

Applicant: Eastern Times Technology Co.,Ltd

Product: REDRAGON WIRELESS CRYSTAL 75% GASKET

MECHANICAL KEYBOARD

Model No.: K649CT-RGB-PRO, BBK649CT-RGB-PRO,

K649CTB-RGB-PRO, ET-8882

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 lang

Terry Tang

Manager

Dated: July 06, 2023

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:

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 17025:2017 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

CAB identifier: CN0033

Date: 2023-07-06



Test Report Conclusion

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Photo of Test Setup and EUT View.... 11.0

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

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

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd

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

Guangdong, China.

Telephone: Fax:

1.3 Description of EUT

Product: REDRAGON WIRELESS CRYSTAL 75% GASKET 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: N/A

Model Number: K649CT-RGB-PRO

BBK649CT-RGB-PRO, K649CTB-RGB-PRO, ET-8882 Additional Model Name

Hardware Version: 8882-A TX V1

Software Version: 3D56

Serial No.: RDK649CT-RGB-PR023042501514 Rating: DC5V, 825mA or DC3.7V, 325mA Battery: DC3.7V, 3000mAh Li-ion battery

Modulation Type: **GFSK**

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz

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Channel Number: 79

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

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-06-12 to 2023-07-06

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: 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	2022-07-15	2023-07-14		
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17		
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14		
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	2024-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17		
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17		
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	2022-07-15	2023-07-14		
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14		
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14		
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2022-07-15	2023-07-14		
RF Cable	Zhengdi	7m	1	2022-07-15	2023-07-14		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14		
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17		
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14		
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17		

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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Technical Details 3.0

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**

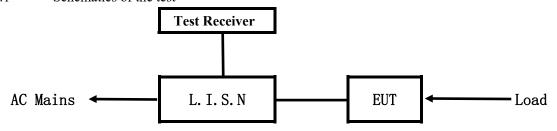
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

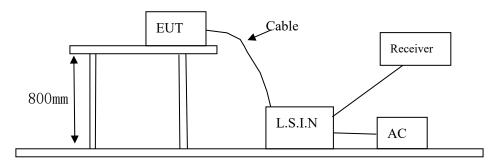


EUT: Equipment Under Test

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 50ohm/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. EUT

Device	Manufacturer	Model	FCC ID
REDRAGON WIRELESS		K649CT-RGB-PRO,	
CRYSTAL 75% GASKET	Eastern Times	BBK649CT-RGB-PRO,	TUVET-8882A
MECHANICAL KEYBOARD	Technology Co.,Ltd	K649CTB-RGB-PRO,	1UVE1-8882A
MECHANICAL KEYBOARD		ET-8882	

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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 ~ 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)

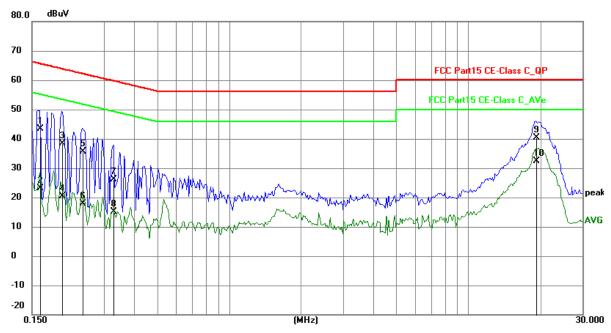
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	33.56	9.78	43.34	65.38	-22.04	QP	Р
2	0.1617	13.26	9.78	23.04	55.38	-32.34	AVG	Р
3	0.2007	28.68	9.75	38.43	63.58	-25.15	QP	Р
4	0.2007	10.69	9.75	20.44	53.58	-33.14	AVG	Р
5	0.2455	25.94	9.75	35.69	61.91	-26.22	QP	Р
6	0.2455	8.11	9.75	17.86	51.91	-34.05	AVG	Р
7	0.3294	16.49	9.76	26.25	59.47	-33.22	QP	Р
8	0.3294	5.32	9.76	15.08	49.47	-34.39	AVG	Р
9	19.1460	29.63	10.63	40.26	60.00	-19.74	QP	Р
10	19.1460	21.63	10.63	32.26	50.00	-17.74	AVG	Р

