



File reference No.: 2022-02-28

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRELESS GAMING KEYBOARD

Model No.: K509P-KS, ET-8668, ET-8493, K509P-WS

Trademark: REDRAGON

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

Jack Chung

ouch chang

Manager

Dated: February 28, 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: 2022-02-28



Test Report Conclusion

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

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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: WIRELESS 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: K509P-KS

Additional Model Name ET-8668, ET-8493, K509P-WS Serial No.: RDK509P-KS21122500001

Rating: DC5V, 500mA or DC3.7V, 350mA Battery: DC3.7V, 2500mAh 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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1.5 Test Duration

2022-02-22 to 2022-02-28

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	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	1	2021-06-18	2022-06-17				
RF Cable	Zhengdi	7m	1	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	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

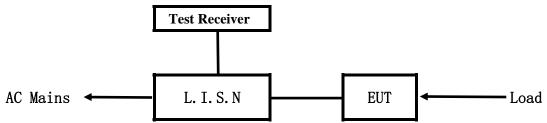
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

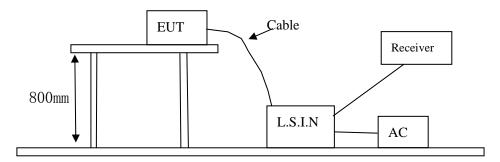


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. 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
WIRELESS GAMING	Eastern Times	V500D VC ET 9469 ET 9402 V500D WC	TUVET-8668
KEYBOARD	Technology Co.,Ltd	K509P-KS, ET-8668, ET-8493, K509P-WS	10 VE1-8008

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC

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NT/A		
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 ~ 0.50	66.0~56.0*	56.0~46.0*		
0.50 ~ 5.00	56.0	46.0		
$5.00 \sim 30.00$	60.0	5 .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)

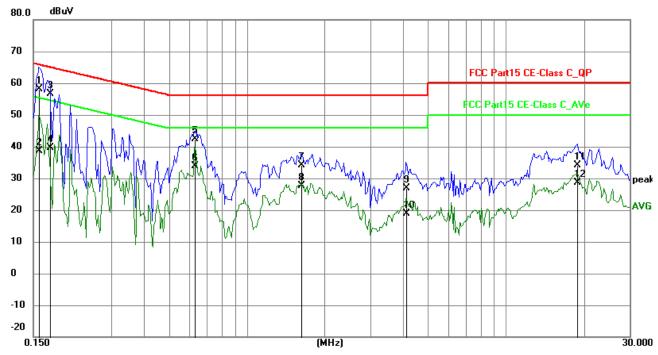
EUT Operating Environment

Temperature: 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 (dBu∀)	Margin (dB)	Detector	P/F
1	0.1578	48.45	9.78	58.23	65.58	-7.35	QP	Р
2	0.1578	28.88	9.78	38.66	55.58	-16.92	AVG	Р
3	0.1740	46.86	9.77	56.63	64.77	-8.14	QP	Р
4	0.1740	29.86	9.77	39.63	54.77	-15.14	AVG	Р
5	0.6297	32.64	9.78	42.42	56.00	-13.58	QP	Р
6	0.6297	24.19	9.78	33.97	46.00	-12.03	AVG	Р
7	1.6242	24.25	9.80	34.05	56.00	-21.95	QP	Р
8	1.6242	17.72	9.80	27.52	46.00	-18.48	AVG	Р
9	4.1271	17.06	9.89	26.95	56.00	-29.05	QP	Р
10	4.1271	8.92	9.89	18.81	46.00	-27.19	AVG	Р
11	18.8730	23.52	10.61	34.13	60.00	-25.87	QP	Р
12	18.8730	17.90	10.61	28.51	50.00	-21.49	AVG	Р

