



Report No.: TW2110115-02E

File reference No.: 2021-12-11

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRELESS MULTIMODE KEYBOARD

Model No.: I-602, ET-8605, ET-8556, ET-8591, ET-8592, ET-8557,

ET-8605, ET-8606

Trademark: ET

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

Jack Chung

Manager

Dated: December 11, 2021

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

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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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Antenna Requirement.....

20dB bandwidth measurement....

FCC ID Label.....

Photo of Test Setup and EUT View....

Date: 2021-12-11



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 MULTIMODE KEYBOARD

Manufacturer: Eastern Times Technology Co.,Ltd

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

Dongguan City, Guangdong, China.

Trademark: ET
Additional Trademark: N/A
Model Number: I-602

Additional Model Name ET-8605, ET-8556, ET-8591, ET-8592, ET-8557, ET-8605, ET-8606

Serial No.: 21H0019 Rating: DC5V, 200mA

Battery: DC3.8V, 1600mAh Li-ion Battery

Modulation Type: GFSK, π/4D-QPSK, 8DPSK (Bluetooth)

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

2021-10-20 to 2021-12-11

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

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
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	2021-01-06	2022-01-05

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

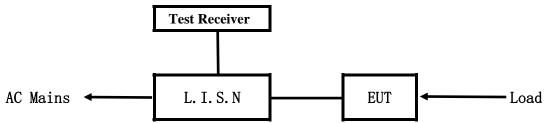
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

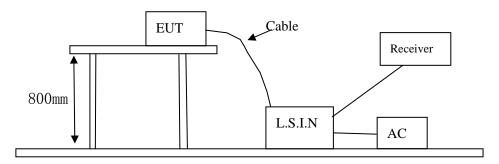


EUT: Equipment Under Test

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 MULTIMODE	Eastern Times	I-602, ET-8605, ET-8556, ET-8591,	TUVI-602
KEYBOARD	Technology Co.,Ltd	ET-8592, ET-8557, ET-8605, ET-8606	1 U V 1-002

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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 μ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

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

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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

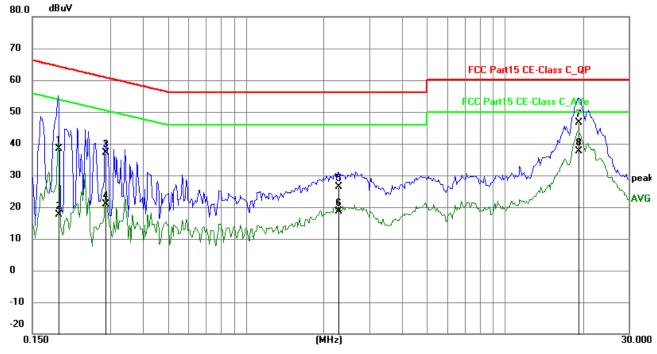
EUT Operating Environment

Temperature: 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	0.1890	28.53	9.76	38.29	64.08	-25.79	QP	Р
2	0.1890	7.76	9.76	17.52	54.08	-36.56	AVG	Р
3	0.2865	27.29	9.76	37.05	60.63	-23.58	QP	Р
4	0.2865	11.05	9.76	20.81	50.63	-29.82	AVG	Р
5	2.2755	16.48	9.81	26.29	56.00	-29.71	QP	Р
6	2.2755	8.74	9.81	18.55	46.00	-27.45	AVG	Р
7	19.2201	36.06	10.63	46.69	60.00	-13.31	QP	Р
8	19.2201	26.91	10.63	37.54	50.00	-12.46	AVG	Р

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

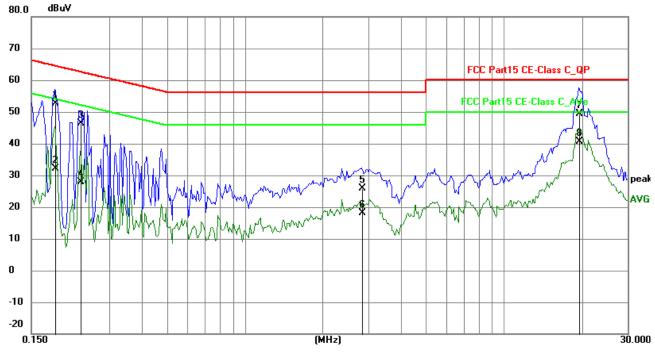
EUT Operating Environment

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	0.1850	42.84	9.76	52.60	64.26	-11.66	QP	Р
2	0.1850	22.27	9.76	32.03	54.26	-22.23	AVG	Р
3	0.2319	36.75	9.75	46.50	62.38	-15.88	QP	Р
4	0.2319	18.06	9.75	27.81	52.38	-24.57	AVG	Р
5	2.8254	16.02	9.84	25.86	56.00	-30.14	QP	Р
6	2.8254	8.23	9.84	18.07	46.00	-27.93	AVG	Р
7	19.4931	38.77	10.65	49.42	60.00	-10.58	QP	Р
8	19.4931	29.94	10.65	40.59	50.00	-9.41	AVG	Р

