



Report No.: File reference No.:	TW2112178-02E 2022-01-04
Applicant:	Eastern Times Technology Co.,Ltd
Product:	LOW-PROFILE 63 KEY MECHANICAL KEYBOARD
Model No.:	K613P-KBS, ET-8578, ET-8582, ET-8579, ET-8583, ET-8586, ET-8587, ET-8645, ET-8649, K613P-WBS, K613P-WNS, K613P-WRS, K613P-KNS, K613P-KRS, Z-11, Z-11RGB, ET-8582
Trademark:	REDRAGON, E-YOOSO
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	
Jack Chung	
Managan	

Manager

Dated:

January 04, 2022

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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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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 Sates

Registration Number: 744189

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:Eastern Times Technology Co.,LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,
Guangdong, China.Telephone:--Fax:--

1.3 Description of EUT

Product:	LOW-PROFILE 63 KEY MECHANICAL KEYBOARD
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Trademark:	REDRAGON
Additional Trademark:	E-YOOSO
Model Number:	K613P-KBS
Additional Model Name	ET-8578, ET-8582, ET-8579, ET-8583, ET-8586, ET-8587, ET-8645, ET-8649,
	K613P-WBS, K613P-WNS, K613P-WRS, K613P-KNS, K613P-KRS, Z-11,
	Z-11RGB, ET-8582
Serial No.:	RDK613P-KBS21092500019
Rating:	DC3.7V, 200mA
Battery:	DC3.8V, 1600mAh Li-ion Battery
Modulation Type:	GFSK, π /4D-QPSK, 8DPSK (Bluetooth)
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain -1.85dBi maximum (Declared by the Manufacturer)

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1.4 Submitted Sample: 1 pc

- 1.5 Test Duration 2021-12-11 to 2022-01-04
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

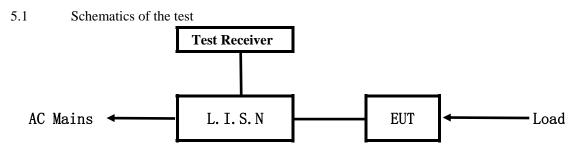
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5. Power Line Conducted Emission Test



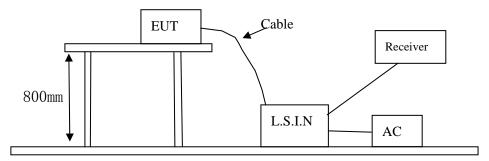
EUT: Equipment Under Test

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 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

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

A. EU

Device	Manufacturer	Model	FCC ID
LOW-PROFILE 63 KEY MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	K613P-KBS, ET-8578, ET-8582, ET-8579, ET-8583, ET-8586, ET-8587, ET-8645, ET-8649, K613P-WBS, K613P-WNS, K613P-WRS, K613P-KNS, K613P-KRS, Z-11, Z-11RGB, ET-8582	TUVET-8578

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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:

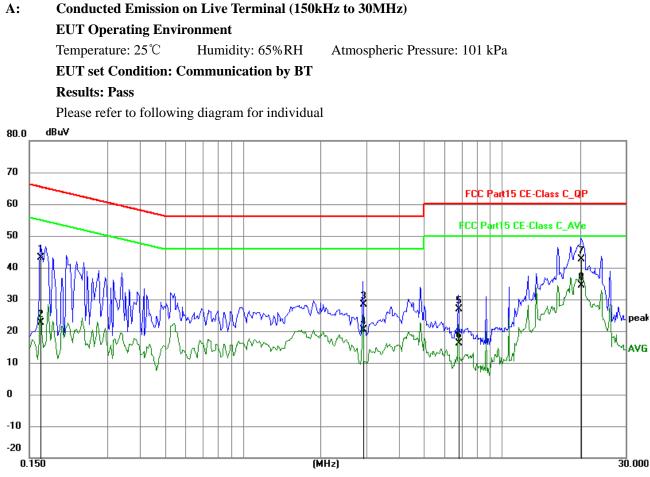
Pass

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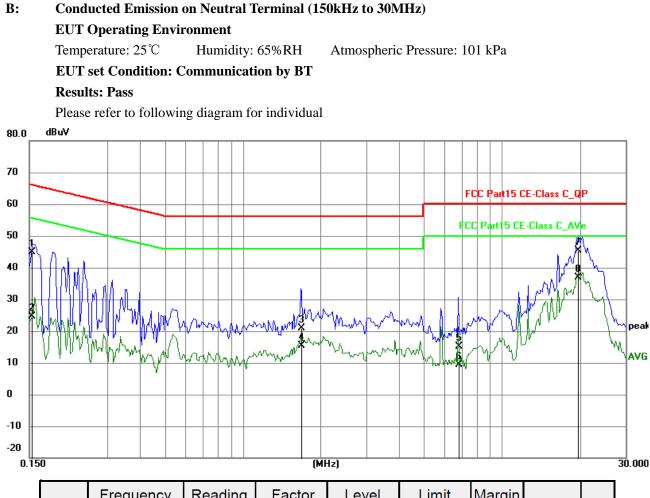


