

# **TEST REPORT**

FCC ID: 2ALQT-KB600

Product: Wireless Keyboard
Model No.: KB600 Wireless
Additional Model: SF09-02W-V4

Trade Mark: Sterile FLAT

Report No.: TCT170330E012

Issued Date: Apr. 07, 2017

Issued for:

Sterileflat AMK Ltd

Rainbow House 45 Madingley, Bracknell, Berkshire, RG12 7TF, UK

Issued By:

**Shenzhen Tongce Testing Lab.** 

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# 1. Test Certification

Product:	Wireless Keyboard
Model No.:	KB600 Wireless
Additional Model:	SF09-02W-V4
Applicant:	Sterileflat AMK Ltd
Address:	Rainbow House 45 Madingley, Bracknell, Berkshire, RG12 7TF, UK
Manufacturer:	Shenzhen Bigatech Co., Ltd
Address:	No.25, Gangzai Industry park, Furong Industry Zone,Xinqiao, Shajing Town, Baoan, District, Shenzhen
Date of Test:	Mar. 31 – Apr. 06, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Reviewed By:

Joe Zhou

Date: Apr. 06, 2016

Apr. 07, 2016

Approved By: Date: Apr. 07, 2016

Tomsin



# 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

#### Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





# 3. EUT Description

Product Name:	Wireless Keyboard
Model:	KB600 Wireless
Additional Model:	SF09-02W-V4
Trade Mark:	Sterile FLAT° Anibacterial Keyboard
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2408-2474MHz
Number of Channel:	34
Modulation Technology:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	-0.61dBi
Power Supply:	DC 3V(2 pcs AA Batteries)
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

**Operation Frequency Each of Channel** 

	7				<u>'X</u>		'2 🔾
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
<u> </u>	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz		
5	2418 MHz	15	2438 MHz	25	2458 MHz		((C))
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		
8	2424 MHz	18	2444 MHz	28	2464 MHz		(,ć)
9	2426 MHz	19	2446 MHz	29	2466 MHz		

#### Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz



# 4. Genera Information

#### 4.1. Test Environment and Mode

Operating Environment:								
Temperature:	25.0 °C							
Humidity:	54 % RH							
Atmospheric Pressure:	1010 mbar							
Test Mode:								
Engineering mode:	Keep the EUT in continuous transmitting by select channel							

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

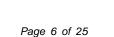
# 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1 (6)	1 6	) /	(6) 1	

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





### 5. Facilities and Accreditations

#### 5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

#### 5.2.Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

# 5.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item		MU
1	Conducted Emission		±2.56dB
2	RF power, conducted	(0)	±0.12dB
3	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1GHz)	±3.92dB	
5	All emissions, radiated(>1GHz)	±4.28dB	
6	Temperature		±0.1°C
7	Humidity		±1.0%



### 6. Test Results and Measurement Data

# 6.1. Antenna Requirement

Standard requirement: F

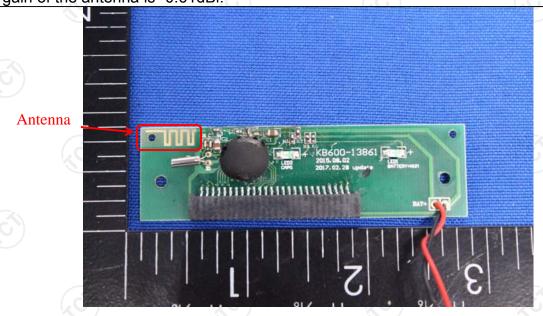
FCC Part15 C Section 15.203

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **E.U.T Antenna:**

The EUT antenna is an PCB antenna which permanently attached, and the best case gain of the antenna is -0.61dBi.



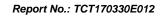




# **6.2. Conducted Emission**

# 6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	AC.				
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	CÍ)	$(c^{i})$				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto				
	Frequency range	Limit (	dBuV)				
	(MHz)	Quasi-peak	Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
Lillius.	0.5-5	56	46				
	5-30	60	50				
	Refere	nce Plane					
Test Setup:	AUX Equipment E.U.T  Test table/Insulation plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Transmitting mode with	Transmitting mode with modulation					
Test Procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li> </ol>						
Test Result:	The EUT is supplied by 3V from AA battery, so Conducted Emission is not applicable.						