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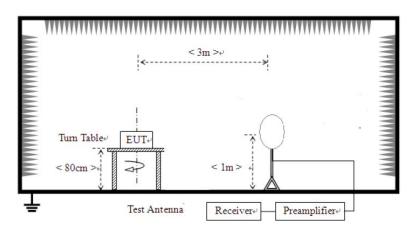


6 Radiated Emission Test

- 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

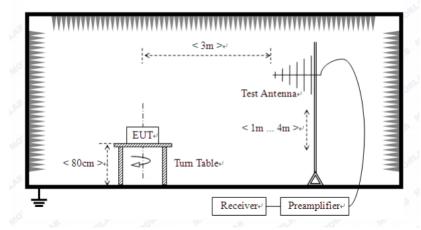


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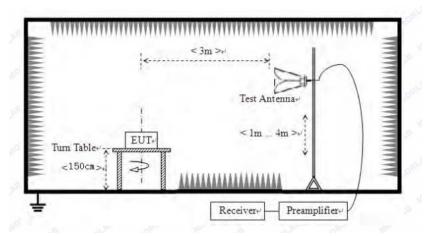
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For radiated emissions from 30MHz to1GHz



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 S	trength of Harmo	nics (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. The three modulation modes of GFSK, π /4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 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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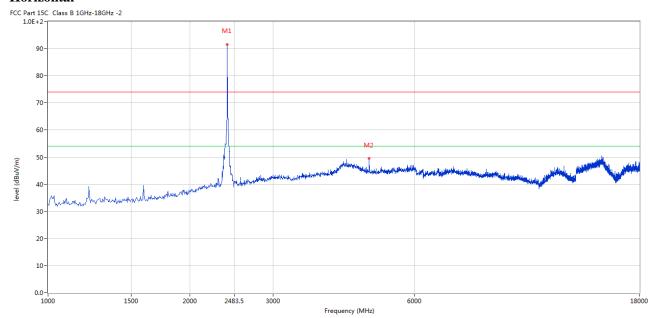


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



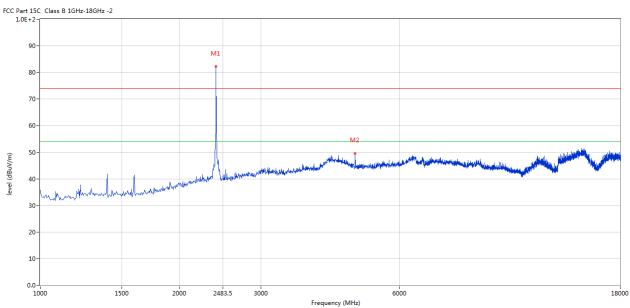
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2401.956	91.85	-3.57	114.0	-22.15	Peak	222.00	100	Horizontal	Pass
2	4802.799	49.61	3.12	74.0	-24.39	Peak	126.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.956	82.63	-3.57	114.0	-31.37	Peak	24.00	100	Vertical	Pass
2	4802.799	49.53	3.12	74.0	-24.47	Peak	143.00	100	Vertical	Pass

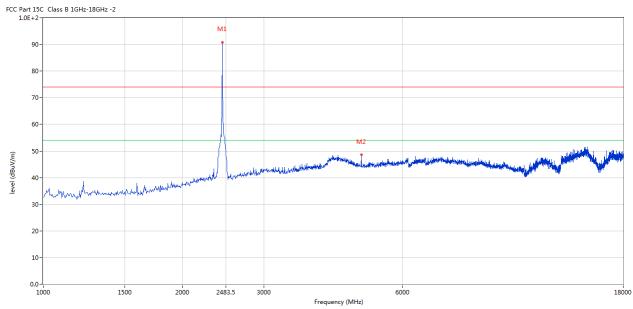
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



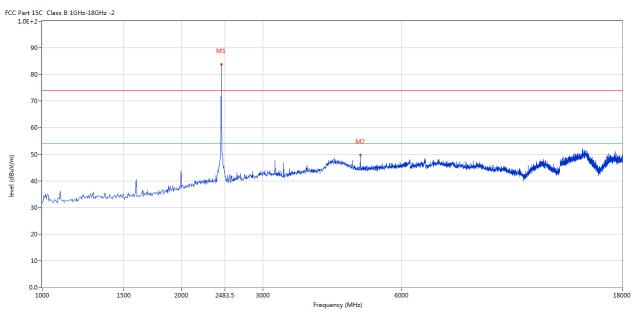
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.955	90.84	-3.57	114.0	-23.16	Peak	221.00	100	Horizontal	Pass
2	4879.280	48.67	3.20	74.0	-25.33	Peak	135.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.955	83.90	-3.57	114.0	-30.10	Peak	101.00	100	Vertical	Pass
2	4879.280	49.63	3.20	74.0	-24.37	Peak	347.00	100	Vertical	Pass