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	33.38	9.77	43.15	65.18	-22.03	QP	Р
2	0.1655	12.92	9.77	22.69	55.18	-32.49	AVG	Р
3	2.9112	18.54	9.84	28.38	56.00	-27.62	QP	Ρ
4	2.9112	10.64	9.84	20.48	46.00	-25.52	AVG	Ρ
5	6.7791	16.87	10.00	26.87	60.00	-33.13	QP	Р
6	6.7791	6.22	10.00	16.22	50.00	-33.78	AVG	Р
7	20.2302	32.04	10.69	42.73	60.00	-17.27	QP	Р
8	20.2302	23.71	10.69	34.40	50.00	-15.60	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	35.11	9.78	44.89	65.79	-20.90	QP	Ρ
2	0.1539	14.78	9.78	24.56	55.79	-31.23	AVG	Р
3	1.6788	11.01	9.80	20.81	56.00	-35.19	QP	Р
4	1.6788	5.52	9.80	15.32	46.00	-30.68	AVG	Р
5	6.7830	5.08	10.00	15.08	60.00	-44.92	QP	Р
6	6.7830	-0.74	10.00	9.26	50.00	-40.74	AVG	Р
7	19.6686	34.78	10.66	45.44	60.00	-14.56	QP	Ρ
8	19.6686	26. <mark>1</mark> 7	10.66	36.83	50.00	-13.17	AVG	Ρ

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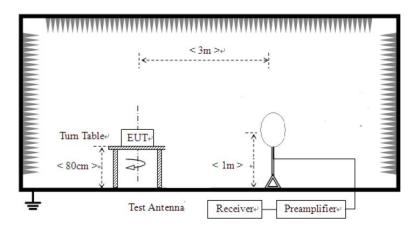


6 Radiated Emission Test

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

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

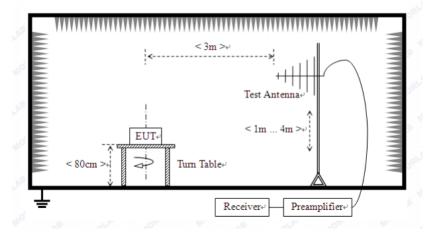


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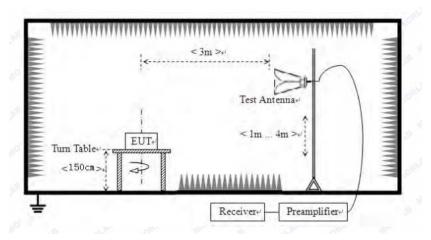
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

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6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	nics (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	I I	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ 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. The three modulation modes of GFSK, π /4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

7. 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.

8. Battery full charged during tests.

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6.5 Test result

4802.799

4802.799

56.55

51.68

3.12

3.12

74.0

54.0

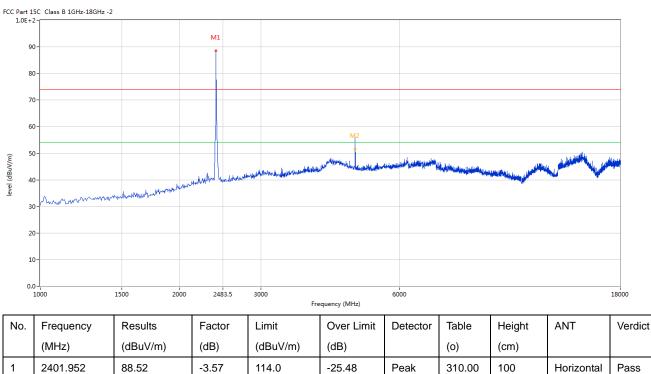
2

2**

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



-17.45

-2.32

Peak

AV

351.00

351.00

100

100

Horizontal

Horizontal

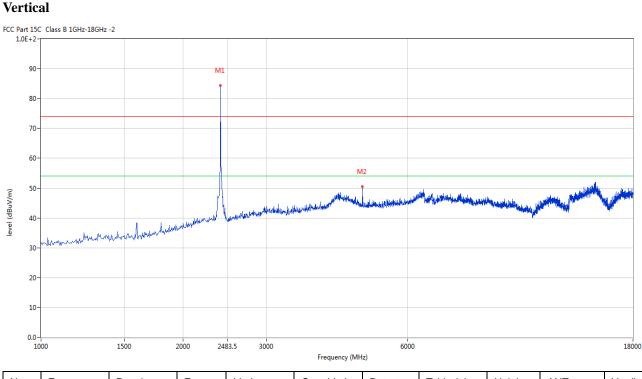
Pass

Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2401.952	84.46	-3.57	114.0	-29.54	Peak	42.00	100	Vertical	Pass
2	4802.799	52.44	3.12	74.0	-21.56	Peak	225.00	100	Vertical	Pass

