



File reference No.: 2022-01-04

Applicant: Eastern Times Technology Co.,Ltd

Product: LOW-PROFILE 63 KEY MECHANICAL KEYBOARD

Model No.: K624P-KBS, ET-8602, ET-8603, ET-8608, ET-8609,

K624P-WBS, K624P-WNS, K624P-WRS, K624P-KNS,

K624P-KRS

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

Terry Tang

Manager

Dated: January 04, 2022

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Report No.: TW2112173-01E Page 2 of 40

Date: 2022-01-04



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: 2022-01-04



Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration.	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test.	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit.	9
5.6	Test Result	9
6.0	Radiated Emission test	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
7.0	Band Edge	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition.	23
7.5	Band Edge Limit.	23
7.6	Band Edge Test Result.	24
8.0	Antenna Requirement.	28
9.0	20dB bandwidth measurement.	29
10.0	FCC ID Label	32
11.0	Photo of Test Setup and EUT View.	33

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Date: 2022-01-04



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: LOW-PROFILE 63 KEY MECHANICAL KEYBOARD

Manufacturer: Eastern Times Technology Co.,Ltd

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

Dongguan City, Guangdong, China.

Trademark: REDRAGON Model Number: K624P-KBS

Additional Model Name ET-8602, ET-8603, ET-8608, ET-8609, K624P-WBS, K624P-WNS,

K624P-WRS, K624P-KNS, K624P-KRS

Rating: DC5V, 700mA or DC3.7V, 218mA Battery DC3.8V, 1600mAh Li-ion Battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel Number: 16

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

2419, 2445, 2465, 2480

Serial No.: RDK624P-KBS21092500159

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

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Report No.: TW2112173-01E Page 5 of 40

Date: 2022-01-04



1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2021-12-11 to 2022-01-04

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

Page 6 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



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	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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Page 7 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



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

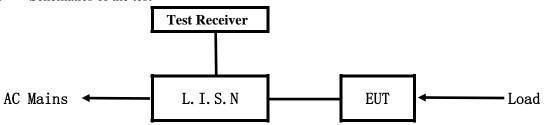
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2022-01-04



5. Power Line Conducted Emission Test

5.1 Schematics of the test

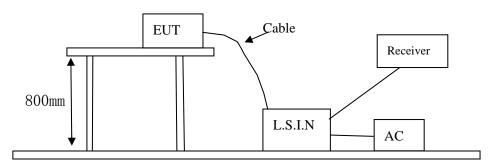


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 uH 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.

A. EUT

Device	Manufacturer	Model	FCC ID
LOW-PROFILE 63	Fastorn Times	K624P-KBS, ET-8602, ET-8603, ET-8608,	
KEY MECHANICAL	Eastern Times Technology Co.,Ltd	ET-8609, K624P-WBS, K624P-WNS,	TUVET-8602
KEYBOARD		K624P-WRS, K624P-KNS, K624P-KRS	

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Page 9 of 40

Date: 2022-01-04

Report No.: TW2112173-01E



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 C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

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

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

Date: 2022-01-04



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

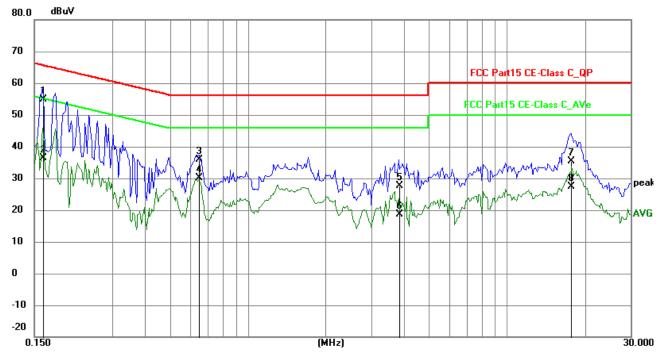
EUT Operating Environment

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

EUT set Condition: Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	45.22	9.78	55.00	65.38	-10.38	QP	Р
2	0.1617	26.66	9.78	36.44	55.38	-18.94	AVG	Р
3	0.6453	26.14	9.78	35.92	56.00	-20.08	QP	Р
4	0.6453	20.40	9.78	30.18	46.00	-15.82	AVG	Р
5	3.8346	17.80	9.88	27.68	56.00	-28.32	QP	П
6	3.8346	8.67	9.88	18.55	46.00	-27.45	AVG	П
7	17.6445	24.86	10.54	35.40	60.00	-24.60	QP Q	Ъ
8	17.6445	16.95	10.54	27.49	50.00	-22.51	AVG	Р