# **6.3. Radiated Emission Measurement**

# 6.3.1. Test Specification

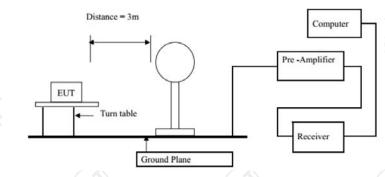
Test Requirement:	FCC Part15 C Section 15.209/ Part 2 J Section 2.1053					
Test Method:	ANSI C63.10:2013					
Frequency Range:	9 kHz to 25 GHz			(5)		
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	& Vertical				
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120kHz 1MHz 1MHz	300kHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value	
Limit(Field strength of the fundamental signal):	Freque 2400MHz-24	0 )	Limit (dBuV/m @3m) 94.00 114.00		Remark Average Value Peak Value	
Limit(Spurious Emissions):	216MHz-960MHz 960MHz-1GHz		Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0 54.0		Remark Quasi-peak Value Average Value	
Limit (band edge) :	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,					
Test Procedure:	<ol> <li>whichever is the lesser attenuation.</li> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and</li> </ol>					



vertical polarizations of the antenna are set to make the measurement.

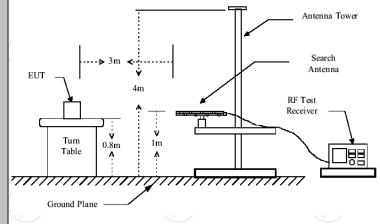
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### For radiated emissions below 30MHz



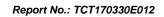
#### 30MHz to 1GHz

#### Test setup:

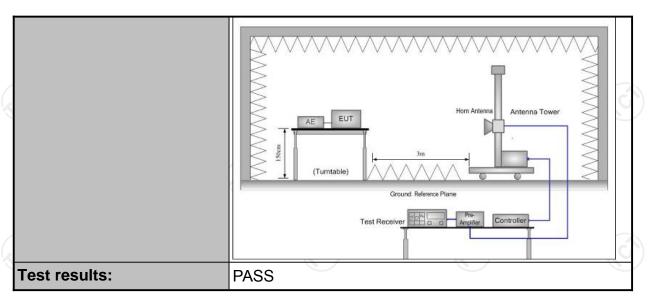


#### Above 1GHz

(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)







### 6.3.2. Test Instruments

ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable	TCT	RE-low-01	N/A	Aug. 11, 2017
Coax cable	тст	RE-high-02	N/A	Aug. 11, 2017
Coax cable	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable	тст	RE-high-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



#### 6.3.3. Test Data

#### **Field Strength of Fundamental**

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2408	73.92	Н	114	-40.08
2408	64.26	V	114	-49.74
2440	73.47	Н	114	-40.53
2440	65.89	V	114	-48.11
2474	71.92	(C)H	114	-42.08
2474	64.11	V	114	-49.89

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2408	71.21	Н	94	-22.79
2408	61.56	(c)V	94	-32.44
2440	71.15	Н	94	-22.85
2440	63.52	V	94	-30.48
2474	69.33	н 🌾	94	-24.67
2474	61.36	V	94	-32.64

### **Spurious Emissions**

### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(C) <del>)</del> -	(C) (C)	-(, C)
<u> </u>		
- (A)	(=0)	- C

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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#### Frequency Range (30MHz-1GHz)

# Horizontal:



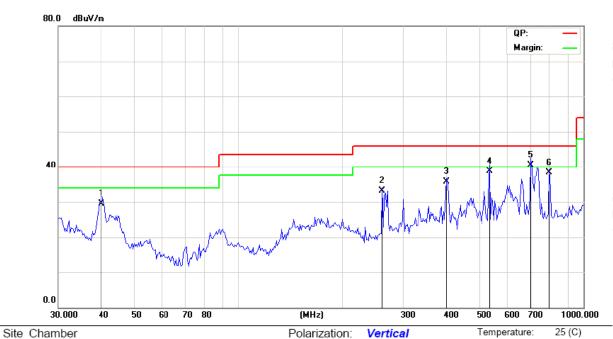
Site Chamber Polarization: Horizontal Temperature: 25 (C)
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
_			MHz	dBu∀	dB	dBu∀/m	dBu∀/m	dB	Detector	Comment	
_	1		40.0172	31.65	-13.99	17.66	40.00	-22.34	QP		
_	2		166.6382	41.57	-17.36	24.21	43.50	-19.29	QP		
_	3		200.0432	49.53	-15.37	34.16	43.50	-9.34	QP		
\ \	4	*	266.8394	55.01	-13.07	41.94	46.00	-4.06	QP		
_	5		401.1050	50.10	-10.56	39.54	46.00	-6.46	QP		
-	6	İ	703.7314	47.64	-7.02	40.62	46.00	-5.38	QP		