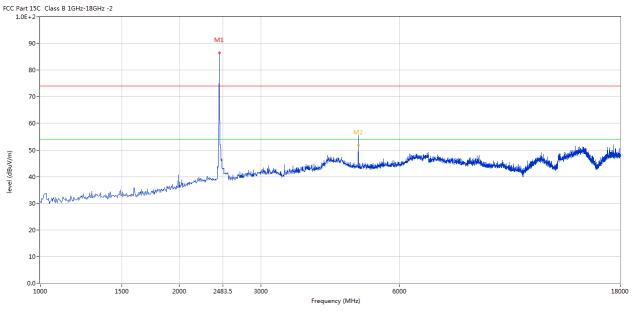
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

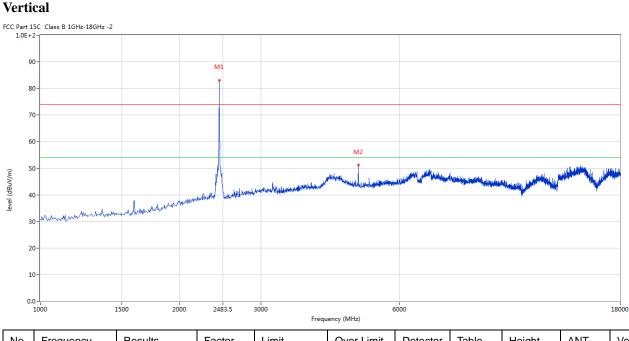


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.956	86.36	-3.57	114.0	-27.64	Peak	121.00	100	Horizontal	Pass
2	4879.280	55.49	3.20	74.0	-18.51	Peak	0.00	100	Horizontal	Pass
2**	4879.280	51.73	3.20	54.0	-2.27	AV	0.00	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	2440.966	83.13	-3.57	114.0	-30.87	Peak	41.00	100	Vertical	Pass
2	4883.529	51.17	3.20	74.0	-22.83	Peak	122.00	100	Vertical	Pass

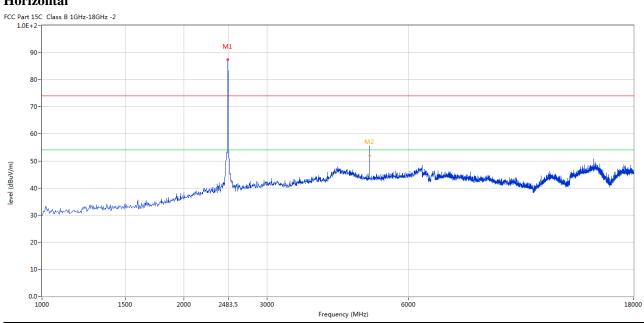
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

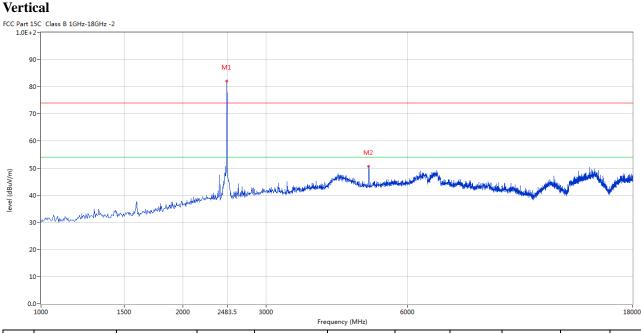


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.955	88.12	-3.57	114.0	-25.88	Peak	72.00	100	Horizontal	Pass
2	4960.010	55.63	3.36	74.0	-18.37	Peak	0.00	100	Horizontal	Pass
2**	4960.010	51.89	3.36	54.0	-2.11	AV	0.00	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	2479.955	82.57	-3.57	114.0	-31.43	Peak	47.00	100	Vertical	Pass
2	4960.010	50.63	3.36	74.0	-23.37	Peak	101.00	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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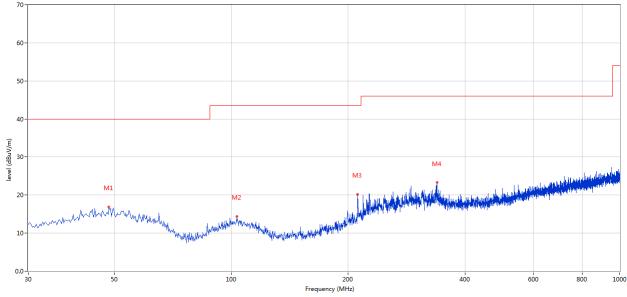
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	48.425	16.88	-11.22	40.0	-23.12	Peak	357.00	100	Horizontal	Pass
2	103.217	14.41	-13.37	40.0	-25.59	Peak	262.00	100	Horizontal	Pass
3	211.587	20.22	-13.68	40.0	-19.78	Peak	267.00	100	Horizontal	Pass
4	338.383	23.27	-9.75	47.0	-23.73	Peak	255.00	100	Horizontal	Pass

