

Report No.: TW2409102-01E

Applicant: Eastern Times Technology Co., Ltd

Product: 3 MODES 87 KEYS ALUMINUM MECHANICAL

KEYBOARD

Model No.: K660RGB-PRO, ET-7015

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: September 14, 2024

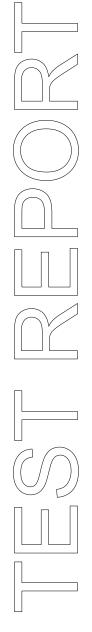
Results appearing herein relate only to the sample tested

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

SHENZHEN TIMEWAY TESTING LABORATORIES

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

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



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Special Statement:

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Eastern Times Technology Co., Ltd

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

Guangdong, China.

1.3 Description of EUT

Product: 3 MODES 87 KEYS ALUMINUM 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: K660RGB-PRO

Additional Model Name ET-7015

Rating: Input: DC5V, 640mA or DC3.7V, 110mA

Battery DC3.7V, 1600mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

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

2419, 2445, 2465, 2480

Hardware Version: 8479-A RX V1

Software Version: C5202

Serial No.: RDK660RGB-PRO24042000998

Antenna Designation PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-09-10 to 2024-09-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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





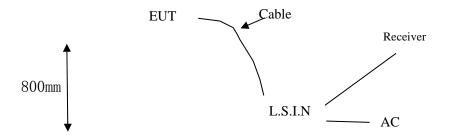
Load

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 500hm/50uH as specified by section 5.1 of ANSI C63.4 -2014.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
3 MODES 87 KEYS			
ALUMINUM	Eastern Times Technology	K660RGB-PRO,	TUVET-7015A
MECHANICAL	Co., Ltd	ET7015	TUVEI-7013A
KEYBOARD			

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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 C63.4 -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 0 1						
Frequency	Limits (dB µ V)					
(MHz)	Quasi-peak Level	Ave ag Level				
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*				
$0.50 \sim 5.00$	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)

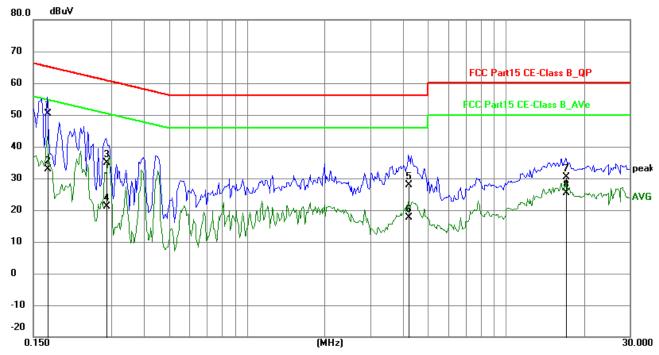
EUT Operating Environment

Temperature: 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	40.52	9.77	50.29	64.98	-14.69	QP	Р
2	0.1695	23.08	9.77	32.85	54.98	-22.13	AVG	Р
3	0.2865	25.12	9.76	34.88	60.63	-25.75	QP	Р
4	0.2865	11.44	9.76	21.20	50.63	-29.43	AVG	Р
5	4.2051	17.88	9.90	27.78	56.00	-28.22	QP	Р
6	4.2051	7.68	9.90	17.58	46.00	-28.42	AVG	Р
7	17.0595	19.88	10.50	30.38	60.00	-29.62	QP	Р
8	17.0595	14.98	10.50	25.48	50.00	-24.52	AVG	Р

