



withdrawal at

Report No.: File reference No.:	TW2109031-01E 2022-02-28		
Applicant:	Eastern Times Technology Co.,Ltd		
Product:	3 MODES MECHANICAL GAMING KEYBOARD		
Model No.:	K615P-KBS, ET-8543, ET-8556, ET-8591, ET-8592, ET-8557, ET-8605, ET-8606		
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 Tong			
Terry Tang			
Manager			
Dated:	February 28, 2022		
Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to			

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:

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 Content

1.0		
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	
1.7	Test By	
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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1.0 General Details

1.1 Test Lab Details

SHENZHEN TIMEWAY TESTING LABORATORIES. Name : 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:	3 MODES MECHANICAL GAMING KEYBOARD
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Trademark:	REDRAGON
Model Number:	K615P-KBS
Additional Model Name	ET-8543, ET-8556, ET-8591, ET-8592, ET-8557, ET-8605, ET-8606
Rating:	DC5V, 660mA or DC3.7V, 226mA
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
Antenna Designation	PCB antenna with gain -1.85dBi Max (Declared by the Manufacturer)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration 2021-09-02 to 2022-02-28

1.6 Test Uncertainty

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

1.7 Test Engineer

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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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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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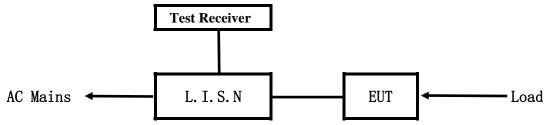
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

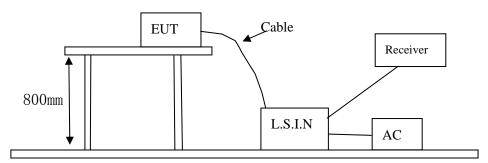


EUT: Equipment Under Test

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.

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

A.	EUT
	201

Device	Manufacturer	Model	FCC ID
3 MODES MECHANICAL GAMING KEYBOARD	Eastern Times Technology Co.,Ltd	K615P-KBS, ET-8543, ET-8556, ET-8591, ET-8592, ET-8557, ET-8605, ET-8606	TUVET-8543

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B. Internal Device

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

0 01				
Frequency	Limits (d	lB 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		
$5.00 \sim 30.00$	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:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz) **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 26°C **EUT set Condition: Charging and Keep Transmitting Results: Pass** Please refer to following diagram for individual 80.0 dBuV 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class 50 40 30 peal wh. 20 AVG 10 0 -10 -20 (MHz) 0.150 30.000 Frequency Reading Factor Level Limit Margin P/F Detector No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 47.05 9.78 -8.75 QP Ρ 1 0.1578 56.83 65.58 2 0.1578 25.78 9.78 35.56 55.58 -20.02 AVG Ρ 3 0.2358 42.75 52.50 9.75 62.24 -9.74 QP Ρ Ρ 4 0.2358 29.79 9.75 39.54 52.24 -12.70 AVG 5 30.67 9.78 40.45 Ρ 0.6453 56.00 -15.55 QP 22.11 AVG Ρ 6 0.6453 9.78 31.89 46.00 -14.11 7 QP Ρ 1.6554 25.56 9.80 35.36 56.00 -20.64 8 1.6554 19.52 9.80 29.32 46.00 -16.68 AVG Ρ 9 4.3689 24.46 9.90 34.36 56.00 -21.64 QP Ρ 10 4.3689 14.80 9.90 24.70 46.00 -21.30 AVG Ρ 11 17.0751 28.80 10.50 39.30 60.00 -20.70 QP Ρ 12 17.0751 20.74 10.50 31.24 50.00 -18.76 AVG Ρ