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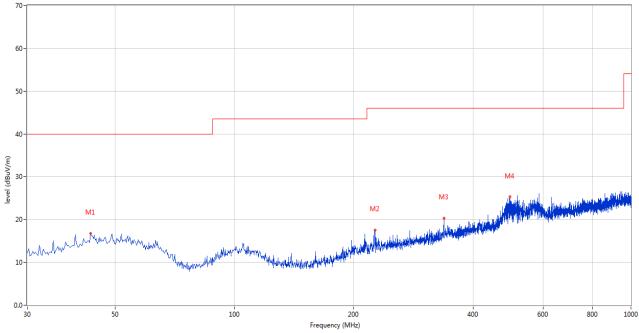
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	43.334	16.76	-11.49	40.0	-23.24	Peak	163.00	100	Vertical	Pass
2	225.891	17.51	-12.85	40.0	-22.49	Peak	157.00	100	Vertical	Pass
3	337.413	20.34	-9.83	47.0	-26.66	Peak	13.00	100	Vertical	Pass
4	495.241	25.25	-7.13	47.0	-21.75	Peak	20.00	100	Vertical	Pass

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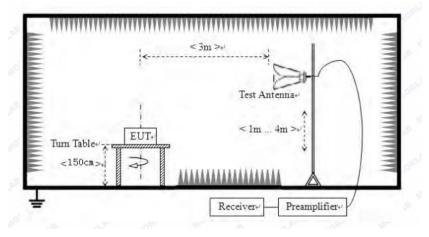


7. Band Edge

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

ł	Product:	LOW-PR		3 KEY MEC 7BOARD	CHANICAL	Pola	rity]	Horizontal	
	Mode		Keeping	Transmittin	ıg	Test Vo	oltage		DC3.7V	
Te	mperature		24	deg. C,		Humi	dity		56% RH	
Te	st Result:			Pass						
CC Part 1 1.0E+2	5C Class B 1GHz-18GHz	-2								
1.00+	-								M1	
9	0-								\wedge	
8	0-								/	
7	0-							64		
								Mederalder	. Material	1.104
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(ɯ/ʌnɡp) 4	1 N N N N N N N N N N N N N N N N N N N	myntelling fellwynelling fellig		n 11 m 1						
(() (m/m) () () () () () () () () () () () () ()	0						0			
۳/۱۳۹۹ (International Content of the second	0						0			2410
۳/۱۳۹۹ (International Content of the second	0				Frequency (MH:		0			2410
۳/۱۳۹۹ (International Content of the second	0	Results	Factor	Limit			• Table (o)	Height	ANT	2410 Verdict
(۱۹۹۳) (۱۹۹۹) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (0				Frequency (MHz	z)	•		ANT	1
(۱۹۹۳) (۱۹۹۹) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (۱۹۹)) (0	Results	Factor	Limit	Frequency (MHz Over Limit	z)	•	Height	ANT	1
المراجع المراحع المماع المماع المماع المماع المماع المماع المماع الماع المع الم	Prequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz Over Limit (dB)	z) Detector	• Table (o)	Height (cm)		Verdict
لللهم المع ا المع الم الم الم الم الم الم الم الم	Frequency (MHz) 2401.932	Results (dBuV/m) 88.22	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz Over Limit (dB) 14.22	z) Detector Peak	• Table (o) 311.00	Height (cm) 100	Horizontal	Verdict N/A
44 33 24 11 0,7 No.	Frequency (MHz) 2400.057	Results (dBuV/m) 88.22 67.35	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz Over Limit (dB) 14.22 -6.65	²⁾ Detector Peak Peak	• Table (o) 311.00 302.00	Height (cm) 100 100	Horizontal Horizontal	Verdict N/A Pass

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]	Product:	LOW-PRO		KEY MECHANICA OARD	L Detect	or	٦	/ertical	
	Mode		Keeping T	ransmitting	Test Volt	age	D	C3.7V	
Te	mperature		24 de	eg. C,	Humid	ity	56% RH		
Te	est Result:		Pa	ass					
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2							
9	90 -							M1	
							آبو	M1 -¶\	
8	30 -								
7	70-							N	
6	50 -							NAME AND A	1
					M3			1	
5	50 - 14	المرينانيونية المرينية المرينية المرينية المرينيين.	unionen linen er bestelen best	nt phillippithe assister and the advantage of the			• •		
4		nerseling brighter and the second	iden all beneries of the light	rt fild siedelineiseren der naturet sieherssterk	M3		• •	4497	
4	10 - Haliyyahiya kuta tu haka ya hika bada	neurolisme freischritezen viteien Art	iden arten al anten den geten kan johen segen an den geten kan johen segen an den geten kan johen segen an den	ye yek ingilikan ingi	M3	g ha ha an	• •		
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4 3 2 1	10	naantiinne heide het het to vir heiden het	devertingleinistensfriederspielen	ne pel haisettensistensistensistensistensistensistensistensistensistensistensistensistensistensistensistensist	M3	stul understadd f	•		
2 0.	10 - <mark>Mary Mark Milany Mark Milany</mark> 10	nasihlinga berda belantikan bel	unarticularisis un fredesision	Frequency (MF			•		2410
4 3 2 1	10	Results	Factor		z)	Table	- M2 • Height	ANT	r
2 0.	10			Frequency (MF	z)			ANT	r
2 1 0.	0- 0- 0- 2350 Frequency	Results	Factor	Frequency (MI Limit Over	z)	Table	Height	ANT	r
4 3 2 1 0. No.	0- 0- 2250 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Frequency (MF Limit Over (dBuV/m) (dB)	z) Limit Detector	Table (o)	Height (cm)		Verdic
4 3 2 1 0. No.	0- 10- 10- 2350 Frequency (MHz) 2402.292	Results (dBuV/m) 84.11	Factor (dB) -3.57	Frequency (MH Limit Over (dBuV/m) (dB) 74.0 10.11	z) Limit Detector Peak	Table (o) 39.00	Height (cm) 100	Vertical	Verdic N/A

