



Report No.: File reference No.:	TW2201007E 2022-01-17
Applicant:	Eastern Times Technology Co.,Ltd
Product:	MECHANICAL GAMING KEYBOARD
Model No.:	K603P-KBS, ET-8516, K603P-KBS-IT, K603P-KBS-RF, K603P-KBS-ES, K603P-KBS-DE, K603P-KBS-UK, K603P-KBS-EU, K603P-WBS-IT, K603P-WBS-RF, K603P-WBS-ES, K603P-WBS-DE, K603P-WBS-UK, K603P-WBS-EU
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 17, 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



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	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	14
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

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, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 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:	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
Additional Trademark:	N/A
Model Number:	K603P-KBS
Additional Model Name	ET-8516, K603P-KBS-IT, K603P-KBS-RF, K603P-KBS-ES, K603P-KBS-DE,
	K603P-KBS-UK, K603P-KBS-EU, K603P-WBS-IT, K603P-WBS-RF,
	K603P-WBS-ES, K603P-WBS-DE, K603P-WBS-UK, K603P-WBS-EU
Rating:	DC3.7V, 150mA or DC5V,887mA
Battery:	DC3.8V, 1600mAh Li-ion Battery
Modulation Type:	GFSK (Bluetooth Low Energy)
Operation Frequency:	2402-2480MHz
Channel Separate:	2MHz
Channel Number:	40
Antenna Designation	PCB antenna with gain 0dBi maximum (Declared by the Manufacturer)

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- 1.4 Submitted Sample: 1 pc
- 1.5 Test Duration 2022-01-04 to 2022-01-17
- 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	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	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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The EUT has been tested according to the following specifications:

3.0 **Technical Details**

3.1 Summary of test results

The EOT has been tested according to th	ie ionowing speer		
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**

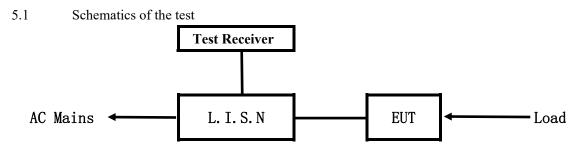
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test



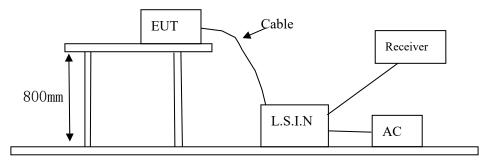
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 500 hm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 79 channels are provided to the EUT

Device	Manufacturer	Model	FCC ID
		K603P-KBS, ET-8516, K603P-KBS-IT,	
MECHANICAL	Eastern Times	K603P-KBS-RF, K603P-KBS-ES, K603P-KBS-DE,	
GAMING	Technology	K603P-KBS-UK, K603P-KBS-EU, K603P-WBS-IT,	TUVET-8516
KEYBOARD	Co.,Ltd	K603P-WBS-RF, K603P-WBS-ES, K603P-WBS-DE,	
		K603P-WBS-UK, K603P-WBS-EU	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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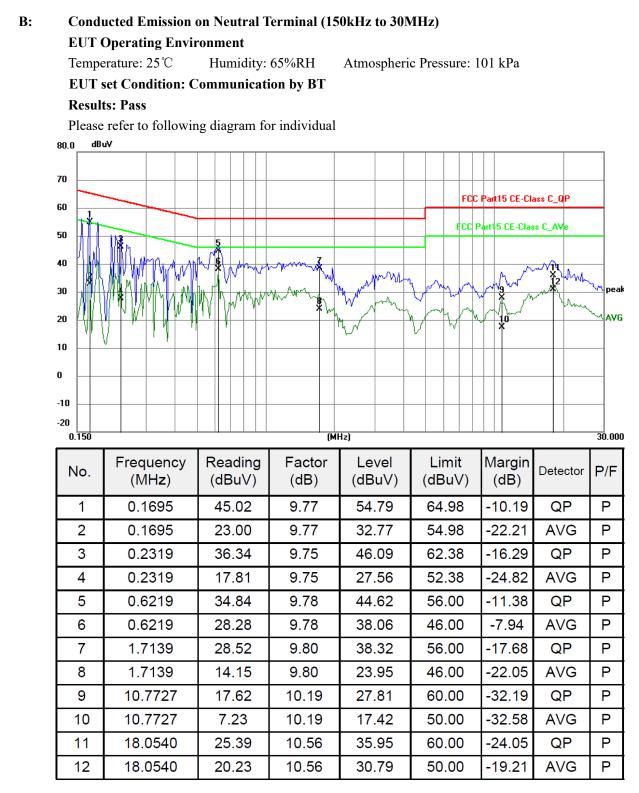


Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Atmospheric Pressure: 101 kPa Temperature: 25°C Humidity: 65%RH EUT set Condition: Communication by BT **Results: Pass** Please refer to following diagram for individual 80.0 dBu¥ 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class C_AVe 50 40 in 30 N Ŷ AVG 20 10 0 -10 -20 (MHz) 30.000 0.150 Reading Frequency Factor Level Limit Margin P/F Detector No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 9.78 QP 1 0.1539 47.09 56.87 65.79 -8.92 Ρ 2 0.1539 26.37 9.78 36.15 55.79 -19.64 AVG Ρ 3 0.2085 39.09 9.75 48.84 63.26 -14.42 QP Ρ 4 9.75 Ρ 0.2085 19.13 28.88 53.26 -24.38 AVG 5 42.44 Ρ 0.6258 32.66 9.78 56.00 -13.56 QP Ρ 6 0.6258 24.33 9.78 34.11 46.00 -11.89 AVG 7 1.8933 24.15 9.80 33.95 56.00 -22.05 QP Ρ 46.00 -19.35 AVG Ρ 8 1.8933 16.85 9.80 26.65 9 4.2558 18.58 9.90 28.48 56.00 -27.52 QP Ρ 10 4.2558 10.33 9.90 20.23 46.00 -25.77 AVG Ρ -26.29 Ρ 11 19.4619 23.06 10.65 33.71 60.00 QP 12 17.31 27.96 -22.04 Ρ 19.4619 10.65 50.00 AVG

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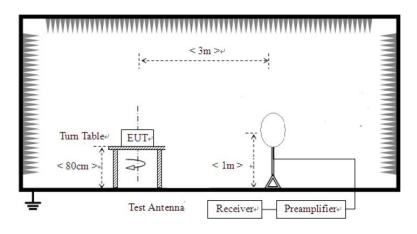


6 Radiated Emission Test

- 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

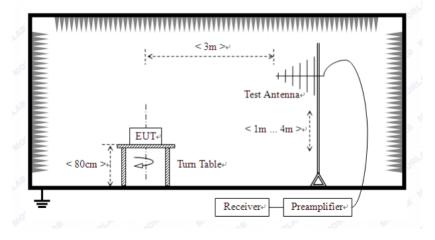


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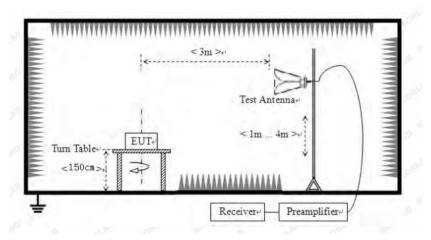
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field S	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.

