

Report No.:	TW2312260E
Applicant:	Eastern Times Technology Co., Ltd
Product:	2.4GHz Wireless Keyboard
Model No.:	E-787, ET-8804, E10177, E-787PRO
Trademark:	E-YOOSO
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	

Terry Jong

Terry Tang

Manager

Dated:

June 24, 2024

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



# **Special Statement:**

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

# A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

# CAB identifier: CN0033

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#### 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 I	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.

#### 1.3 Description of EUT

Description of LO1	
Product:	2.4GHz Wireless 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:	E-787
Additional Model Name	ET-8804, E10177, E-787PRO
Rating:	DC3V, 3.0mA
Battery	1pc 1.5V AA battery
Modulation Type:	GFSK
<b>Operation Frequency:</b>	2403-2479MHz
Channel List (Unit: MHz):	2403, 2422, 2441, 2463, 2407, 2436, 2459, 2466, 2414, 2419, 2439, 2453,
	2426, 2445, 2473, 2479
Hardware Version:	V1.1
Software Version:	V7.C
Serial No.:	231000001
Antenna Designation	PCB antenna with gain 2.73dBi Max (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration 2023-12-25 to 2024-06-24

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy -Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

#### 2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.



The EUT has been tested according to the following specifications:

## **3.0** Technical Details

#### 3.1 Summary of test results

The EOT has been tested according to the following specifications.					
Standard	Test Type	Result	Notes		
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies		
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A		
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

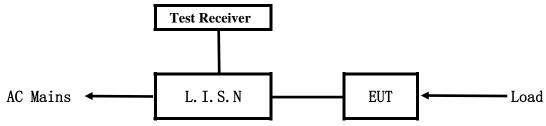
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# 5. Power Line Conducted Emission Test

5.1 Schematics of the test

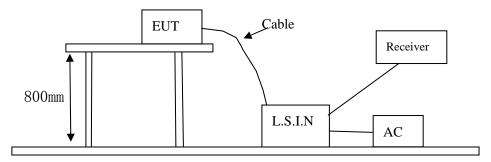


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. 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. Test Voltage: 120V~, 60Hz

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. 16 channels are provided to the EUT

Device	Manufacturer	Model	FCC ID
2.4GHz Wireless Keyboard	Eastern Times Technology	E-787, ET-8804,	TUVET-8804A
	Co., Ltd	E10177, E-787PRO	1 U V E 1-8804A

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B. Internal Device

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

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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 (d	IB μ V)
(MHz)	Quasi-peak Level	Ave ag Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.~0$	56.0	46.0
$5.00 \sim 30.00$	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

# 5.6 Test Results:

N/A

Note: EUT powered by AA battery, so this test item not applicable.

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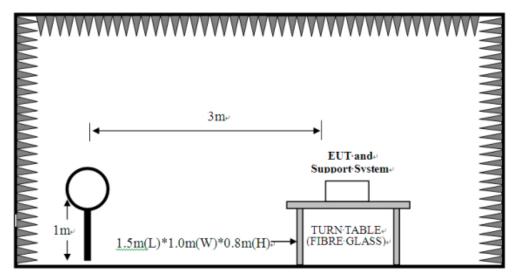