#### Vertical:



Limit: FCC Class B 3M Radiation

Polarization: **Vertical**Power: AC 120V/60Hz

Humidity: 55 %

Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dB MHz dBuV dBuV/m dBuV/m dΒ Detector Comment 1 40.0173 43.49 -13.99 29.50 40.00 -10.50 QΡ 2 QP 261.2730 46.41 -13.26 33.15 46.00 -12.85 3 401.1050 46.31 -10.56 35.75 46.00 -10.25 QP 4 535.0375 47.42 -8.70 38.72 46.00 -7.28 QΡ 47.55 5 703.7314 -7.02 40.53 46.00 -5.47 QP 798.6204 43.64 -5.43 38.21 46.00 -7.79 QP 6

**Note:** Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.





#### **Above 1GHz**

	Low channel: 2408MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
2387.50	H	46.38		-4.2	42.18		74.00	54.00	-11.82	
4816.00	Н	49.71		-3.94	45.77		74.00	54.00	-8.23	
7224.00	Н	42.52		0.52	43.04		74.00	54.00	-10.96	
					/	7				
2387.50	V	44.27	-420	-4.2	40.07	(C)-)-	74.00	54.00	-13.93	
4816.00	V	47.64		-3.94	43.7	<u></u>	74.00	54.00	-10.3	
7224.00	V	40.66		0.52	41.18		74.00	54.00	-12.82	

			N	liddle chann	nel: 2440M	Hz				
Eroguopov	Ant Dol	Peak	AV	Correction	Emissio	n Level	Peak limit	AV limit	Margin	
Frequency (MHz)		H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	Margin (dB)
(1011 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ασμν/ιιι)	(ασμν/ιιι)	(ub)	
4880.00	H	50.42	-f.ć	-3.98	46.44	<u> </u>	74.00	54.00	-7.56	
7320.00	Н	43.60		0.57	44.17	<u></u>	74.00	54.00	-9.83	
<b></b>					X					
( )		$(C_{i}, C_{i})$			(``(		( <sub>2</sub> C)			
4880.00	V	48.57		-3.98	44.59		74.00	54.00	-9.41	
7320.00	V	43.05		0.57	43.62		74.00	54.00	-10.38	
	4-			\	/	<u></u> -		<i></i>		
	χ <u>υ</u>		-140	)		<u> </u>				

	High channel: 2474MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
2486.58	Н	45.48		-2.38	41.28		74.00	54.00	-12.72	
4948.00	Н	48.22		-3.98	44.28		74.00	54.00	-9.72	
7422.00	Н	42.19		0.57	42.71		74.00	54.00	-11.29	
(	24		- <del>-</del>			<del></del>		<del>[</del> c]		
					,					
2483.51	٧	46.05		-2.38	41.85		74.00	54.00	-12.15	
4948.00	V	47.69		-3.98	43.75		74.00	54.00	-10.25	
7422.00	V	41.34		0.57	41.86		74.00	54.00	-12.14	
G )}		( <del>,C</del> ))		(, (	<u>い)</u>		(, <del>C,</del> `)		{ <sub>Z</sub> C <sub>1</sub>	

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2.  $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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#### **Band Edge Requirement**

Low chann	ow channel: 2408 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
2400	Н	61.35	/	-4.2	57.15		74		-16.85	
2400	Н		50.81	-4.2		46.61		54	-7.39	
2400	V	59.47	(.	-4.2	55.27		74	(.6)	-18.73	
2400	V		48.66	-4.2		44.46		54	-9.54	

High chann	nel: 2474N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	H	56.71	/	-4.2	52.51	(-4)	74		-21.49
2483.5	(A)		45.32	-4.2		41.12		54	-12.88
			``	<u> </u>					
2483.5	V	54.98		-4.2	50.78		74		-8.04
2483.5	V	+	43.58	-4.2		39.38	<b>/</b>	54	-14.62
<u> </u>		-4	/	'	-/-		( <del>4</del> )		🖔

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2.  $Margin (dB) = Emission Level (Peak/Average)(dB\mu V/m)-(Peak/Average) limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







# 6.4.20dB Occupied Bandwidth

# 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049				
Test Method:	ANSI C63.10: 2013				
Limit:	N/A				
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement.         Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth;         VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.     </li> <li>Measure and record the results in the test report.</li> </ol>				
Test setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test results:	ASS				

### 6.4.2. Test Instruments

RF Test Room								
Equipment Manufacturer Model Serial Number Calibration Due								
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017				