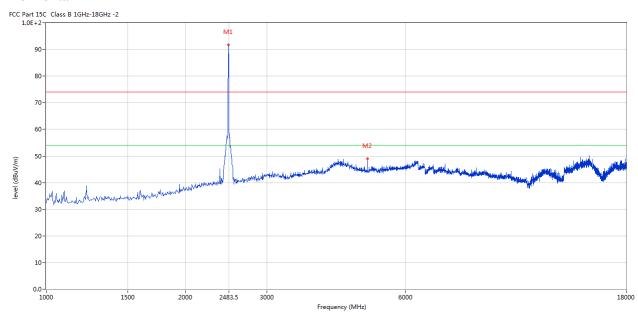
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.956	91.67	-3.57	114.0	-22.33	Peak	230.00	100	Horizontal	Pass
2	4960.010	49.05	3.36	74.0	-23.95	Peak	168.00	100	Horizontal	Pass

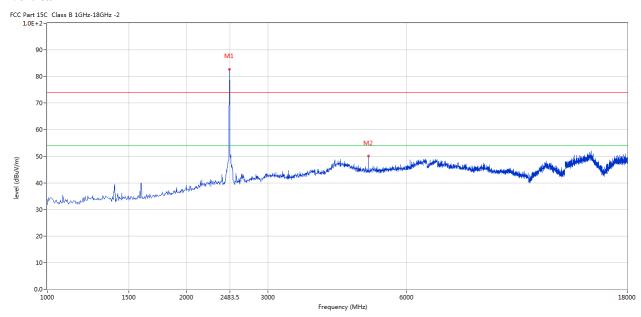
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.956	82.74	-3.57	114.0	-31.26	Peak	285.00	100	Vertical	Pass
2	4960.010	50.15	3.36	74.0	-23.85	Peak	254.00	100	Vertical	Pass

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

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

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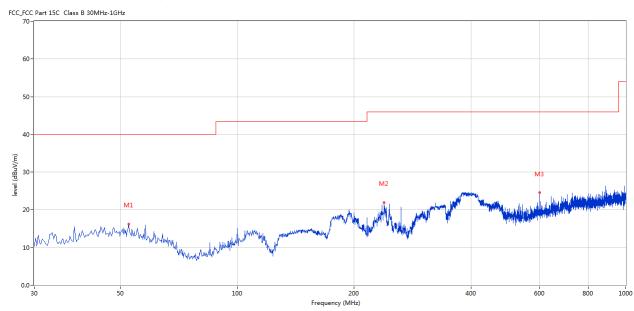


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	52.547	16.26	-11.46	40.0	-23.74	Peak	16.00	100	Horizontal	Pass
2	238.740	21.91	-12.43	46.0	-24.09	Peak	74.00	100	Horizontal	Pass
3	599.975	24.54	-4.95	46.0	-21.46	Peak	0.00	100	Horizontal	Pass

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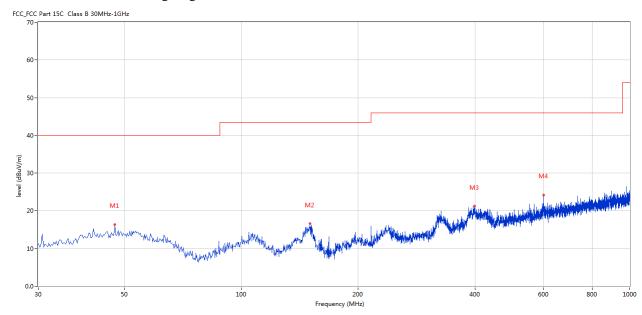


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	47.213	16.39	-11.41	40.0	-23.61	Peak	287.00	100	Vertical	Pass
2	150.250	16.54	-17.02	43.5	-26.96	Peak	267.00	100	Vertical	Pass
3	398.265	21.19	-8.67	46.0	-24.81	Peak	296.00	100	Vertical	Pass
4	599.975	24.17	-4.95	46.0	-21.83	Peak	315.00	100	Vertical	Pass

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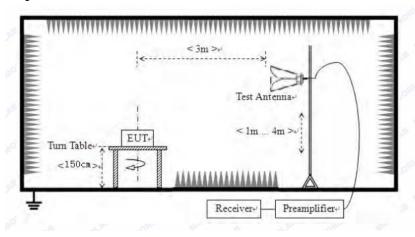