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_	Pr	oduct:	LOW-P		63 KEY M EYBOARD	ECHANICAL	Р	olarity		Horizontal	l
	N	Mode		Keepi	ng Transmit	ting	Test	Voltage		DC3.7V	
Т	ſem	perature			24 deg. C,	-	Hu	umidity		56% RH	
5	Test	t Result:			Pass						
	rt 15C)E+2-r	Class B 1GHz-18GHz	-2								
1.0	90-										
	80-			- /							
	70-		Link	A A A A A A A A A A A A A A A A A A A							
			and a state of the		144	A PLANTING AND					
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		Handred and International States of Stat				Man Marin Marin M2	hal han de staat de s	hal and have been a surface of		kisman kalamikan nakan na	nykannilsepuak
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	50- 40-	ilige, etti _{ele} etti _{ele} etti ele etti e				•	i i i i i i i i i i i i i i i i i i i	kolenadi kuri kilangan karin	i al e par de la factor de la de la dest	hinnen fin der können könne	nyhiyonallistyiida
	50 - 40 - 30 - 20 -	iliyya artik yayimed ta barileyi da Ardi				•	in the state of the	kaka manda kaka kaka kaka kaka kaka kaka kaka		terret i det lennet og det her	nthanallisud
	50- 40- 30- 20- 10-	iliyyyyddiad yn				• • • • • • • • • • • • • • • • • • •		koka sandi kata kata kata kata kata kata kata kat		hannan da da kanan da ayan da a	nybansilisiikk
	50 - 40 - 30 - 20 -					2483.5 Frequency (MHz)		kokaranti kata kata kata kata kata kata kata ka			2500
	50 40 30 20 10 247		Results	Factor	Limit	2483.5 Frequency (MHz)	Detector	Table (o)	Height	ANT	
	50 40 30 20 10 247	70				2483.5 Frequency (MHz)					2500
	50 40 30 20 10 247	70 Frequency	Results	Factor	Limit	2483.5 Frequency (MHz) Over Limit D (dB)			Height		2500
No	50 40 30 20 10 247	⁷⁰ Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz) Over Limit D (dB) 13.22 P	Detector	Table (o)	Height (cm)	ANT	2500 Verdict

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adopt any other remedies which may be appropriate.



	Product:			-PROFILE (ANICAL KE			Detector		Vertica	ıl
	Mode		Kee	ping Transn	nitting	Т	est Voltage		DC3.7	V
	Temperature			24 deg. C	,		Humidity		56% R	Н
	Test Result:			Pass						
1.0E+ 9	0		1 111 40							
6 5 4	0-	nij gold gibbe addiert		V	M2	harthainntanta,	and have be an internation of the	uithe guilt hey plathed by plathe	un finger in the state of the	hadden han han da an
5 4 3		di jahli jahli jahli jahli jah		V	M2	Harthanna an Anna	add yr ar hi ar han yr ar yn ar y Yn ar yn a	nden geber som skille skille til	undigents significants	halifi shuhputi bi
5 5 4 3	0	AL PHERICAL PROPERTY AND A PARTY AND A		V	M2	Harlin Anna	ath hand the second	nilozadingistalijsta	undersent significant	haidiffeille u home haidi
5 4 3 2 1 0,	0				M2 e 2483.5 Frequency (MF		add lafart hit ann daar ga	******************************		2500
5 5 2 2 1 0.	0- 	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5		Table (o)	Height (cm)	ANT	
5 4 3 2 1 0,	0- 0- 0- 0- 2470 Frequency	Results	Factor	Limit	2483.5 Frequency (MF Over Limit	z)		Height	ANT	2500 Verdict
5 4 3 2 1 0.	0- 0- 0- 2470 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MF Over Limit (dB)	^{iz)} Detector	Table (o)	Height (cm)		Verdic

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

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

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8.0 Antenna Requirement

Applicable Standard

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

This product has a PCB antenna with gain -1.85dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation						
Product:	LOW-PROFI	LE 63 KEY ME KEYBOARD	ECHANICAL	Test Mode	: Keep ti	ransmitting
Mode	Ke	eping Transmitt	ing	Test Voltag	e Do	C3.7V
Temperature		24 deg. C,		Humidity	56	% RH
Test Result:		Pass		Detector		РК
20dB Bandwidth		1.070MHz				
Ref Lvl 10 dBm	Marker ndB BW	1 [T1 ndB] 20.00 1.07014028	dB VBW	1 100 kHz		30 dB dBm
			1	ndB BW	1.0701	7.76 dBm 5491 GHz 0.00 dB 4028 MHz
-10						1984 GHz 7.73 dBm
-30						lm
-40 -50	umpoul				tremun	mm
-60						
-70						
-80						
-90 Center 2.4	0.0 GT		300 kHz/			an 3 MHz