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

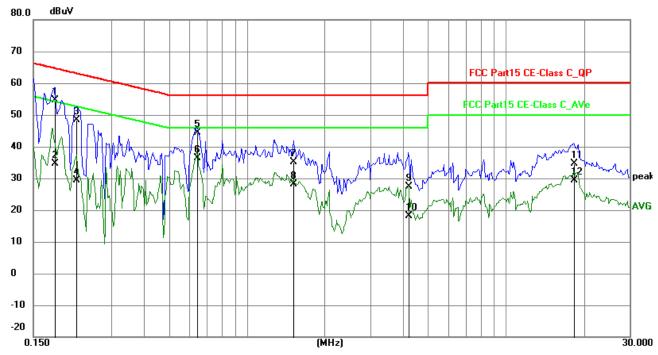
EUT Operating Environment

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 (dBu∀)	Margin (dB)	Detector	P/F
1	0.1812	44.97	9.76	54.73	64.43	-9.70	QP	Р
2	0.1812	24.93	9.76	34.69	54.43	-19.74	AVG	Р
3	0.2202	38.64	9.75	48.39	62.81	-14.42	QP	Р
4	0.2202	19.52	9.75	29.27	52.81	-23.54	AVG	Р
5	0.6414	34.51	9.78	44.29	56.00	-11.71	QP	Р
6	0.6414	26.59	9.78	36.37	46.00	-9.63	AVG	Р
7	1.5150	25.32	9.80	35.12	56.00	-20.88	QP	Р
8	1.5150	18.41	9.80	28.21	46.00	-17.79	AVG	Р
9	4.2168	17.39	9.90	27.29	56.00	-28.71	QP	Р
10	4.2168	8.27	9.90	18.17	46.00	-27.83	AVG	Р
11	18.3075	24.17	10.58	34.75	60.00	-25.25	QP	Р
12	18.3075	18.72	10.58	29.30	50.00	-20.70	AVG	Р

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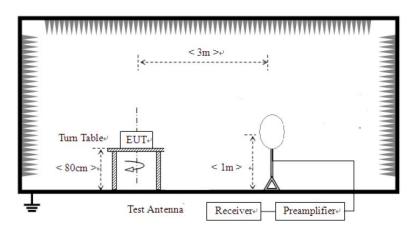


6 Radiated Emission Test

- 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

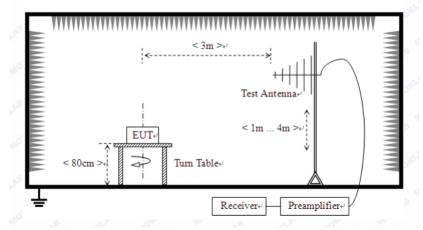
For radiated emissions from 9kHz to 30MHz



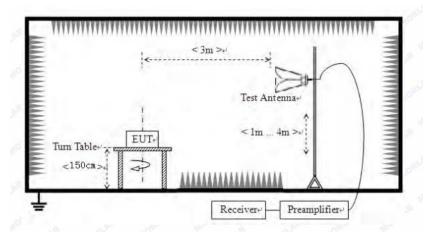
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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

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

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.04	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. 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.
- 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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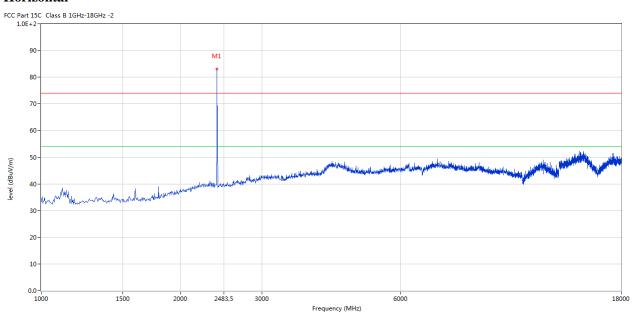


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



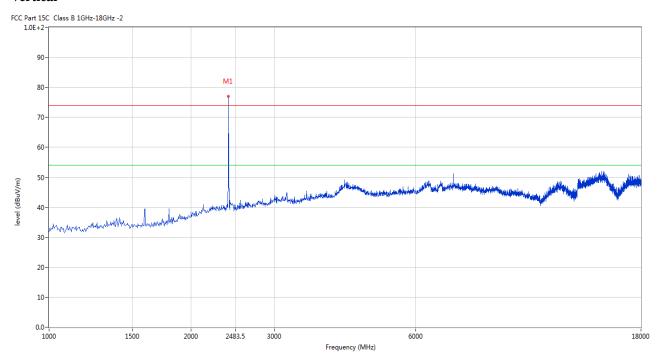
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	82.99	-3.57	114.0	-31.01	Peak	224.00	100	Horizontal	Pass

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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	2402.149	77.06	-3.57	114.0	-36.94	Peak	149.00	100	Vertical	Pass