Date: 2022-01-04



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

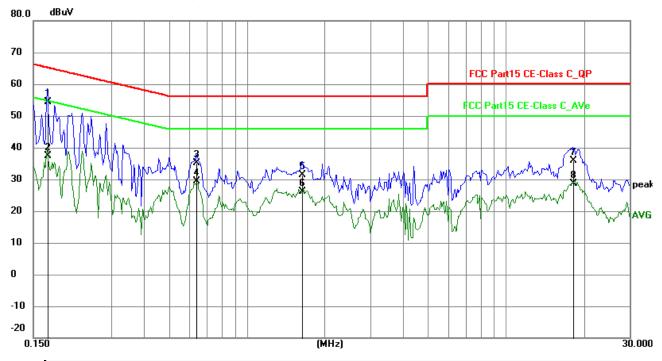
EUT Operating Environment

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

EUT set Condition: Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	44.51	9.77	54.28	64.98	-10.70	QP	Р
2	0.1695	27.49	9.77	37.26	54.98	-17.72	AVG	Р
3	0.6375	25.34	9.78	35.12	56.00	-20.88	QP	Р
4	0.6375	19.64	9.78	29.42	46.00	-16.58	AVG	П
5	1.6359	21.55	9.80	31.35	56.00	-24.65	QP	П
6	1.6359	16.31	9.80	26.11	46.00	-19.89	AVG	J
7	18.2139	25.19	10.57	35.76	60.00	-24.24	QP	Р
8	18.2139	18.08	10.57	28.65	50.00	-21.35	AVG	Р

Date: 2022-01-04

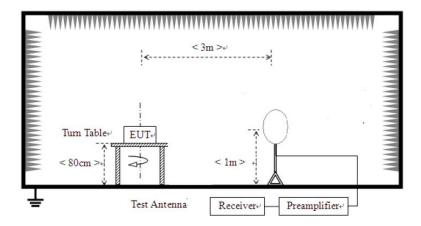


6 Radiated Emission Test

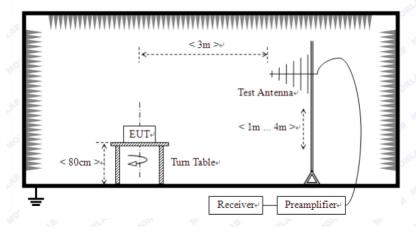
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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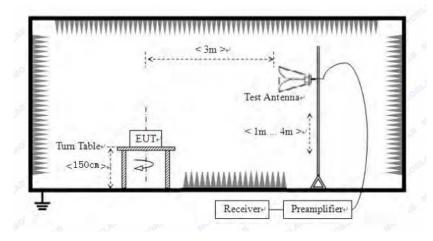
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Date: 2022-01-04



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

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

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

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

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Report No.: TW2112173-01E Page 14 of 40

Date: 2022-01-04



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
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 7. Battery full charged during tests.