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

1	r r	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.049	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

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

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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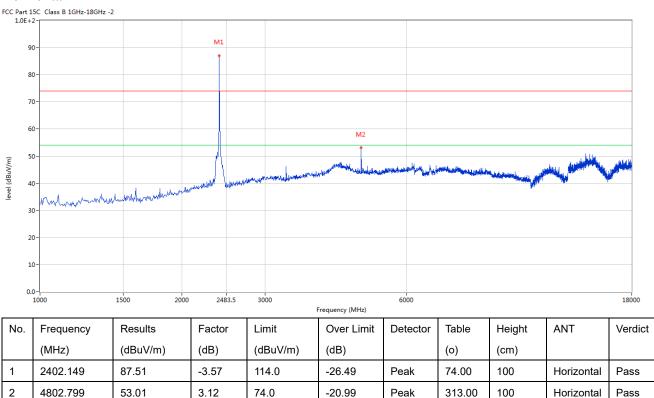
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

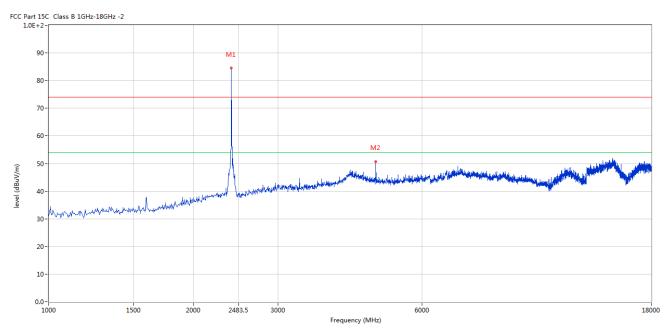


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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	84.95	-3.57	114.0	-29.05	Peak	314.00	100	Vertical	Pass
2	4802.799	50.73	3.12	74.0	-23.27	Peak	351.00	100	Vertical	Pass

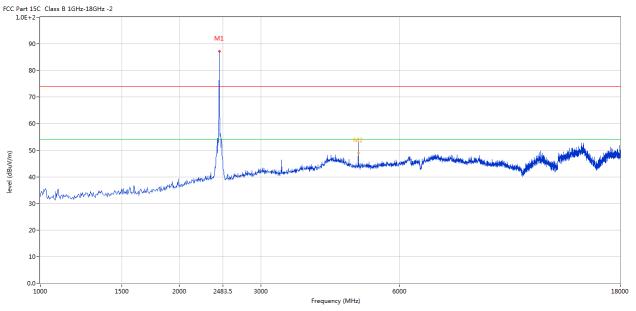
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal

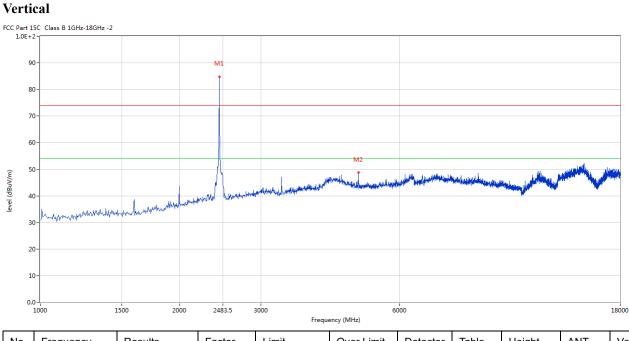


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	87.15	-3.57	114.0	-26.85	Peak	41.00	100	Horizontal	Pass
2	4883.529	54.34	3.20	74.0	-19.66	Peak	318.00	100	Horizontal	Pass
2**	4883.529	48.88	3.20	54.0	-5.12	AV	318.00	100	Horizontal	Pass

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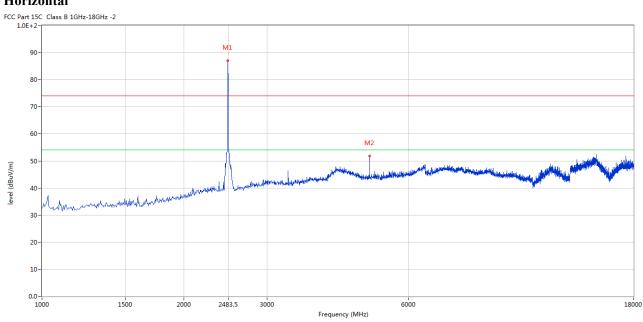
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	84.74	-3.57	114.0	-29.26	Peak	33.00	100	Vertical	Pass
2	4879.280	48.69	3.20	74.0	-25.31	Peak	29.00	100	Vertical	Pass

