



File reference No.: 2022-03-09

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

21

Jack Chung

Manager

Dated: March 09, 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

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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

Date: 2022-03-09



Test Report Conclusion

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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.,Ltd

Address: 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

Rating: DC5V or 3.7V, 660mA or 216mA Battery DC3.7V, 1900mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel Number: 16

Channel List (Unit: MHz): 2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,

2419, 2445, 2465, 2480

Serial No.: 8538W210700128

Antenna Designation PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 1 Sample

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

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	2021-07-02	2024-07-01
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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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 and RSS-210	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

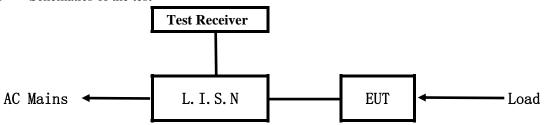
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

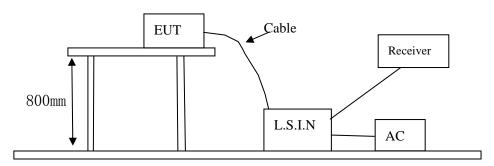


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. 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

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 C63.4 -2014

- 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 ~ 0.50	66.0~56.0*	56.0~46.0*			
$0.50 \sim 5.00$	56.0	46.0			
5.00 ~ 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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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

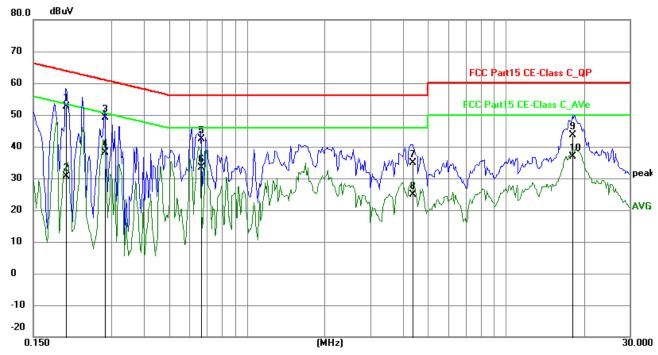
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	42.83	9.75	52.58	63.58	-11.00	QP	Р
2	0.2007	20.95	9.75	30.70	53.58	-22.88	AVG	Р
3	0.2826	39.43	9.76	49.19	60.74	-11.55	QP	Р
4	0.2826	28.37	9.76	38.13	50.74	-12.61	AVG	Р
5	0.6648	32.72	9.78	42.50	56.00	-13.50	QP	Р
6	0.6648	23.52	9.78	33.30	46.00	-12.70	AVG	Р
7	4.3689	25.05	9.90	34.95	56.00	-21.05	QP	Р
8	4.3689	15.05	9.90	24.95	46.00	-21.05	AVG	Р
9	18.1164	33.06	10.57	43.63	60.00	-16.37	QP	Р
10	18.1164	26.37	10.57	36.94	50.00	-13.06	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

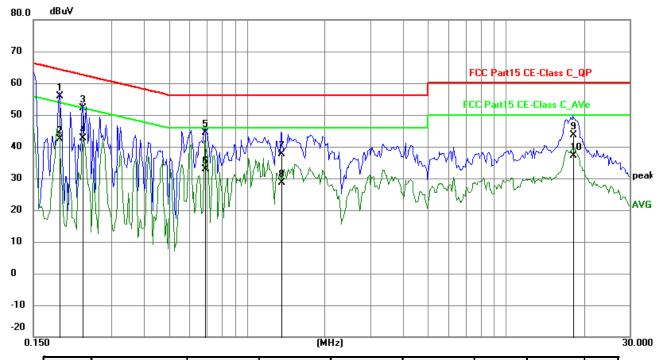
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1890	46.06	9.76	55.82	64.08	-8.26	QP	Р
2	0.1890	32.53	9.76	42.29	54.08	-11.79	AVG	Р
3	0.2319	42.41	9.75	52.16	62.38	-10.22	QP	Р
4	0.2319	32.96	9.75	42.71	52.38	-9.67	AVG	Р
5	0.6882	34.72	9.78	44.50	56.00	-11.50	QP	Р
6	0.6882	23.08	9.78	32.86	46.00	-13.14	AVG	Р
7	1.3590	27.89	9.79	37.68	56.00	-18.32	QP	Р
8	1.3590	18.96	9.79	28.75	46.00	-17.25	AVG	Р
9	18.1983	33.14	10.57	43.71	60.00	-16.29	QP	Р
10	18.1983	26.56	10.57	37.13	50.00	-12.87	AVG	Р