Report No.: TW2112173-01E Page 15 of 40

Date: 2022-01-04

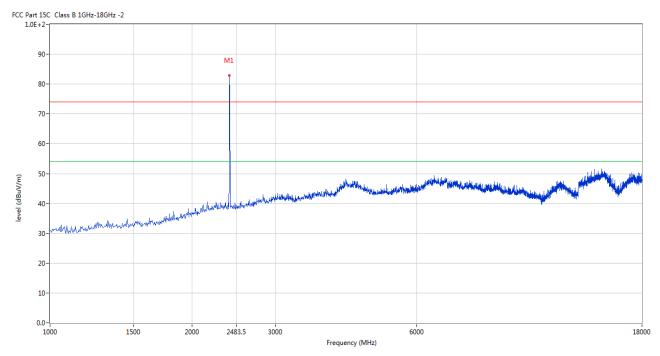


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



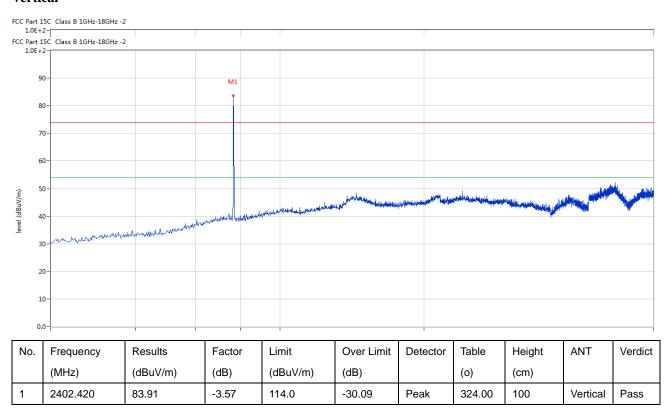
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.416	82.87	-3.57	114.0	-31.13	Peak	308.00	100	Horizontal	Pass

Report No.: TW2112173-01E Page 16 of 40

Date: 2022-01-04



Vertical



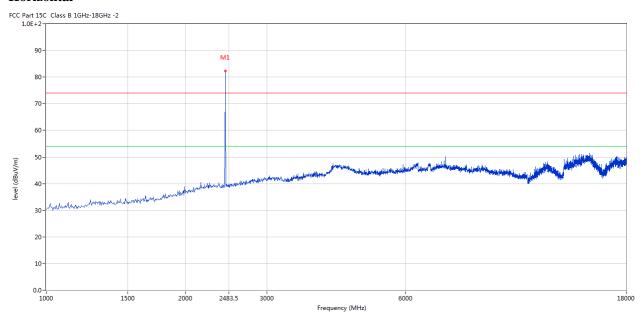
Report No.: TW2112173-01E Page 17 of 40

Date: 2022-01-04



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

Horizontal



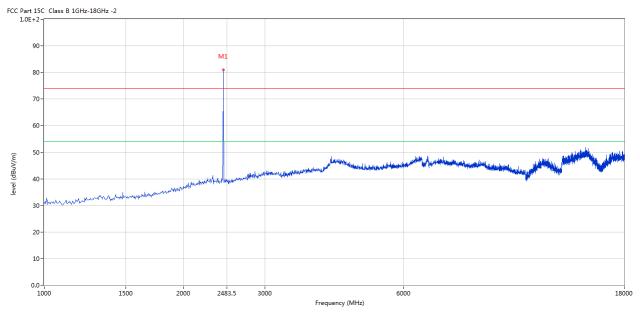
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2440.423	82.31	-3.57	114.0	-31.69	Peak	312.00	100	Horizontal	Pass

Report No.: TW2112173-01E Page 18 of 40

Date: 2022-01-04



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.423	81.00	-3.57	114.0	-33.00	Peak	328.00	100	Vertical	Pass

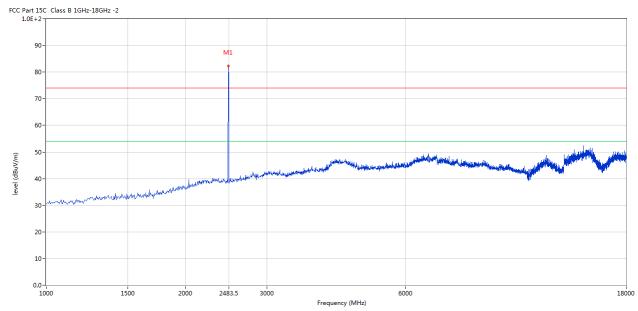
Report No.: TW2112173-01E Page 19 of 40

Date: 2022-01-04



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

Horizontal



	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
Ī	1	2479.429	82.29	-3.57	114.0	-31.71	Peak	226.00	100	Horizontal	Pass