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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

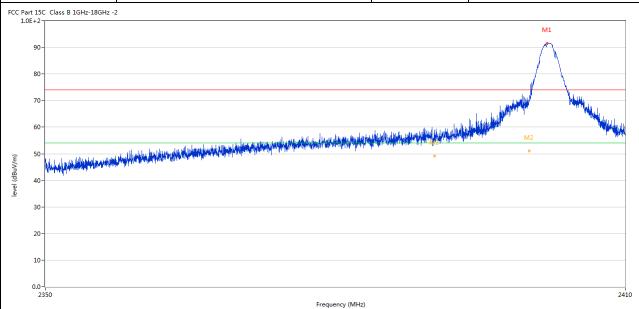
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7.6 Test Result

Product:	WIRELESS MULTIMODE KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

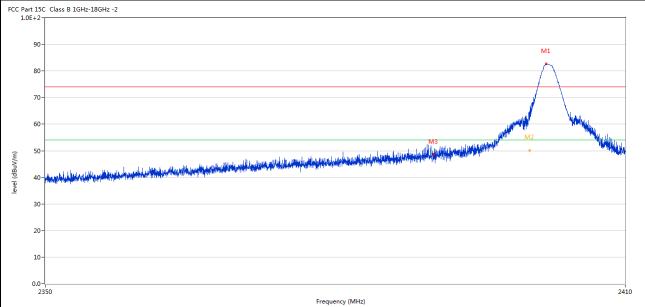


No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.842	91.58	-3.57	74.0	17.58	Peak	244.00	100	Horizontal	N/A
2	2399.953	69.43	-3.57	74.0	-4.57	Peak	226.00	100	Horizontal	Pass
2**	2399.953	51.10	-3.57	54.0	-2.90	AV	226.00	100	Horizontal	Pass
3	2390.085	58.87	-3.53	74.0	-15.13	Peak	226.00	100	Horizontal	Pass
3**	2390.085	49.13	-3.53	54.0	-4.87	AV	226.00	100	Horizontal	Pass

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WIRELESS MULTIMODE KEYBOARD	Detector	Vertical
Keeping Transmitting	Test Voltage	DC3.8V
24 deg. C,	Humidity	56% RH
Pass		
	Keeping Transmitting 24 deg. C,	Keeping Transmitting Test Voltage 24 deg. C, Humidity



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.737	82.60	-3.57	74.0	8.60	Peak	23.00	100	Vertical	N/A
2	2400.012	61.82	-3.57	74.0	-12.18	Peak	50.00	100	Vertical	Pass
2**	2400.012	50.09	-3.57	54.0	-3.91	AV	50.00	100	Vertical	Pass
3	2390.025	48.67	-3.53	74.0	-25.33	Peak	108.00	100	Vertical	Pass

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Pı	roduct:	WIREL	ESS MU	JLTIMODE	KEYBOARD	P	olarity		Horizont	tal
]	Mode		Keepi	ng Transmit	ting	Tes	t Voltage		DC3.8V	V
Ten	nperature		,	24 deg. C,		Н	umidity		56% RI	Н
Tes	t Result:			Pass						
art 150	Class B 1GHz-18GHz	-2								
90-										
70-	. 10	hala balan ka da ka		-	M2					
60-		A STATE OF THE PARTY OF THE PAR			M2		tell telleratifica	had in the particular		المتعارض المتعارض المتعارض
50-									.,,	The state of
50 - 40 -					•					1
										1
40-										1
40 - 30 - 20 -										1 11 11 11
40 - 30 - 20 -										
40 - 30 - 20 - 10 -	170				2483.5 Frequency (MHz)					
40 - 30 - 20 - 10 - 0.0 - 24		Results	Factor	Limit	2483.5 Frequency (MHz)	etector	Table (o)	Height	ANT	
40 - 30 - 20 - 10 - 0.0 - 24	170				2483.5 Frequency (MHz)					250
40- 30- 20- 10- 0.0- 24	Frequency	Results	Factor	Limit	2483.5 Frequency (MHz) Over Limit (dB)			Height		250
40- 30- 20- 10-	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz) Over Limit D (dB) 17.62 Pe	etector	Table (o)	Height (cm)	ANT	verdict

