RF TEST REPORT



Report No.: 16070790-FCC-R

A 11 -			
Applicant	SHENZHEN KINGSUN ENTERPRISES Co.,Ltd.		
Product Name	Bluetooth keyboard		
Model No.	DC-0332		
Serial No.	DC-0331,DC-0342		
Test Standard	FCC Part 15.247: 2018	5, ANSI C63.10: 20 [°]	13
Test Date	July 05 to 19, 2016		
Issue Date	July 20, 2016		
Test Result	Pass Fail		
Equipment compl	ed with the specificatior	ו ר	
Equipment did no	t comply with the specifi	cation	
Loven	LUO David	Huang	
Loren Lu	lo Dav	vid Huang	
Test Engi		ecked By	
	This test report may	be reproduced in fu	ll only
Test result p	resented in this test repo	ort is applicable to t	he tested sample only

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Country/Region	Scope	
USA	EMC, RF/Wireless, SAR, Telecom	
Canada	EMC, RF/Wireless, SAR, Telecom	
Taiwan	EMC, RF, Telecom, SAR, Safety	
Hong Kong	RF/Wireless, SAR, Telecom	
Australia	EMC, RF, Telecom, SAR, Safety	
Korea	EMI, EMS, RF, SAR, Telecom, Safety	
Japan	EMI, RF/Wireless, SAR, Telecom	
Singapore	EMC, RF, SAR, Telecom	
Europe EMC, RF, SAR, Telecom, Safety		

Accreditations for Conformity Assessment



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070790-FCC-R	NONE	Original	July 20, 2016

2. Customer information

Applicant Name	SHENZHEN KINGSUN ENTERPRISES Co.,Ltd.
Applicant Add	25F, CEC information Building, Xinwen Road, Futian District, Shenzhen,
	Guangdong, P.R.China
Manufacturer	SHENZHEN KINGSUN ENTERPRISES Co.,Ltd.
Manufacturer Add	25F, CEC information Building, Xinwen Road, Futian District, Shenzhen,
	Guangdong, P.R.China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong
	China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0



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4. Equipment under Test (EUT) Information

Description of EUT:	Bluetooth keyboard
Main Model:	DC-0332
Serial Model:	DC-0331,DC-0342
Date EUT received:	July 05, 2016
Test Date(s):	July 05 to 19, 2016
Equipment Category :	DSS
Antenna Gain:	0dBi
Antenna Type:	PCB antenna
Type of Modulation:	GFSK
RF Operating Frequency (ies):	2402-2480 MHz
Max. Output Power:	1.801dBm
Number of Channels:	79CH
Port:	N/A
Input Power:	Spec:3V DC, 2.3mA,370uA(max)
Trade Name :	N/A
FCC ID:	2AAPKDC-03320331



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247(a)(1)	Channel Separation	Compliance
§15.247(a)(1)	20 dB Bandwidth	Compliance
§15.247(b)(1)	Peak Output Power	Compliance
§15.247(a)(1)(iii)	Number of Hopping Channel	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(d)	Band Edge	Compliance
§15.207(a)	AC Line Conducted Emissions	N/A
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.

b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna:

A permanently attached PCB antenna for Bluetooth, the gain is 0dBi for Bluetooth.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 Channel Separation

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 13, 2016
Tested By :	Loren Luo

Spec	Item	Item Requirement Applicable	
§ 15.247(a)(1) a)		Channel Separation < 20dB BW and 20dB BW < 25KHz ; Channel Separation Limit=25KHz	۷
		Chanel Separation < 20dB BW and 20dB BW > 25kHz ; Channel Separation Limit=2/3 20dB BW	_
Test Setup			
Test Procedure	 The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: The EUT must have its hopping function enabled Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent 		
	channels. The limit is specified in one of the subparagraphs of Section. Submit this plot.		