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

Horizontal

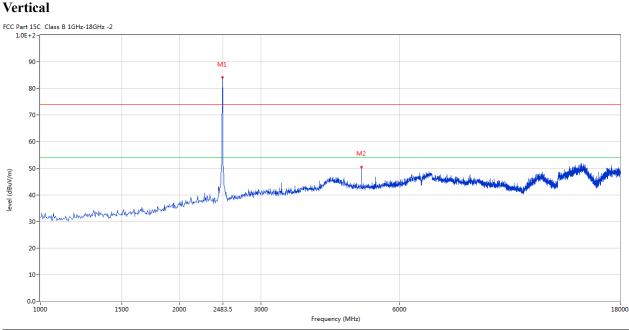


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2479.630	87.79	-3.57	114.0	-26.21	Peak	53.00	100	Horizontal	Pass
2	4960.010	51.77	3.36	74.0	-22.23	Peak	49.00	100	Horizontal	Pass

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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	2479.630	84.17	-3.57	114.0	-29.83	Peak	355.00	100	Vertical	Pass
2	4960.010	50.50	3.36	74.0	-23.50	Peak	359.00	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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Page 21 of 41

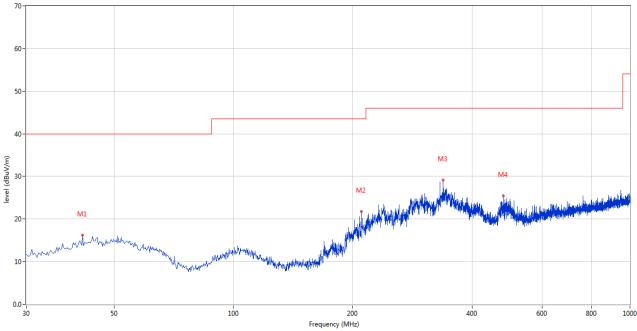
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	41.637	16.23	-11.82	40.0	-23.77	Peak	9.00	100	Horizontal	Pass
2	209.890	21.72	-13.56	43.5	-21.78	Peak	122.00	100	Horizontal	Pass
3	337.413	29.19	-9.83	46.0	-16.81	Peak	91.00	100	Horizontal	Pass
4	478.998	25.50	-7.46	46.0	-20.50	Peak	283.00	200	Horizontal	Pass

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Page 22 of 41

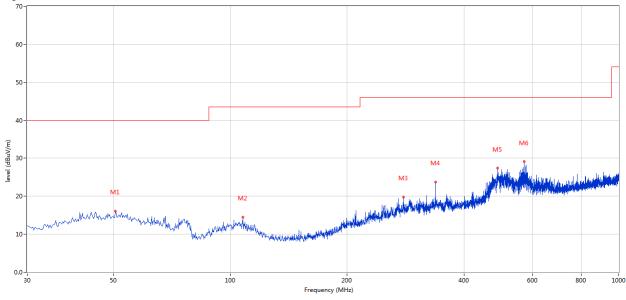
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	50.607	16.06	-11.39	40.0	-23.94	Peak	200.00	100	Vertical	Pass
2	107.823	14.56	-13.41	43.5	-28.94	Peak	302.00	100	Vertical	Pass
3	278.985	19.76	-11.54	46.0	-26.24	Peak	10.00	200	Vertical	Pass
4	337.413	23.74	-9.83	46.0	-22.26	Peak	0.00	200	Vertical	Pass
5	488.210	27.36	-7.13	46.0	-18.64	Peak	47.00	100	Vertical	Pass
6	570.882	29.08	-5.82	46.0	-16.92	Peak	160.00	100	Vertical	Pass