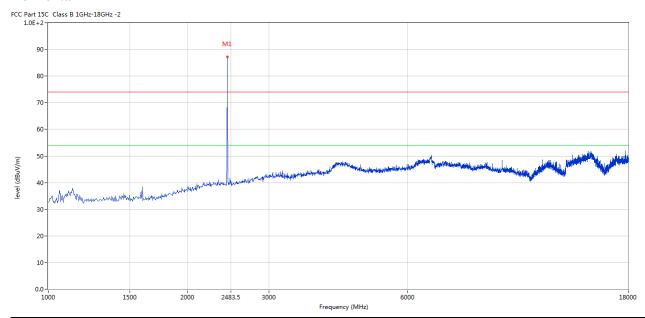
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



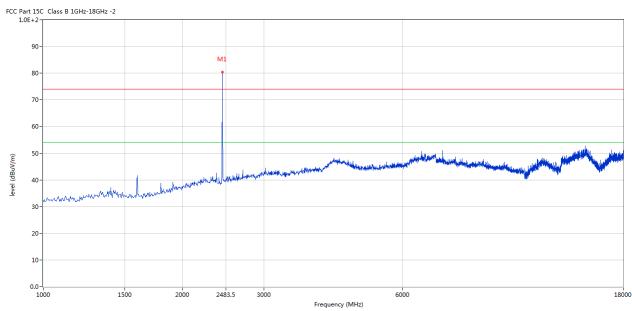
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.390	87.11	-3.57	114.0	-26.89	Peak	113.00	100	Horizontal	Pass

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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	2440.390	80.33	-3.57	114.0	-33.67	Peak	150.00	100	Vertical	Pass

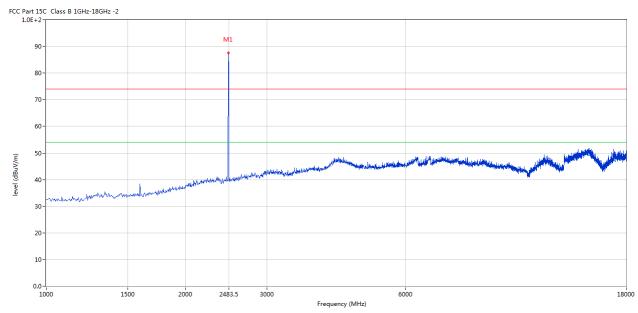
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



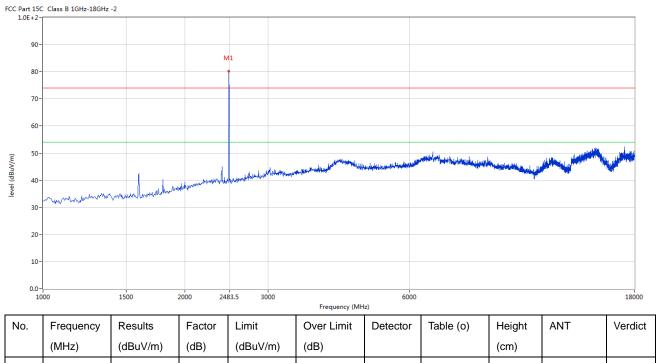
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
Ī	1	2479.630	87.61	-3.57	114.0	-26.39	Peak	125.00	100	Horizontal	N/A

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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	2479.630	80.11	-3.57	114.0	-33.89	Peak	166.00	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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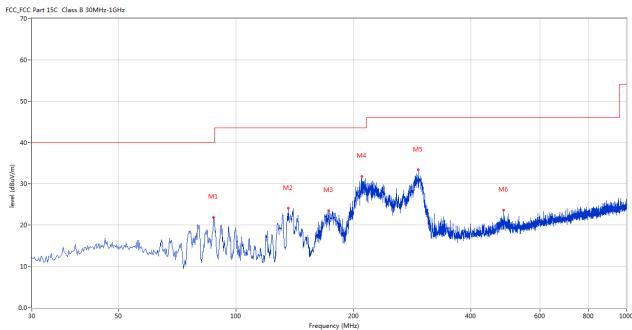


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	87.701	21.94	-15.67	40.0	-18.06	Peak	46.00	200	Horizontal	Pass
2	136.188	24.10	-17.16	43.5	-19.40	Peak	0.00	200	Horizontal	Pass
3	172.554	23.51	-15.95	43.5	-19.99	Peak	360.00	200	Horizontal	Pass
4	210.375	31.84	-13.60	43.5	-11.66	Peak	30.00	100	Horizontal	Pass
5	292.562	33.38	-11.26	46.0	-12.62	Peak	320.00	100	Horizontal	Pass
6	485.059	23.63	-7.28	46.0	-22.37	Peak	66.00	200	Horizontal	Pass