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Atmospheric Pressure: 101 kPa Temperature: 26°C Humidity: 65%RH **EUT set Condition: Charging and Keep Transmitting Results: Pass** Please refer to following diagram for individual 80.0 dBu¥ 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class C_AV 50 11 X 40 9 peak 30 10 AVG 20 10 0 -10 -20 (MHz) 30,000 0.150 Frequency Reading Factor Limit Level Margin P/F No. Detector (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 9.78 56.42 QP Ρ 1 0.1617 46.64 65.38 -8.96 2 0.1617 25.37 9.78 35.15 55.38 -20.23 AVG Ρ 9.75 Ρ 3 0.1929 44.94 54.69 63.91 -9.22 QP Ρ 0.1929 9.75 40.57 4 30.82 53.91 -13.34 AVG 5 0.6765 32.97 9.78 42.75 56.00 -13.25 QP Ρ 6 0.6765 24.77 9.78 34.55 46.00 -11.45 AVG Ρ 7 Ρ 1.4526 27.52 9.79 37.31 -18.69 QP 56.00 8 30.46 -15.54 Ρ 1.4526 20.67 9.79 46.00 AVG 9 3.6240 23.76 9.87 33.63 56.00 -22.37 QP Ρ 10 3.6240 15.02 9.87 24.89 46.00 -21.11 AVG Ρ 11 32.27 10.57 42.84 QP Ρ 18.1437 60.00 -17.16 12 18.1437 25.61 10.57 36.18 50.00 -13.82 AVG Ρ

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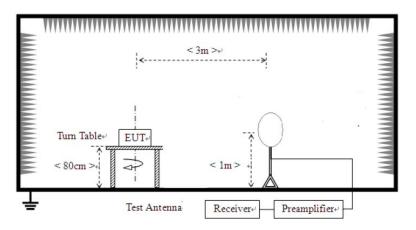


6 Radiated Emission Test

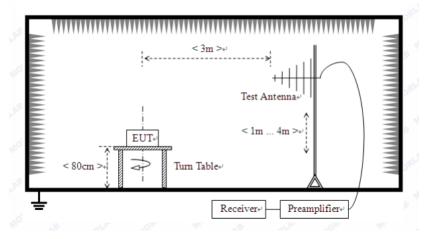
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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

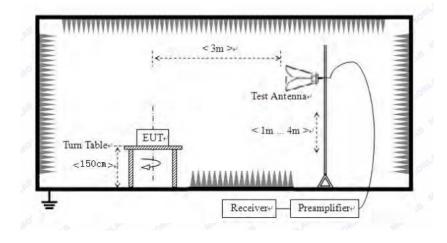


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For radiated emissions above 1GHz



- 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.
- 6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	onics (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)

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.

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Field strength (dB μ V/m) Frequency Range (MHz) Distance (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

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

Note: 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. 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.

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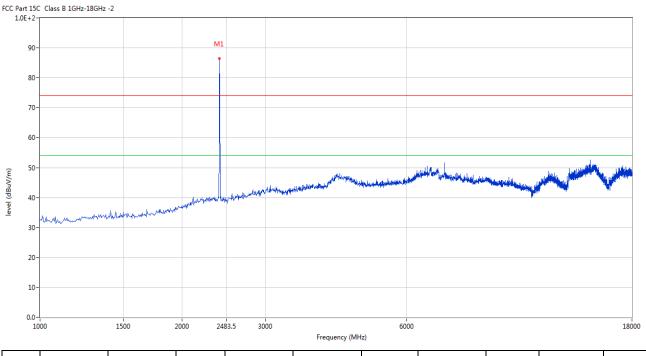


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



Ν	۱o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		2402.706	86.59	-3.57	114.0	-27.41	Peak	276.00	100	Horizontal	Pass

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Vertical FCC Part 15C Class B 1GHz-18GHz -2 1.0E+2-90 M1 80 70 60 50 level (dBuV/m) 40 30 20 10 0.0-1500 2000 2483.5 3000 6000 18000 Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.825	79.66	-3.57	114.0	-34.34	Peak	297.00	100	Vertical	Pass

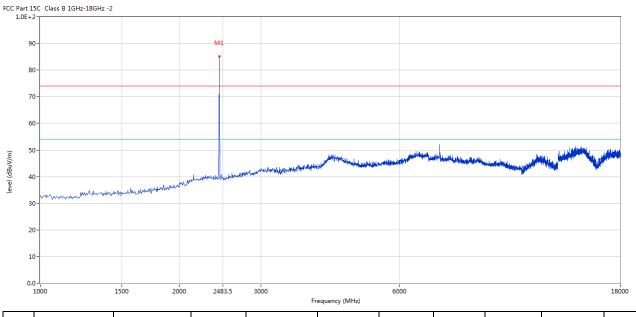
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2440.718	85.20	-3.57	114.0	-28.80	Peak	271.00	100	Horizontal	Pass