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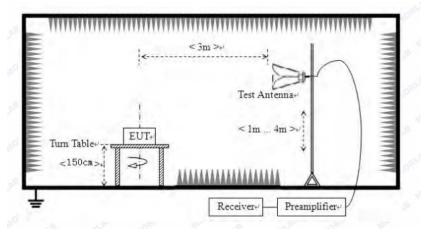


7. Band Edge

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:	MECHAN	ICAL GAN	/ING KEYBO	DARD	Polarity		Н	orizontal	
	Mode	K	Leeping Tra	ansmitting	Т	est Voltag	e	I	DC3.8V	
Te	mperature		24 deg	g. C,		Humidity		4	56% RH	
Te	est Result:		Pas	s						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2					•			_
1.UE+	-2-							M1		
9	0-							, MI	· }	
8	i0 -								\	
									<u> </u>	_
7	/0-							الاللية الاس	Nulline.	
6	i0 -					1		A A A A A A A A A A A A A A A A A A A	Mark and a	
					Marsh Marsh Marshall			M2		4
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4		arthleger day that he have been an	udderegd fillen gledder yn differ	hand and a second s	All of BM control (1), and one and	0	1	•		
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4 3 2 1	.0	Results	Factor			Detector	Table	·	ANT	
- 4 3 2 1	0			Freq	uency (MHz)			• Height (cm)		
4 3 2 1 0. NO.	0- 0- 2350 Frequency	Results	Factor	Freq	uency (MHz) Over Limit		Table	-		
4 3 2 1 0. No.	0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Frequ Limit (dBuV/m)	uency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	Verdio
4 3 2 1	0- 0- 2350 Frequency (MHz) 2400.057	Results (dBuV/m) 65.17	Factor (dB) -3.57	Freq Limit (dBuV/m) 74.0	uency (MHz) Over Limit (dB) -8.83	Detector Peak	Table (o) 5.00	(cm) 100	ANT Horizontal	Verdio Pass

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	Product:	MECHAN	NICAL GA	MING KEYB	BOARD	Detecto	or	\ \	/ertical	
	Mode		Keeping T	ransmitting		Test Volta	age	D	C3.8V	
Te	emperature		24 de	eg. C,		Humidi	ty	5	6% RH	
Te	est Result:		Pa	ass						
CC Part : 1.0E+	15C Class B 1GHz-18GHz	-2					I			
1.004	72									
Ģ	90 -							M	1 5	
8	80 -								\setminus	
7	70-									
6	50-							Law Hour	when the public sector	
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		an frank an	un an	ing by the stand of the stand of the stand	kennelet givlengetet here			M ¹¹ M2		
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level (dBuV/m)	50 - 40	anidodaynan yahar di hisiofa	ublikanikas katala k	underformation in the second second	ing a start of the			*** <u>M2</u>		
level (dBuV/m)	30 -	un and some part of the state	alilingi yang yang d	un de la constante de la consta	leniya lahtiyi adalay darihi sin		and distant for the second	• <u>M2</u>		
level (dgn//m)	20 - 10 -	uning and a start and a sta	ulidania katala kata	un da finis di da finis di da finis di	in an air an		a di alta di a	• <u>M2</u>		
level (dBuV/m)	20 -	un for an ann an the stand of the	494610-46469647494496449449894		quency (MHz)		and the second	• M2		2410
level (dBuV/m)	30 - 20 - 10 -	Results	Factor			Detector	Table	- M2 • Height	ANT	1
level (dBuV/m)	20 - 10 - 2350			Freq	quency (MHz)				ANT	1
evel (dBuV/m)	20- 10- 2350 Frequency	Results	Factor	Freq	quency (MHz) Over Limit		Table	Height	ANT	1
(unv)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)	20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Freq Limit (dBuV/m)	^{quency (MHz)} Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdic