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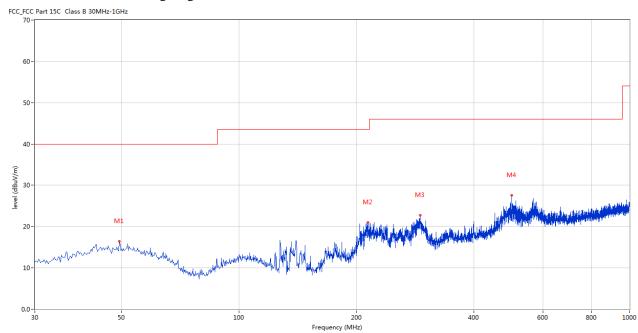


Radiated Emission In Vertical (30MHz----1000MHz)

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	16.45	-11.28	40.0	-23.55	Peak	183.00	100	Vertical	Pass
2	213.769	20.98	-13.61	43.5	-22.52	Peak	64.00	200	Vertical	Pass
3	291.350	22.70	-11.24	46.0	-23.30	Peak	225.00	100	Vertical	Pass
4	500.090	27.59	-6.91	46.0	-18.41	Peak	336.00	200	Vertical	Pass

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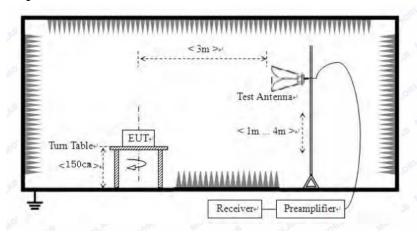


7. Band Edge

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.

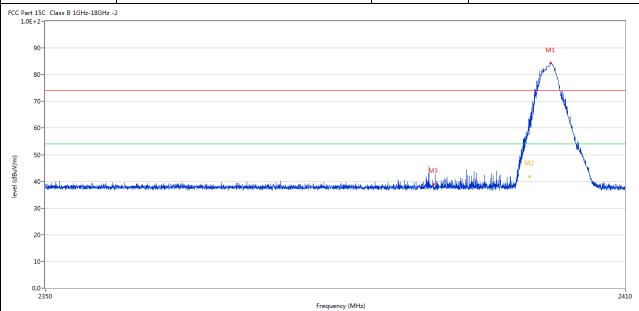
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7.6 Test Result

Product:	WIRELESS GAMING KEYBOARD	Polarity	Horizontal
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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2400.012	61.94	-3.57	74.0	-12.06	Peak	200.00	100	Horizontal	Pass
2**	2400.012	41.74	-3.57	54.0	-12.26	AV	200.00	100	Horizontal	Pass
3	2390.025	38.90	-3.53	74.0	-35.10	Peak	319.00	100	Horizontal	Pass

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]	Product:	WII	RELESS	GAMING	KEYBOARD	De	etector		Vertical	
	Mode		Keej	ping Transm	nitting	Test	Voltage		DC3.7V	
Te	mperature			24 deg. C,		Hu	midity		56% RH	
Те	est Result:			Pass						
CC Part 1 1.0E+	15C Class B 1GHz-18G 2-	Hz -2								
g	00-									
8	80-								M1	
7	70-								$/\!\!/$	
									# \	
6	60-									
_	0-									
_	0-	physical phy	waren, aberta, albert		da laka saga sajapan da daga kasa ka ka ka ka	and the second second			2	
level (dBuV/m)	0-	makerinteriorist da	water and the state of the stat		kalatussi sidaka da dhada sa dhilik sa	philips of the state of the sta			2	
(m/\mu (dBu/\mu))	10 -	ndertaken de kantaken de k	waren, administration de la companya	distributed by the last of the last of	الإيان يور بالمائي ويواد بالإيالة إلى الإياد الإيالة الإياد الإيالة الإياد الإيالة الإياد الإيالة الإياد الإيا	pikalikan pilmetekentek			2	ni de la companya de
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[4Bu/\mu]	00-	Literalisedhamoreteat ida	i de en estado en es	elisender a lind potential seguita da la companya de la companya de la companya de la companya de la companya d	k lab was salaga da daga k salak lab sa				2	
(m//ngp) 44	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	independent of the second of the second	isterna, a de de de la calenda		Frequency (MH				2	2410
(m//ngp) 44	00-	Results	Factor	Limit			Table (o)	M	ANT	
(m//ngq) 44 2 2 1 1 0	0-10-10-10-10-10-10-10-10-10-10-10-10-10				Frequency (MH	(z)	Table (o)	Height (cm)	ANT	2410
(m//ngq) 44 2 2 1 1 0	0- 0- 0- 0- 0- 0- 0- 2350	Results	Factor	Limit	Frequency (MH	(z)	Table (o)		ANT Vertical	2410
(W/N/W) level (GBr/N/W) 3 3 2 2 2 0 0 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH Over Limit (dB)	Detector	, ,	(cm)		2410 Verdict