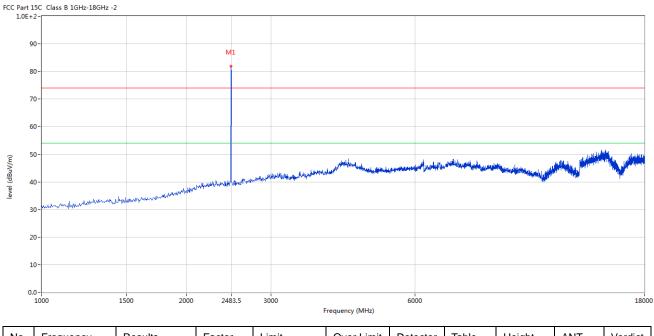
Page 20 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.424	81.84	-3.57	114.0	-32.16	Peak	219.00	100	Vertical	Pass

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

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

Report No.: TW2112173-01E Page 21 of 40

Date: 2022-01-04

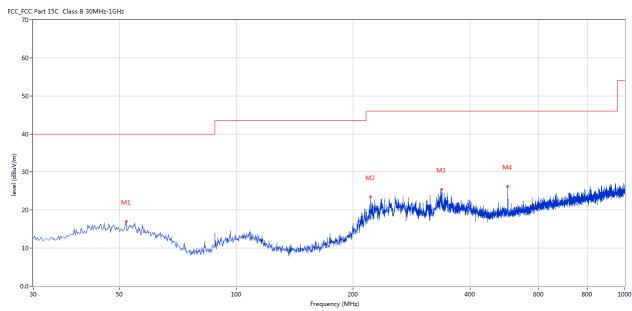


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	52.062	16.98	-11.43	40.0	-23.02	Peak	221.00	100	Horizontal	Pass
2	221.527	23.45	-13.25	46.0	-22.55	Peak	59.00	100	Horizontal	Pass
3	337.413	25.43	-9.83	46.0	-20.57	Peak	307.00	100	Horizontal	Pass
4	500.090	26.21	-6.91	46.0	-19.79	Peak	109.00	100	Horizontal	Pass

Report No.: TW2112173-01E Page 22 of 40

Date: 2022-01-04

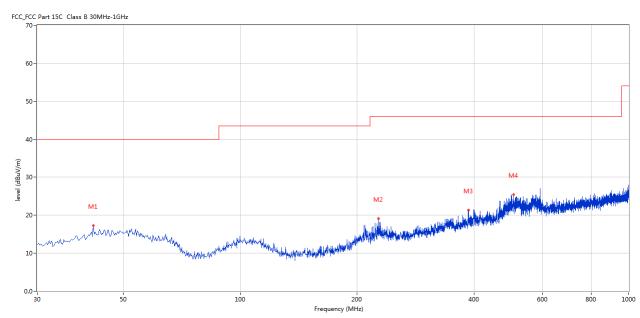


Radiated Emission In Vertical (30MHz----1000MHz)

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	41.880	17.29	-11.72	40.0	-22.71	Peak	168.00	100	Vertical	Pass
2	226.618	19.15	-12.81	46.0	-26.85	Peak	132.00	100	Vertical	Pass
3	386.871	21.41	-9.03	46.0	-24.59	Peak	359.00	100	Vertical	Pass
4	505.666	25.43	-6.92	46.0	-20.57	Peak	348.00	100	Vertical	Pass