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

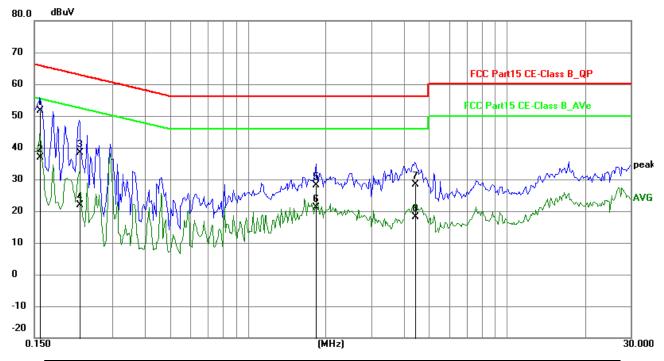
EUT Operating Environment

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	0.1578	41.85	9.78	51.63	65.58	-13.95	QP	Р
2	0.1578	27.18	9.78	36.96	55.58	-18.62	AVG	Р
3	0.2241	28.64	9.75	38.39	62.67	-24.28	QP	Р
4	0.2241	12.18	9.75	21.93	52.67	-30.74	AVG	Р
5	1.8309	18.28	9.80	28.08	56.00	-27.92	QP	Р
6	1.8309	11.33	9.80	21.13	46.00	-24.87	AVG	Р
7	4.4196	18.36	9.90	28.26	56.00	-27.74	QP	Р
8	4.4196	8.30	9.90	18.20	46.00	-27.80	AVG	Р

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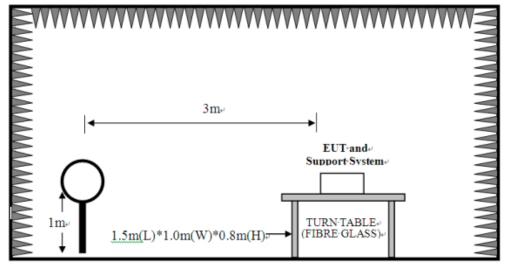


6 Radiated Emission Test

- 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

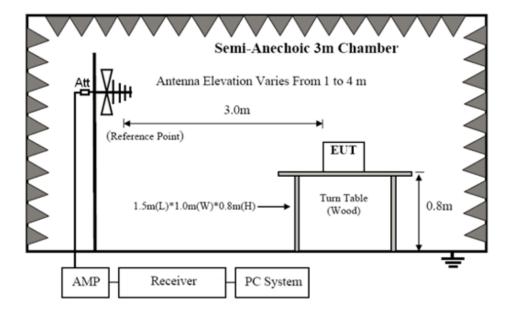


For radiated emissions from 30MHz to1GHz

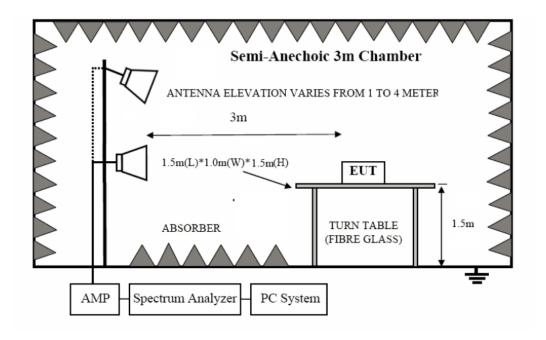
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For radiated emissions above 1GHz



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

 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field 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.

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. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. Battery full charged during tests.

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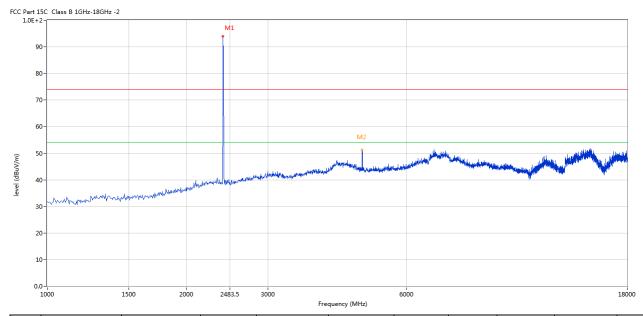


