

Report No.:	TW2203208-02E		
File reference No.:	2022-03-29		
Applicant:	Shenzhen SQT Electronics Co.,Ltd		
Product:	BT three-mode mechanical keyboard		
Model No.:	SK-653TM, K840T		
Trademark:	N/A		
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 long

Terry Tang

Manager

Dated:

March 29, 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, China
Telephone: (755) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission - United Sates

Registration Number: 744189

For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant:Shenzhen SQT Electronics Co.,LtdAddress:ZhengChengFeng TechnologyZone Xinsha Road, ShaYi Village, Sha jing Town, Baoan Area,<br/>Shenzhen, ChinaTelephone:0755-27568078Fax:0755-27568223

#### 1.3 Description of EUT

Product:	BT three-mode mechanical keyboard
Manufacturer:	Shenzhen SQT Electronics Co.,Ltd
Address:	ZhengChengFeng TechnologyZone Xinsha Road, ShaYi Village, Sha jing Town,
	Baoan Area, Shenzhen, China
Trademark:	N/A
Additional Trademark:	N/A
Model Number:	SK-653TM
Additional Model Name	K840T
Hardware Version:	BY901+BK3632
Software Version:	901 SQT SK-653 three modes S10.00 (2) CS8834.exe
Serial No.:	MJK840TCW21100201
Rating:	DC5.0V, 1A
Battery:	DC3.7V, 1500mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain 2.75dBi maximum (Get from the antenna specification)

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#### 1.4 Submitted Sample: 2 pc

- 1.5 Test Duration 2022-03-11 to 2022-03-29
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.
- 1.7 Test Engineer

Andy -Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

#### 2.2 Automation Test Software

For Conducted Emission Test

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

#### For Radiated Emissions

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

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adopt any other remedies which may be appropriate.



#### **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

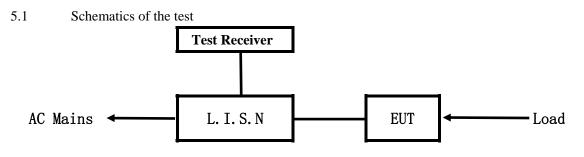
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5. Power Line Conducted Emission Test



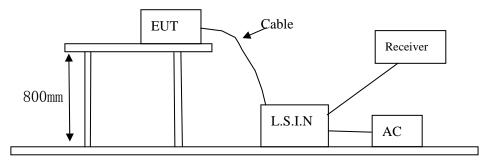
EUT: Equipment Under Test

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.	EUT
1	

Device	Manufacturer	Model	FCC ID
BT three-mode	Shanzhan SOT Electronics Co. I td	SK-653TM, K840T	WOX-SK-653TM
mechanical keyboard	Shenzhen SQT Electronics Co.,Ltd	<b>5K-0551</b> WI, <b>K</b> 6401	WUA-SK-0351W

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B. Internal Device

2.				
	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

0 01				
Frequency	Limits (d	lΒ 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

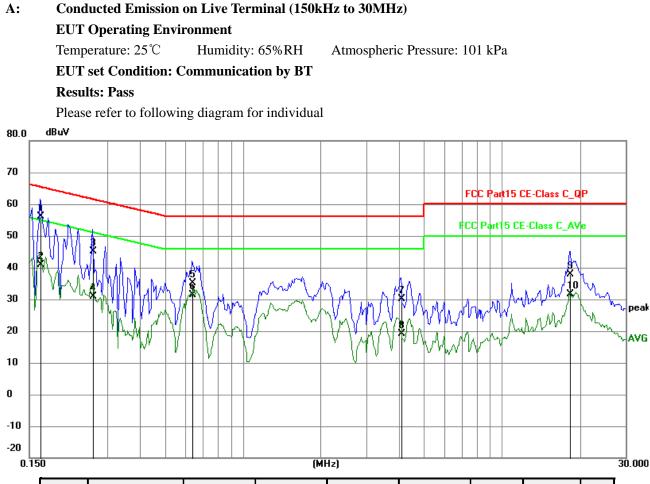
#### 5.6 Test Results:

Pass

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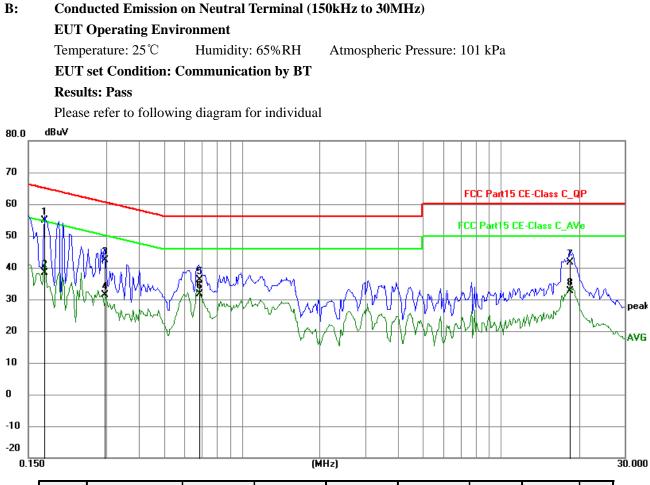


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	46.31	9.77	56.08	65.18	-9.10	QP	Р
2	0.1655	31.23	9.77	41.00	55.18	-14.18	AVG	Ρ
3	0.2631	35.26	9.75	45.01	61.33	-16.32	QP	Ρ
4	0.2631	21.06	9.75	30.81	51.33	-20.52	AVG	Ρ
5	0.6375	25.44	9.78	35.22	56.00	-20.78	QP	Ρ
6	0.6375	21.64	9.78	31.42	46.00	-14.58	AVG	Ρ
7	4.0764	20.31	9.89	30.20	56.00	-25.80	QP	Ρ
8	4.0764	9.16	9.89	19.05	46.00	-26.95	AVG	Ρ
9	18.3270	27.35	10.58	37.93	60.00	-22.07	QP	Ρ
10	18.3270	21.09	10.58	31.67	50.00	-1 <mark>8</mark> .33	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1726	45.21	9.77	54.98	64.83	-9.85	QP	Р
2	0.1726	28.67	9.77	38.44	54.83	-16.39	AVG	Р
3	0.2943	32.64	9.76	42.40	60.40	-18.00	QP	Р
4	0.2943	21.62	9.76	31.38	50.40	-19.02	AVG	Ρ
5	0.6843	26.39	9.78	36.17	56.00	-19.83	QP	Ρ
6	0.6843	21.85	9.78	31. <mark>6</mark> 3	46.00	-14.37	AVG	Р
7	18.4516	31.03	10.59	41.62	60.00	-18.38	QP	Р
8	18.45 <mark>1</mark> 6	22.15	10.59	32.74	50.00	-17.26	AVG	Ρ

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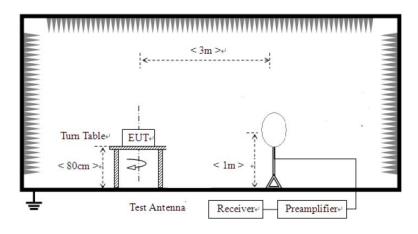


#### 6 Radiated Emission Test

- 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

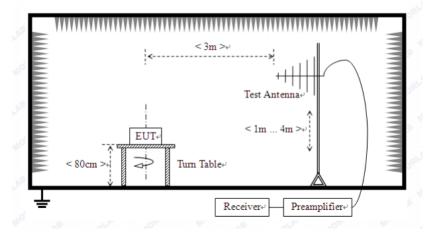


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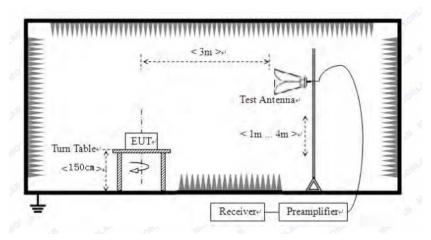
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For radiated emissions from 30MHz to1GHz



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.

		······································
Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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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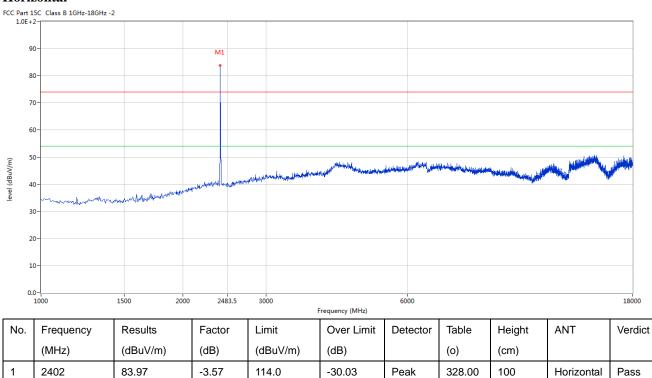
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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