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

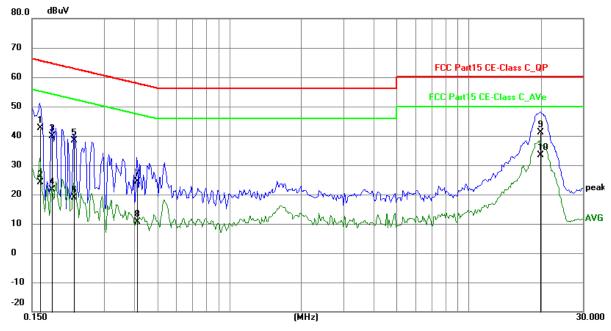
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	32.88	9.78	42.66	65.38	-22.72	QP	Р
2	0.1617	14.47	9.78	24.25	55.38	-31.13	AVG	Р
3	0.1812	30.24	9.76	40.00	64.43	-24.43	QP	Р
4	0.1812	11.79	9.76	21.55	54.43	-32.88	AVG	Р
5	0.2241	28.75	9.75	38.50	62.67	-24.17	QP	Р
6	0.2241	9.22	9.75	18.97	52.67	-33.70	AVG	Р
7	0.4113	14.55	9.76	24.31	57.62	-33.31	QP	Р
8	0.4113	0.75	9.76	10.51	47.62	-37.11	AVG	Р
9	19.9494	30.41	10.68	41.09	60.00	-18.91	QP	Р
10	19.9494	22.61	10.68	33.29	50.00	-16.71	AVG	Р

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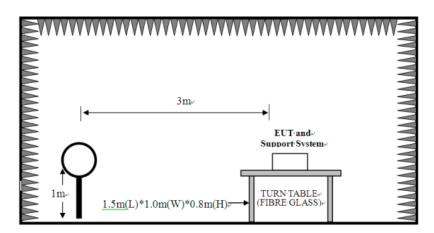


6 Radiated Emission Test

- 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

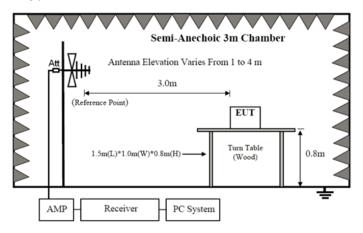
For radiated emissions from 9kHz to 30MHz



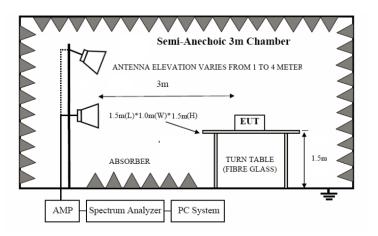
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For radiated emissions from 30MHz to1GHz



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 Strength of Fundamental (3m)			Field S	trength of Harmo	onics (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 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
30-88	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. 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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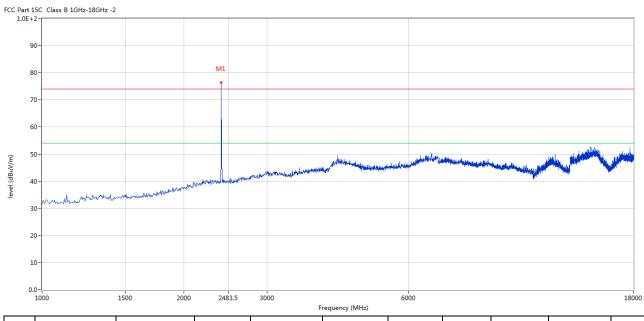