## 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 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

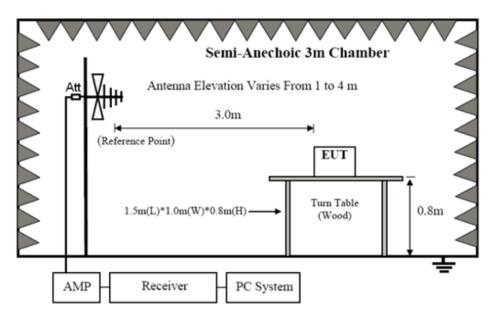


For radiated emissions from 30MHz to1GHz

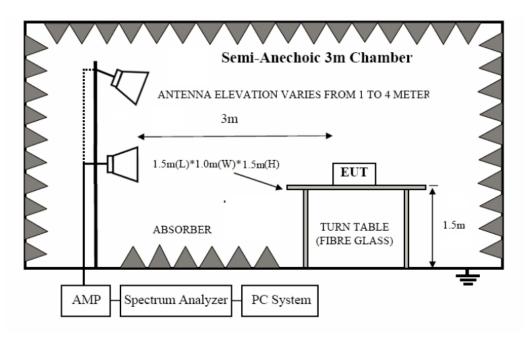
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For radiated emissions above 1GHz



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.

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# 6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m)Field Strength of Harmonics (3m)					
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	
	1 (15 15			1			

# 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 $\mu$ 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:

te: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. 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. New Battery full charged was used during tests.

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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

(dBuV/m)

86.65

(dB)

-3.57

(dBuV/m)

114.0

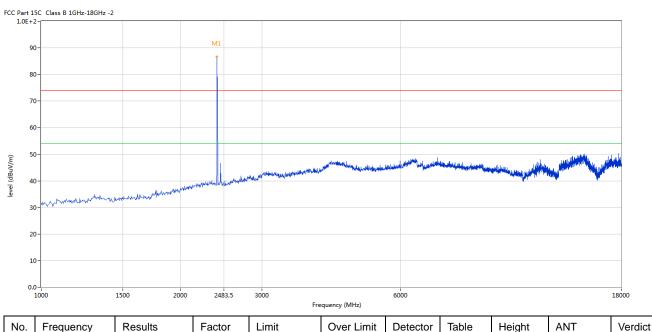
# Please refer to the following test plots for details: Low Channel-2403MHz

#### Horizontal

(MHz)

2403

1



(dB)

-27.35

(0)

164.00

Peak

(cm)

100

Horizontal

Pass

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1

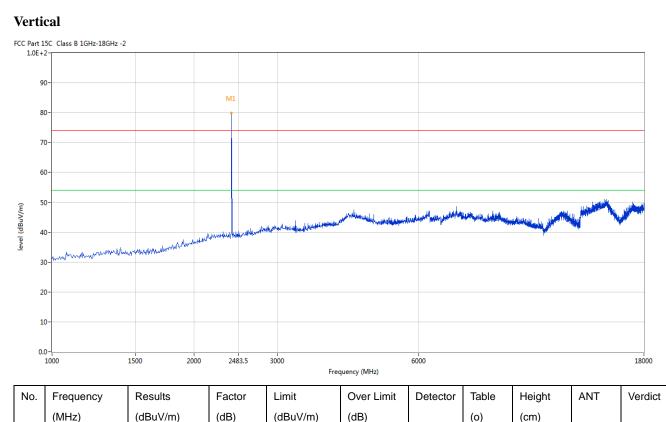
2403

79.84

-3.57

114.0





-34.16

Peak

88.00

100

Vertical

Pass

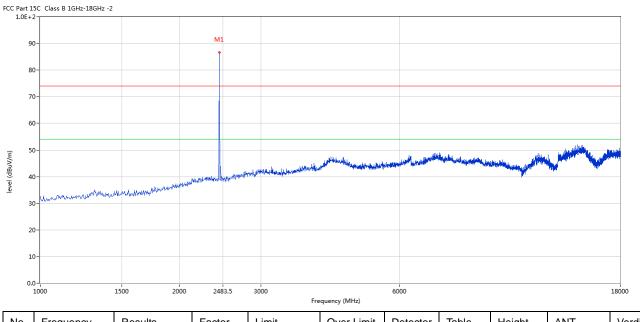
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## Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

