	Mode	H	Keeping Transmitting			Test Volta	ge	DC3.0V			
Temperature			24 deg. C,			Humidity	y .	56% RH			
Т	est Result:		Pa	SS							
CC Par 1.0E	15C Class B 1GHz-18GHz	-2									
level (dBuV/m)	90- 80- 70- 60- 50- 40- 30- 20- 10-	Lange of the second state of t	A CONTRACT OF CONTRACT.	No been been been been been been been bee	Han Hannester	างที่เสลต์เหลืองรูปและครางกุลเจะกรรงที่	ledos de la felderada	n na	kansanaria karata itu napalakeek		
	0.0- 2470			2483.	5 Frequency (MHz)					2500	
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdic	
	-	84.09	-3.57	74.0	10.09	Peak	248.00	100	Horizontal	N/A	
1	2479.530	04.03									

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Product:		Four-in-one mode RGB Mechanica Keyboard			cal I	Detector		Vertical			
	Mode	Keeping Transmitting				Test Voltage		DC3.0V			
Temperature		24 deg. C,			Н	Humidity	56% RH				
Te	Test Result: Pass										
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2									
8	900		1								
4 (dpn/)/m 3 2 1	50 - 40 - 40 - 40 - 20 - 20 - 10 - 2470	terranon, statilicist of the state of the st		2483.5	-sheishkh, philipshkhadhkhaikei	i diffe dan si na si di	hlanthenerin diritingst	ede-bbl.dimpotentik	h dhimbhidh da dhai	2500	
evel (d8r//m 3 2 1	40 - 			Free	quency (MHz)			T		2500	
4 (dpn/)/m 3 2 1	40 - 	Results (dBuV/m)	Factor (dB)			Detector	Table (o)	Height	ANT		
evel (d8r//m 3 2 1	40- 40- 40- 40- 20- 10- 2470 Frequency	Results		Limit	^{quency} (MHz) Over Limit		Table	Height		2500	

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. This is a handhold 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.

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8.0 Antenna Requirement

Applicable Standard

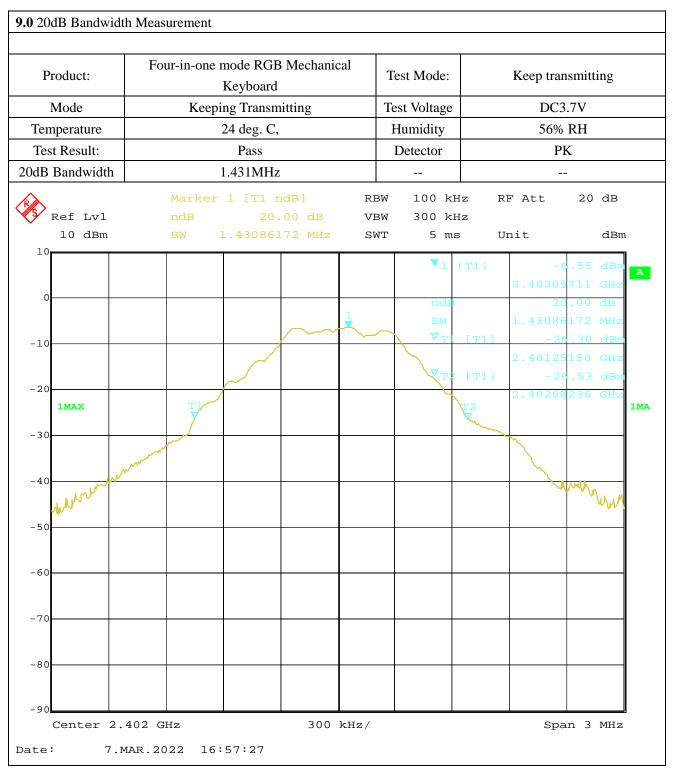
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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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Mode Temperature Test Result: 20dB Bandwidth	2	g Transmitting 4 deg. C,		Test Voltage	9		7V	
Test Result:						DC3.7V 56% RH		
				Humidity				
20dB Bandwidth		Pass		Detector		P	K	
^	1.425MHz						-	
<i>∕</i> R∕∕A	Marker	1 [T1 ndB]	RI	BW 100 k	Hz RI	7 Att	20 dB	
Ref Lvl	ndB	20.00 d	B VI	BW 300 k	Hz			
10 dBm	BW	1.42484970 M	Hz SI	WT 5 n	us Ur	nit	dBm	
10				v ₁	[T1]	-6	.32 dBm	7
						2.440063	313 GHz	A
0			1	ndI	8	20.	.00 dB	
		\sim	~~			1.424849	970 MHz	
-10					<u>[T1]</u>	-26. 2.439251	<u>.20 dBm</u> L50 GHz	
					2 [T1]		.75 dBm	
-20						2.440676	535 GHz	
1MAX	T1				T2 7		11	MA
- 30					\sim	~		
	where where							
-40	<u></u>							
-40							www.	
- 50								
-60								
7.0								
-70								
- 80								
-90 Center 2.	44 CH7	<u> </u>)0 kHz/			Gnar	ı 3 MHz	
		55:24	JO VUZ\			spar		