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



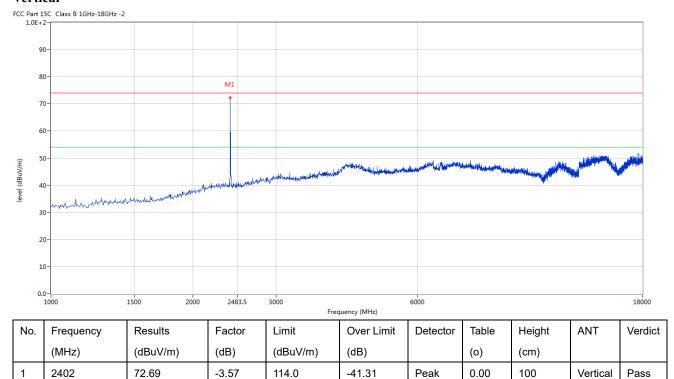
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	76.32	-3.57	114.0	-37.68	Peak	90.00	100	Horizontal	Pass

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Vertical



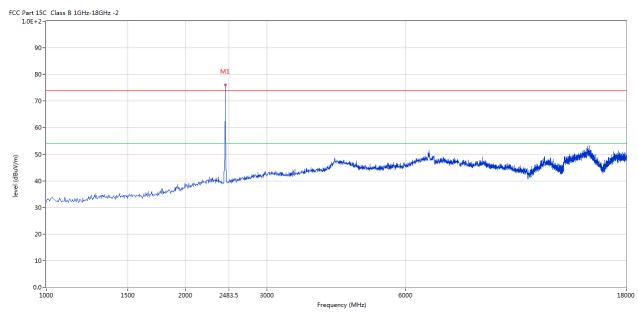
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



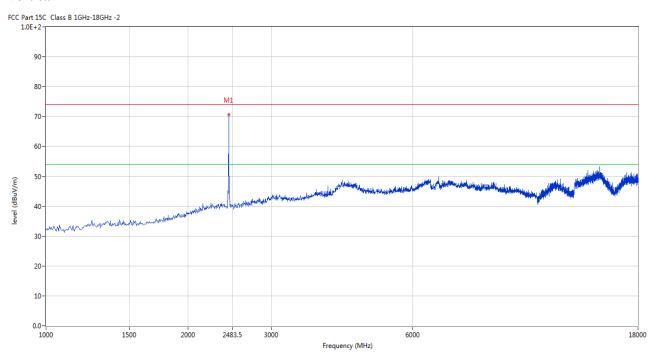
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	76.16	-3.57	114.0	-37.84	Peak	64.00	100	Horizontal	Pass

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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	70.68	-3.57	114.0	-43.32	Peak	360.00	100	Vertical	Pass

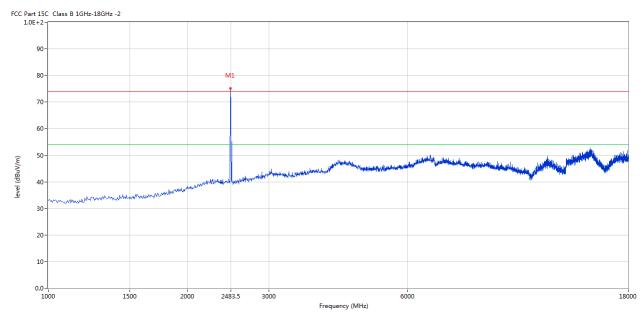
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	75.19	-3.57	114.0	-38.81	Peak	218.00	100	Horizontal	Pass

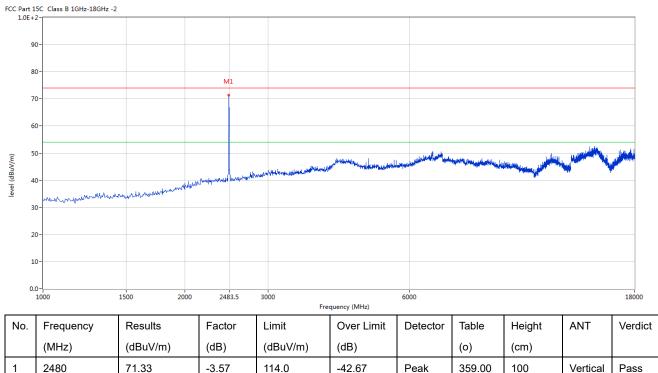
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Vertical