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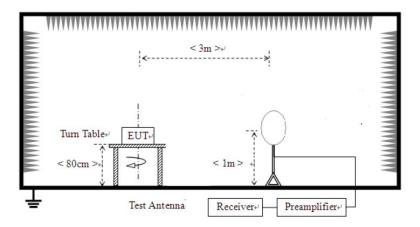


6 Radiated Emission Test

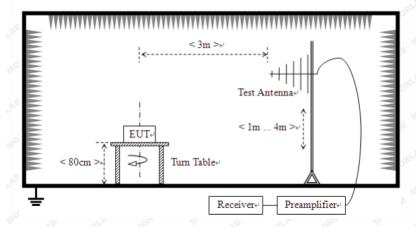
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size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



For radiated emissions from 30MHz to1GHz



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

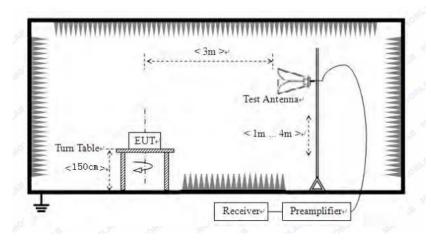
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For radiated emissions above 1GHz



- 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:

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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.

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

		3 1
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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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.
- 7. Battery full charged during tests.

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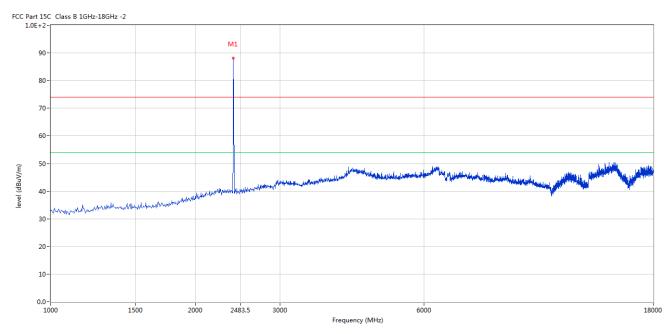


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

Horizontal



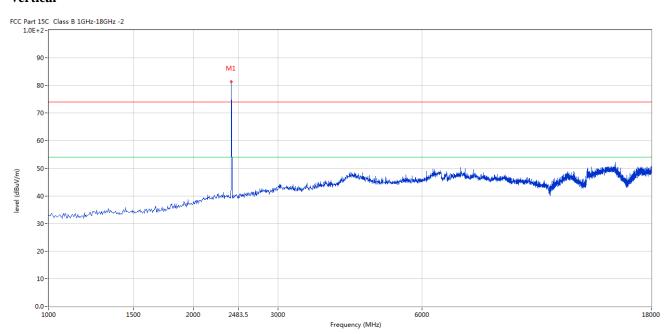
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2403.068	87.89	-3.57	114.0	-26.11	Peak	266.00	100	Horizontal	Pass

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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	2403.065	82.02	-3.57	114.0	-31.98	Peak	69.00	100	Vertical	Pass