Date: 2022-01-04

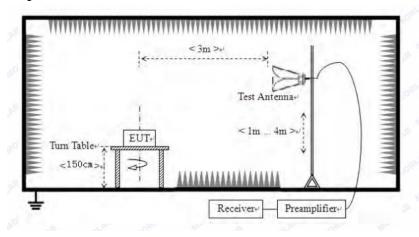


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

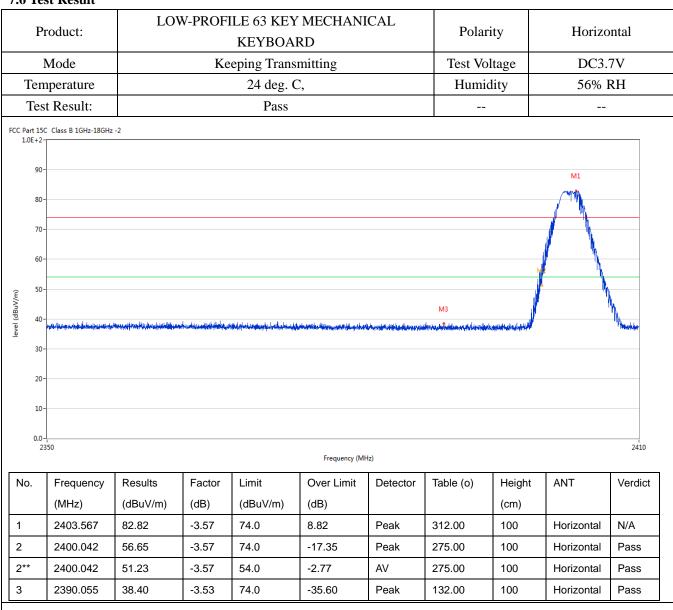
The report refers only to the sample tested and does not apply to the bulk.

Report No.: TW2112173-01E Page 24 of 40

Date: 2022-01-04



7.6 Test Result



Page 25 of 40 Report No.: TW2112173-01E

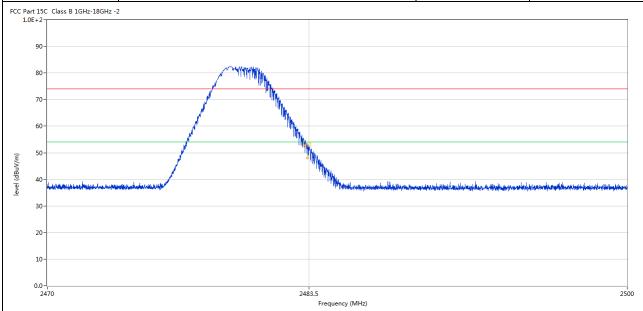


Pro	oduct:	LOW	-PROFII	LE 63 KEY KEYBOAI	MECHANI RD	CAL	Dete	ector	Ve	rtical
M	Iode		Kee	eping Transı	mitting		Test V	oltage	DC	C3.7V
Гетр	perature			24 deg. C	·,		Hum	idity	569	% RH
Test	Result:			Pass			-	-		
90 - 80 - 70 -	Class B 1GHz-18GHz -2								M1	
50-									2	
40-	te filozofia eg ele eg	odaliki katelak ke politika antak dalam da	<u>ئەرىپ ھەر سەھۇمەندىدۇ</u>	والمجاورة والمساورة والمسا	llonganeuserasshquangub qetoroo	dajan paraganan pada ayada ay	M3			Marian San San San San San San San San San S
30- 20-		والمراجعة المراجعة ا	tak water ang sa cara ang salah	الوعاقية العضورة المستواف بالمستواف المستواف الم	Frequency (MHz)	dajdan netikas pilota kitalaha perdamen	M3	in a transport of		241
30- 20- 10-		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)		Detector	M3 Table (o)	Height (cm)	ANT	1
30- 20- 10- 0.0- 2350	Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit		un <u>esta anno de</u> la puel a puel de la france	_	ANT	verdict N/A
30- 20- 10- 0.0- 2350	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdict
40- 30- 20- 10- 0.0- 2350	Frequency (MHz) 2402.682	Results (dBuV/m) 83.84	Factor (dB)	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 9.84	Detector Peak	Table (o)	(cm)	Vertical	Verdict N/A

Page 26 of 40 Report No.: TW2112173-01E



Product:	LOW-PROFILE 63 KEY MECHANICAL 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)		
	1	2479.995	82.28	-3.57	74.0	8.28	Peak	232.00	100	Horizontal	N/A
	2	2483.422	53.37	-3.57	74.0	-20.63	Peak	232.00	100	Horizontal	Pass
	2**	2483.422	48.09	-3.57	54.0	-5.91	AV	232.00	100	Horizontal	Pass
r						•		5			