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Product:	Four-in-one mode RGB Mechanical Keyboard			est Mode:	Keep transmitting		
Mode	Keepii	ng Transmitting	Te	est Voltage	DC3.7V 56% RH		
Temperature	2	24 deg. C,	I	Iumidity			
Test Result:		Pass]	Detector		РК	
20dB Bandwidth	1.425MHz						
	Marker	1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB	
Ref Lvl	ndB	20.00 dB	VBW	300 kHz			
10 dBm	BW	1.42484970 MHz	SWT	5 ms	Unit	dBm	
10				V 1 [7	- [1]	.36 dBm	
					2.4800!	A	
0			1	ndB	20	0.00 dB	
				BW	1.42484	970 MHz	
-10					T1] -2	5.15 dBm	
					2.4792		
-20				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	T1] -2	5.16 dBm	
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when have						VIII * *	
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-60							
-70							
0							
-80							
-90 Center 2	. 48 GHz	300 k	Hz/		Sna	an 3 MHz	
	MAR.2022 16				556		

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

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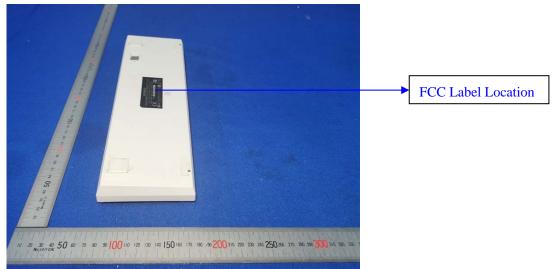
10.0 FCC ID Label

FCC ID: TUVET-8538

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--

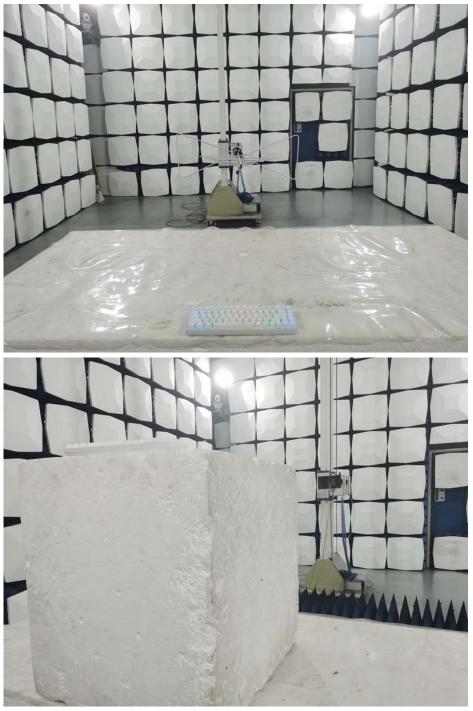


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adopt any other remedies which may be appropriate.



Radiated emission test view



Photographs – EUT

Please refer test report TW2202167-01E

--End of the report--

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