

File reference No.: 2022-05-07

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD

Model No.: K628RGB-PRO, ET-8672, K628RGB-PRO-BRW

Trademark: REDRAGON

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: May 07, 2022

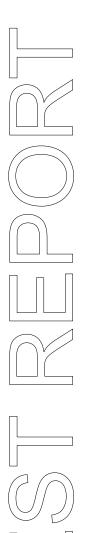
Results appearing herein relate only to the sample tested

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



Report No.: TW2204384-02E Page 2 of 34

Date: 2022-05-07



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: 2022-05-07



Test Report Conclusion

Content 1.0 General Details 1.1 Test Lab Details.... 4 1.2 Applicant Details. 4 1.3 Description of EUT 1.4 Submitted Sample.... 4 Test Duration. 1.5 5 1.6 Test Uncertainty. 1.7 Test By..... 5 List of Measurement Equipment..... 2.0 7 3.0 Technical Details..... 3.1 Summary of Test Results.... 7 3.2 7 Test Standards.... 4.0 EUT Modification.... 7 Power Line Conducted Emission Test.... 5.0 8 Schematics of the Test..... 5.1 8 5.2 Test Method and Test Procedure. Configuration of the EUT..... 5.3 8 5.4 EUT Operating Condition. Conducted Emission Limit. 9 5.5 5.6 Test Result. 6.0 Radiated Emission test.... 12 Test Method and Test Procedure. 6.1 12 6.2 Configuration of the EUT.... 13 6.3 EUT Operation Condition. 13 Radiated Emission Limit. 14 6.4 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 20dB bandwidth measurement.... 9.0 29 FCC ID Label..... 10.0 32 Photo of Test Setup and EUT View....

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

11.0

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Date: 2022-05-07



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: WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Additional Trademark: N/A

Model Number: K628RGB-PRO

Additional Model Name ET-8672, K628RGB-PRO-BRW
Serial No.: RDK628RGB-PRO22030100875
Rating: DC5.0V, 700mA or DC3.7V, 300mA
Battery: DC3.8V, 1600mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain -1.85dBi maximum (Declared by the Manufacturer)

1.4 Submitted Sample: 1 pc

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Report No.: TW2204384-02E Page 5 of 34

Date: 2022-05-07



1.5 Test Duration

2022-04-27 to 2022-05-07

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: Terry Tang

Page 6 of 34

Report No.: TW2204384-02E

Date: 2022-05-07



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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Page 7 of 34

Report No.: TW2204384-02E

Date: 2022-05-07



3.0 Technical Details

3.1 Summary of test results

The EUT has been	n tested accordin	g to the following	specifications:
		A	, 50000

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 Pass Fundamental		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

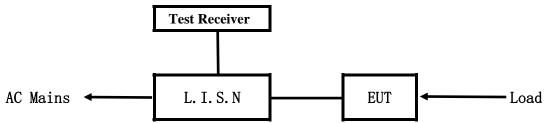
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2022-05-07



5. Power Line Conducted Emission Test

5.1 Schematics of the test

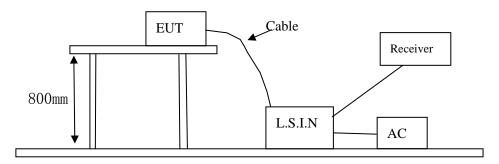


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. 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

Device	Manufacturer	Model	FCC ID	
WIRED/2.4G/BT	Eastern Times	V629DCD DDO ET 9672		
MECHANICAL		K628RGB-PRO, ET-8672,	TUVET-8672	
GAMING KEYBOARD	Technology Co.,Ltd	K628RGB-PRO-BRW		

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Report No.: TW2204384-02E Page 9 of 34

Date: 2022-05-07



B. Internal Device

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 \(\mu \)			
(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 ~ 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