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



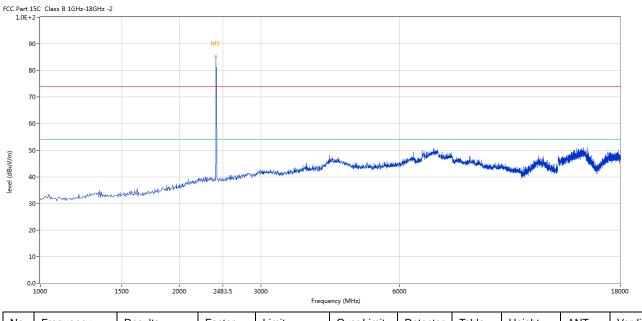
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2403	94.00	-3.57	114.0	-20.00	Peak	54.00	100	Horizontal	Pass
1**	2403	85.18	-3.57	94.0	-8.82	AV	54.00	100	Horizontal	Pass
2	4802.799	51.22	3.12	74.0	-22.78	Peak	49.00	100	Horizontal	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)		
Ī	1	2403	85.38	-3.57	114.0	-28.62	Peak	88.00	100	Vertical	Pass

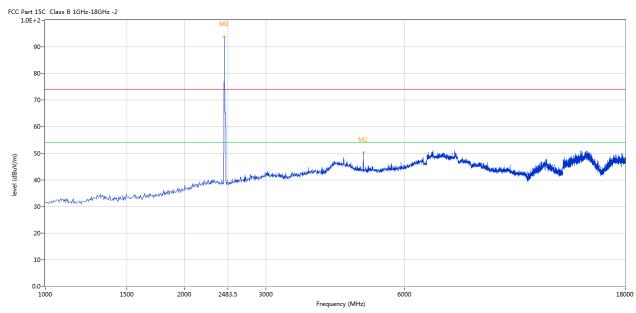
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



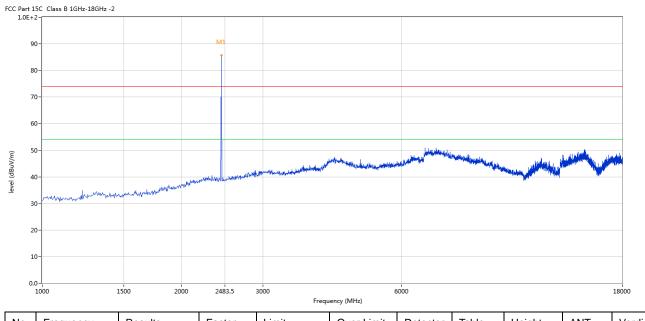
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	93.87	-3.57	114.0	-20.13	Peak	62.00	100	Horizontal	Pass
1**	2441	85.03	-3.57	94.0	-8.97	AV	62.00	100	Horizontal	Pass
2	4879.280	50.27	3.20	74.0	-23.73	Peak	52.00	100	Horizontal	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	2441	85.60	-3.57	114.0	-28.40	Peak	241.00	100	Vertical	Pass

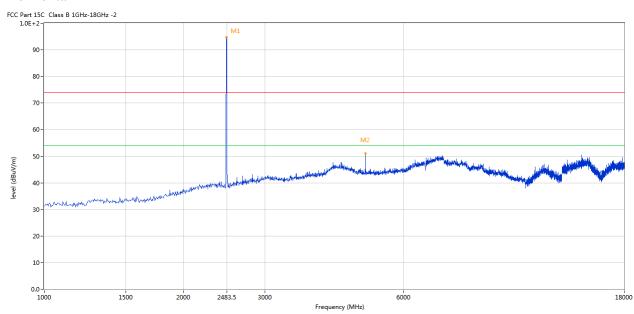
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