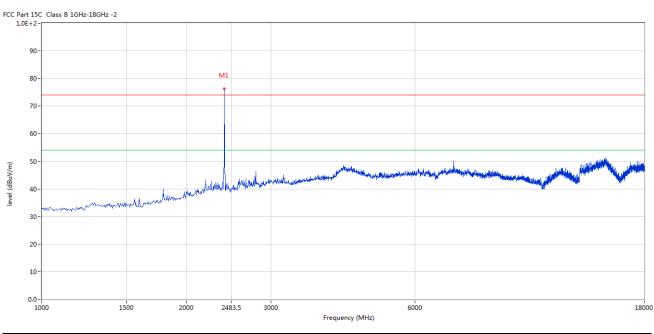


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Vertical





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	76.69	-3.57	114.0	-37.31	Peak	166.00	100	Vertical	Pass

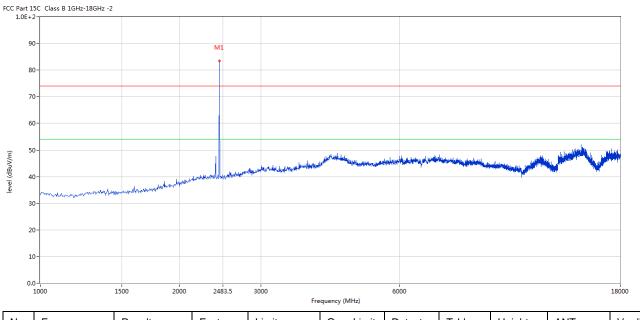
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### Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal



١	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2441	83.48	-3.57	114.0	-30.52	Peak	326.00	100	Horizontal	Pass

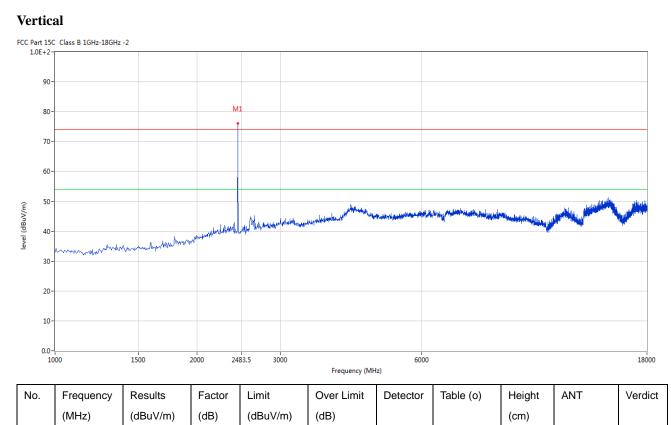
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2441

1





-37.84

Peak

185.00

100

Vertical

Pass

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

-3.57

114.0

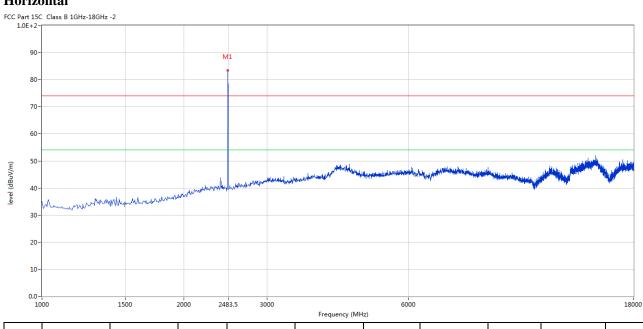
76.16

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

#### Horizontal

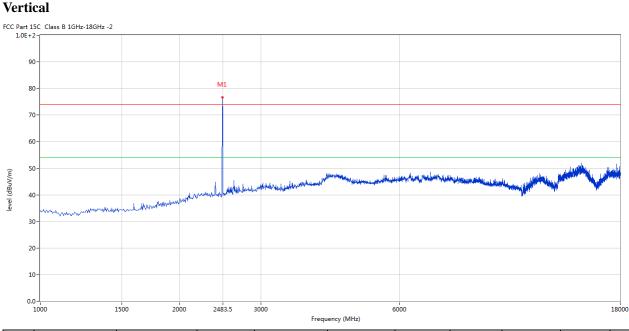


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	83.67	-3.57	114.0	-30.33	Peak	332.00	100	Horizontal	Pass