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GFSK Modula Product:	1		63 KEY M YBOARD	IECHANI(CAL	Te	est Mode:		Keep tr	ansmitting	
Mode			g Transmi			Те	st Voltage		DC	C3.7V	
Temperature			4 deg. C,	0		Humidity			56% RH		
Test Result:		Pass								PK	
OdB Bandwidth	1.070MHz										
Ref Lvl 10 dBm		ndB	1 [T1 r 20.	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	Iz	F Att nit	30 dB dBn	n
10							v ₁	[T1]		.50 dBm	1
							-		2.44095	5491 GHz	A
0				1			ndB BW ⊽⊤1	[T1]	20 1.07014	.00 dB 028 MHz .88 dBm	
-10				\sim	m			<u> </u>	2.44041	984 GHz	
-20			^			h	▼ _{T2}	[T1]	-29	3.41 dBm	
1MAX		ст 1							2.44148	998 GHz	1MA
- 30		\sim					h				
-40	mm	~~~						hr	min .		
-50										Muhande	
-60											
-70											
- 80											
-90	-90										
Center 2	Center 2.441 GHz								Spa	an 3 MHz	
Date: 2'	7.DEC.2	021 14	:52:20								

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Product:	LOW-P		53 KEY M YBOARD	IECHANI()	CAL	Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC3.7V		
Temperature		24	24 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth	1.070MHz										
Ref Lvl 10 dBm		ndB	1 [T1 n 20. .070140	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	z	? Att nit	30 dB dBn	n
								[T1]	-11 2.47995		A
-10				1			ndB BW ♥ _{T1}	[<u>T1</u>]	20 1.07014 -31	0.00 dB 028 MHz 1.50 dBm	
-20			A	N	h		▼ _{T2}	[T1]	2.47941 -31 2.48048	984 GHz 1.69 dBm 998 GHz	1
1MAX			\sim						2.10010		1MA
-40		Ar					- Ju				
- 50	www.	~~~ 						heren	Myal	when	
-60											-
-70											-
-80											-
-90 Center 2	-90 Center 2.48 GHz				kHz/				Spa	an 3 MHz]

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Product:	LOW-PROFILE K	63 KEY M EYBOARD		AL	Fest Mode:		Keep transmitting		
Mode	Keepi	ng Transmi	tting	Т	est Voltage	DC3.7V			
Temperature		24 deg. C,			Humidity		56% RH		
Test Result:		Pass			Detector]	PK	
0dB Bandwidth	-	1.311MHz							
Ref Lvl 10 dBm	ndB	1 [T1 r. 20. 1.310621	00 dB	RBW VBW SWT	30 kH: 100 kH: 8.5 ms	z	F Att nit	30 dB dBm	ı
10					▼1 [T1]	-11 2.40176	.79 dBm 854 GHz	A
-10			1		ndB BW ♥ _{T1}	[T1]	20 1.31062 -31	.00 dB 124 MHz .86 dBm	
		\sim	\sim	\sim	~~~ [▼] T2		2.40131 -31		
-20	т			<u>.</u>	C 2		2.40262	224 GHz	1117
-30	mar will man				< Comparison of the second sec	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
-40						\mathcal{A}	wind	nymen	
-50									
- 6 0									
-70									
-80									
-90 Center 2	-90 Center 2.402 GHz			Hz/			Spa	n 3 MHz	

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Product:	LOW-PR		53 KEY M YBOARD	ECHANI(CAL	Te	est Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting		Te	st Voltage		DC3.7V		
Temperature		24	4 deg. C,			H	Iumidity		56%	6 RH	
Test Result:			Pass			Detector			I	PK	
0dB Bandwidth		1.	311MHz								
Ref Lvl 10 dBm	n	dB	1 [T1 n 20. .310621	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	ĺz	F Att nit	30 dB dBn	ı
							▼1	[T1]	-12 2.44076	.97 dBm 253 GHz	A
-10				7			ndB BW ♥ _{T1}	[T1]	20 1.31062 -32	.00 dB 124 MHz .91 dBm	
-20			$\sim M$	×.	1	\sim	<u>∽~</u> 2	[T1]	2.44031 -32	162 GHz .84 dBm	
-30		_/			<u>v</u>	Č			2.44162	224 GHz	1M2
-40	1. Mult	ww					\	h			
								M	Murihan	maline	
- 5 0											
-60											
-70											
-80											
-90 Center 2	-90 Center 2.441 GHz				kHz/				Spa	n 3 MHz	ļ