		Test Report Page	16070790-FCC-R 10 of 44	
Rema		LAR PLA		
Resul	lt	Pass	Fail	
Test Data	Yes	;	□ _{N/A}	
Test Plot	Ye:	s (See below)	□ _{N/A}	

Channel Separation measurement result

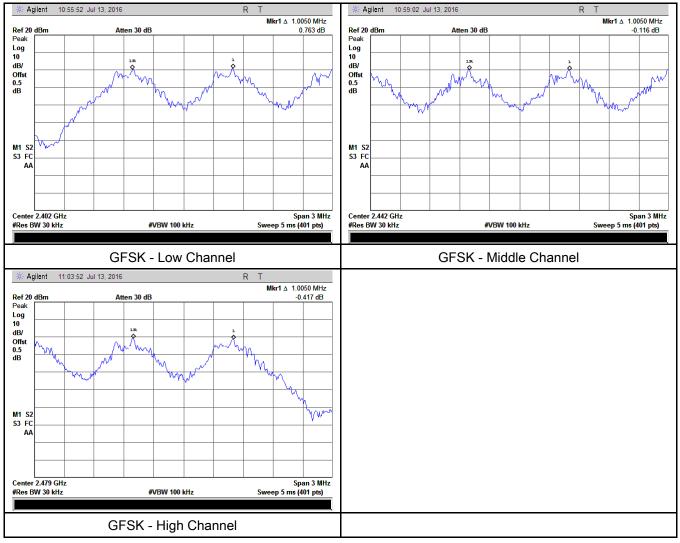
Type/ Modulation	СН	CH Freq (MHz)	CH Separation (MHz)	Limit (MHz)	Result
	Low Channel	2402	1.005	0.9567	Dooo
	Adjacency Channel	2403	1.005	0.9507	Pass
	Mid Channel	2440	1.005	0.0466	Daga
CH Separation GFSK	Adjacency Channel	2441	1.005	0.9466	Pass
Gron	High Channel	2480			
	Adjacency Channel	2479	1.005	0.9448	Pass
	Adjacency Channel	2479			



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6.3 20dB Bandwidth

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 13, 2016
Tested By :	Loren Luo

Spec	Item	Item Requirement Applicable	
§15.247(a) (1)	a) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.		
Test Setup			
Test Procedure	 The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: 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. The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker 		
to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the mar delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the refer			e marker- he



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marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Remark		
Result	Pass	Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Measurement result

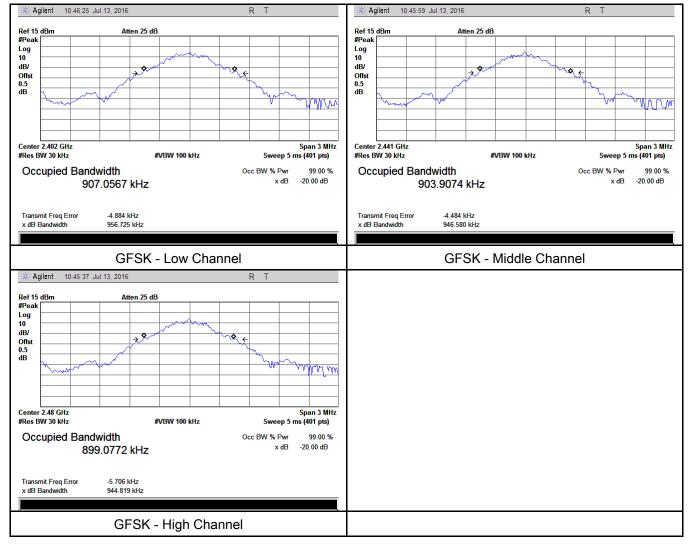
Modulation	СН	CH Freq (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
	Low	2402	0.9567	0.9071
GFSK	Mid	2441	0.9466	0.9039
	High	2480	0.9448	0.8991



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20dB Bandwidth measurement result





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6.4 Peak Output Power

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 13, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable	
	a)	a) FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt		
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt		
§15.247(b)	c)	For all other FHSS in the 2400-2483.5MHz band: \leq 0.125 Watt.	K	
(3)	d)	FHSS in 902-928MHz with \geq 50 channels: \leq 1 Watt		
	e)	FHSS in 902-928MHz with \geq 25 & <50 channels: \leq 0.25 Watt		
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt		
Test Setup				
	The te	The test follows FCC Public Notice DA 00-705 Measurement Guidelines.		
	Use the following spectrum analyzer settings:			
	 Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel 			
Test	 RBW > the 20 dB bandwidth of the emission being measured 			
Procedure	- VBW ≥ RBW			
	- Sweep = auto			
	- Detector function = peak			
	-	Trace = max hold		
	- Allow the trace to stabilize.			