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2440.836

1

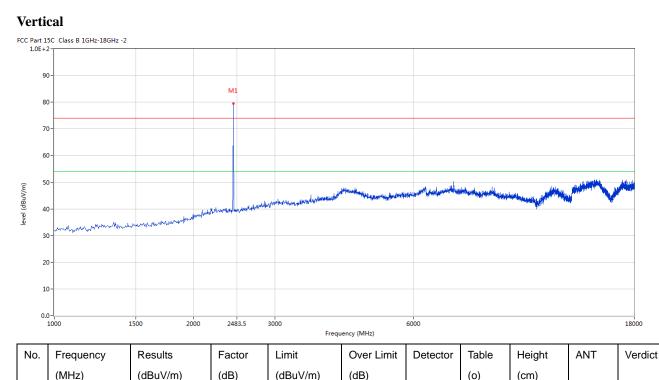
79.43

-3.57

114.0

-34.57





73.00

100

Vertical

Pass

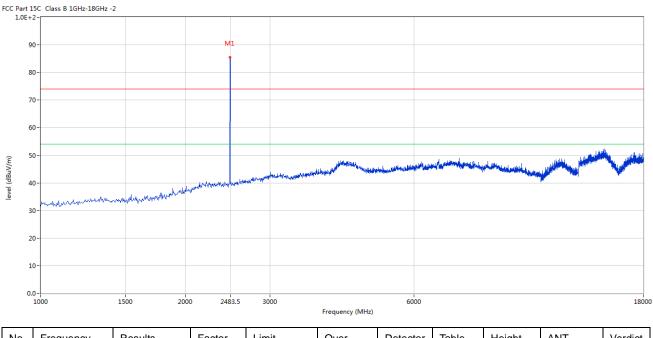
Peak

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

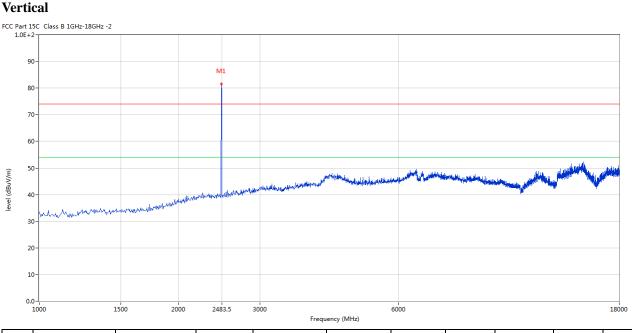


No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.941	86.64	-3.57	114.0	-27.36	Peak	259.00	100	Horizontal	Pass

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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	2479.956	81.47	-3.57	114.0	-32.53	Peak	74.00	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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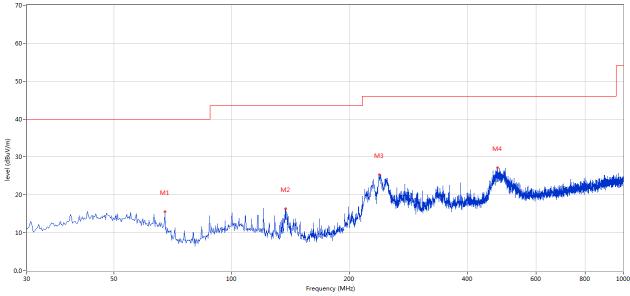
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	67.578	15.57	-14.47	40.0	-24.43	Peak	319.00	100	Horizontal	Pass
2	137.401	16.39	-17.23	43.5	-27.11	Peak	150.00	100	Horizontal	Pass
3	238.255	25.37	-12.48	46.0	-20.63	Peak	10.00	100	Horizontal	Pass
4	477.786	27.12	-7.44	46.0	-18.88	Peak	115.00	100	Horizontal	Pass

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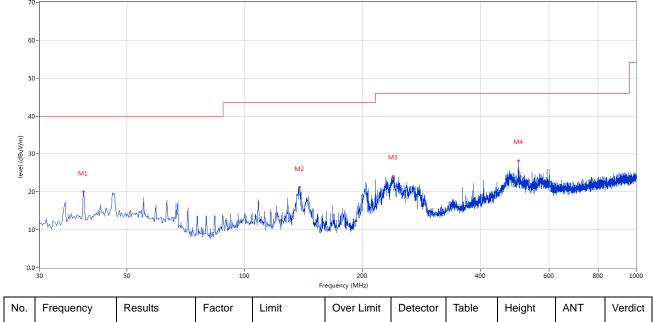
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