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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	2480	76.90	-3.57	114.0	-37.10	Peak	187.00	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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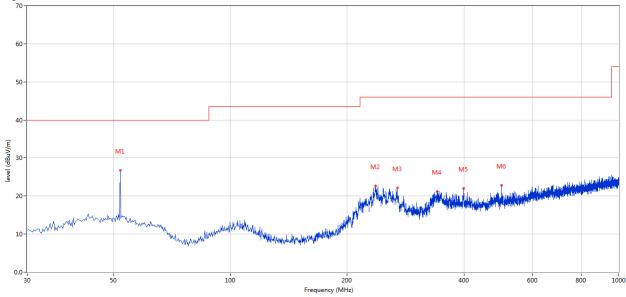
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	52.062	26.73	-11.43	40.0	-13.27	Peak	59.00	100	Horizontal	Pass
2	236.316	22.63	-12.40	46.0	-23.37	Peak	289.00	100	Horizontal	Pass
3	269.288	22.16	-11.74	46.0	-23.84	Peak	259.00	100	Horizontal	Pass
4	340.322	21.17	-9.79	46.0	-24.83	Peak	304.00	100	Horizontal	Pass
5	398.265	22.05	-8.67	46.0	-23.95	Peak	235.00	100	Horizontal	Pass
6	500.090	22.75	-6.91	46.0	-23.25	Peak	147.00	100	Horizontal	Pass

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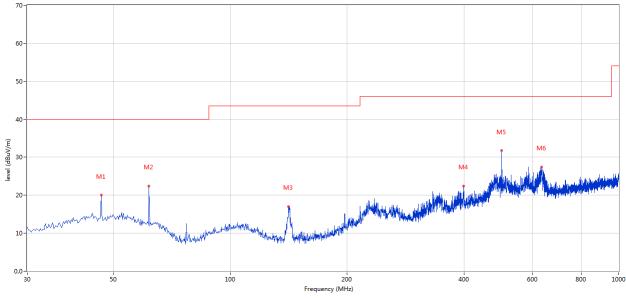
#### Radiated Emission In Vertical (30MHz----1000MHz)

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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	46.486	19.98	-11.43	40.0	-20.02	Peak	193.00	100	Vertical	Pass
2	61.760	22.44	-13.22	40.0	-17.56	Peak	203.00	100	Vertical	Pass
3	141.280	16.98	-17.27	43.5	-26.52	Peak	314.00	100	Vertical	Pass
4	398.265	22.39	-8.67	46.0	-23.61	Peak	301.00	100	Vertical	Pass
5	500.090	31.71	-6.91	46.0	-14.29	Peak	193.00	100	Vertical	Pass
6	633.189	27.36	-4.85	46.0	-18.64	Peak	329.00	100	Vertical	Pass

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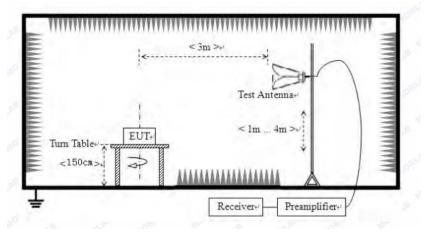