1				
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	 Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power (see the not above regarding external attenuation and cable loss). The limit is specified in one of the subparagraphs of this Section. Submit this plot. A peak responding power meter may be used instead of a 			
		spectrum an	alyzer.	
Remark				
Result	Pass Fail			
		_	_	
Test Data	۲	ſes	N/A	
Test Plot	₽ _Y	es (See below)	N/A	

Peak Output Power measurement result

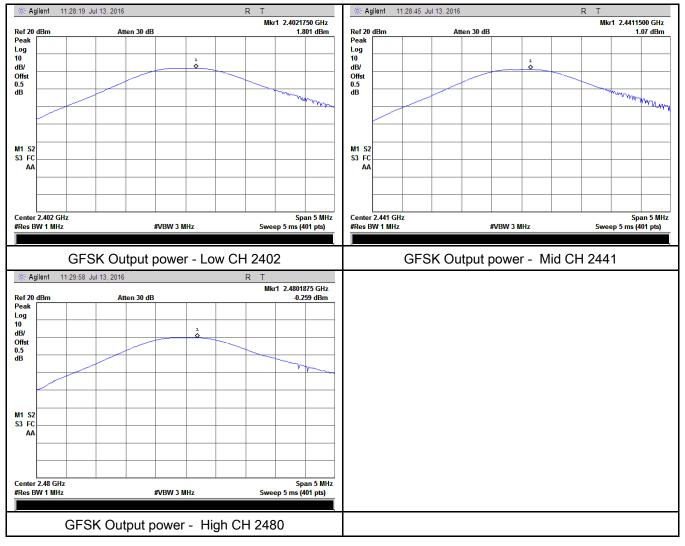
Туре	Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power		Low	2402	1.801	1000	Pass
	GFSK	Mid	2441	1.070	1000	Pass
		High	2480	-0.259	1000	Pass



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Output Power measurement result





6.5 Number of Hopping Channel

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 13, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz \geq 15 channels	٢
Test Setup			
Test Procedure	<u>Use the</u> The EU - - - - - - - - - - -	st follows FCC Public Notice DA 00-705 Measurement Gu <u>e following spectrum analyzer settings:</u> JT must have its hopping function enabled. Span = the frequency band of operation RBW ≥ 1% of the span VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow trace to fully stabilize. It may prove necessary to break the span up to sections, clearly show all of the hopping frequencies. The limit is sp one of the subparagraphs of this Section. Submit this plot	in order to becified in
Remark	_		
Result	🗹 Pas	s Fail	
	Yes Yes (See	e below)	



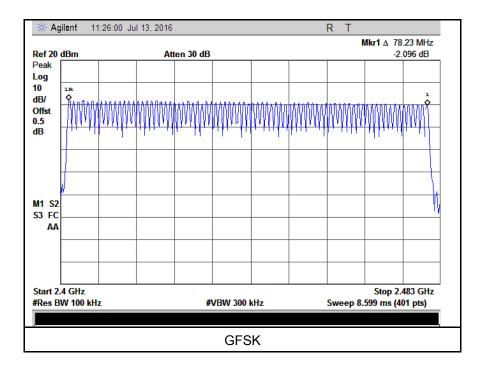
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Number of Hopping Channel measurement result

Туре	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of Hopping Channel	GFSK	2400-2483.5	79	15

Test Plots

Number of Hopping Channels measurement result





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6.6 Time of Occupancy (Dwell Time)

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	July 13, 2016
Tested By :	Loren Luo