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



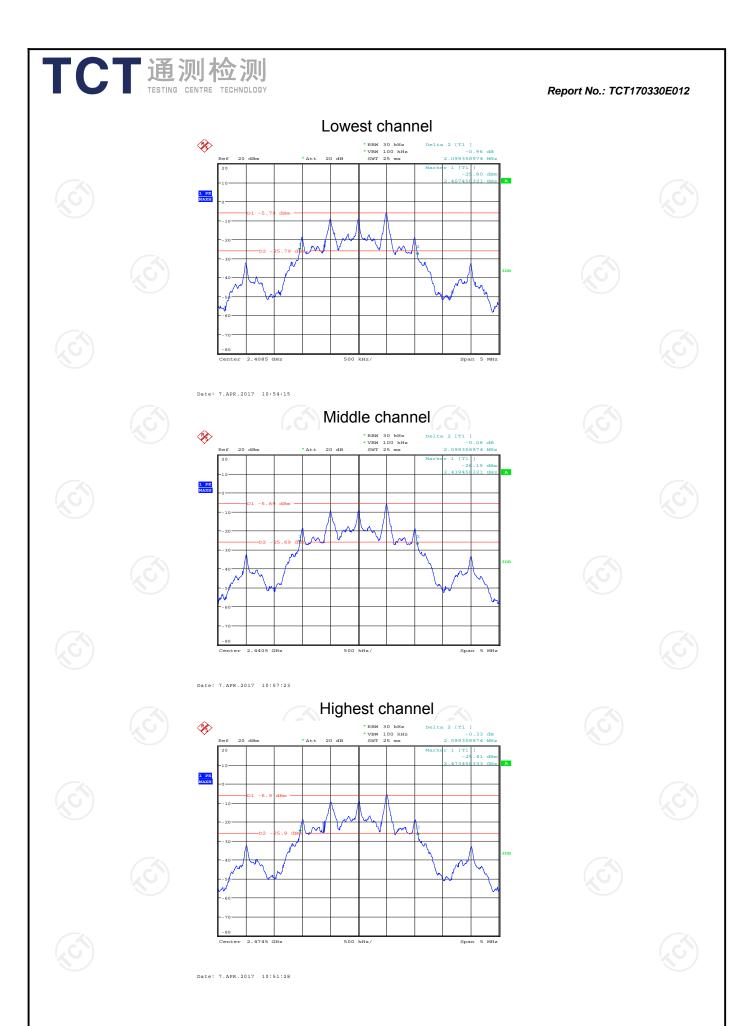


### 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion	
Lowest	2099.36	(8)	PASS	
Middle	2099.36		PASS	
Highest	2099.36	(E)	PASS	

## Test plots as follows:

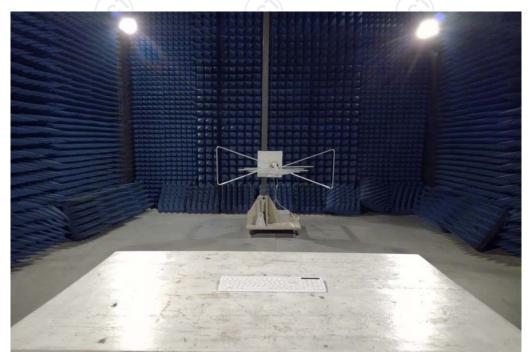


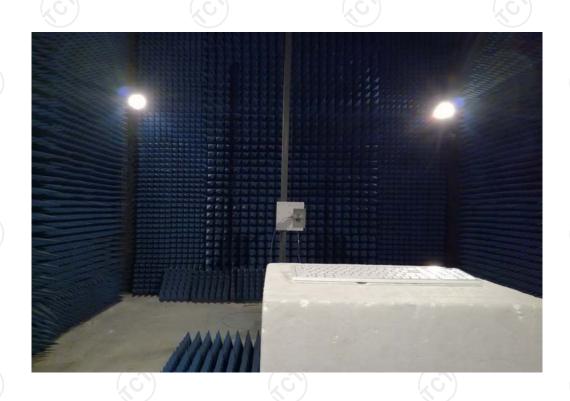




# Appendix A: Photographs of Test Setup Product: Wireless Keyboard

Product: Wireless Keyboard Model: KB600 Wireless Radiated Emission







Appendix B: Photographs of EUT Product: Wireless Keyboard Model: KB600 Wireless External Photos













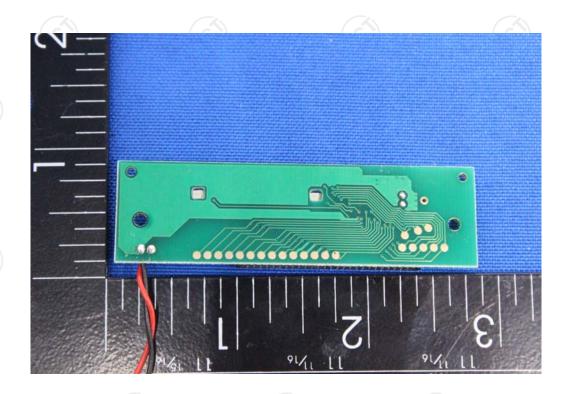
# Model: KB600 Wireless Internal Photos











\*\*\*\*\*END OF REPORT\*\*\*\*

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