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	Product:	WIRELES	SS MULTII	MODE KEYB	OARD	Detecto	r	V	ertical	
	Mode		Keeping T	ransmitting		Test Volta	ge	D	C3.8V	
Te	emperature		24 de	eg. C,		Humidit	y	50	6% RH	
Т	est Result:		Pa	ass						
CC Part :	15C Class B 1GHz-18GHz -	2					•			
	90-									
-	50									
8	30-			Y						
7	70-		المان المان	1						
	50-			Trade de la constitución de la c	a I					
•			J*.	1 11111111	والمناب المناب ا					
	50-41-44-41-44-44-44-44-44-4	White the same of		WZ	THE WAY WAY	والمراوية والأوال والقالفة	die anderstand der Ander	والتناوية الطوالة	to talk out on	
		u til forder om til foren ett sterne		M ²	Market Control	AND THE PROPERTY OF THE PARTY O	had high they did	H. W.	Angelish qilindiqin day	_p ular Hilliage
	50-			M		dalah	hadrogaria, and	Harrittal Anton Parameria dal	Angelish qui wind qui way	پانپاالان یا _ت
(m/vudb) lavai						alateri kajaleri kaja projekti kaja projekti kaja projekti kaja projekti kaja projekti kaja projekti kaja proj	dynakodynika jedal	olypolody, plany pyromighi	Mayadidd y buddhafirdi a	polythild graph of the second
(m/vida)	40-					HPPH gillele ja nitte djenni	ilyantidyoldog old		Mandidalahida	polyte thing
evel (dbuv/m)	20-					iterita yakaki parindipari	potrojeki (jedi		May alimber alimber and a	golge Affiliage
(w/angp) layar	330-					iteratikan periodikan	general participants	MC profile and My participal to	An, distributed by the	Additional to the second
(m/yudb) lavai	20-			2483.5		iteratikan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan Kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan kenterakan k	Andrough the grant	(Carallel Lander)		2500
(w//m/w)	20-			2483.5 Freq	uency (MHz)			Height	ANT	Г
(w//wigo) AA	20- 10- 2470 Frequency	Results	Factor	2483.5 Freq Limit	uency (MHz) Over Limit	Detector	Table	Height (cm)	ANT	Г
(m/yudb) lavai	20-			2483.5 Freq	uency (MHz)			Height (cm)	ANT	Г
(W/NDGD) Javan	500- 100- 100- 100- 2470 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	2483.5 Freq Limit (dBuV/m)	uency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdic

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

2. The three modulation modes of GFSK, π /4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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

Test Result: Pass

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FSK Modulation	<u>n</u>									
Product:	WIR	ELESS M	ULTIMO	DE KEYB	OARD	Test Mo	de:	Keep to	ransmitting	5
Mode		Keep	oing Trans	mitting		Test Volt	age	D	C3.8V	
Temperature			24 deg. (Ξ,		Humidi	ty	56	% RH	
Test Result:			Pass			Detecto	or	PK		
20dB Bandwidth			1.106MF	łz						
Ref Lvl		Marker 1 [T1 ndB] ndB 20.00 dB			RBW VBW	30 k 100 k		RF Att	20 dB	
0 dBm		BW 1	.106212	242 MHz	SWT	8.5 m	ıs (Unit	dBn	n
0						v ₁	[T1]	_	9.60 dBm	1_
				1				2.4019	5491 GHz	3
-10				~ /W^	1	ndI	8	2	0.00 dB	1
			^	JV	v G	BW ▽ _T		1.1062		
-20			$\overline{}$			M T	[T1]	2 4014	9.59 dBm 1984 GHz	
		9				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 [T1]	-2	9.44 dBm	
-30)			<u> </u>		2.4025	2605 GHz	2
1MAX -40		المراجع				4	_			11
-50	~~^~	~ \						my	W.M.	
-60										
-70										
-80										
-90										
100										
-100 Center 2.	402 GI	Hz		300	kHz/			g	an 3 MHz	-1 1 2

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Product:	WIREL	ESS MUI	LTIMODE	KEYBOA	ARD	Γ	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage		DC	3.8V	
Temperature		2	4 deg. C,				Humidity		56% RH		
Test Result:			Pass				Detector		I	PK	
20dB Bandwidth		1.	.076MHz								
F	Marker 1 [T1 ndB]					BW	30 kH	Iz RI	7 Att	20 dB	
Ref Lvl	ndB 20.00 dB			V	BW	100 kH	Íz				
0 dBm		BW 1	L.076152	230 MHz	S	WT	8.5 ms	. Ur	nit	dBm	ı
							v ₁	[T1]	-10	.02 dBm	A
				1					2.44095	491 GHz	A
-10				_ ///\	Λ.		ndB		20	.00 dB	
	\sim						BW		1.07615	230 MHz	
-20	\sim					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	∇_{T1}	[T1]	-30	1.36 dBm	
						V VTZT2		2.440419 [T1] -30			
-30							1212	[11]	2.44149	599 GHz	İ
1MAX	\ <u>\</u>						L _m				1M
-40							<u> </u>	~			
-40 -50	www.	/\ \ \						Lynn	M		
-50	*							•	"Lym	~~_~~	
										Ť	
-60											
7.0											
-70											
-80											
-90											
-100											
Center 2	Center 2.441 GHz			300	kHz/				Spa	n 3 MHz	