Date: 2022-05-07



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

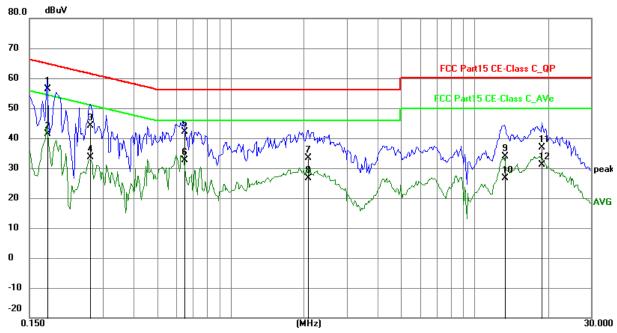
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

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	0.1773	46.70	9.77	56.47	64.61	-8.14	QP	Р
2	0.1773	31.53	9.77	41.30	54.61	-13.31	AVG	П
3	0.2670	34.28	9.75	44.03	61.21	-17.18	QP	Р
4	0.2670	23.79	9.75	33.54	51.21	-17.67	AVG	Р
5	0.6453	32.24	9.78	42.02	56.00	-13.98	QP	П
6	0.6453	22.73	9.78	32.51	46.00	-13.49	AVG	Л
7	2.0765	23.49	9.80	33.29	56.00	-22.71	QP	Р
8	2.0765	16.72	9.80	26.52	46.00	-19.48	AVG	Р
9	13.2921	23.50	10.30	33.80	60.00	-26.20	QP	Р
10	13.2921	16.31	10.30	26.61	50.00	-23.39	AVG	Р
11	18.8769	26.21	10.61	36.82	60.00	-23.18	QP	Р
12	18.8769	20.43	10.61	31.04	50.00	-18.96	AVG	Р

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

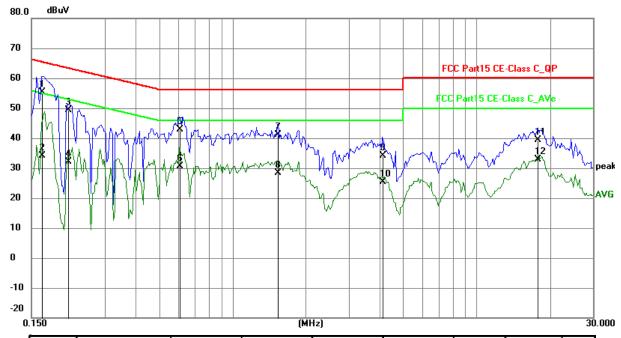
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

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	0.1655	45.71	9.77	55.48	65.18	-9.70	QP	Р
2	0.1655	24.29	9.77	34.06	55.18	-21.12	AVG	Р
3	0.2124	39.64	9.75	49.39	63.11	-13.72	QP	Р
4	0.2124	22.33	9.75	32.08	53.11	-21.03	AVG	Р
5	0.6063	33.04	9.78	42.82	56.00	-13.18	QP	Р
6	0.6063	20.80	9.78	30.58	46.00	-15.42	AVG	Р
7	1.5345	31.24	9.80	41.04	56.00	-14.96	QP	Р
8	1.5345	18.70	9.80	28.50	46.00	-17.50	AVG	Р
9	4.1192	24.36	9.89	34.25	56.00	-21.75	QP	Р
10	4.1192	15.57	9.89	25.46	46.00	-20.54	AVG	Р
11	17.8278	28.87	10.55	39.42	60.00	-20.58	QP	Р
12	17.8278	22.24	10.55	32.79	50.00	-17.21	AVG	Р

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Report No.: TW2204384-02E Page 12 of 34

Date: 2022-05-07

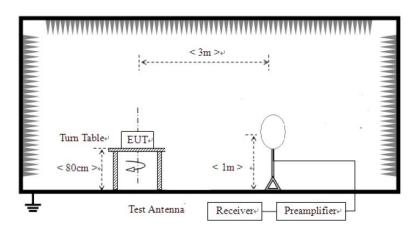


6 Radiated Emission Test

- 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

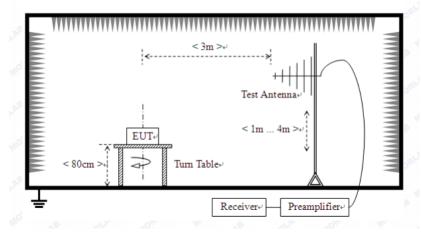
For radiated emissions from 9kHz to 30MHz



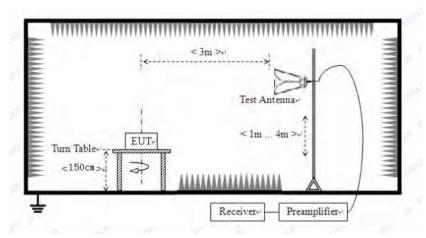
Date: 2022-05-07



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.