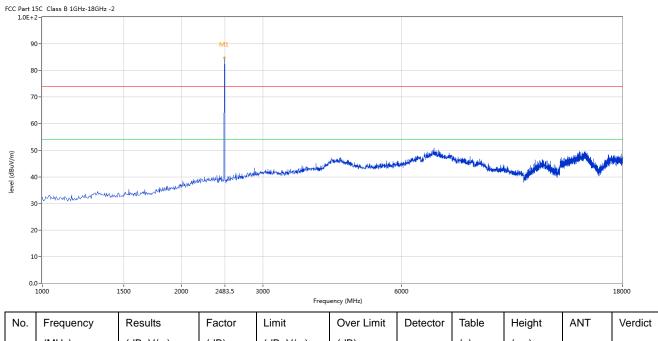
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	94.67	-3.57	114.0	-19.33	Peak	52.00	100	Horizontal	Pass
1**	2480	85.81	-3.57	94.0	-8.19	AV	52.00	100	Horizontal	Pass
2	4960.010	50.99	3.36	74.0	-23.01	Peak	52.00	100	Horizontal	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	2480	84.73	-3.57	114.0	-29.27	Peak	100.00	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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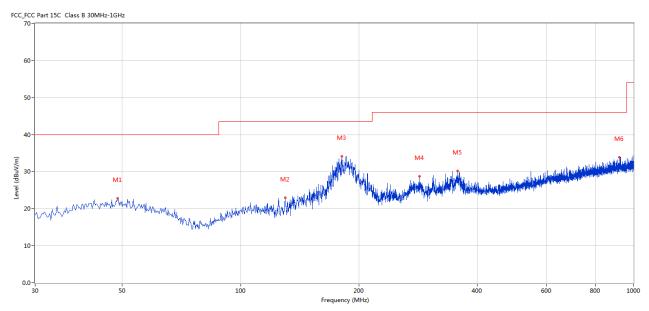


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	48.668	22.83	-11.22	40.0	17.17	Peak	17.00	100	Horizontal	Pass
2	129.885	22.88	-16.79	43.5	20.62	Peak	293.00	100	Horizontal	Pass
3	181.282	34.17	-15.11	43.5	9.33	Peak	288.00	100	Horizontal	Pass
4	285.289	28.78	-11.32	46.0	17.22	Peak	56.00	100	Horizontal	Pass
5	356.808	30.17	-9.50	46.0	15.83	Peak	0.00	100	Horizontal	Pass
6	919.025	33.86	-1.93	46.0	12.14	Peak	29.00	100	Horizontal	Pass

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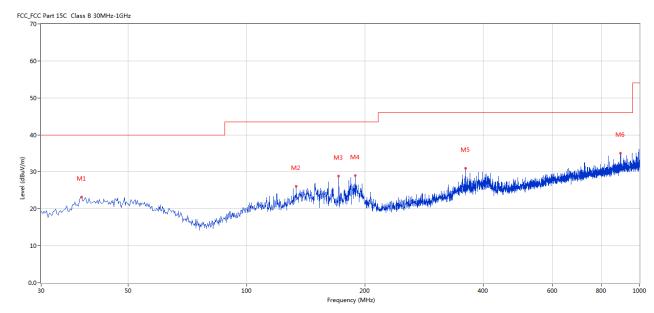


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	38.001	23.19	-12.74	40.0	16.81	Peak	254.00	100	Vertical	Pass
2	133.764	26.14	-16.99	43.5	17.36	Peak	275.00	100	Vertical	Pass
3	171.585	28.82	-15.89	43.5	14.68	Peak	196.00	100	Vertical	Pass
4	188.798	29.04	-14.35	43.5	14.46	Peak	275.00	100	Vertical	Pass
5	360.445	30.98	-9.50	46.0	15.02	Peak	299.00	100	Vertical	Pass
6	895.266	35.06	-1.81	46.0	10.94	Peak	327.00	100	Vertical	Pass

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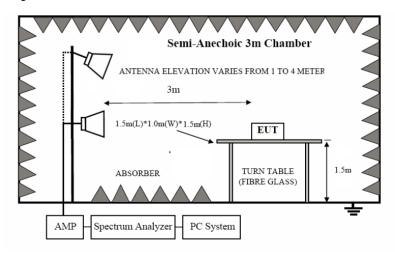


7. Band Edge

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.