2480 71.33 -3.57 114.0 -42.67 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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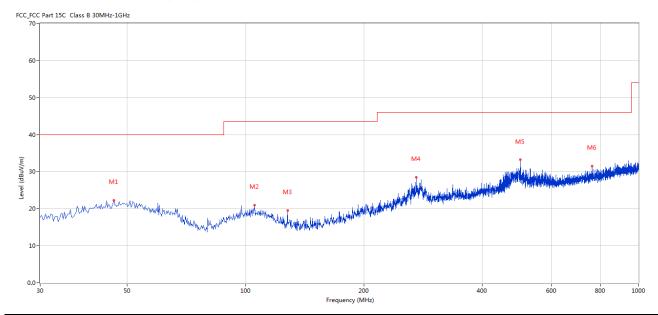


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	46.243	22.28	-11.41	40.0	17.72	Peak	316.00	100	Horizontal	Pass
2	105.399	20.91	-13.25	43.5	22.59	Peak	312.00	100	Horizontal	Pass
3	127.946	19.56	-16.70	43.5	23.94	Peak	87.00	100	Horizontal	Pass
4	271.712	28.46	-11.71	46.0	17.54	Peak	262.00	100	Horizontal	Pass
5	499.848	33.16	-6.90	46.0	12.84	Peak	310.00	100	Horizontal	Pass
6	761.440	31.51	-3.21	46.0	14.49	Peak	146.00	100	Horizontal	Pass

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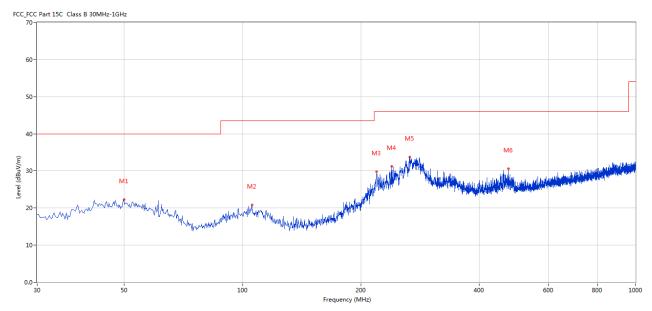


Radiated Emission In Vertical (30MHz----1000MHz)

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	49.880	22.24	-11.36	40.0	17.76	Peak	202.00	100	Vertical	Pass
2	105.641	20.78	-13.27	43.5	22.72	Peak	156.00	100	Vertical	Pass
3	219.345	29.75	-13.32	46.0	16.25	Peak	360.00	100	Vertical	Pass
4	239.953	31.25	-12.33	46.0	14.75	Peak	360.00	100	Vertical	Pass
5	266.621	33.72	-11.77	46.0	12.28	Peak	269.00	100	Vertical	Pass
6	475.604	30.64	-7.45	46.0	15.36	Peak	91.00	100	Vertical	Pass

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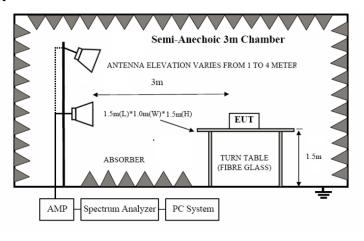
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7. Band Edge

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.

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

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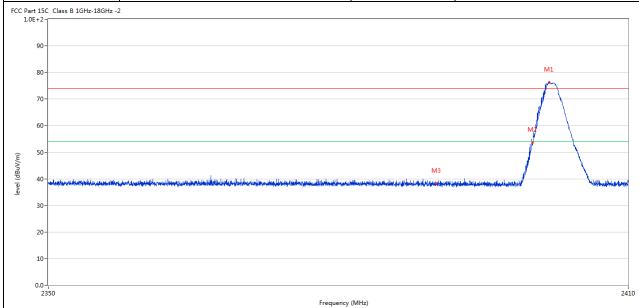
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7.6 Test Result