Report No.: TW2204384-02E Page 14 of 34

Date: 2022-05-07



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	dBuV/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.

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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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.

Report No.: TW2204384-02E Page 15 of 34

Date: 2022-05-07

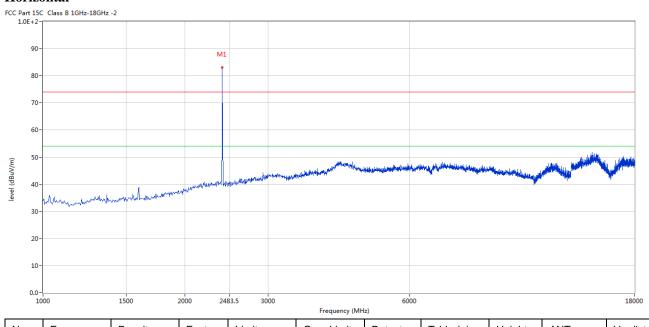


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



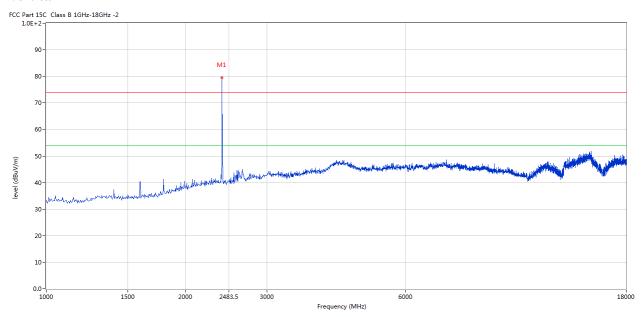
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	83.25	-3.57	114.0	-30.75	Peak	153.00	100	Horizontal	Pass

Report No.: TW2204384-02E Page 16 of 34

Date: 2022-05-07



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	79.63	-3.57	114.0	-34.37	Peak	144.00	100	Vertical	Pass

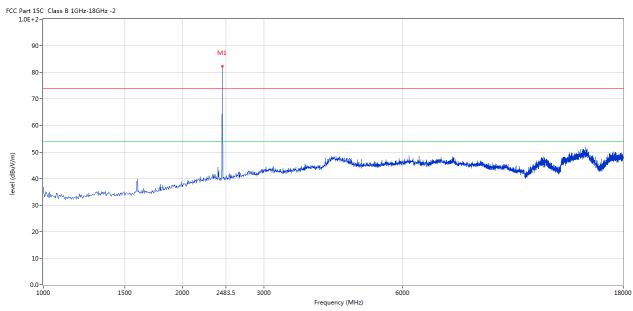
Report No.: TW2204384-02E Page 17 of 34

Date: 2022-05-07



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

Horizontal



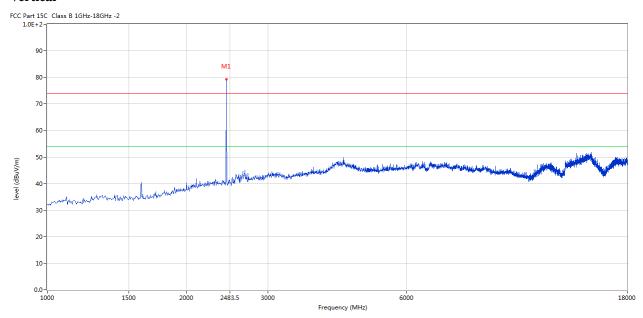
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	82.26	-3.57	114.0	-31.74	Peak	162.00	100	Horizontal	Pass

Report No.: TW2204384-02E Page 18 of 34

Date: 2022-05-07



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.26	-3.57	114.0	-34.74	Peak	97.00	100	Vertical	Pass