INO.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	38.728	19.97	-12.63	40.0	-20.03	Peak	88.00	100	Vertical	Pass
2	138.370	21.16	-17.27	43.5	-22.34	Peak	128.00	100	Vertical	Pass
3	239.953	24.08	-12.33	46.0	-21.92	Peak	98.00	100	Vertical	Pass
4	500.090	28.26	-6.91	46.0	-17.74	Peak	7.00	100	Vertical	Pass

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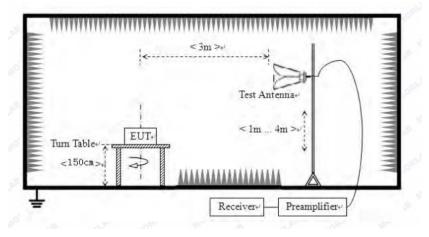


7. Band Edge

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:	3 MODES	MECHAN KEYBO	NICAL GAMI ARD	NG	Polari	ity		Horizonta	al
	Mode	K	eeping Tra	nsmitting		Test Vol	tage		DC3.8V	T
Te	emperature		24 deg	. C,		Humid	lity		56% RH	I
Te	est Result:		Pass	S						
C Part : 1.0E+	15C Class B 1GHz-18GHz +2-	-2								
	90-								M1	
-	50-								1 Million	
8	80 -							u.		
7	70-									
6	50 -							/		
									<u> </u>	
	50-							<mark>/ 1</mark> 2	`	
5	50-					M3		×		
	10	ner for the start of the start	a an in the second states	n staires fri style strong to get details sand	ad a base line of the data state.			₩ <mark>12</mark> •		1 Marineter
2	10	Yernensente fan en de skiedel wyser kallede	is on the law of the latte	n Maria ang mang mang mang mang mang mang mang	idada a an			• •		New Marke
2	10- <mark></mark>	herronssonieka of here of here and here and here of here and here of here of here and here of here of here of h	llennin levernen filselen	nertrassacht angen piner sog hatelande	sidestraamentalise stat Van Andreassikke			•	/	Hy with the
3	40	ter te ministry og den skillede til første beskele	essentrelsennen and the same	no vine in a fina ping a try di skolek me	ad a Barra Laine Ald San Andrea a Barra			•		Merridue
3	40	Sparkenssledtyt, gesken of den del types & Spiled		, or Medicard Hadron prings, typic state by the	uistan bib itti katariin			,		147-unitude
3	40 - <mark>Helinene, Melinie (Helinie Augusta)</mark> 30 - 20 -	Sparkenssledøf, gelan, eftiledeligens kalled			equency (MHz)			1/2 •		2410
3	40	Results	Factor	Fre				Height	ANT	2410 Verdict
2	40			Free	equency (MHz)	1	96-519489496-66-69 		ANT	
2	10	Results	Factor	Free Limit (dBuV/m)	equency (MHz) Over Limit	1	Table	Height	ANT	
2 2 1 0	40	Results (dBuV/m)	Factor (dB)	Free Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdict
2 2 1 0 No.	40	Results (dBuV/m) 86.50	Factor (dB) -3.57	Free Limit (dBuV/m) 74.0 74.0	equency (MHz) Over Limit (dB) 12.50	Detector Peak	Table (o) 273.00	Height (cm) 100	Horizontal	Verdict N/A

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P	roduct:	3 MOI		CHANICAI EYBOARD	L GAMING	I	Detector		Ver	tical
	Mode		Keepir	ng Transmitt	ting	Te	st Voltage		DC	3.8V
Ten	nperature			4 deg. C,		H	Iumidity		56%	6 RH
Tes	st Result:			Pass					-	
Part 150 1.0E+2·	C Class B 1GHz-18GHz	-2								
90-										
80-									M1	
70-										
									M	\backslash
60-	-								M	1
									- T	- \
50-									1	
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50- 40- 30- 20- 10-	al-ustania-auto-auto-auto-auto-auto-auto-auto-aut	te de talante de tradactado	i, Selveragensk, filmi	nadysan siyada da sa da da da				alfore of the graph operation		241
50 · 40 · 30 · 20 · 10 · 0.0 · 2:	2				Frequency (M	Hz)	, ayin telep an di sana ma di sa tan ma	alforent de la construction		
50 · 40 · 30 · 20 · 10 · 0.0 · 2:	store the second	Results	Factor	Limit	Frequency (M Over Limit			Height	ANT	241 Verdict
50 · 40 · 30 · 20 · 10 · 0.0 · 2:	Soon Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (M Over Limit (dB)	Hz) Detector	Table (o)	(cm)		Verdict
50 · 40 · 30 · 20 · 10 · 0.0 · 2:	Jackson Jackson <t< td=""><td>Results (dBuV/m) 79.65</td><td>Factor (dB) -3.57</td><td>Limit (dBuV/m) 74.0</td><td>Frequency (M Over Limit (dB) 5.65</td><td>Hz) Detector Peak</td><td>Table (o) 36.00</td><td>(cm) 100</td><td>Vertical</td><td>Verdict N/A</td></t<>	Results (dBuV/m) 79.65	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (M Over Limit (dB) 5.65	Hz) Detector Peak	Table (o) 36.00	(cm) 100	Vertical	Verdict N/A
50- 40- 30- 20- 10- 0.0-	Soon Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (M Over Limit (dB)	Hz) Detector	Table (o)	(cm)		Verdict