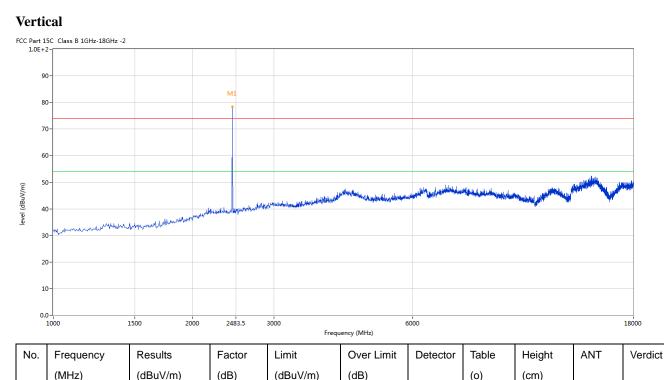


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.71	-3.57	114.0	-27.29	Peak	360.00	100	Horizontal	Pass

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348.00

100

Vertical

Pass

Peak

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78.43

-3.57

114.0

-35.57

2441

1

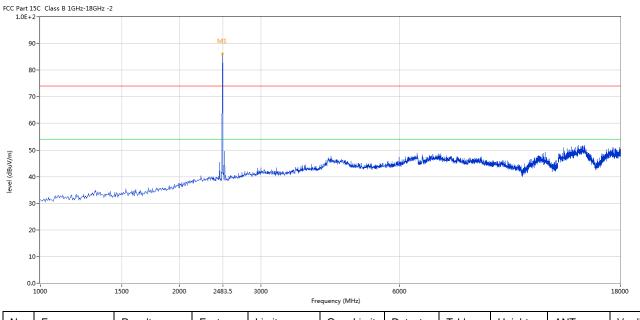
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## Please refer to the following test plots for details: High Channel-2479MHz

#### Horizontal

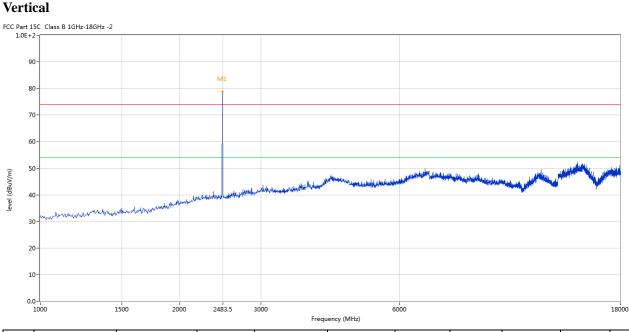


N	о.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2479	86.12	-3.57	114.0	-27.88	Peak	344.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479	78.80	-3.57	114.0	-35.20	Peak	275.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3) Margin=Emission-Limits

- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, it is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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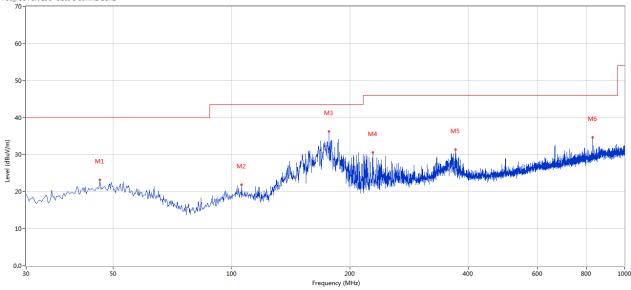
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

## Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	46.243	23.15	-11.41	40.0	16.85	Peak	144.00	100	Horizontal	Pass
2	106.126	21.91	-13.32	43.5	21.59	Peak	103.00	100	Horizontal	Pass
3	177.161	36.20	-15.71	43.5	7.30	Peak	261.00	100	Horizontal	Pass
4	228.800	30.64	-12.72	46.0	15.36	Peak	338.00	100	Horizontal	Pass
5	371.112	31.39	-9.52	46.0	14.61	Peak	360.00	100	Horizontal	Pass
6	831.020	34.72	-2.84	46.0	11.28	Peak	15.00	100	Horizontal	Pass