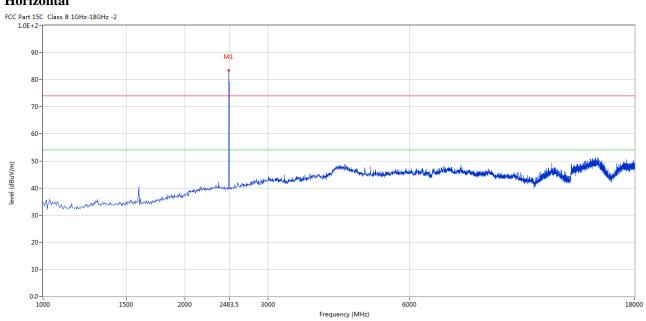
Report No.: TW2204384-02E Page 19 of 34

Date: 2022-05-07



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

Horizontal



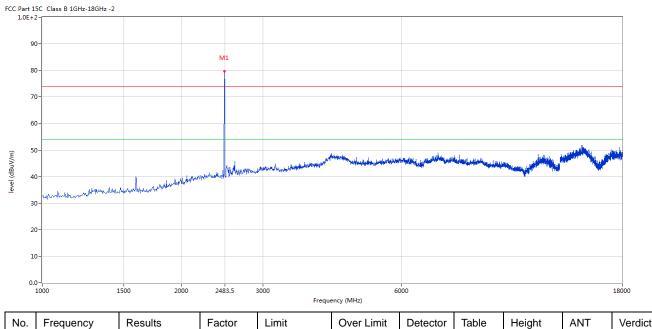
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	83.40	-3.57	114.0	-30.60	Peak	162.00	100	Horizontal	Pass

Report No.: TW2204384-02E Page 20 of 34

Date: 2022-05-07



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.62	-3.57	114.0	-34.38	Peak	85.00	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.

Report No.: TW2204384-02E Page 21 of 34

Date: 2022-05-07

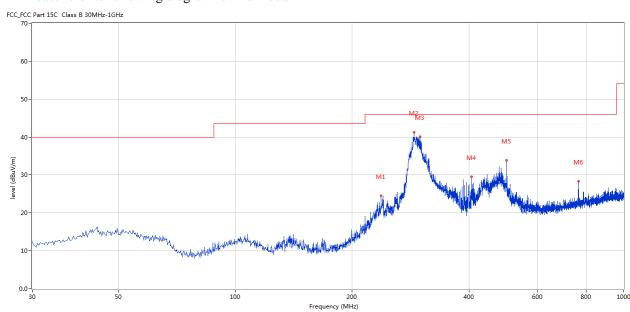


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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)		(0)	(cm)		
1	237.286	24.49	-12.39	46.0	-21.51	Peak	269.00	100	Horizontal	Pass
2	288.198	41.31	-11.26	46.0	-4.69	Peak	324.00	100	Horizontal	Pass
3	298.865	40.14	-11.10	46.0	-5.86	Peak	337.00	100	Horizontal	Pass
4	405.539	29.53	-8.72	46.0	-16.47	Peak	0.00	200	Horizontal	Pass
5	500.090	33.90	-6.91	46.0	-12.10	Peak	235.00	200	Horizontal	Pass
6	764.834	28.32	-3.24	46.0	-17.68	Peak	0.00	200	Horizontal	Pass

Report No.: TW2204384-02E Page 22 of 34

Date: 2022-05-07

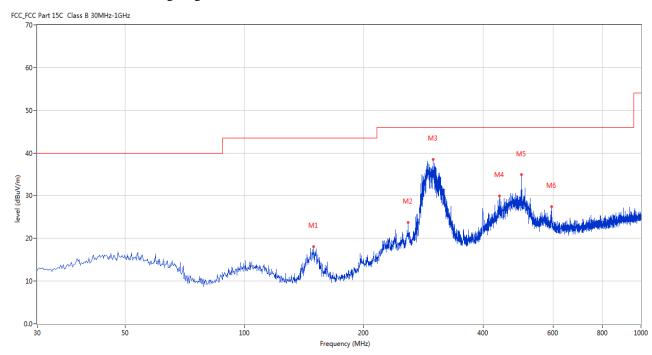


Radiated Emission In Vertical (30MHz----1000MHz)