Product:	REDRAGON WIRELESS CRYSTAL 75% GASKET MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.722	76.18	-3.57	74.0	2.18	Peak	84.00	100	Horizontal	N/A
2	2400.000	53.61	-3.57	74.0	-20.39	Peak	84.00	100	Horizontal	Pass
3	2390.000	38.14	-3.53	74.0	-35.86	Peak	265.00	100	Horizontal	Pass

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]	Product:			ESS CRYSTAI CHANICAL ARD		tector		Vert	tical	
	Mode	Kee	eping Trans	smitting	Test '	Voltage		DC3	3.7V	
Te	mperature		24 deg.	C,	Hur	nidity		56%	RH	
Τe	est Result:		Pass					_	-	
7 6	0		dentis & Library	ر الماريخ		M3	I m. dill 1004a e Abrach	M1		
3 2 1 0.	0-0-0-2350			1 1	ency (MHz)			poguidanti di pinor		2410
3 2 1 0.	o- 0- 0- 2350 Frequency	Results	Factor	Limit	_{ency (MHz)} Over Limit	Detector	Table	Height	ANT	
3 2 1 0.	Frequency (MHz)		Factor (dB)	Limit (dBuV/m) (_{ency (MHz)} Over Limit (dB)		(0)	(cm)	ANT	2410 Verdid
3 2 1 0.	o- 0- 0- 2350 Frequency	Results	Factor	Limit (dBuV/m) (_{ency (MHz)} Over Limit					2410
3 2 1 0.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m) (_{ency (MHz)} Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verdid

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]	Product:			ELESS CRYS IECHANIC <i>A</i> OARD		Polarity		Н	orizontal	
	Mode	K	eeping Tra	nsmitting	Т	est Voltage	e	Ι	DC3.7V	
Te	mperature		24 deg	g. C,		Humidity		5	66% RH	
Te	est Result:		Pas	S						
CC Part 1	15C Class B 1GHz-18GHz	-2			•		•			
ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε	10	Hhipakhipaganin kasi dagahilipaka asan	M M M M M M M M M M M M M M M M M M M	1 M2	hina di kanggal dagan saya sa ka ka da aya	al-mails from the standard and standard markets.	nisi otransperson meladig	dagen e Mess i njegopanteges	ng spiritessan trades specials for free stand bundel for	de njemen byl,
3	20-									
	20-			2483.5	Frequency (MHz)					2500
	20-	Results (dBuV/m)	Factor (dB)			Detector	Table (o)	Height (cm)	ANT	2500 Verdid
1 0	20- 10- 2470 Frequency			Limit	Over	Detector Peak			ANT Horizontal	ı

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-	Product:			LESS CRYSTAL ECHANICAL ARD		etector		Ver	rtical	
	Mode	Ke	eping Tran	smitting	Test	Voltage		DC	3.7V	
Te	emperature		24 deg.	C,	Hu	ımidity		56%	6 RH	
Te	est Result:		Pass					,		
1.0E+	15C Class B 1GHz-18GHz 2- 300- 300- 400- 400- 300-		M1	M2 Interview distribution	hiderraesaphikidaelips	ecolusis telescoper pala plesco	hander sometime and the	almossik volg Mayramekyasadekinosida	pojev i d ag i izo dalakidom virg	and the Agent
2	20-									
2				2483.5 Frequency	y (MHz)					2500
2	10-	Results	Factor	Frequency	y (MHz) ver Limit	Detector	Table	Height	ANT	2500 Verdic
1	10-	Results (dBuV/m)	Factor (dB)	Limit O	- -	Detector	Table (o)	Height (cm)	ANT	
1 0	10- 2470 Frequency			Limit Or (dBuV/m) (d	ver Limit	Detector Peak			ANT Vertical	