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]	Product:	3 MC		CHANICAL YBOARD	GAMING		Polarity	y	Horizo	ntal
	Mode		Keepin	g Transmittir	ıg	,	Test Volta	nge	DC3.8	8V
Te	mperature		24	4 deg. C,	-		Humidi	ty	56% F	RH
Te	est Result:			Pass				-		
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
8	10 - 30 - 70 - 50 -									
4 agent/u	10 - 	ase and the man and an addition		M2 •	Marcan and State	utaralitat bardan shili	a noraður viðsaðing sági	algyraer a thioriene dry yn dry galleg	in franke skie waard gestaal	.tool lane and
۲/۵۳۹ (International 3	10 - Augustene Journal and an and a	an a		M2 •	Martin and a second sec	adar (16) (na b ardanashik	a construction and a state of a st	algyray athlatan by sha	in direction de constitute du piblicad	Linde Lance of the
للمرابق المرابع 1 0.	10 - <mark>Majaran Jawa da para da</mark> 30 - 20 -	Nachderman an a		• 	Frequency (MHz)	terten fill fan Sjorefonseilde	ewender delentation tak	ngyy or a skielen by a draw a sta	the forester by resonants and only the fact	2500
۳/۱۹۹۵) 4 3 2 1	10 - <mark>Adjuran Jawa dan mudal</mark> 30 - 20 - 	Results	Factor	• 		Detector	Table	Height	ANT	2500
1 1 1 0.	10 - 		Factor (dB)	2483.5	Frequency (MHz)					2500
1 1 1 0.	10	Results		• 2483.5 Limit	Frequency (MHz)		Table	Height		2500
4 3 2 1 0. No.	10	Results (dBuV/m)	(dB)	2483.5 Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic

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]	Product:	3 MOE		IANICAL GA BOARD	AMING	Dete	ctor		Vertical	
	Mode		Keeping	Transmitting		Test Vo	oltage]	DC3.8V	
Te	emperature		24	deg. C,		Humi	dity	4	56% RH	
Te	est Result:]	Pass						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
887/m) 6 5	00	in and a start of the		and a second and a s	Nerrismenterelaismenterel	an felander son felander	finder fragelige start fielder	restanterent med with the steps		
1	20 - 									
2	10-			2483.5 Fre-	quency (MHz)					2500
2	20	Results	Factor		quency (MHz) Over Limit	Detector	Table	Height	ANT	2500 Verdic
2 1 0.	20	Results (dBuV/m)	Factor (dB)	Fre		Detector	Table (o)	Height (cm)	ANT	1
2 1 0.	20- 10- 2470 Frequency			Limit	Over Limit	Detector Peak		-	ANT	1

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

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9.0 20dB Bandwidth Measurement Product: 3 MODES MECHANICA KEYBOARD					Test Mode:		Keep transmitting			
Mode	Ke	Keeping Transmitting				st Voltage	DC3.8V 56% RH PK 			
Temperature	24 deg. C,	24 deg. C, Pass			lumidity					
Test Result:	Pass				Detector					
20dB Bandwidth		2.625MHz								
Ref Lvl 10 dBm	Mark ndB BW	er 1 [T1 r 20. 2.625250	00 dB		BW BW VT	100 kH 300 kH 5 ms	łz	7 Att nit	20 dB dBn	n
						▼1 ndB	[T1]	-6 2.40241 20	.97 dBm 383 GHz .00 dB	A
-10			\sim	\			[T1]	2.62525	050 MHz .87 dBm	1
-20						Transie and the second	[T1]	2.40157 -26 2.40419	214 GHz .59 dBm 739 GHz	
- 30	TI									1 MA
-40								mun	ny	
-50									Mun .	
-60										
-70										
- 80										
-90 Center 2.	403 GHz		500 ki	Hz/				Spa	n 5 MHz	