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Page 20 of 37

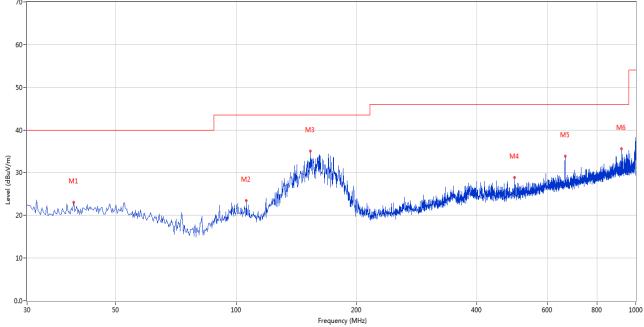
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	39.213	23.02	-12.55	40.0	16.98	Peak	256.00	100	Vertical	Pass
2	106.126	23.53	-13.32	43.5	19.97	Peak	222.00	100	Vertical	Pass
3	153.402	35.04	-16.85	43.5	8.46	Peak	282.00	100	Vertical	Pass
4	497.666	28.82	-7.12	46.0	17.18	Peak	254.00	100	Vertical	Pass
5	666.161	33.90	-4.50	46.0	12.10	Peak	339.00	100	Vertical	Pass
6	919.025	35.59	-1.93	46.0	10.41	Peak	315.00	100	Vertical	Pass

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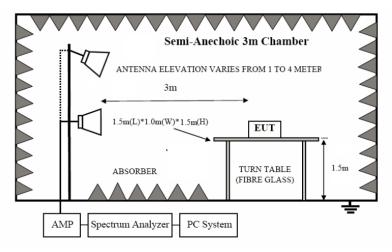


## 7. Band Edge

## 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

# 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

# 7.3 Configuration of the EUT

Same as section 5.3 of this report

# 7.4 EUT Operating Condition

Same as section 5.4 of this report.

# 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least

50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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#### 7.6 Test Result

]	Product:	2.4G	Hz Wireles	s Keyboard		Polarity		H	Iorizontal	
	Mode	Ke	eping Tran	nsmitting	Т	est Voltag	e		DC1.5V	
Te	mperature		24 deg.	С,		Humidity			56% RH	
Τe	est Result:		Pass							
1.0E+ 9 8 7 6	15C Class B 1GHz-18GHz 2- 	-2				M4	МЭМ	A		
المراجع المراجع علام المراجع علام المراجع علم المراجع علم المراجع علم المراجع علم المراجع علم المراجع علم المراجع علم المراجع علم المراجع علم المراجع المراجع علم المراجع علم المراجع الم المراجع المراحع الماح المراجع الم المراحع المراحي المماح الم	0- 	ele fataren eta ele ele ele ele ele ele ele ele ele el	uniou nur seega adama d							
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2 0.	<mark>. Андинариальную син</mark> трофунальний трофунальний 10 - 10 - 0 -	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdic
4 3 2 1	Anti-end/washing      Anti-end/washing        10      -<			Limit	Over Limit	Detector Peak		•	1	r
4 3 2 1 0. No.	Anti-enderstand      Anti-enderstand        00      -      -        00      -      -        01      -      -        02      -      -        03      -      -        04      -      -        05      -      -        06      -      -        07      -      -        08      -      -        09      -      -        09      -      -        09      -      -        09      -      -        09      -      -        09      -      -        09      -      -        09      -      -        00      -      -      -        00      -      -      -      -        00      -      -      -      -        00      -      -      -      -        00      -      -      -      -	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)	ANT	Verdio
4 3 1 0. No.	Anticipation      Anticipation        0-      -        2350      -        Frequency      (MHz)        2403.832      -	(dBuV/m) 85.65	(dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 11.65	Peak	(o) 119.00	(cm) 100	ANT Horizontal	Verdio N/A
4 3 2 1 0. No. 1 2 3	Anti-end/anti-en	(dBuV/m) 85.65 45.10	(dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 11.65 -28.90	Peak Peak	(o) 119.00 23.14	(cm) 100 100	ANT Horizontal Horizontal	Verdio N/A Pass
3 2 1 0.	Anticipation of the second s	(dBuV/m) 85.65 45.10 36.86	(dB) -3.57 -3.57 -3.53	Limit (dBuV/m) 74.0 74.0 74.0	Over Limit (dB) 11.65 -28.90 -37.14	Peak Peak Peak	(o) 119.00 23.14 130.33	(cm) 100 100 100	ANT Horizontal Horizontal Horizontal	Verdio N/A Pass Pass