Page 27 of 40

Report No.: TW2112173-01E



]	Product:	LOW-		63 KEY MEO EYBOARD	CHANICAL	,	Detecto	r	Vertica	al
	Mode		Keepir	ng Transmittir	ıg	-	Test Volta	ıge	DC3.7	V
Te	mperature		2	24 deg. C,			Humidit	У	56% R	Н
Te	est Result:			Pass						
FCC Part 1	15C Class B 1GHz-18GHz	-2				1		1		
	0-									
8	10-		Maha	M _N						
7	70-		1	7						
6	60-		<i>f</i>	7						
				Ma2						
<u>£</u> 5	60-			7						
(m//ngp) lave	O-	Name and American State of the American Stat		M	The south of the second state of the second st	instruction of the state of the	on the state of the second	manyang makang managan kanang managan kanang managan kanang managan kanang managan kanang managan kanang manag	hadra gadaileadh a laidean a 111 fhad	d.w/modey.deft
IBuV/m	10-	Married Control of the Control of th		3/1	Mary Hildshop and American Andrews	أعساب المعارضة والمعارضة و	oracide salasia propini de la constanti de la c	madjesguddilajadja upik februinska	ina den de simbolifo de el den de esta esta, e di federal	dentropology
level (dBuV/m	10-	New York Control of the Control of t			Mary in his far or a second and a second	and proceedings and the state of the state o	radi strena antiberrit	han a few galler few and a second as	ina den en generalis (de constitución es estimatos es estimatos es estimatos es estimatos es estimatos es esta	de mondo
level (dBuV/m	10-	Marie Ma		3	Maried September 1984	and the state of t	wad stance of the winds	ina a pagaidhtheadh e spiù-faoinn d-	ina desa nyo katika aka aka aka aki sababa	den majordaji
level (dBuV/m	10	New Managed access to a light and a light			Market Market Special Control of the	indiples de la secolda de la companya de la company	nada sina and bacines	nangagaideligaje repin fanansia	ka da sa	den marije de p
level (dBuV/m	10 - Malthanto-Haldon ayan dalik magadi 10 -	Turking and produced in the second of the se		2483.5 Free	quency (MHz)	indiples de la secolda de la companya de la company	unada si sana ang dalamin sa si	handagaidhtagailt sgàs fhairmh	ha da a sa	2500
level (dBuV/m		Results	Factor			Detector	Table	Height	ANT	
س/(ABr) المها ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع	00		Factor (dB)	Fre	quency (MHz)					2500
س/(ABr) المها ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع ع	Frequency	Results		Limit	quency (MHz) Over Limit		Table	Height		2500
الم	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Quency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdict

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

Date: 2022-01-04



Page 28 of 40

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 -1.85dBi Max. It fulfills the requirement of this section. Test Result: Pass

Page 29 of 40

Report No.: TW2112173-01E



Product:	LOW-PROFILE 63 KEY MECHANICAL KEYBOARD			7	Гest Mode:	Keep transmitting			
Mode Keeping Transmitting Temperature 24 deg. C,			tting		est Voltage	DC3.7V			
					Humidity	56% RH			
Test Result:	est Result: Pass				Detector		PK		
dB Bandwidth		2.565MHz							
Ref Lvl	ndB	1 [T1 nd 20.0 2.5651302	0 dB	RBW /BW SWT		łz	? Att	20 dB	
0					<u> </u>	[T1]	-11 2.40241 20 2.56513	.51 dBm 383 GHz .00 dB	
-10		1			∇ _{T1}	[T1]	-31 2.40164 -31	.43 dBm 228 GHz .93 dBm	
1MAX	Tl				7	_T2	2.40420	741 GHz	
-40 M	war and a second					Y			
-50 ml/ml/m						~~W	Uhrenord"	hum	
-60									
-70									
-80									
-90									
Center 2.40)3 GHz		500 kHz,	′			Spa	n 5 MHz	