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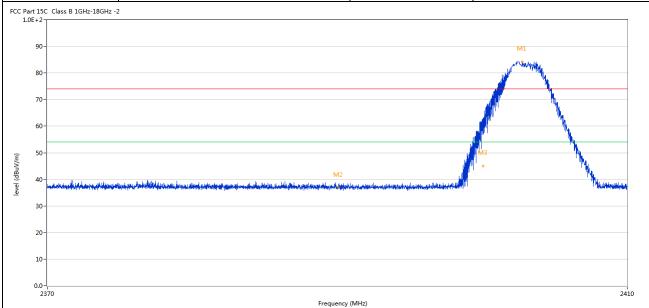


P	roduct:			EYS ALUM AL KEYBO		Polar	rity		Horizontal	
	Mode	F	Keeping 7	Transmitting		Test Vo	oltage		DC3.7V	
Ten	nperature			leg. C,		Humi			56% RH	
Tes	st Result:			Pass						
Part 15	iC Class B 1GHz-18GHz	-2			•		•			
90 80 70 60	-							12		
40 30	hitir gaya (girle) ku kushing ping bibanin daka da	na, arona da parte de la constanta de la const	daigh i mhulu nh dheidh de an 3	-dagdangas da de-isj, madagdalamilend	M3	malical Longitudes Longitudes (1946 house)				The state of the s
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30 20 10 0.0 2	January allowed Annual	A Property and the second seco	Factor (dB)	Limit (dBuV/m)	Frequency (Mi	1	Table (o)	Height (cm)	ANT	1
30 20 10 0.0 2	Frequency	Results			Frequency (Mi	1	Table (o) 47.00		ANT Horizontal	1
30 20 10	Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	Frequency (MI Over Limit (dB)	Detector	, ,	(cm)		2410 Verdice N/A Pass
30 20 10 0.0 2	Frequency (MHz) 2402.702	Results (dBuV/m) 93.81	(dB) -3.57	(dBuV/m) 74.0	Frequency (MI Over Limit (dB) 19.81	Detector Peak	47.00	(cm) 100	Horizontal	Verdic

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Product:	3 MODES 87 KEYS ALUMINUM MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



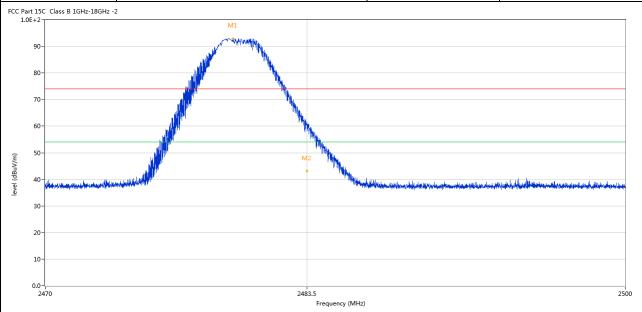
Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2402.702	84.27	-3.57	74.0	10.27	Peak	93.00	100	Vertical	N/A
2390.000	36.88	-3.53	74.0	-37.12	Peak	159.50	100	Vertical	Pass
2400.000	62.65	-3.57	74.0	-11.35	Peak	265.44	100	Vertical	Pass
2400.000	45.71	-3.57	54.0	-8.29	AV	265.44	100	Vertical	Pass
*	(MHz) 2402.702 2390.000 2400.000	(MHz) (dBuV/m) 2402.702 84.27 2390.000 36.88 2400.000 62.65	(MHz) (dBuV/m) (dB) 2402.702 84.27 -3.57 2390.000 36.88 -3.53 2400.000 62.65 -3.57	(MHz) (dBuV/m) (dB) (dBuV/m) 2402.702 84.27 -3.57 74.0 2390.000 36.88 -3.53 74.0 2400.000 62.65 -3.57 74.0	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) 2402.702 84.27 -3.57 74.0 10.27 2390.000 36.88 -3.53 74.0 -37.12 2400.000 62.65 -3.57 74.0 -11.35	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) 2402.702 84.27 -3.57 74.0 10.27 Peak 2390.000 36.88 -3.53 74.0 -37.12 Peak 2400.000 62.65 -3.57 74.0 -11.35 Peak	(MHz) (dBuV/m) (dB) (dB) (o) 2402.702 84.27 -3.57 74.0 10.27 Peak 93.00 2390.000 36.88 -3.53 74.0 -37.12 Peak 159.50 2400.000 62.65 -3.57 74.0 -11.35 Peak 265.44	(MHz) (dBuV/m) (dB) (dB) (o) (cm) 2402.702 84.27 -3.57 74.0 10.27 Peak 93.00 100 2390.000 36.88 -3.53 74.0 -37.12 Peak 159.50 100 2400.000 62.65 -3.57 74.0 -11.35 Peak 265.44 100	(MHz) (dBuV/m) (dB) (dB) (o) (cm) 2402.702 84.27 -3.57 74.0 10.27 Peak 93.00 100 Vertical 2390.000 36.88 -3.53 74.0 -37.12 Peak 159.50 100 Vertical 2400.000 62.65 -3.57 74.0 -11.35 Peak 265.44 100 Vertical