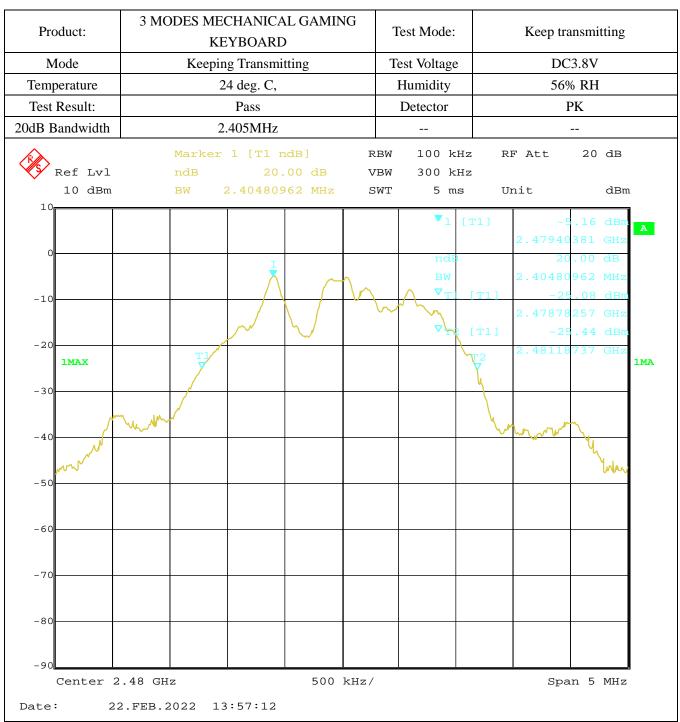
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Product: 3 MODES MECHANICAL GAMING KEYBOARD				T	est Mode:	Keep transmitting				
ModeKeeping TransmitTemperature24 deg. C,			ing	Te	est Voltage	DC3.8V				
]	Humidity		56% RH			
Test Result:	Pass			Detector		РК				
20dB Bandwidth	2.605MHz									
	Marke	er 1 [T1 nd	lB]	RBW	100 kHz	z RI	F Att	20 dB		
Ref Lvl	ndB	20.0	00 dB	VBW	300 kHz	Z				
10 dBm	BW	2.6052104	12 MHz	SWT	5 ms	Ur	nit	dBm	L	
10					V 1 [T1]	- 7	.31 dBm		
							2.44041	383 GHz	A	
0					ndB		20	.00 dB		
			~		BW		2.60521	042 MHz		
-10			\rightarrow			[T1]	-27	.25 dBm		
				6.74		[T1]	2.43957	214 GHz .55 dBm		
-20			•			[1 1]	2.44217	735 GHz		
1MAX	Tl				~	T2 V			1MA	
-30						$\left\{ - \right\}$				
	where the second s						٨			
-40								M. A		
-50								~~~		
-60										
-70										
-80										
-90										
Center 2	.441 GHz		500 kH	Iz/			Spa	ın 5 MHz		
Date: 22	2.FEB.2022	13:53:30								

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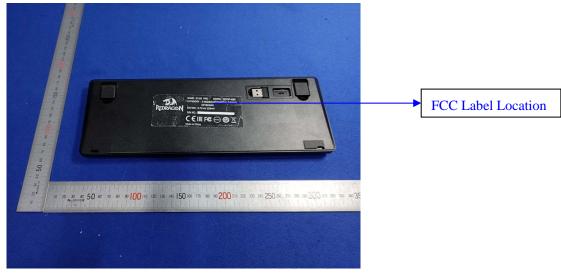
10.0 FCC ID Label

FCC ID: TUVET-8543

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:



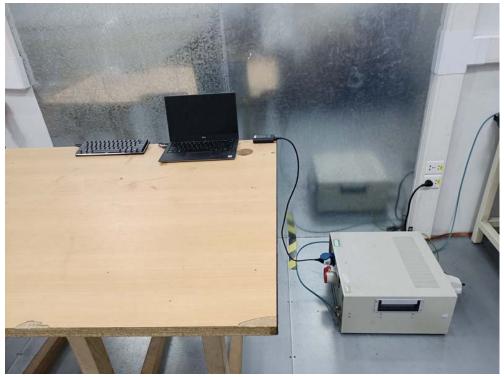
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11.0 Photo of testing

11.1 Conducted test View--



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11.2 Photographs – EUT



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Photographs - EUT

Outside View





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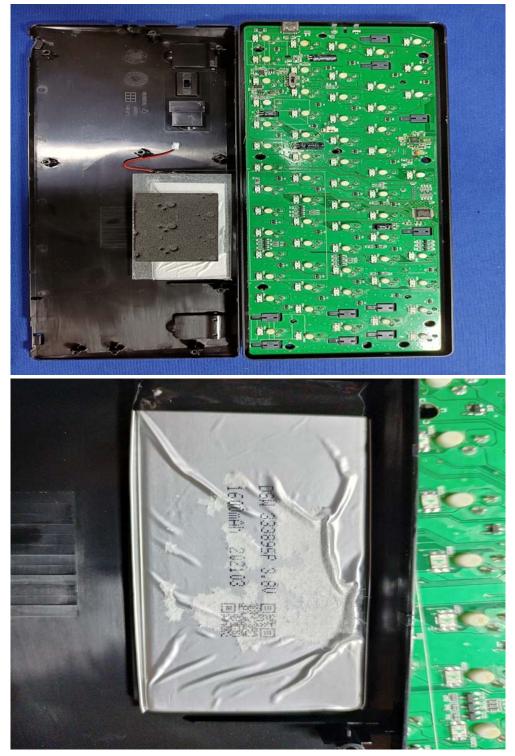
Outside View



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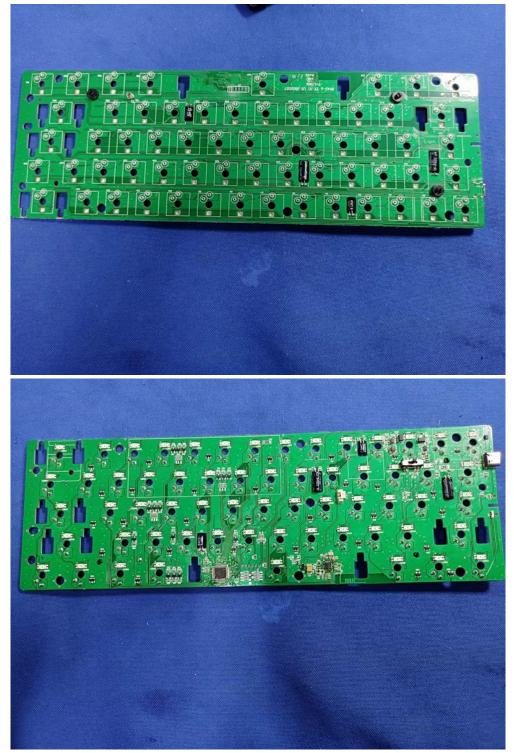
Inside view



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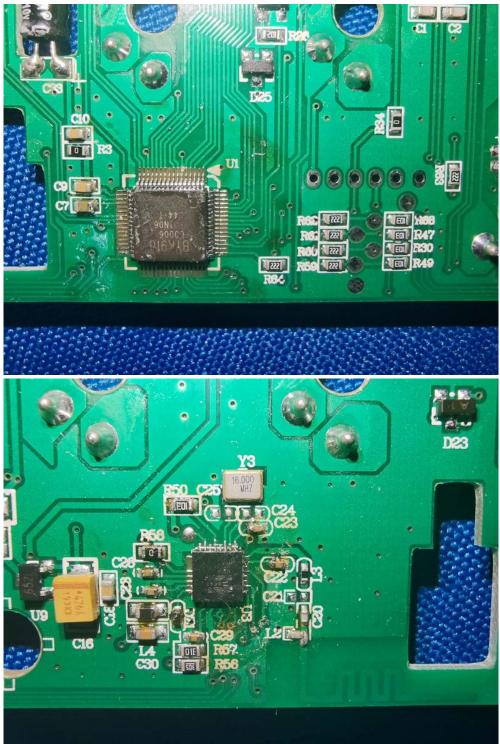
Inside view



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Inside view



--End of the report--

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