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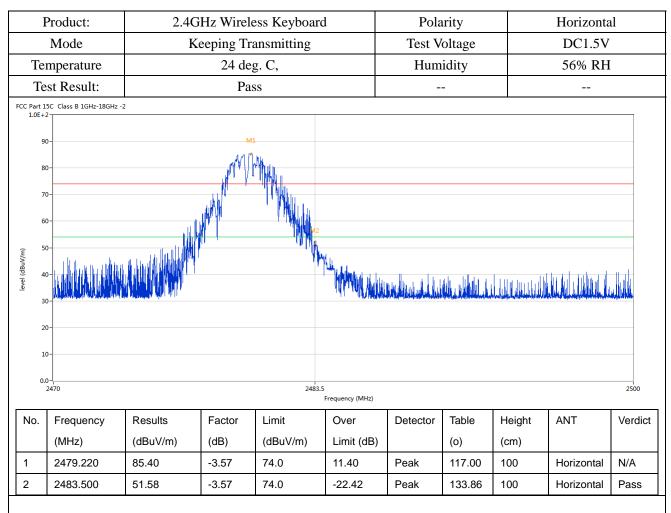
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	Product:					Detector Test Voltage			<i>Tertical</i>	
	Mode	Ke	eping Tran	smitting	Те	st Voltage		D	C1.5V	
Te	emperature		H	Humidity		56% RH				
Te	est Result:		Pass							
C Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
c	90-									
									М1	
8	30-								M	
7	70-								f h	
e	50 -							A	4	
	50-						M4	M5	14.	
5	- 50					МЗ	. 1	MD MI	Maria	th.
- 4	10-	an har bestelandin beige ter aller and	مرورة فالمعتبط والمتجارية والمتحافظ والمتحافظ والمحافظ	dollaristic and delay the	assessabled a set and a set of a set of a	والمالية ووالالالي والموالية المالية	Alter Annal Applet Aug		11 7	
	10	erefelssterfoldssilslandigen bester beste	n de la la de l	ىلى ئەلەيلارلىكى يەتىرىمىت مەتىرىكى يە	naathalista, kasar da faali in ay na badda	الله <mark>المعالية المعالية المعالمة المعالمة المعالمة المعالمة المعالية المعالية المعالية المعالية المعالية المعالمة الم</mark>	dite de la destruction de la destrucción			
3	- an all the state of the second s	nee haar hadassa nijiga he gegeriasa nija anas	na janjesteri anjete braništi i	dollarine namini de debitatu	uneralistation out frankrike and a state	hili Addin Jaho Baran Addin	dia di dina di angli di dina di di dina di di dina di dina di dina di dina di dina di di di di di di di di di d		"\	
3		enelva-holessi väse-holeseväeväeväevä	nau) kungsagangangking daran kiti ga	<i>ม่าใหม่หาวามสารมาไม่ได้ได้มีม</i> ุลไม	nastalidala, vili <sup>J</sup> anisi ale, adabida	hishir lipitan na filia	air da, da, didha,		"\	
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3		eerhankalassindig leigen terrakasane	na ja kastan sana dita ja ka dita kata dita ka	doğu de ser a s	uninistre al accordination	kulika junu <sub>n</sub> etta	end i ala fillar		"\	2410
3 2 1		eerkaa-kalassa näise kyöppe kärvaltusa reis	na ja seesen ja seese	duğunan kan kan dari diri diri dir F	requency (MHz)	hudda la kuraatia	end i ala fiilian			2410
2 2 1 0		Results	Factor	Limit	requency (MHz)	Detector	Table	Height	ANT	[
2 2 1 0	20					Detector	Table (o)	Height (cm)	ANT	[
3 2 1 0 No.	200- 2010- 2350 Frequency	Results	Factor	Limit	Over Limit	Detector		-	ANT	[
3	20- 2250 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdic
2 1 0 No.	Contraction of the second seco	Results (dBuV/m) 77.92	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 3.92	Peak	(o) 16.00	(cm) 100	Vertical	Verdic N/A
2 1 0 No.	20- 10- 2350 Frequency (MHz) 2403.012 2400.072	Results (dBuV/m) 77.92 38.23	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 3.92 -35.77	Peak Peak	(o) 16.00 128.00	(cm) 100 100	Vertical Vertical	Verdic N/A Pass