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Product:	3 MODES 87 KEYS ALUMINUM MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



(MHz) (dBuV/m) (dB) 1 2479.658 92.93 -3.57	(dBuV/m) 74.0	(dB)	Peak	(o) 50.00	(cm)	Hadaaatal	N 1/A
1 2479.658 92.93 -3.57	74.0	18.93	Peak	50.00	100	I I and a sector	N1/A
			1 Car	30.00	100	Horizontal	N/A
2 2483.500 60.67 -3.57	74.0	-13.33	Peak	68.86	100	Horizontal	Pass
2** 2483.500 43.16 -3.57	54.0	-10.84	AV	68.86	100	Horizontal	Pass

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	Product:			S ALUMINU KEYBOARD	Γ	Detector		Ve	ertical	
	Mode	Ke	eeping Tran	nsmitting	Tes	st Voltage		D	C3.7V	
Те	emperature		24 deg.	C,	Н	lumidity		56	% RH	
Т	est Result:		Pass							
CC Part 1.0E-	15C Class B 1GHz-18GHz -	-2								
	90-		M1							
;	80-		- VIII							
	70-									
			W ^r	"\						
•	60-			M2						
- !	50-			- In						
<u> </u>		a day		' The						
evel (dBuV/n	40-	and the second second		46	Management	lde delkahernernad mediskaleriska	n langurah spensifya f hain	16 No. of the same of the last of the same	delik diring daku dilik dirin delah surinda	didinate.
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:	30 - 20 - 10 -	war was and the second		, , , , , , , , , , , , , , , , , , ,	Mr. Janes and American		haannan kanta kanta	in the second	telekkyssä seriastillisian yhteissässäy	Adaman
eve	130-	war war and Marie The Control of the		2483.5 Fre	quency (MHz)	<u>(de jobburensu, les éribles érible</u>	o language en esta esta esta esta esta esta esta esta	am, arada da Milia da a a	At his sand and an all have place such as	2500
:	20-	Results	Factor			Detector	Table	Height	ANT	
:	20 - 10 - 2470	Results (dBuV/m)	Factor (dB)	Fre	quency (MHz)	AND THE STATE OF T	Table (o)	and the second	and the second s	2500
:	300- 100- 2470 Frequency			Limit	quency (MHz) Over Limit	AND THE STATE OF T		Height	and the second s	2500

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

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8.0 Antenna Requirement

Applicable Standard

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

This product has a PCB antenna. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