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Product:		WIRE	ELESS C	SAMING K	EYBOARD	Po	olarity	Horizontal			
Mode Temperature			Keeping Transmitting					DC3.7V			
				24 deg. C,		Нυ	ımidity		56% RH		
Test	t Result:			Pass							
Part 15C 1.0E+2-	Class B 1GHz-18GHz	z -2									
90-											
			J.	What was a second							
80-				N.							
70-					di .						
60-					N.						
50-			1		N.						
40-)' 		M2						
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30-											
20-											
10-											
10											
0.0-	70				2483.5 Frequency (N	ИНz)					
0.0- 24	Frequency	Results	Factor	Limit		Detector	Table (o)	Height	ANT		
0.0- 24		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (N		Table (o)	Height (cm)	ANT		
0.0-	Frequency				Over Limit		Table (o)	_	ANT Horizontal	Verdic	

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	Produ	uct:	WIRI	ELESS C	SAMING KE	YBOARD	De	tector				
	Mod	de		Keepi	ng Transmitti	ng	Test	Voltage		DC3.7V		
Τ	Tempera	rature		24 deg. C,		Hu		56% RH				
	Test Re	esult:			Pass							
	90 - 80 - 70 -	is B 1GHz-18GHz	-2	.de/ukath	promote the second							
level (dBuV/m)	50-			de de la companya de	*		Markette of the American				de dell'amin'ndradikal	
level (dBuV/m)	50-	and we discovered the latest the		de de la companya de	*		Market and regard	al dud-lutura sahu,	water the state of		he day may and had been	
level (dBuV/m)	40 - 40		Althornton de la la companie de	A A A A A A A A A A A A A A A A A A A		A STATE OF THE STA	Makada ad Sadari b	al duda kima a dua,	a de la	and the state of t	de des profesidos d <mark>istr</mark>	
level (dBuV/m)	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -						hdheimhead ar Ameire is d	al dunation of the	urdi libilid disan sidara	n and a table, we as the little by the	ik dalamin da	
level (dBuV/m)	30- 20- 10-	acky of the second of the		ad a state of the		- Aller Section	Majadasil an Assiguit I	aldukalisi vasa 400	u di diki da maka			
level (dBuV/m)	30 - 20 -	and the second second second	Albank da pada bannya da sa	A CONTRACTOR OF THE CONTRACTOR		2483.5 Frequency (MHz		al dus lateratishes,	grafi dalik di sangapan		2500	
(m//ngp) level	30 - 20 - 10 - 2470	requency	Results	Factor	Limit	2483.5		Table (o)	Height	ANT		
	30- 20- 10- 2470	AND THE PROPERTY OF THE PROPER		Factor (dB)	T	2483.5 Frequency (MHz)		A Province of the Control of the Con		2500	

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

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -1.85 dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation	1									
Product:	WI	RELESS	GAMINO	KEYBO	ARD	Test Mo	de:	Keep tr	ansmitting	,
Mode		Keep	oing Trans	mitting		Test Volt	age	DO	C3.7V	
Temperature	24 deg. (Ξ,		Humidi	ty	56% RH				
Test Result:							or		PK	
dB Bandwidth			1521.04kl	Hz						
>		Delta 1	L [T1]		RBW	30 k	Hz F	F Att	20 dB	
Ref Lvl			-0.	.22 dB	VBW	100 k	Hz			
10 dBm		1	L.521042	208 MHz	SWT	8.5 n	ns T	nit	dB	m
10						v ₁	[T1]	-2	1.49 dBr	n
								2.4012	954 GH2	Z
0				~		<u></u> 1	[T1]	-	0.22 dB	
			\wedge		m	∇_2		1.5210	4208 MH:	
-10			 	7	h	V 2	[T1]	2 4020	1.57 dBr 0301 GH:	
			\wedge					2.4020	301 G112	
-20 <u>D1 -21.5</u>	7 dBm					14	1			1
1MAX		\sim								11
-30										
-40										
-50									,	
-60										
-70										
-80										
-90	402 GH			300					an 3 MH:	_[