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	149.280	18.01	-17.09	43.5	-25.49	Peak	0.00	200	Vertical	Pass
2	258.620	23.71	-11.85	46.0	-22.29	Peak	0.00	200	Vertical	Pass
3	298.623	38.45	-11.12	46.0	-7.55	Peak	70.00	100	Vertical	Pass
4	439.480	29.99	-8.05	46.0	-16.01	Peak	0.00	200	Vertical	Pass
5	500.090	34.87	-6.91	46.0	-11.13	Peak	1.00	200	Vertical	Pass
6	595.854	27.47	-5.18	46.0	-18.53	Peak	41.00	100	Vertical	Pass

Date: 2022-05-07

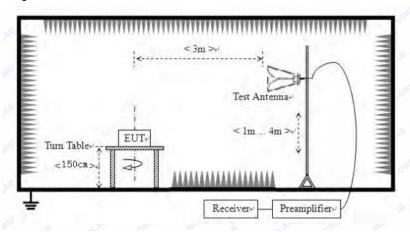


7. Band Edge

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.

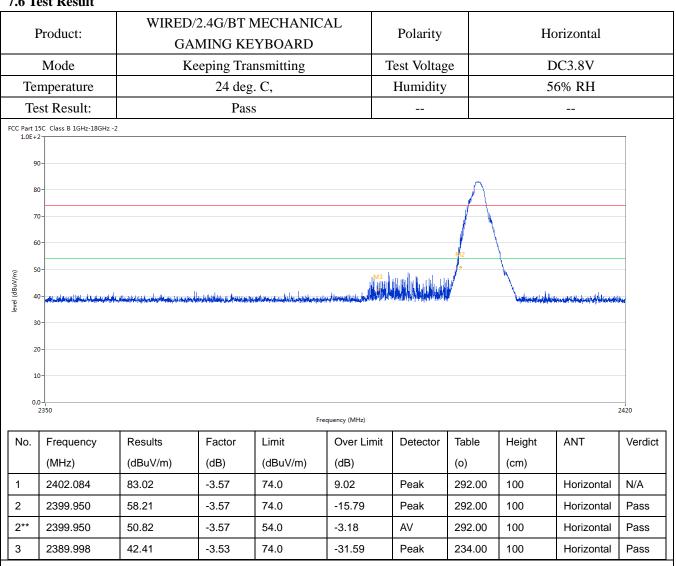
The report refers only to the sample tested and does not apply to the bulk.

Report No.: TW2204384-02E Page 24 of 34

Date: 2022-05-07



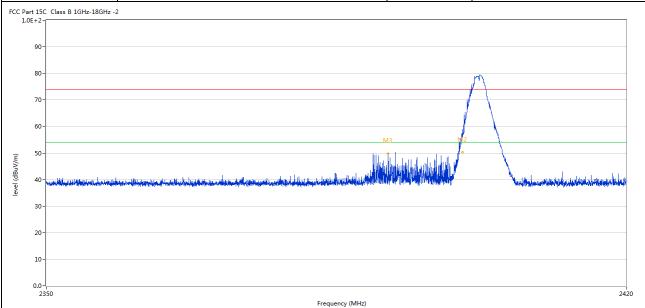
7.6 Test Result



Report No.: TW2204384-02E Page 25 of 34



Product:	WIRED/2.4G/BT MECHANICAL	Detector	Vertical
110000	GAMING KEYBOARD	200000	, 01 010 011
Mode	Keeping Transmitting	Test Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