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GFSK Modulat	1			· · · · · · · · · · · · · · · · · · ·		T		**		
Product:	WIREL			KEYBOA		Test Mode:			ansmitting	
Mode			g Transmi	tting		Test Voltage	е		C3.8V	
Temperature		2	4 deg. C,			Humidity			% RH	
Test Result:			Pass			Detector]	PK	
20dB Bandwidth		1.	070MHz							
Ŕ	Marker 1 [T1 ndB]				RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB 20.00 dB			VBW	100 k	Hz				
0 dBm		BW 1	.070140)28 MHz	SWT	8.5 m	ıs U	nit	dBm	
0						v ₁	[T1]	-10	1.80 dBm	A
				1				2.47995	491 GHz	Α.
-10				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Λ	ndI	3	20	0.00 dB	
				\sim	M	BW ▼ _T		1.07014		
-20			/\		$\overline{}$	V _T	[T1]	-33	-31.26 dBm	
			\sim			$\sqrt{\mathbb{T}_2^{\nabla}}$	ው [ሞ1]			
-30						VITZI		2.48048	0.58 dBm 8998 GHz	
1MAX						_				1MA
-50 ² /1	A., W						7.	\		
E O MANAMA	May .						MM	Mary Mary		
-50									A. M. M.	
-60										
-70										
-80										
-90										
-100	-100									
Center 2	.48 GHz			300	kHz/			Spa	an 3 MHz	•
ate: 8.NOV.2021 16:25:10										

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Product:	WIRFI	ESS MIII	TIMODE	KEYBOA	ARD	Т	est Mode:		Keen tr	ansmitting	
Mode	WIKEL		g Transmi		IKD		est Voltage			C3.8V	
Temperature			4 deg. C,	unig			Humidity			% RH	
Test Result:			Pass				Detector			PK	
20dB Bandwidth		1	.311MHz								
â											
Ref Lvl					BW BW	30 k 100 k		F Att	20 dB		
0 dBm			.20. 1.310621			WT	8.5 m		nit	dBm	
0							v ₁	[T1]	11	3.39 dBm	
								[11]	2.40177	7455 GHz	A
-10				<u> </u>			ndE	8	20	0.00 dB	
				Λh ,			BW		1.31062	2124 MHz	
-20			~~~~		$\sqrt{\Lambda}$	V	V VV V T1	[T1]	-33	3.37 dBm	
							V _T	2.40131162 GH [T1] -33.41 dB			
-30								[2	2224 GHz		
1MAX	A.	اله ما المهما									1MA
-40 -50	<u> </u>	. <u>"M</u>						Why	Windy	www.W	
-50											
-60											
-70											
-80											
-90											
-100											
·	.402 G	Hz	•	300	kHz/				Spa	an 3 MHz	
Date: 8	Center 2.402 GHz										

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Product:	WIREL	ESS MUI	LTIMODE	KEYBO	ARD	T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC	C3.8V	
Temperature		2	4 deg. C,]	Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth		1.	.311MHz								
Ŕ		Marker	1 [T1 r	ndB]	R	.BW	30 kH	z Ri	z RF Att 20 dB		
Ref Lvl	ndB 20.00 dB			V	BW	100 kH					
0 dBm		BW 1	L.310621	24 MHz	S	WT	8.5 ms	Uı	nit	dBm	l
							v ₁	[T1]	-13	.77 dBm	A
1.0									2.44076	5253 GHz	
-10				1			ndB		20	0.00 dB	
			00.4	M \ \ \ \ \ \	Λ Λ		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	1.31062	2124 MHz 3.99 dBm	
-20			~~~\	~~~ W	V~~	A MY		2.440			
	<u>,</u>						∇ _{T2}	[T1] -33.62 dB			
-30		T						2	2.44162	224 GHz	
1MAX							(1M
-40	Yall delle	7 ^N K						Mary .			
	V W							• ••	Munn	Lin im	
-50										W W	
-60											
-70											
-80											
-90											
-100											
Center 2	.441 GHz 300 kHz				kHz/				Spa	an 3 MHz	_