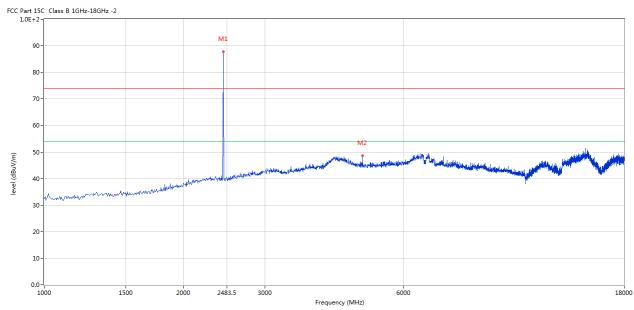
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



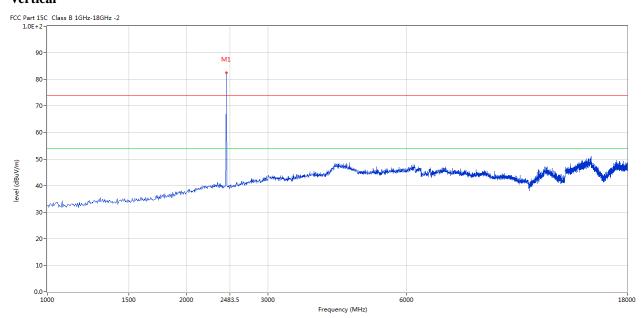
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441.045	87.68	-3.57	114.0	-26.32	Peak	277.00	100	Horizontal	Pass
2	4883.529	48.54	3.20	74.0	-25.46	Peak	272.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441.045	82.48	-3.57	114.0	-31.52	Peak	343.00	100	Vertical	Pass

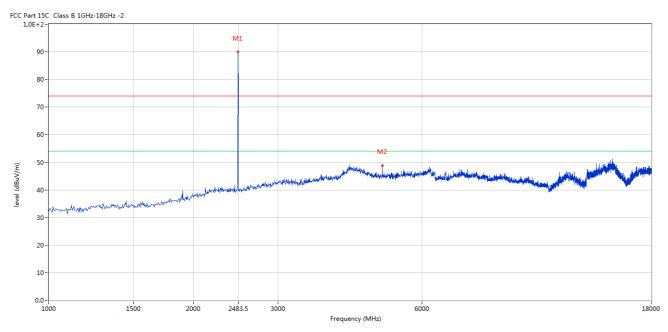
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.869	89.98	-3.57	114.0	-24.02	Peak	269.00	100	Horizontal	Pass
2	4960.010	48.78	3.36	74.0	-25.22	Peak	263.00	100	Horizontal	Pass

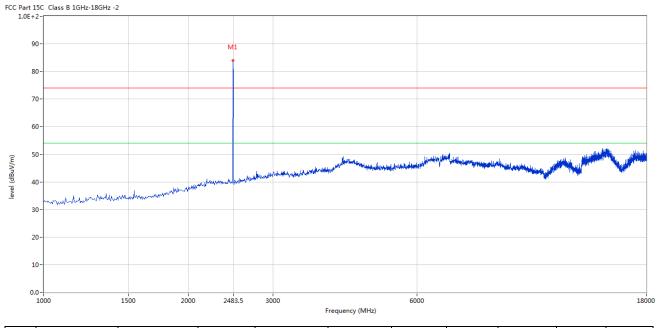
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.873	84.21	-3.57	114.0	-29.79	Peak	335.00	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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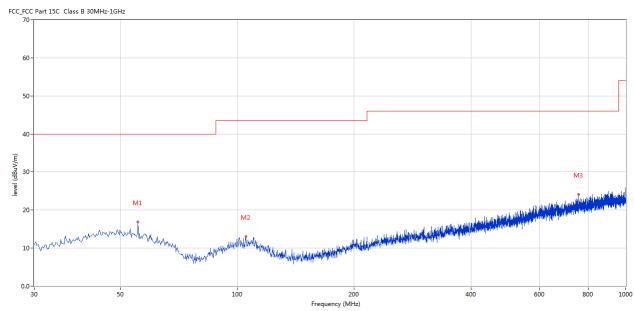