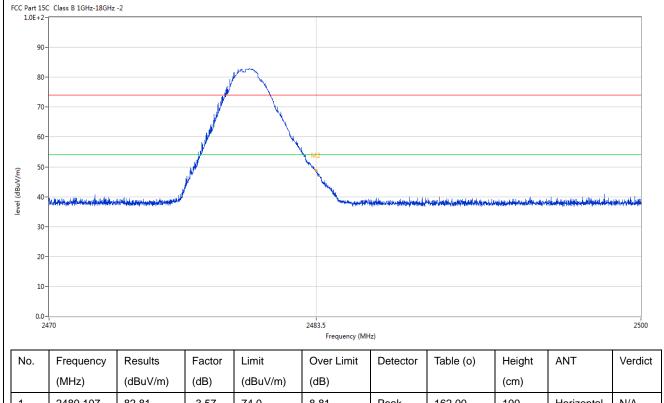


	ı	1		ı						
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.119	79.46	-3.57	74.0	5.46	Peak	148.00	100	Vertical	N/A
2	2400.055	55.85	-3.57	74.0	-18.15	Peak	153.00	100	Vertical	Pass
2**	2400.055	50.29	-3.57	54.0	-3.71	AV	153.00	100	Vertical	Pass
3	2390.092	49.78	-3.53	74.0	-24.22	Peak	301.00	100	Vertical	Pass

Report No.: TW2204384-02E Page 26 of 34



Product:	WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
ſ	1	2480.107	82.81	-3.57	74.0	8.81	Peak	162.00	100	Horizontal	N/A
	2	2483.534	48.87	-3.57	74.0	-25.13	Peak	157.00	100	Horizontal	Pass
			l.							l .	

Page 27 of 34

Report No.: TW2204384-02E

Date: 2022-05-07



Product:				MECHANIO EYBOARD	CAL	Detector		Vertical		
	Mode	K	Keeping Tr	ansmitting	Test Voltage			DC3.8V		
Te	emperature		24 de	g. C,		Humidit	У	56	5% RH	
Т	est Result:		Pa	SS						
CC Part	15C Class B 1GHz-18GHz -2				•		•			
8	30 -									
level (dBuV/m)	50	interestant de la solución de la constante de		M2	المستعارة والمراجع والأراء	ing the balance of the		hadysidada dhadhasa dhada		bookhille
(m/\mu) level (dBu//m)		katang di kanadan dan dan dan dan dan dan dan dan d		M2	andological patrick spill	ing Mahahatat La, And	ldisplay-addition, shi	n alabam dhinne dhi	ned het heterbilished	bornish all
(m/\mu) level (dBu//m)		laning have been been also be		2483.5 Free	quency (MHz)		Attended to the state of the st	h adjulyan Makada kalek lidek		2500
(m/\mu) level (dBu//m)	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor		and the second s	Detector	Table	Height	ANT	
(m//m) level (dBuV/m)	10 10 10 10 10 10 10 10		Factor (dB)	Free	quency (MHz)	A CARLOS AND A STATE OF THE STA	lead of the second	A Part of Comment of C	The state of the s	2500
(m//m) level (dBuV/m)	50	Results		Limit	quency (MHz) Over Limit	A CARLOS AND A STATE OF THE STA	Table	Height	The state of the s	2500

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

Date: 2022-05-07



Page 28 of 34

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 -1.85 dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

Page 29 of 34

Report No.: TW2204384-02E



Product:	WIRED/2.	4G/BT ME ING KEYI		Test Mod	e:	Keep transmitting		
Mode	Kee	ping Transı	nitting		Test Volta	ge	DC	23.8V
Temperature		24 deg. C	·,		Humidit	y	569	% RH
Test Result:		Pass			Detector	r]	PK
20dB Bandwidth		1.010MH	Z					
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 1.010020	00 dB	RBW VBW SWT	30 kH 100 kH 8.5 ms	Ηz	F Att	20 dB
0				^	V ₁ ndB BW V _{T1}	[T1]	-3 2.40199 20 1.01002	.74 dBm 699 GHz .00 dB 004 MHz
-20 1MAX		T/	7	h	1 ▼ _{T2}	[T1]		198 GHz
-30		V			Λ,			
-50							- Jan	
-70								V
-80								
-90 Center 2.40				kHz/				n 3 MHz