#### 7. Band Edge

#### 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

1	Product:	BT three	-mode mec	chanical keyboa	ard	Polarity		Н	orizontal	
	Mode	K	Leeping Tra	ansmitting	Т	est Voltag	e	I	DC3.7V	
Te	mperature		24 deg	g. C,		Humidity		5	56% RH	
Te	est Result:		Pas	SS						
C Part 1 1.0E+	L5C Class B 1GHz-18GHz	-2								
9	0-									_
8							A			
7	-0-						$\rightarrow$			
6	i0 -							L.		
					M3	1	•	Y		
5	i0 -									
5				iter i mere skleme	المل المراجع ومرج		V	A.		
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4		the demographic opposition active bible	on have a start of the second s	ให้สุ่มสุดเหน่าเป็นสารการให้แปรไปๆ.			V		handald ang blader, na ang blader, na ang blader, na ang ba	**
4	10 - <mark>14 Juni I. Imato, de linato, altero</mark> 10 -	de-baneyaddayeanaa, calodan sinn bid	na da an	ร์สู่ข้อสุขารสุขาร์สิทธิ์ เป็นสีของเหมือส์เหมือง			V		hadde aydddayd yn de Myner ywleify	<b>*/</b> *
4 3 2	10 - <mark>14 Juni I. Imato, de linato, altero</mark> 10 -	te som sjølferformer, en sløre som ble	ogen de son de son de la serie de de la serie de la	hikikaansineelineenaandokseessa			¥		hudde by the first and a set of the spin over the	***
4 3 2 1	00 - <mark>Ulawala, an tabar, ana</mark> 10 - 10 - 10 -	No-banajahteppensisyantakon kita	serður svilt um skold	ร์สี่ประกองการใหญ่การการเกมได้จะประประ			ý	halphallithered	hudde og til her af med en sjærer for for	<b>**</b>
4 3 2 1	10 - <mark>11 januar - Anne - Anne</mark> 10 - 10 -	No-lanojahtapinnin unistansisteksiste	serða næðarkt sem æðarkt	in the second	ency (MHz)		y			*/* 2420
4 3 2 1 0.	0 - <mark>11 - 11 - 11 - 11 - 11 - 11 - 11 - </mark>	Results	Factor	-	ency (MHz) Over Limit	Detector	Table	Height		r
4 3 2 1	0		Factor (dB)	Limit	-	Detector	Table (o)			r
4 3 2 1 0. <b>NO.</b>	0	Results		Limit (dBuV/m)	Over Limit	Detector Peak		Height		r
4 3 2 1 0.	0	Results (dBuV/m)	(dB)	Limit (dBuV/m) 74.0	Over Limit (dB)		(o)	Height (cm)	ANT	Verdic
4 3 1 0. <b>No.</b>	0	Results (dBuV/m) 83.48	(dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 9.48	Peak	(o) 335.00	Height (cm) 100	ANT Horizontal	Verdic N/A

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adopt any other remedies which may be appropriate.



	Product:	BT three	e-mode me	echanical key	board	Detecto	or	Ĭ	/ertical	
	Mode		Keeping Tr	ransmitting		Test Volt	age	Γ	C3.7V	
Te	emperature		24 de	eg. C,		Humidi	ty	5	6% RH	
Τe	est Result:		Pa	iss						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
9	90 -									
8	30 -									
							m			
7	70-									
6	50 -							L.		
					M3		N2	N. Contraction of the second s		
5	50-				. J. 11.	a hua hika da ana a		1		
5			an di kalan kalan kalan kalin ka	المراد المراجع المالي المالي وهاد				- Contradiction of the second	al bli di na mana a sha bi	huthan
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- 4 3 2	10 - <mark></mark>	ndarstählikkonstaarstooristelikelik	alifelden forsken hersteller	بالهويها المراجع	and a second		*		of bolighted and a second sub-	Hill, Joseph e
. 4 3 2 1	10 - <b></b>	mlarsiilihpenkaassassistelikihp	urigifi dan faraka kutu da kutu	olane, skiele, skiele, kerste afste skiele			*		(Shiphladapenaniany add	that the stars
4 3 2 1	10	ndarseithefunskingesteinen methodenen	arigitelike, beidesskile, beidelse		requency (MHz)		**************************************	Waterweiten	slikklalgensonageski	2420
- 4 3 2 1	10 - <b></b>	Results	Factor			Detector	Table	Height	ANT	
- 4 3 2 1	10 - <b>10 - 10 - 10 - 10 - 10 - 10 - 10 -</b>			Fr	requency (MHz)	Detector	Table (o)		1 	
4 3 2 1 0. NO.	10	Results	Factor	Fr Limit	requency (MHz)	Detector Peak		Height	1 	
4 3 2 1 0. No.	10	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	requency (MHz) Over Limit (dB)		(0)	Height (cm)	ANT	Verdic
4 3 2 1	10	Results (dBuV/m) 76.28	Factor (dB) -3.57	Fr Limit (dBuV/m) 74.0	requency (MHz) Over Limit (dB) 2.28	Peak	(o) 144.00	Height (cm) 100	ANT	Verdic N/A