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	Product:	MECHAI	NICAL GA	AMING KEY	BOARD	Polar	ity	I	Horizontal	
	Mode		Keeping 7	Fransmitting		Test Vo	ltage		DC3.8V	
Τe	emperature		24 d	leg. C,		Humi	dity		56% RH	
Т	est Result:		Р	ass						
CC Part 1.0E·	15C Class B 1GHz-18GHz	-2								
	90-		~	\						
;	80-									
	70-		مى مىلىلىلەر ب							
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level (dBuV/m	40			•				A id par your a production	aakon, wata jirta ka ka ya	
level (dBuV/m	40							A da por por a		
level (dBuV/m	40			2483.5	requency (MHz)			A da para para a para a para a		2500
level (dBuV/m	40	Results	Factor	2483.5		Detector	Table	Height	ANT	2500
level (dBuV/m	40			2483.5 F	requency (MHz)			Height (cm)	ANT	
level (dBuV/m	40- 30- 20- 10- 2470 Frequency	Results	Factor	2483.5 F	requency (MHz)		Table	-	ANT	
M//mgp level (dBu//	40- 30- 20- 10- 2470 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	2483.5 F Limit (dBuV/m)	irequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdic

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	Product:	MECHANI	MING KEYB	BOARD	Detector	r	V	<i>Vertical</i>			
	Mode	Keeping Transmitting				Test Volta	ge	DC3.8V			
Те	emperature		24 de		Humidit	у	50	5% RH			
Te	est Result:	Result: Pass									
CC Part 1.0E+	15C Class B 1GHz-18GHz ·	-2									
ç	90-										
٤	80-		\square								
1	70 -		WWW WW								
		i de la contra de la	r	Making Lun							
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level (dBuV/m)	40	in a hard a far hard a far				Hondy And Anna Anna Anna Anna Anna Anna Anna	gerettet _{er se} rende _{er se} rende er serende er	hattanian kantakan ka	Hadddy Amaridda	5 ⁴⁴ 4.00	
level (dBuV/m)	40 - 30 - 20 -			2483.5	quency (MHz)	ini (niki (niki (niki	land the production of the second	hattanaan taalahataan ta	11	2500	
level (dBuV/m)	40	Results	Factor	2483.5		Detector	Table	Height	ANT	2500 Verdict	
level (dBuV/m)	40 30 20 10 10 2470			2483.5 Free	quency (MHz)		Table (o)	Height (cm)	ANT		
level (dBuV/m)	40- 30- 20- 10- 2470 Frequency	Results	Factor	2483.5 Free Limit	quency (MHz) Over Limit			-	ANT		

Note: 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

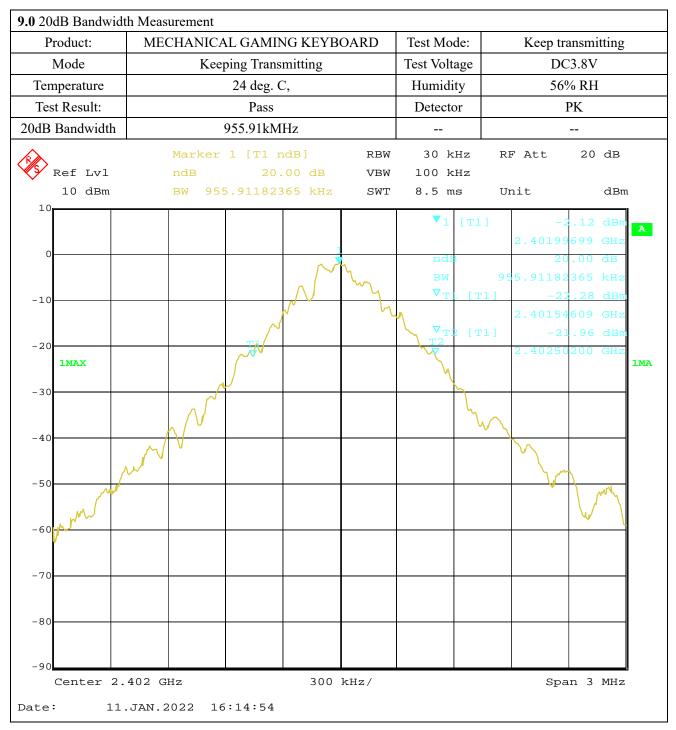
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply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