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Product:	LOW-PI		63 KEY M YBOARD	IECHANI()	CAL	Т	est Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting		Te	est Voltage	DC3.7V			
Temperature		2	4 deg. C,			I	Humidity		56%	% RH	
Test Result:			Pass			Detector			I	PK	
0dB Bandwidth	1.311MHz										
Ref Lvl 10 dBm		ndB	1 [T1 n 20. 1.310621	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	Z	7 Att nit	30 dB dBn	n
10							▼1 [T1]	-14 2.47976	.68 dBn 854 GHz	A
0							ndB BW ⊽⊤1	[T1]	20 1.31062 -34	.00 dB 124 MHz .41 dBm	
-10					-			[T1]	2.47931	162 GHz	
-20		ſ	\sim			N	M		2.48062	224 GHz	1MA
- 30								2			
-40	r and a second	••• •						then	my	hann	
-50											
-60											
-70											
-80											
-90 Center 2	-90 Center 2.48 GHz								Spa	in 3 MHz	ļ

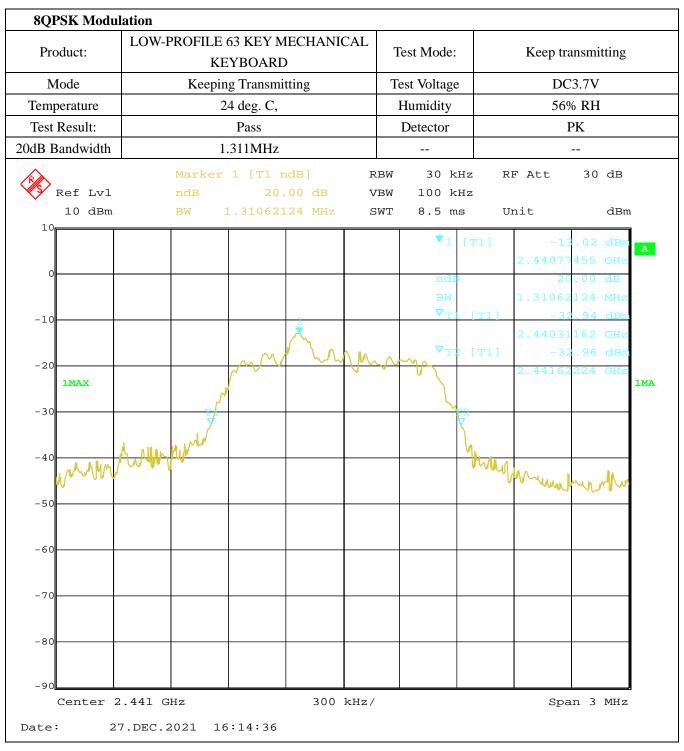
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Product:		63 KEY MECHAN YBOARD	ICAL	Те	est Mode:		Keep tra	ansmitting	
Mode	Keepin	g Transmitting		Te	st Voltage		DC	3.7V	
Temperature	2	4 deg. C,		H	Iumidity	56% RH			
Test Result:		Pass		Detector			Ι	PK	
0dB Bandwidth	1.	.311MHz							
Ref Lvl 10 dBm	ndB	1 [T1 ndB] 20.00 dB 1.31062124 MHz	V	BW BW WT	30 kHz 100 kHz 8.5 ms		F Att nit	30 dB dBm	L
					▼1 [7	1]	-11 2.40176	.56 dBm 854 GHz	A
-10		1			ndB BW ⊽ _{T1} [<u>T1]</u>	20 1.31062 -31	.00 dB 124 MHz .70 dBm	
-20			hr	\sim	~~~ [♥] ┰ ₂ [T1]	2.40131	.64 dBm	
1MAX	T				C2		2.40262	224 GHz	1MA
-40	monten				ľ,	Man			
- 50							the part	menter	
-60									
-70									
- 80									
-90 Center 2	-90 Center 2.402 GHz				I		Spa	n 3 MHz	

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Product:	LOW-PRO		53 KEY M YBOARD		CAL	Т	est Mode:		Keep tra	ansmitting	
Mode	K	leeping	g Transmit	tting		Te	est Voltage		DC	C3.7V	
Temperature		24	l deg. C,]	Humidity		56%	% RH	
Test Result:			Pass			Detector]	PK	
OdB Bandwidth		1.	311MHz								
Ref Lvl 10 dBm	Mar ndF BW	3	1 [T1 n 20. .310621	00 dB	V	BW BW WT	30 kH: 100 kH: 8.5 ms	z	F Att nit	30 dB	n
10							▼1 [T1]	-14 2.47976	.58 dBr 854 GH2	
0							ndB BW ⊽⊤	[T1]	20 1.31062 -34	.00 dB 124 MH2 .56 dBr	5
-10							∇_{T2}		2.47931 -34		2 A
-20 1MAX		للر	\sim		174	~~	m l		2.48062	224 GH2	1M2
-30		T.					22	!			
-40		·						tim	mayour	hand	U
-50											
-60											
-70											
-80											
-90 Center 2	-90 Center 2.48 GHz				kHz/				Spa	in 3 MHz	<u>]</u> :