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	Product:	BT	three-mo	de mechani	cal keyboard	Pe	Polarity		Horizontal			
	Mode		Keep	oing Transm	itting	ng Test Voltage			DC3.7V			
	Temperature 24 deg. C,					Hu	umidity		56% RH			
	Test Result:			Pass								
CC Part 1.0E	15C Class B 1GHz-18GHz +2-	z -2				•		•				
9	90 -											
:	80 -		JM	prove the								
	70-											
	50 -			- N								
	50-		WW.		The second se							
	50- 40-	hanshelikind og stanska kan bader			A A A A A A A A A A A A A A A A A A A	nay losi (an Alland In sis ala	de falsadest tisk a de affres visit als de arress	di di salara		Andrathalisman		
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	40	hersettinder the friene and he				uglaren Andrando	le sheakatel e kalenma akamia	disto.natharth_bathleethi	ndhah,reenda.annaranafaa	frigetinismen		
	40 - Junistry Burger, Malandria Ala 30	herspielinder ein Printer an an bei				nglaren Angleren Ang	de Skalada Belevil et Skalan med a kasem bi	di di na kurik dan terdis	n feldelik sonn felden sen felden sekter	Jaintislaman		
	40 - <mark>Ludamullaan Aniral Anira</mark> 30 - 20 -	hang belge dig stan general belge			2483.5 Frequency (MHz		le sheaketel e k eferense a keense	disko.nakarda batherekis		2500		
	40 - Junio Martine Junio Andre	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500		
	40 - Julian Prilane Andrea Andre		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz	2)				2500		
	40	Results			2483.5 Frequency (MHz Over Limit	2)		Height				

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adopt any other remedies which may be appropriate.



]	Product:	BT three	BT three-mode mechanical keyboard					Vertical			
	Mode		Keeping T	ransmitting		Test Volta	nge	DC3.7V			
Te	mperature		24 de	eg. C,		Humidit	y	56% RH			
Τe	est Result:		Pass								
1.0E+ 9 8	15C Class B 1GHz-18GHz -	2	Martin								
(40,000) (40	io - 	halfairea bireain sebak a an ad a she		Million M2	ulaushishidhummatahi	haifudian quatra dhado dha da	li il decidentation	usell de alle de la civil	undeksender i Anderense	Long Nation	
(m / 5 (m / ngp) 4 3 2 1 0.	10 - Alef Ali Ali Ali Ali Ali Ali Ali Ali	hold specific and a start of the start of th		2483.5	zquency (MHz)	shalladar qualte de	li i kalendar i kalendar i ka	uterthilde and have a stand	an fals and a state of the stat	2500	
(m / 5 (m / ngp) 4 3 2 1 0.	50 - 10 - 14 Inf all 14 Uhr Information 10 - 10 - 10 - 10 -	Results	Factor	2483.5		Detector	Table	Height	ANT	Г	
(@//\] (@//\]	0		Factor (dB)	2483.5 Fre	zquency (MHz)					r	
(@//\] (@//\]	0 10 10 10 10 10 10 10 10 10 1	Results		2483.5 Fre Limit	equency (MHz)		Table	Height		2500 Verdic	

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 2.75dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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<b>FSK Modulation</b>	l									
Product: Mode	Test Mod Test Volta		Keep transmitting DC3.7V							
Temperature		eping Trans 24 deg. (			Humidit		56% RH PK			
Test Result:		Pass			Detecto					
20dB Bandwidth	985.97kF	Iz								
Ref Lvl 10 dBm	Marker 1 [T1 ndB] RBW ndB 20.00 dB VBW BW 985.97194389 kHz SWT				30 kI 100 kI 8.5 mi	Hz			n	
10			1		<b>v</b> 1	[T1]	-:	2.06 dBm 9098 GHz	A	
-10				Long Long	ndB BW ⊽ <sub>T1</sub>	98 [T1]	20 35.97194 -23	1.98 dBm		
-20		T	v			[T1]	2.4015 -2: 2.40249	1002 GHz 2.04 dBm 9599 GHz	1	
<b>1MAX</b>		$\bigwedge$			<u> </u>	<b>\</b>			1M2	
-40						hy ,	<u> </u>			
-50						V		$\wedge$		
-60										
-70										
-80										
-90 Center 2.	402 GHz		300	kHz/			Spa	an 3 MHz	<b>]]</b>	

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adopt any other remedies which may be appropriate.