This product has a PCB antenna with gain 0dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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Product:	MECHANICAL GAMING KEYBOARD				Test Mode:		Keep transmitting			
Mode	Keeping Transmitting 24 deg. C, Pass				Test Voltage Humidity Detector		DC3.8V 56% RH PK			
Temperature										
Test Result:										
20dB Bandwidth	991.98kHz									
Ref Lvl	Marke ndB	r 1 [T1 ndB] 20.00 dB		BW BW	30 kHz 100 kHz		'Att	20 dB		
10 dBm	BW 9	91.98396794 kHz	S	WT	8.5 ms	Un	it	dBm	ı	
10					▼1 [1	F1]	-2 2.43999	.33 dBm 699 GHz	A	
0		\sim			ndB BW		20 1.98396	.00 dB 794 kHz		
-10				$\frac{1}{2}$	$ abla_{T1}$	[T1]	-22 2.43951	. <u>38 dB</u> m 603 GHz		
-20				٦ ر	~ ▼ _{T2}	[T1]	-22	.47 dBm		
1MAX					Ne l		2.44050	802 GHz	1MA	
- 3 0					Ĵ	m				
-40							M.			
-50								M		
-60 when M										
-70										
- 80										
-90 Center 2	.440 GHz	300	kHz/				Spa	n 3 MHz		
	L.JAN.2022						_			

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Product:	MECHANICAL GAMING KEYBOARD				Test Mode:			Keep transmitting			
Mode	Keeping Transmitting				Test Voltage		;	DC3.8V			
Temperature	24 deg. C, Pass				Humidity Detector			56% RH PK			
Test Result:											
20dB Bandwidth	979.96kHz										
R			1 [T1 r			BW	30 k		RF Att	20 dB	
Ref Lvl 10 dBm		ndB BW 979	20. 959919.	00 dB 84 kHz		BW WT	100 k 8.5 m		Jnit	dB	m
10										<u> </u>	7
							1	[T1]	- 2.4799	1.57 dB 9699 GH:	A
0					h		ndI	8	2	0.00 dB	-
					1 m		BW	9	79.9599	1984 kH:	z
-10					Ý	\mathcal{L}	▽ _{T1}	[T1]	-2	1.67 dB	
			M			Ĭ	\ 	2 [T1]	2.4795	2204 GH: 1.31 dB	
-20			T1-M YM						2.4805		z
1MAX			\sim				Ľ				1MA
-30		m									
-40	\bigwedge	V)	w/		
-50 -60	Vic									hang	
-60											<u>_</u>
-70											
- 80											
-90 Center 2.48 GHz 300					kHz/				Spa	an 3 MH:	z
Date: 11	L.JAN.20	22 16	:11:37								

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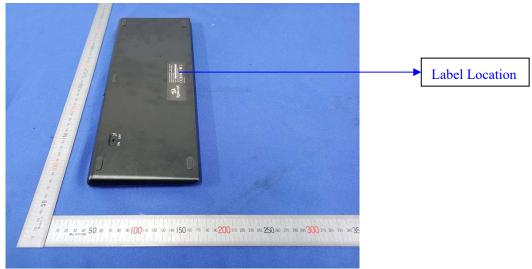
10.0 FCC ID Label

FCC ID: TUVET-8516

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

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:



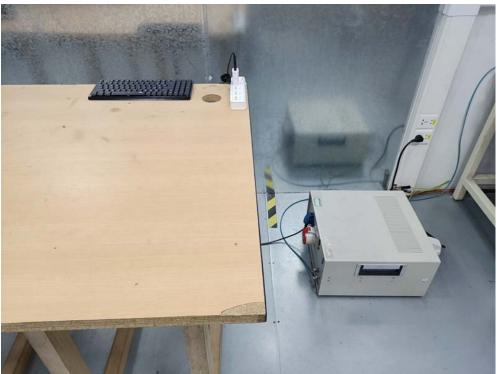
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11.0 Photo of testing

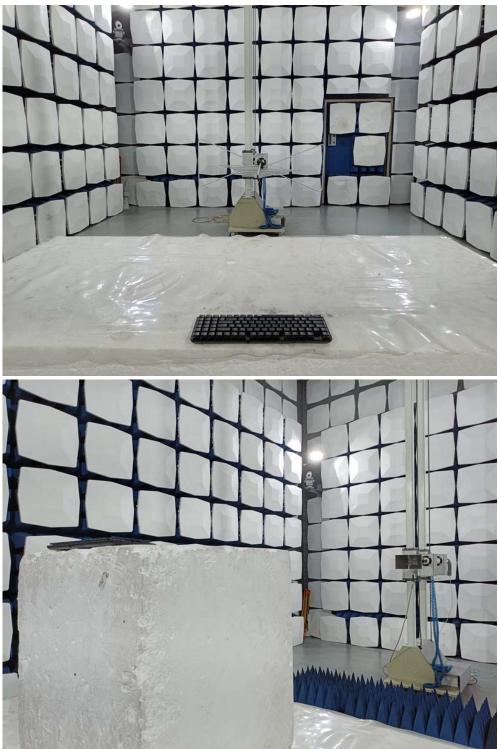
11.1 Conducted test View--



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Radiated emission test view



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11.2 Photographs - EUT



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Photographs - EUT

Outside View





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Outside View



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Page 38 of 41

Outside View



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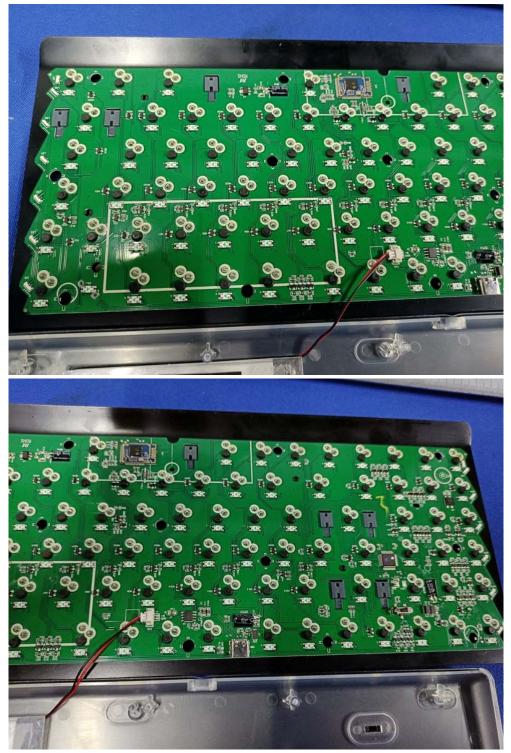
Inside view



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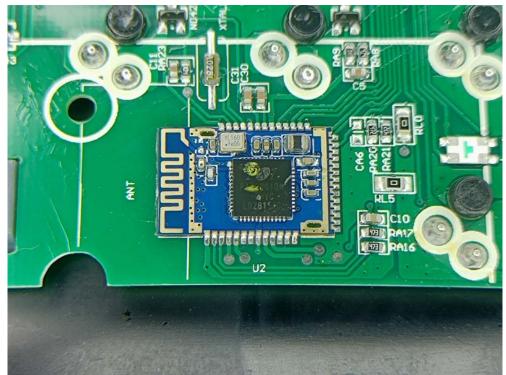
Inside view



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Inside view



--End of the report--

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