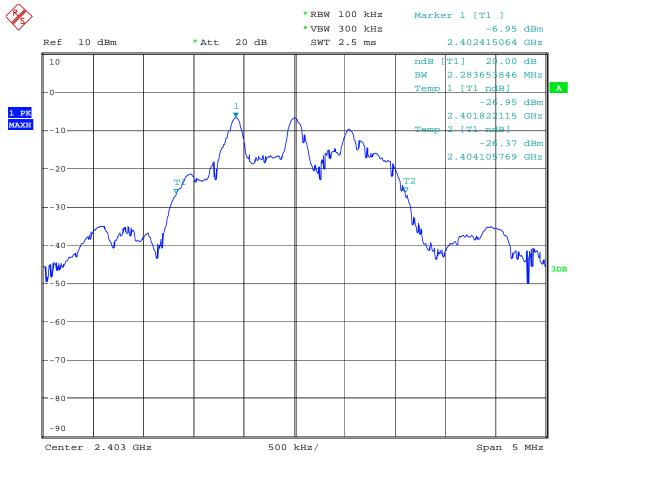
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9.0 20dB Bandwidt	h Measurement		
Product:	3 MODES 87 KEYS ALUMINUM	Test Mode:	Voor transmitting
	MECHANICAL KEYBOARD	rest wrode.	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.284MHz		-



Date: 14.SEP.2024 16:01:22

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Product:		87 KEYS ALUM NICAL KEYBO		Tes	st Mode:		Keep t	ransmitting
Mode	Kee	Keeping Transmitting 24 deg. C,			t Voltage		DC3.7V 56% RH	
Temperature					umidity			
Test Result:		Pass		D	etector			PK
OdB Bandwidth		2.276MHz						
Ref 10 d	Bm ³	*Att 20 dB	* RBW 100 * VBW 300 SWT 2.9) kHz	ndB [7	2.440415 [1] 20	.45 dBm 064 GHz .00 dB 026 MHz	A
-10 20				Mmy	Temp 2	-26 2.439838 2. <u>[Tl. nd</u> -26	.51 dBm 141 GHz B] .74 dBm 782 GHz	
40 50					LA MANAGER	m	Jullah	3DB
60								
-80								
Center 2.		500	kHz/			Spa	n 5 MHz	

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Product:		87 KEYS ALUM NICAL KEYBO		Test Mode:	Keep	transmitting
Mode	Kee	ping Transmitting	g	Test Voltage	Γ	DC3.7V
Temperature		24 deg. C,		Humidity	5	6% RH
Test Result:		Pass		Detector		PK
20dB Bandwidth		2.292MHz				
Ref 10 di	3m *	Att 20 dB	* RBW 100 * VBW 300 SWT 2.5	kHz ms	r 1 [T1] -5.71 dBm 2.479415064 GHz T1] 20.00 dB	1
1 PK MAXH10		1		Temp	2.291666667 MHz 1 [T1 ndB] -25.43 dBm 2.478822115 GHz 2 [T1 ndB]	A
20	T		Mhay 1	T2	-25.93 dBm 2.481113782 GHz	
40 WWww. 50	Why of			V _A	man hall	3DB
70						-
-90						-
Center 2.	48 GHz	500	kHz/	1	Span 5 MHz	<u></u>

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10.0 FCC ID Label

FCC ID: TUVET-7015A

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:



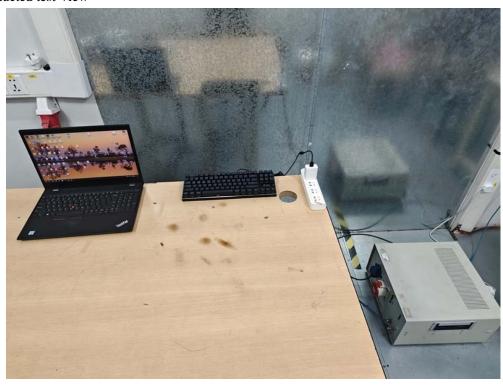
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11.0 Photo of testing