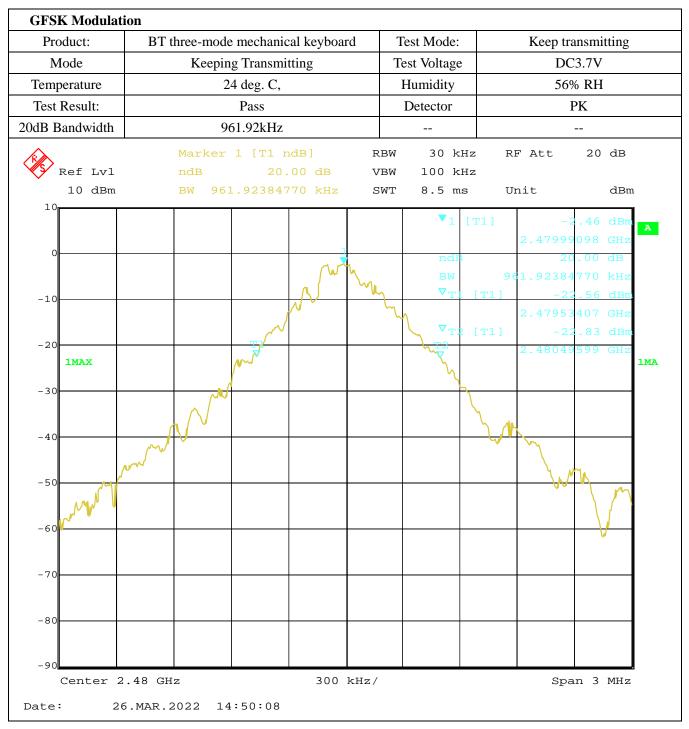


Product:	BT three-mode mechanical keyboard					Test Mode:		Keep transmitting				
Mode	k	Leeping	Transmi	tting		Test Vol	tage	DC3.7V				
Temperature		24	deg. C,			Humidity Detector		56% RH PK				
Test Result:			Pass									
0dB Bandwidth	937.88kHz											
	Ma	rker 1	l [T1 r	dB]	RB	SW 30	) kHz	RF	Att	20	dB	
Ref Lvl	ndl			00 dB	VB		) kHz					
10 dBm	BW	937	.875751	50 kHz	SW	T 8.5	5 ms	Un	it		dBm	
10							<b>1</b> [T	1]	-2	.09	dBm	A
				1				:	2.44099	098		
0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		ndB		20		dB	
					m		BW סידי ני	93' F11	7.87575		kHz dBm	
-10					1	1.			2.44052	204		
							▼ <sub>T2 [</sub>	F1]	-22	.05		
-20			7					:	2.44145	992	GHz	
1MAX			$\mathcal{J}$				Y				1	1MA
-30	~~~	$\int \mathcal{O}$					ľ,	$\mathbf{r}$				
-40	and a loss									$\sim$		
-50									4	J		
-60											_	
-70												
-80												
-90 Center 2	.441 GHz		300 kHz/						Span 3 MHz			

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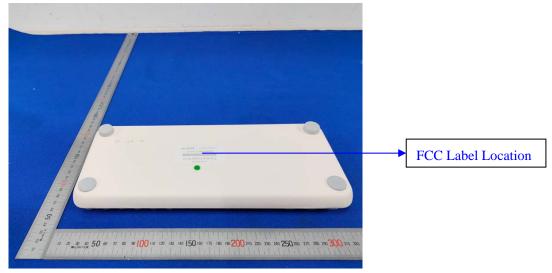
#### 10.0 FCC ID Label

#### FCC ID: WOX-SK-653TM

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--

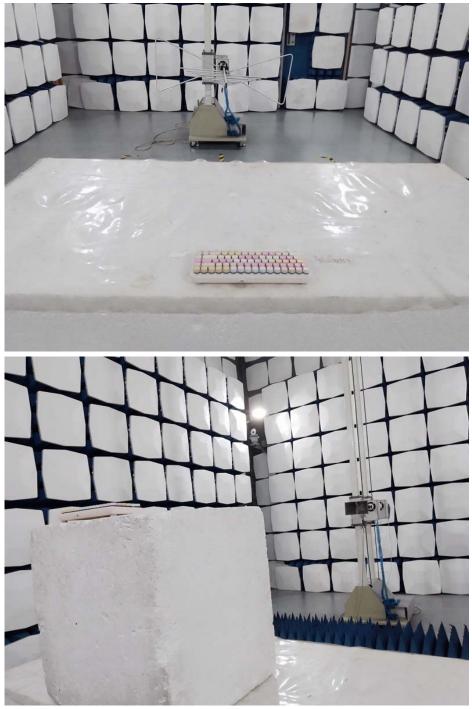


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Radiated emission test view



#### **Photographs – EUT**

Please refer test report TW2203208-01E

#### --End of the report--

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