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Product:	WIREL	ESS MUI	LTIMODE	KEYBO	ARD	Т	est Mode:		Keep tra	ansmitting		
Mode	_	Keepin	g Transmi	tting		Te	est Voltage		DC	C3.8V		
Temperature		2	4 deg. C,				Humidity		569	% RH		
Test Result:			Pass				Detector]	PK		
OdB Bandwidth		1.	.311MHz									
r	Marker 1 [T1 ndB]			F	RBW	30 kH	z R	F Att	20 dB			
Ref Lvl	ndB 20.00 dB			7	/BW	100 kH						
0 dBm		BW 1	1.310621	24 MHz	5	SWT	8.5 ms	5 U:	nit	dBm	1	
							v ₁	[T1]	-14	1.74 dBm	A	
-10									2.47976	854 GHz		
				1			ndB BW		1.31062	0.00 dB 2124 MHz		
-20			Δ4.4	(\ \ \	Λ.		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	-34	1.96 dBm		
-20						ζ	7				GHz	
3.0						→ _T		[T1] -34		1.89 dBm		
-30 1MAX							T. Control of the con	2	2.48062	224 GHz	1M	
-40	V M MV	W						phard	M. Mayan			
-50										- V		
-60												
-70												
-80												
-90												
-100 Center 2	48 CH	48 GHz 300 kHz							gn-	an 3 MHz		
ate: 8	Center 2.48 GHz			300	/				SPC	5 11112		

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Product:	WIREL	ESS MUI	LTIMODE	KEYBO	ARD	T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Т	est Voltage		DC	3.8V	
Temperature -		2	4 deg. C,]	Humidity	56% RH			
Test Result:			Pass				Detector		1	PK	
dB Bandwidth	1.311MHz										
	Marker 1 [T1 ndB]			R.I	BW	30 kH:	z Rl	F Att	20 dB		
Ref Lvl	ndB 20.00 dB					BW	100 kH:	Z			
0 dBm	BW 1.31062124 MHz					ТW	8.5 ms		nit	dBm	ı
0							▼ 1 [T1]	-13	.48 dBm	
									2.40177	455 GHz	A
-10				1			ndB		20	.00 dB	
				\bigwedge_{i}	^ .		BW		1.31062	124 MHz	
-20			~~\ [\] \	$V^{\Lambda_{\alpha}}$	\checkmark	V TT	[T1] -33.40 2.40131162				
							∇	T2 [T1] 2.4013.		162 GHz 3.19 dBm	
-30								[11]	2.40262	224 GHz	
1MAX							۲				1M
-40	d Admir						4				
-40 mm/m/l/m	////								howwhy	YMM	
-50									•	• •	
-60											
-70											
-80											
-90											
						Ī					
-100											
Center 2	.402 GHz 300 kHz/				kHz/	<u> </u>	· · · · · · · · · · · · · · · · · · ·		Spa	n 3 MHz	•

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8QPSK Modul	lation										
Product:	WIREL	ESS MUI	LTIMODE	KEYBOA	ARD	Τ	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage	e	DC	23.8V	
Temperature		2	4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
20dB Bandwidth		1.	.311MHz								
R)	Marker 1 [T1 ndB]			R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl	ndB 20.00 dB BW 1.31062124 MHz				BW	100 k					
0 dBm		BW 1	L.310621	.24 MHz	S'	WT	8.5 m	ns U:	nit	dBm	
							\mathbf{v}_1	[T1]	-13	.85 dBm	A
-10									2.44076	854 GHz	
-10				1			ndI	8	20	.00 dB	
			^^ /	\bigwedge_{Λ}	ΛΛ	•	BW ▽ _{Ti}	l [T1]	1.31062	124 MHz	
-20			~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		7,~	7	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2.44031		
							√ _T :	2 [T1]	-33	.80 dBm	
-30	T						-	r2 v	2.44162	224 GHz	1MA
								١			
-40 WWWWW	$\sqrt{\sqrt{16}\sqrt{20}}$	71/-						Why			
WINDOW	·							•	manny	hy www.	
-50									U	, , , , , , , , , , , , , , , , , , ,	
-60											
-70											
-80											
-90											
-100											
Center 2	.441 GI	Hz		300	kHz/				Spa	an 3 MHz	
Date: 8.	.NOV.20	21 16:	43:24								