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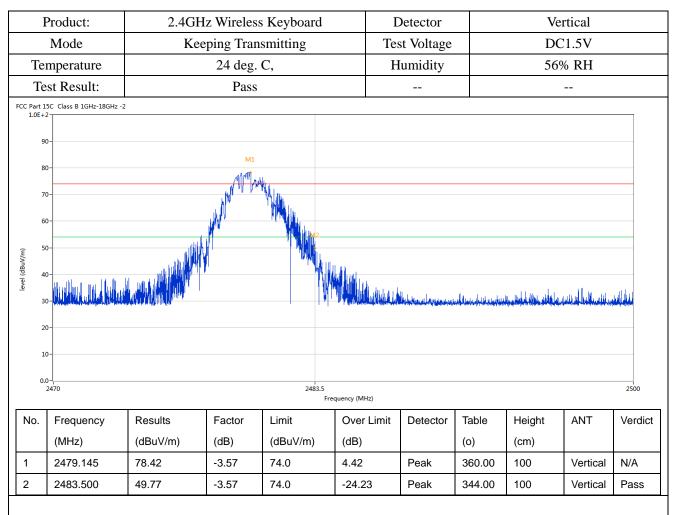




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Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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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 2.73dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	2.4GHz V	Wireless K	leyboard		Te	est Mode:		Keep tran	smitting	
Mode		ng Transm				est Voltage		DC1		
Temperature		24 deg. C,				Humidity		56% RH		
Test Result:		Pass			Detector		РК			
20dB Bandwidth	1.160MHz									
	Marker 1 [T1 ndB]			RI	BW	v 100 kHz		RF Att 20 dB		
Ref Lvl	ndB		00 dB	V	BW	300 ki	Hz			
10 dBm	BW 1	.160320	)64 MHz	SI	ΠW	5 m	s U	nit	dBm	ı
10						▼1	[T1]	- 5	.40 dBm	
								2.40300	301 GHz	A
0						ndB		20	.00 dB	
			and a marked	Mar	ų	BW		1.16032		
-10				•-	╲	$\nabla_{\mathrm{T1}}$	[ <u>T1</u> ]	-25	. <u>54</u> dBm 186 GHz	
		J	(				[T1]	-25	i.64 dBm	
-20		- North				- Mr		2.40359	218 GHz	
1MAX		7				Y Y				1MA
- 30	/						han			
	went						bary	www.		
-40	Man Man Marine								MM	
-50										
-60										
-70										
-80										
-90 Center 2.4	102 CHg		300	kHz/				Sna	an 3 MHz	