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Product:	WIR	ELESS G	AMING K	EYBOAR	D	Т	est Mode:		Keep transmitting			
Mode	Keeping Transmitting					Т	est Voltage	2	DC3.7V			
Temperature		24 deg. C,					Humidity		56% RH			
Test Result:			Pass				Detector		,	PK		
OdB Bandwidth		13	76.75kHz									
Ŕ		Delta 1	[T1]		R	BW	30 k	Hz	RF Att	20 dB		
Ref Lvl			-0.	07 dB	V	BW	100 k					
10 dBm		1	.376753	351 MHz	S	WT	8.5 m	ıs	Unit	dBm	n	
10							v ₁	[T1]	-2	1.39 dBm	A	
					2				2.44032	2365 GHz		
0				~	٦		<u>^</u> 1	[T1]	1 2767	0.07 dB		
1.0			\wedge	\mathcal{M}	, ~	٧	∇_2	[T1]	1.3767	351 MHz $1.56 dBm$		
-10				V.		4			2.44100	902 GHz		
		10					July 1	1				
-20 -D1 -21.	56 dBm		/								1M2	
-30	~~~~	/										
									\			
-40												
-50												
-60												
-70												
-80												
-90 Center 2	441 C	u _z		300	kuz/				Con	an 3 MHz	ļ	
Center 2	. 111 0			300	17114 /				gga	שוייו כ ננג ווג		

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Product:	WIR	ELESS G	AMING K	EYBOAR	D	Т	est Mode:		Keep tr	ansmitting		
Mode	Keeping Transmitting					Test Voltage		;	DC3.7V			
Temperature		24 deg. C,				Humidity			56% RH			
Test Result:			Pass				Detector		,	PK		
20dB Bandwidth		12	38.48kHz									
Ŕ		Delta 1	[T1]		R	BW	30 k	Hz	RF Att	20 dB		
Ref Lvl			0.	13 dB	V	BW	100 k					
10 dBm		1	.238476	95 MHz	S	WT	8.5 m	s	Unit	dBm	n _	
10							v ₁	[T1]	-2	1.28 dBm	A	
0					2				2.47938	8377 GHz		
				2			<u>^</u> 1	[T1]	1 02045	0.13 dB		
-10			/	\sim	<u> </u>	7	▽ 2	[T1]	1.2384	7695 MHz 1.52 dBm		
-10			\sim			~	1		2.48000	902 GHz		
-20		1,					\. ~	1				
—D1 -21.	52 dBm		\forall				$\overline{}$				1 M.A	
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-80												
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Center 2	.48 GH	z		300	kHz/				Spa	an 3 MHz	8	
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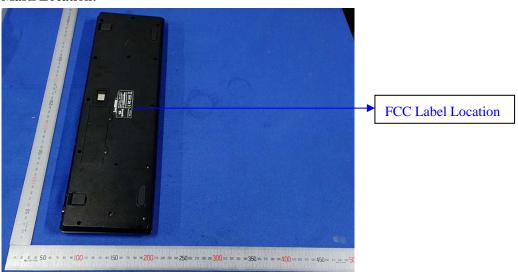
10.0 FCC ID Label

FCC ID: TUVET-8668

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



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

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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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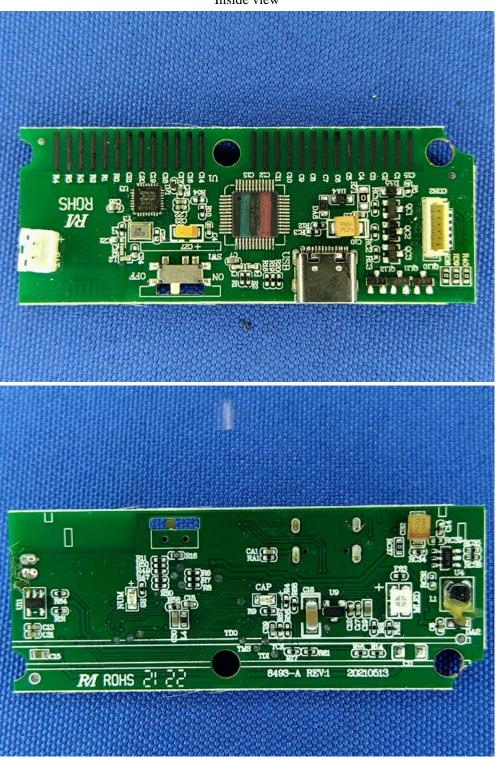
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Inside view



-- End of the report--

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