Page 30 of 34

Report No.: TW2204384-02E



Ref Lv1	Product:	WIRED/2.4C	G/BT MECH		Т	Test Mode:		Keep transmitting DC3.8V			
Test Result: Pass Detector PK 20dB Bandwidth 997.996kHz Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 c Ref Lv1 ndB 20.00 dB VBW 100 kHz 10 dBm EW 997.99599198 kHz SWT 8.5 ms Unit c	Mode	Keepir	ng Transmitti	ng	T	est Voltage	;				
### Part	Temperature	2	24 deg. C,			Humidity		569	% RH		
Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 cm Ref Lvl ndB 20.00 dB VBW 100 kHz 10 dBm BW 997.99599198 kHz SWT 8.5 ms Unit 0	Test Result:		Pass			Detector		<u> </u>	PK PK		
Ref Lvl ndB 20.00 dB VBW 100 kHz 10 dBm BW 997.99599198 kHz SWT 8.5 ms Unit 6 2.44099699 d 2.44099699 d 3.44099699 d 3.44051002 d 7T2 [T1] -24.94 d 7T2 [T1] -24.94 d 7T3 [T1] -24.94 d 7T3 [T1] -24.94 d 7T4 [T1] -24.94 d 7T5 [T1] -24.94 d 7T5 [T1] -24.94 d 7T5 [T1] -24.94 d 7T6 [T1] -24.94 d 7T7 [T1] -24.94 d 7T7 [T1] -24.94 d 7T8 [T1] -24.94 d 7T9 [T	OdB Bandwidth	99	97.996kHz								
10 T T	•	ndB	20.0	0 dB	VBW	100 k	Hz		20 dB	1	
2.44099699 G 1			7.9959919	o KHZ	2WI		.S U.	T	Т	1	
-10 -20 -20 -20 -30 -40 -50 -60 -70	0					1	[T1]	2.44099		A	
-20 1MAX -30 -60 -70				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		BW		20 7.99599	198 kHz		
-20 1MAX -30 -40 -50 -60 -70	-10		~		The same of the sa			2.44051			
-40 -50 -60 -70			T			4		2.44150		1M	
-50 -60 -70							\\				
-60 -70	Junuary 1										
-70	مسمرسم										
	-60										
	-70										
-80	-80										
-90 Center 2.441 GHz 300 kHz/ Span 3 M	·	.441 GHz		300 kH	z/			Spa	ın 3 MHz	ļ	

Page 31 of 34

Report No.: TW2204384-02E



GFSK Modulati	ion											
Product:	WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD Keeping Transmitting					Test Mode:			Keep transmitting			
Mode						Te	est Voltage	;	DC3.8V			
Temperature		24	4 deg. C,			I	Humidity		569	% RH		
Test Result:			Pass				Detector]	PK		
20dB Bandwidth		979	9.96kMHz									
Ref Lvl	ne	dВ		00 dB	V	BW BW	30 k 100 k	Hz	RF Att	20 dB		
10 dBm	В	W 979	9.959919	984 kHz	S	WT	8.5 m	s (Jnit	dBm	1	
0							▼ ₁	[T1]	2.47999	3.32 dBm 699 GHz	A	
-10					امرام		BW ▼ _{T1}	9 [T1]	79.95991 -25			
-20				۷ لہر		کر	$\sqrt{\qquad} \nabla_{\mathrm{T}2}$	2 [T1]	2.47952 -25 2.48050	.22 dBm		
1MAX							T2		2.48050	200 GHZ	1MA	
-40							V	\\				
-50	~~~							V				
-60												
-70												
-80												
-90 Center 2	.48 GHz			300	kHz/				Spa	an 3 MHz		
Date: 5.	.MAY.2022	2 17:	28:35									

Report No.: TW2204384-02E Page 32 of 34

Date: 2022-05-07



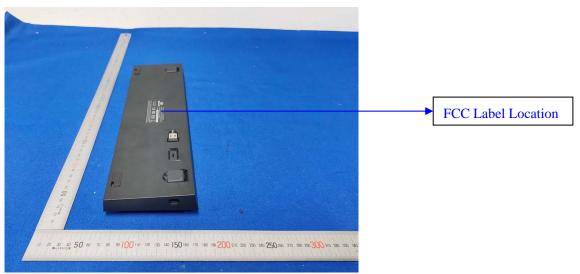
10.0 FCC ID Label

FCC ID: TUVET-8672

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:



Page 33 of 34 Report No.: TW2204384-02E

Date: 2022-05-07



11.0 Photo of testing

11.1 Conducted test View--



Date: 2022-05-07



Radiated emission test view



Photographs - EUT

Please refer test report TW2204384-01E

-- End of the report--

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

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