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	55.456	16.85	-11.89	40.0	-23.15	Peak	0.00	100	Horizontal	Pass
2	105.156	13.10	-13.23	43.5	-30.40	Peak	40.00	100	Horizontal	Pass
3	757.318	24.19	-3.32	46.0	-21.81	Peak	73.00	100	Horizontal	Pass

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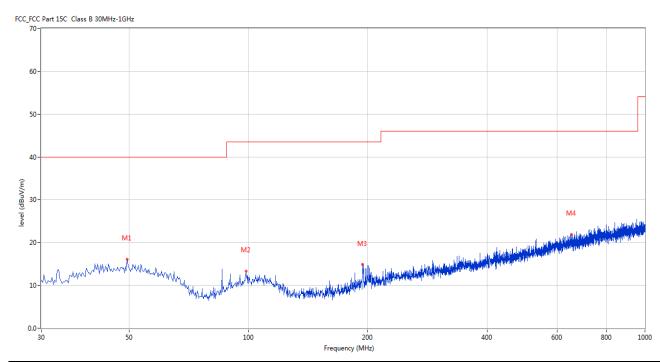


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	49.395	16.04	-11.28	40.0	-23.96	Peak	276.00	100	Vertical	Pass
2	98.610	13.29	-13.70	43.5	-30.21	Peak	313.00	100	Vertical	Pass
3	194.131	14.84	-13.84	43.5	-28.66	Peak	325.00	100	Vertical	Pass
4	651.857	21.90	-4.68	46.0	-24.10	Peak	300.00	100	Vertical	Pass

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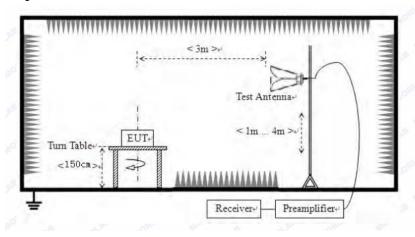


7. Band Edge

7.1 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) 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.

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

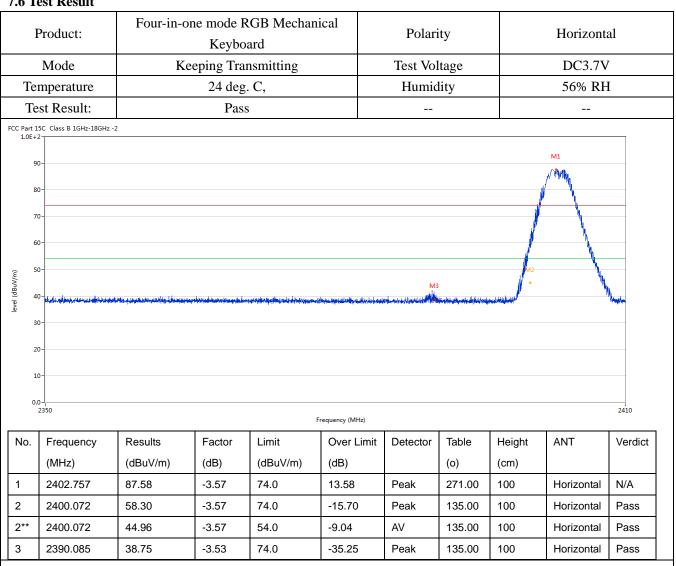
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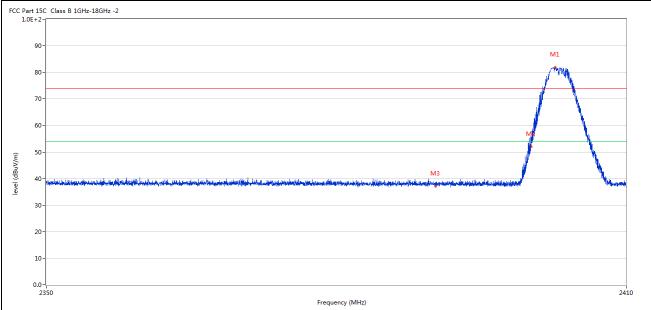
7.6 Test Result