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 2.34dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation		1.003.1.7	MDELE?	a aprion	T 750/						
Product: REDRAGON WIRELESS CRYSTAL 75% GASKET MECHANICAL KEYBOARD						Test Mo	de:	Keep transmitting DC3.7V 56% RH			
Mode Keeping Transmitting						Test Volt	age				
Temperature 24 deg. C,					Humidi	ity					
Test Result: Pass						Detecto	or	PK			
0dB Bandwidth	1.112MHz										
Ref Lvl					RBW VBW	30 k 100 k					
10 dBm	F	3W 1	.112224	145 MHz	SWT	8.5 m	ns U	nit	dBn	n	
0						V 1	[T1]	2.40200	.86 dBm	A	
-10				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NA THE STREET	nd⊦ BW V T:	[T1]	1.11222	.00 dB 445 MHz .99 dBm	: <u>0</u>	
-20				,,^	4	V _T	2 [T1]	2.40146	192 GHz .62 dBm 415 GHz	n .	
1MAX -30			V					2.40237	413 GHZ	1M	
-40	~~^										
-50								\	many		
-60									\bigvee		
-70											
-80											
-90 Center 2.	402 GH	7	<u> </u>	300	kHz/		1	Sna	ın 3 MHz	<u>.</u>	

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Product: Mode Temperature Test Result: 20dB Bandwidth	75% GASK KE Keepir	ET MECH EYBOARD	ANICAL	AL	Test Mode:						
Temperature Test Result:			REDRAGON WIRELESS CRYSTAL 75% GASKET MECHANICAL KEYBOARD					Keep transmitting			
Test Result:	-	Mode Keeping Transmitting					DC3.7V				
	2	24 deg. C,			Humidity		56% RH PK				
20dD Dandyyidth		Pass			Detector						
200B Balluwiuili	1.040MHz										
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 1.040080	00 dB	RB VB SW	BW 100 k	Hz	F Att	20 dB	ı		
0			~	<u> </u>	v₁ ndi BW	[T1]	-3 2.44100 20 1.04008	.50 dBm 902 GHz .00 dB 016 MHz	A		
-10			~	\\	V _T	T1 T1 T1 T1 T1 T1 T1 T1	-23	.59 dBm 002 GHz .63 dBm			
1MAX -30		\sqrt{f}			7		2.44155	010 GHz	1M2		
-40	~					1					
-50											
-60								V			
-70											
-90											

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GFSK Modulat	ion											
Product:	REDRAGON WIRELESS CRYSTAL 75% GASKET MECHANICAL KEYBOARD					Test Mode:		Keep transmitting				
Mode Keeping Transmitting						Test V	Voltage		DC3.7V			
Temperature	24 deg. C,					Hun	nidity		56% RH			
Test Result:	Pass					Det	tector		PK			
20dB Bandwidth	idth 0.986MHz											
Ref Lvl 10 dBm		ndB	1 [T1 r 20. 5.971943	.00 dB	V		30 kH 100 kH 8.5 ms	Ηz	F Att	20 dB	ı	
0				~			▼ ₁ ndB BW	[T1] 98	-3 2.48000 20 5.97194	.76 dBm 902 GHz .00 dB 389 kHz	A	
-10				$\overline{\mathcal{M}}$	_ \	hy	$\nabla_{\mathrm{T}_{2}}$ $\nabla_{\mathrm{T}_{2}}$	[T1]	-23 2.47952 -23 2.48051	.44 dBm 806 GHz .56 dBm		
1MAX -30							N. P. C.	<u></u>	2.10031	103 0112	1MA	
-40		$\sqrt{}$						<u> </u>				
-50									\			
-70												
-80												
-90 Center 2	10.00			300						ın 3 MHz		

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10.0 FCC ID Label

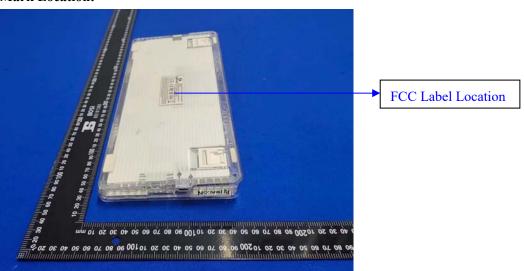
FCC ID: TUVET-8882A

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



Photographs - EUT

Please refer test report TW2306130-01E

-- End of the report--

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