Page 30 of 40

Report No.: TW2112173-01E



Product:	LOW-PROFILE 63 KEY MECHANICAL KEYBOARD				Test Mode:			Keep transmitting			
Mode	Keeping Transmitting				Test Voltage		:	DC3.7V			
Temperature	24 deg. C,				Humidity		56% RH				
Test Result:	Pass				Detector		PK				
20dB Bandwidth	2.475MHz										
Ref Lvl		ndB		00 dB		BW BW	100 k 300 k	Hz	F Att	20 dB	
10 dBm		BW 2	2.474949	90 MHz	S	WT	5 m	ıs Ui	nit	dBm	
10							$lacksquare_1$	[T1]	2.44042	.45 dBm	A
-10			1		/1		BW ▼ _T	[T1]	2.47494		
-20			/\		\\	ہمر		2 [T1]	2.43972		
1MAX		T1	\				\$	T2	2.44219	739 GHz	1MA
-40	سمدممع الما	ملمس									
-50 Myuhan	V							\	LU\JIII	Melan	
-60											
-70											
-80											
	-90 Center 2.441 GHz 500 kHz/ Span 5 MHz										
Date: 29	DEC.2	021 10	:29:05								

Page 31 of 40

Report No.: TW2112173-01E



Product:		63 KEY MECHANI EYBOARD	CAL Test Mode	: Keep to	ransmitting		
Mode					C3.7V		
Temperature	· ·	24 deg. C,	Humidity		56% RH		
Test Result:		Pass	Detector		PK		
20dB Bandwidth		2.365MHz					
Ref Lvl 10 dBm	Marker ndB BW	1 [T1 ndB] 20.00 dB 2.36472946 MHz	RBW 100 I VBW 300 I SWT 5 i	kHz	20 dB		
0		1	▼1 nd BW	2.4794 B 2.3647	0.00 dB 2946 MHz		
-10 -20			V _T	2.4788 2.4788 2.4811 2.4811			
-30	T1 V			T2			
-50				www	" what		
-60							
-70							
-90							
Center 2.48 GHz 500 kHz/ Span 5 MHz Date: 29.DEC.2021 10:36:19							

Report No.: TW2112173-01E Page 32 of 40

Date: 2022-01-04



10.0 FCC ID Label

FCC ID: TUVET-8602

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Page 33 of 40 Report No.: TW2112173-01E

Date: 2022-01-04



11.0 Photo of testing

11.1 Conducted test View--



Page 34 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



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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Page 37 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



Outside View



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Page 38 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



Inside view



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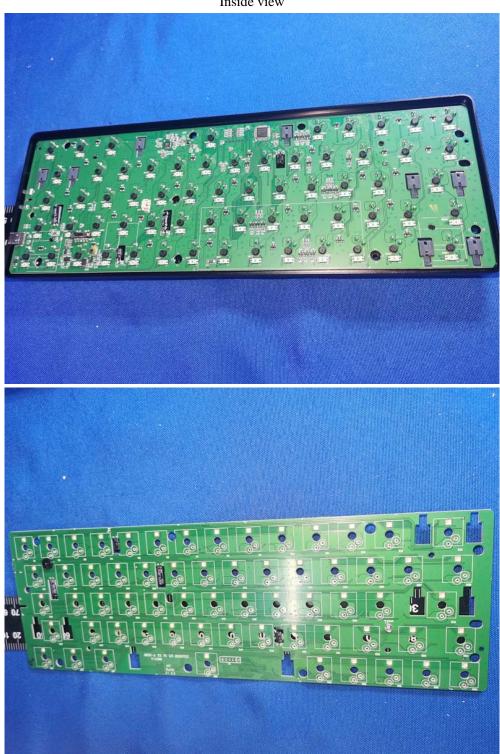
Page 39 of 40

Report No.: TW2112173-01E

Date: 2022-01-04



Inside view



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Report No.: TW2112173-01E Page 40 of 40



Inside view



-- End of the report--