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Product:	Four-in-one mode RGB Mechanical Keyboard	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.577	81.84	-3.57	74.0	7.84	Peak	77.00	100	Vertical	N/A
2	2400.072	51.93	-3.57	74.0	-22.07	Peak	82.00	100	Vertical	Pass
3	2390.085	37.14	-3.53	74.0	-36.86	Peak	1.00	100	Vertical	Pass

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]	Product:	nical Keyboa	rd	Polarit	y	Horizon	ıtal				
	Mode		Keepin	g Transmitti	ting Tes			age	e DC3.7V		
Te	mperature		2	4 deg. C,			Humidity		56% R	Н	
Te	est Result:			Pass							
C Part 1	LSC Class B 1GHz-18GHz	-2						'			
1.021											
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	T	1		1	Frequency (MHz)	1	1	1			
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verd	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)			
1	2479.973	89.58	-3.57	74.0	15.58	Peak	271.00	100	Horizontal	N/A	
2	2483.407	60.63	-3.57	74.0	-13.37	Peak	271.00	100	Horizontal	Pass	
2**	2483.407	47.44	-3.57	54.0	-6.56	AV	271.00	100	Horizontal	Pass	

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	Product:	Four-in-	one mode l	rd	Detecto	r	Vertica	ıl			
	Mode		-	Test Volta	DC3.7V						
Те	mperature		2	24 deg. C,		Humidity 56 ^o			56% RH		
Те	est Result:			Pass							
CC Part 1	15C Class B 1GHz-18GHz	-2						•			
1.021											
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3 2 1	0- 0- 0- 0- 2470	Results	Factor	2483.5 Fre	quency (MHz) Over Limit	Detector	Table	Height	ANT	2500	
3 3 2 2 1 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	2483.5 Fre	quency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic	
3 3 2 1 1 0.	Frequency (MHz) 2479.868	Results (dBuV/m) 84.15	(dB)	2483.5 Fre Limit (dBuV/m) 74.0	quency (MHz) Over Limit (dB) 10.15	Detector Peak	Table (o) 348.00	Height (cm)	ANT Vertical	z500 Verdic	
3 3 2 2 1 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	2483.5 Fre	quency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	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. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	Four-in-on	e mode RGB Mechan Keyboard	Test Mo	de:	Keep transmitting			
Mode	Kee	ping Transmitting	Test Voltage		DC3.7V			
Temperature		24 deg. C,		Humidity		56	% RH	
Test Result:		Pass	Detector			PK		
0dB Bandwidth		2.605MHz						
Ref Lvl 10 dBm	Marke ndB BW	r 1 [T1 ndB] 20.00 dB 2.60521042 MHz	V	BW 30	kHz kHz ms	RF Att Unit	20 dB	n
10			1					1
					1 [T		-6.22 dBm 06513 GHz	2
0					ndB	2.403	20.00 dB	-
			1		BW	2.605	21 <mark>042 MHz</mark>	
-10			4_		▼ _{T1} [r1] -	26.25 dBm	1
		/ V	لب		4		58216 GHz	
-20		\sim			<u>∧Æ5 [</u> 3		26.60 dBm	1
1MAX	T1				T.	2.404	18737 GHz	11
-30	provide					m m		
-40 MM							The Market	
-50								-
-60								
-70								
-80								
-90 Center 2.4	403 CH2	FOO	kHz/			- C	pan 5 MHz	11