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10.0 FCC ID Label

FCC ID: TUVET-8578

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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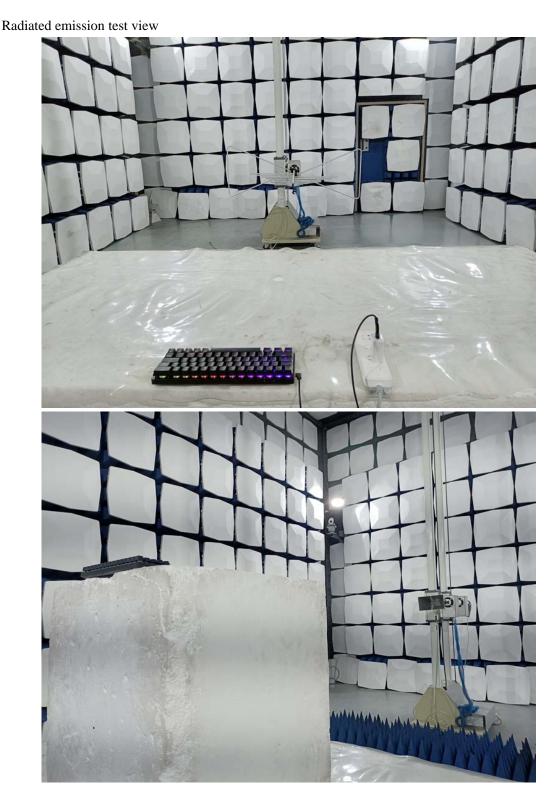
11.0 Photo of testing

11.1 Conducted test View--



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11.2 Photographs - EUT

Outside View



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Photographs - EUT

Outside View



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Outside View

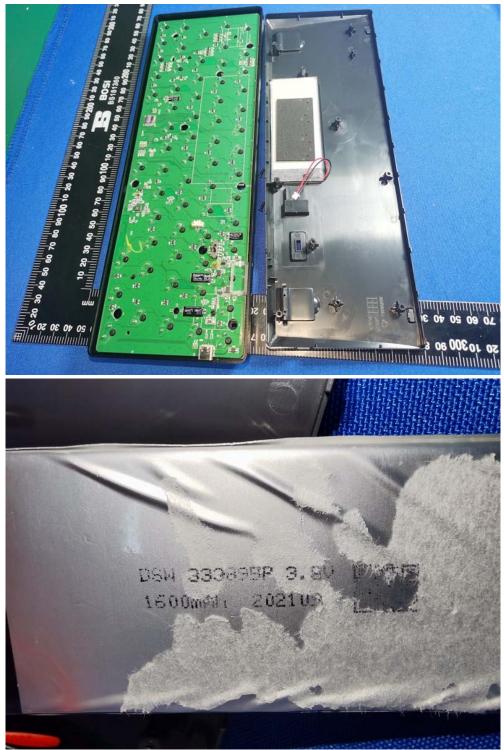


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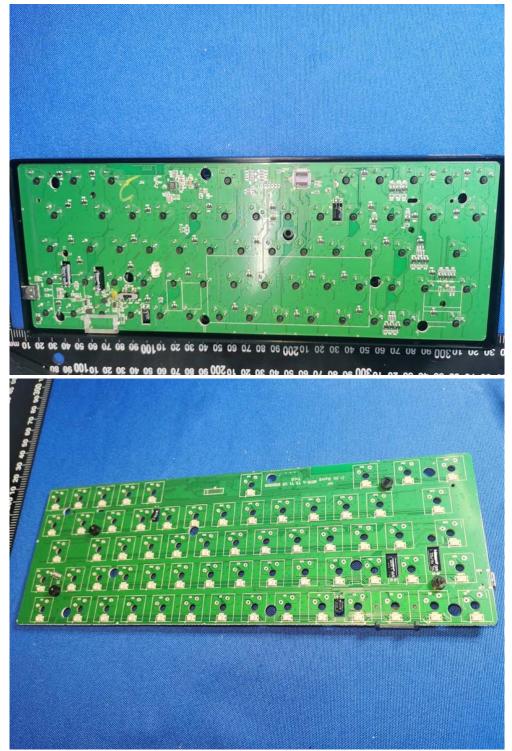
Inside view



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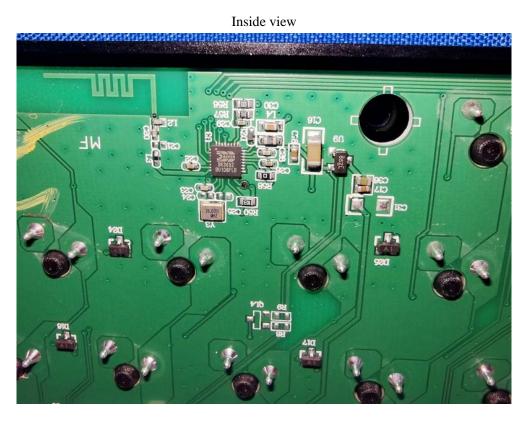


Inside view



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--End of the report--

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