11.1 Conducted test View--



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Radiated emission test view



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11.2



Outside View-Keyboard



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Outside View-Keyboard





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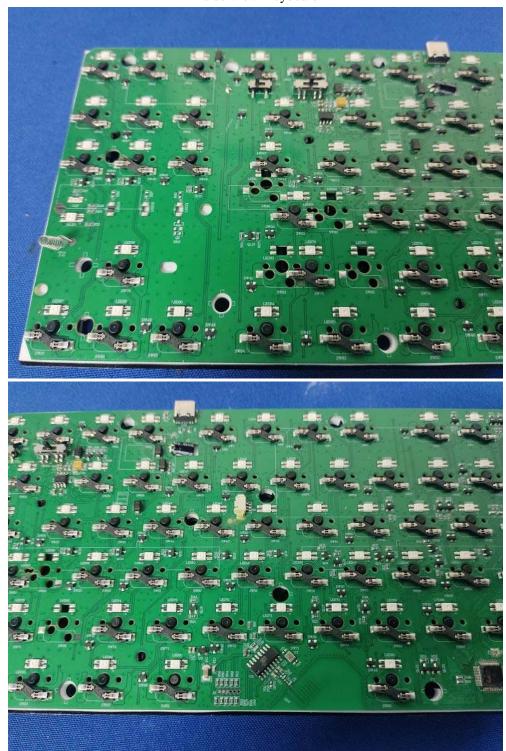
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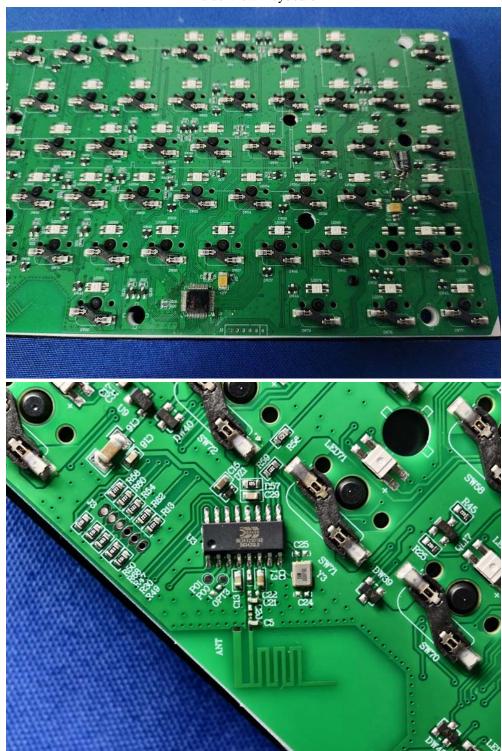
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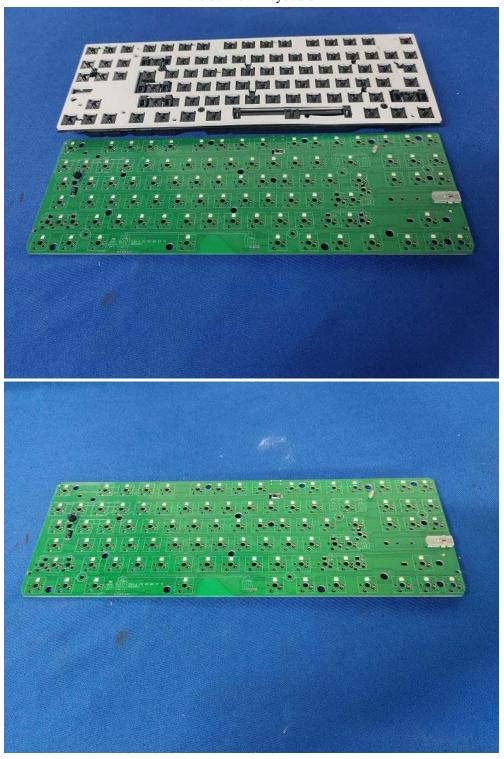
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Inside View-Keyboard



-- End of the Report--

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