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Product:	Product:2.4GHz Wireless KeyboardModeKeeping Transmitting		Test Mode:	Keep transmitting    DC1.5V    56% RH    PK		
Mode			Test Voltage			
Temperature24 deg. C,Test Result:Pass			Humidity			
			Detector			
20dB Bandwidth	andwidth 1.202MHz					
Real Contractions of the second secon	Marker 1 [T1 nd	lB] F	BW 100 kH:	z RF Att 20	) dB	
Ref Lvl			BW 300 kH:		dDm	
10 dBm	BW 1.2024048	SI MHZ S	SWT 5 ms	Unit	dBm	
			▼1 [	T1] -3.71	A	
0				2.44099098		
		, March	ndB BW	1.20240481		
-10		N Y	~~ ⊽ <sub>T1</sub>	[T1] -24.03	3 dBm	
					ł GHz	
-20			▼ <sub>T2</sub>		) dBm	
1MAX	and a start			2.44162224	I GHZ	
-30	when we want			my my www	l	
-40					(MARA	
-50						
-60						
-70						
-80						
-90 Center 2.4	441 GHz	300 kHz/		Span 3	3 MHz	
	JUN.2024 15:10:06	,		Spon e		

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Product:	2.4GHz Wirele	Test M	ode:	Keep transmitting DC1.5V			
Mode	Keeping Tra	Test Vo	ltage				
Temperature24 deg. C,Test Result:Pass		Humio	lity	56% RH PK			
		s	Detector				
20dB Bandwidth	1.587MHz						
<b>K</b>	Marker 1 [	Tl ndB]	RBW 10	0 kHz	RF Att	20 dB	
Ref Lvl	ndB	20.00 dB		0 kHz			
10 dBm	BW 1.58	717435 MHz	SWT	5 ms	Unit	dBm	
10				▼1 [T1]	- 5	.13 dBm	A
					2.479039		
0		1		ndB	20.	.00 dB	
			Lang -	BW ▼T1 [T1]	1.587174	135 MHz $.72$ dBm	
-10					2.478203	341 GHz	
		have		▼ <sub>T2</sub> [T1]	-24	.39 dBm	
-20	T1		<u> </u>	<u>F</u> 2	2.47979	)58 GHz	ма
	and the second s				minin	<u> </u>	
-30	nemet					4	
mm						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-40							
-50							
-60							
-70							
-80							
-90							
Center 2	2.479 GHz	300 kH:	z/		Spar	ı 3 MHz	
Date: 2	1.JUN.2024 15:20	:55					

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#### 10.0 FCC ID Label

#### FCC ID: TUVET-8804A

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:



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

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- 11.0 Photo of testing
- 11.1 Conducted test View--Radiated emission test view