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Product:	Four-in-one m	al	Test Mode:			Keep transmitting			
Mode	Keepin		Test Voltage			DC3.7V			
Temperature	2	4 deg. C,		Humidity				6 RH	
Test Result:		Pass 435MHz		Detector			I	PK	
20dB Bandwidth	2.								
Ref Lvl 10 dBm	ndB	1 [T1 ndB] 20.00 dB 2.43486974 MHz	V	BW BW WT	100 kH 300 kH 5 ms	z	F Att	20 dB dBm	
0			<u>_</u>		▼1 [[T1]	-3 2.44104 20	.45 dBm 509 GHz .00 dB	A
-10			_\	<u> </u>	BW V _T	[T1]	2.43486 -23 2.43974	974 MHz .62 dBm 248 GHz	
-20	TI	~ \ \			V _T	[T1]	-23 2.44217	.25 dBm	
1MAX	The state of the s							, 33 GHZ	1MA
-40						\.	u.m.r		
-50								The same	
-60									
-70									
-80									
-90 Center 2		500	kHz/				Spa	n 5 MHz	

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Product:	Fou	Four-in-one mode RGB Mechanical Keyboard					Test Mode:		Keep transmitting		
Mode		Keeping Transmitting					Test Voltage		DC3.7V		
Temperature		24 deg. C,					Humidity			% RH	
Test Result:		Pass					Detector		J	PK	
20dB Bandwidth		2.295MHz									
Ref Lvl		ndB	1 [T1 r 20. 2.294589	.00 dB	7	RBW 7BW SWT	100 k 300 k 5 m	Hz	F Att	20 dB dBm	ı
0			1				▼1	[T1]	2.47940 2.0456	0.00 dB	А
-10			\nearrow			~	V _T	[T1]	2.29458 -25 2.47888 -25	.62 dBm 277 GHz .39 dBm	
1MAX -30		T						T2	2.48117	735 GHz	1MA
-40		~\/							man war	- War	
-50											
-60 -70											
-80											
-90 Center 2.48 GHz				500	kHz/	,			Spa	an 5 MHz	
Date:	7.MAR.20)22 18:	16:14								

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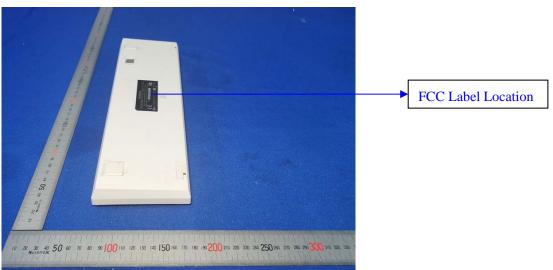
10.0 FCC ID Label

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--



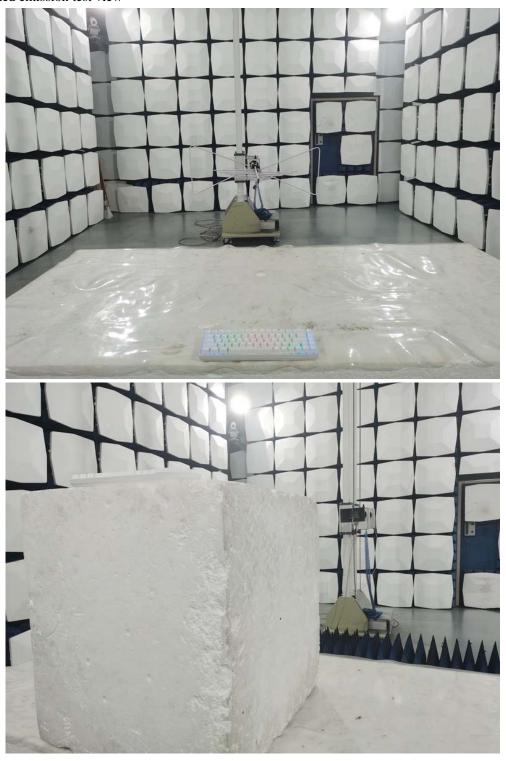
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Radiated emission test view



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11.2 Photographs – EUT

Outside View



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Photographs - EUT

Outside View





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Outside View



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Inside view



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Inside view





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Inside view



-- End of the report--