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Product: WIRELESS MULTIMODE KEYBOARD Test Mode: Keep transmitting	8QPSK Modula	tion										
Temperature 24 deg. C, Humidity 56% RH Test Result: Pass Detector PK 20dB Bandwidth 1.311MHz	Product:	WIREI	LESS MUI	TIMODE	KEYBOA	ARD	Те	est Mode	:	Keep tra	ansmitting	
Test Result: Pass	Mode		Keepin	g Transmi	tting		Te	st Voltage	e	DC	23.8V	
20dB Bandwidth	Temperature		2	4 deg. C,			I	Iumidity		569	% RH	
Marker 1 [T1 nd8] RBW 30 kHz RF Att 20 dB	Test Result:			Pass			I	Detector]	PK	
Ref Lvl ndB 20.00 dB VBW 100 kHz 0 dBm BW 1.31062124 MHz SWT 8.5 ms Unit dBm V1 [T1] -12.77 dBm 2.47978854 GHz -10 -20 -21.00 dB BW 1.31062124 MHz -77 [T1] -32.74 dBm 2.47978 162 GHz -30 IMAX -40 -50 -60 -70 -60 -70 -80 -90 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	20dB Bandwidth		1.	311MHz								
0 dBm BW 1.31062124 MHz SWT 8.5 ms Unit dBm V1 [T1]	Ŕ					RI	BW	30 k	Hz R	F Att	20 dB	
TI (TI) -14.77 dBm 2.47976854 GH2	•											
-10 -10 -10 -10 -10 -10 -10 -10 -10 -10	_		BW 1	.310621	.24 MHz	SI	ИT	8.5 n	ns U:	nit	dBm	
2.47976854 GR2 20.00 dB 1.31062124 MH2 2.47931162 GR2 2.47931162 GR2 2.47931162 GR2 2.48002224 GH2 1MAX -40 -50 -60 -70 -80 -90 Center 2.48 GHz 300 kHz/ Span 3 MHz								v ₁	[T1]	-14	.77 dBm	A
-20 -30 -30 -30 -30 -30 -30 -30 -30 -30 -3	1.0									2.47976	854 GHz	
-20 -30 -30 -30 -30 -30 -30 -30 -30 -30 -3	-10			1					3	20		
2.47931162 GHz -30 IMAX -40								[[]]				
-30 IMAX -40 -50 -60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-20											
-40 -50 -60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz								$\phi_{\rm T}$				
-40 -50 -60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz		T.							T2	2.48062	224 GHz	1 м д
-60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz		J						\\			Init	
-60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-40	MunMaun	₩						hum.			
-60 -70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	MMM	W-4 -4								MOMINIA	NA . uak	
-70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-50									· (10 ()		
-70 -80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz												
-80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-60											
-80 -90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz												
-90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-70						-					
-90 -100 Center 2.48 GHz 300 kHz/ Span 3 MHz												
-100 Center 2.48 GHz 300 kHz/ Span 3 MHz	-80						_					
-100 Center 2.48 GHz 300 kHz/ Span 3 MHz												
Center 2.48 GHz 300 kHz/ Span 3 MHz	-90						\perp					
Center 2.48 GHz 300 kHz/ Span 3 MHz												
	-100											
Date: 8.NOV.2021 16:44:39	Center 2	.48 GH	z		300	kHz/				Spa	ın 3 MHz	
,	Date: 8.	.NOV.20	21 16:	44:39								

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10.0 FCC ID Label

FCC ID: TUVI-602

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--



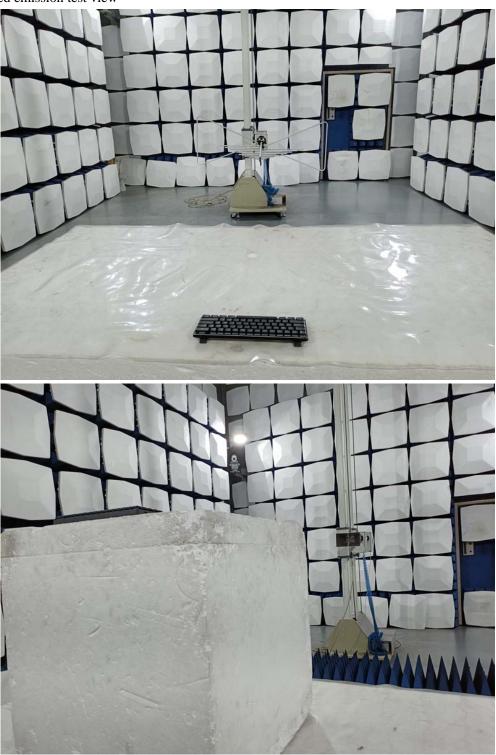
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Radiated emission test view



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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Outside View



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Inside view



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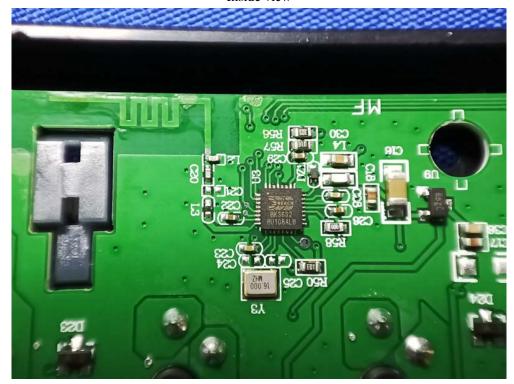
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

adopt any other remedies which may be appropriate.

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Inside view



-- End of the report--