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11.2

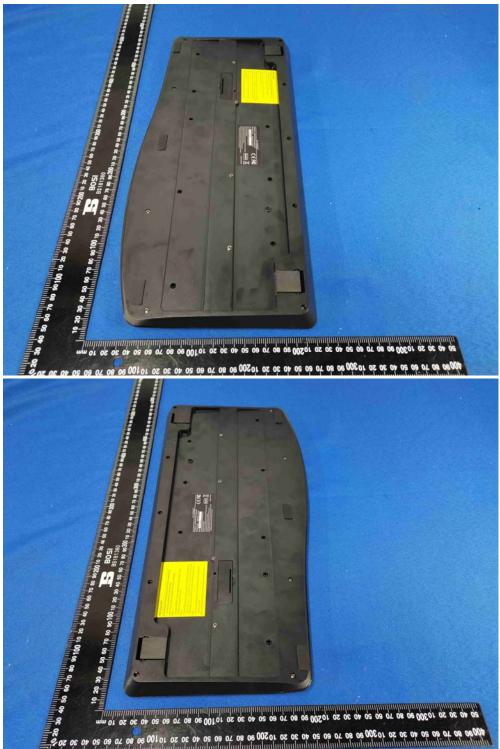
Outside View-Keyboard



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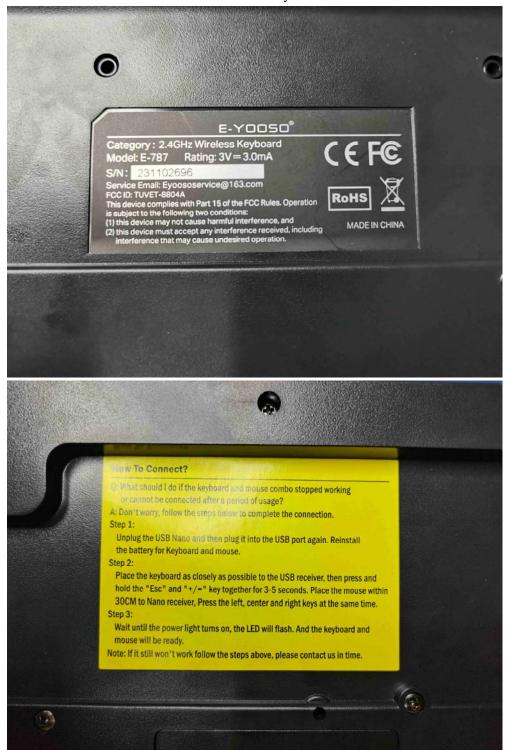
Outside View-Keyboard



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Outside View-Keyboard



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#### Outside View-Keyboard

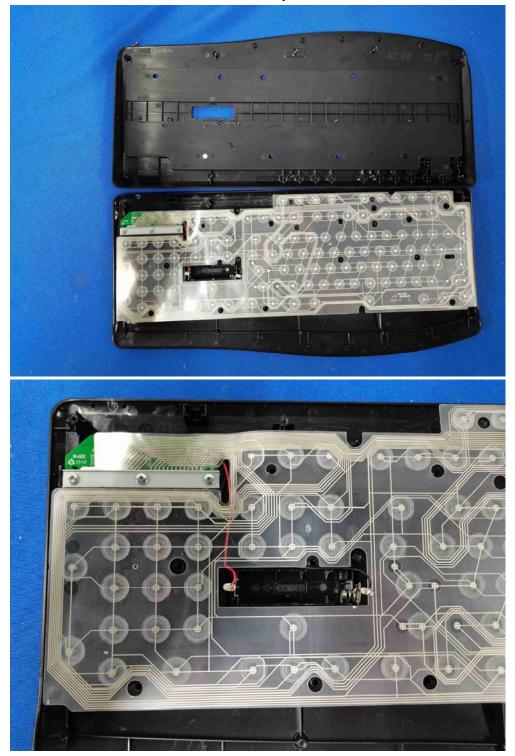


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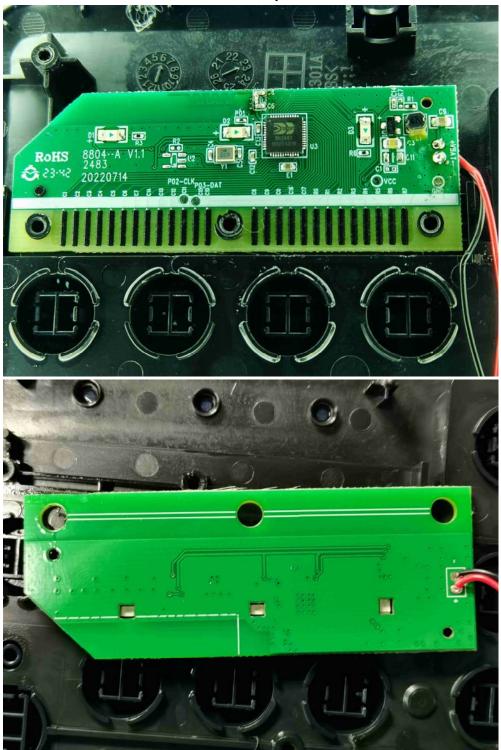
Inside View-Keyboard



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Inside View-Keyboard



-- End of the Report--

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