Spec	Item	Requirement Applicable				
§15.247(a) (1)(iii)	a)	a) Dwell Time < 0.4s				
Test Setup						
	The te	st follows FCC Public Notice DA 00-705 Measurement G	Guidelines.			
	<u>Use th</u>	e following spectrum analyzer				
	-	- Span = zero span, centered on a hopping channel				
	-	RBW = 1 MHz				
Test	-	VBW ≥ RBW				
Procedure	- Sweep = as necessary to capture the entire dwell time per hopping					
	channel					
- Detector function =		Detector function = peak				
	- Trace = max hold					
	- use the marker-delta function to determine the dwell tin		e			
Remark						
Result	Pass Fail					
Test Data	Yes	□ _{N/A}				
Test Plot	Yes (See below)					



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Dwell Time measurement result

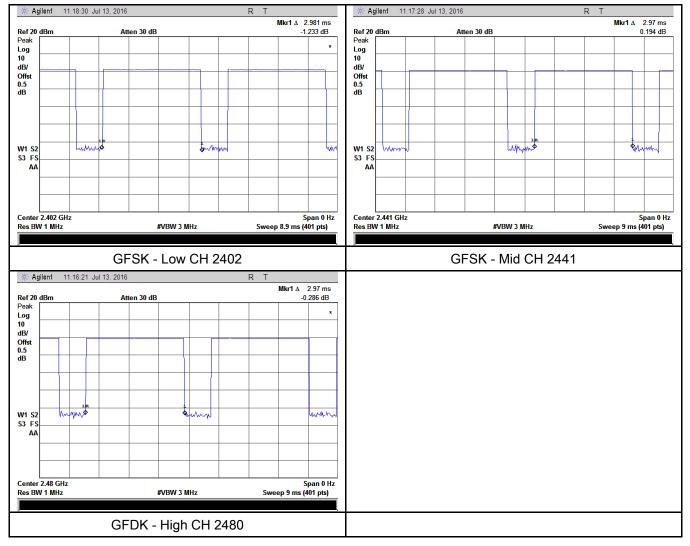
Туре	Modulation	СН	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
		Low	2.981	317.973	400	Pass
Dwell Time	GFSK	Mid	2.970	316.800	400	Pass
		High	2.970	316.800	400	Pass
	Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6					



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Dwell Time measurement result





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6.7 Band Edge

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	July 16, 2016
Tested By :	Loren Luo

Spec	Item	Item Requirement Applicable			
§15.247(a) (1)(iii)	a)	Y			
Test Setup	Peak conducted power limits.				
Test Procedure	Radiate - -	Guidelines. r an internal ent. Put it on ansmitting perating range,			

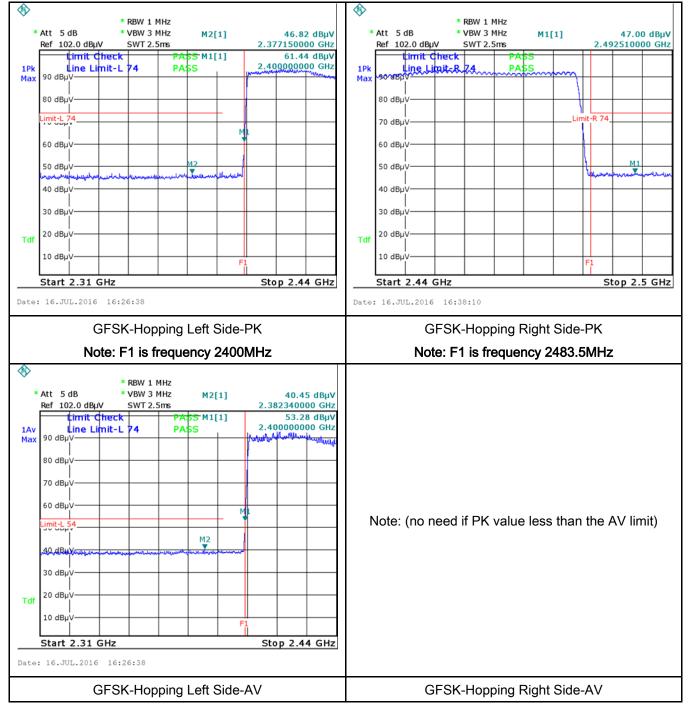
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and make sure	the instrument i	s operated in its linear range.	
- 3. First, set bot	h RBW and VBV	N of spectrum analyzer to 100 kHz with a	
convenient freq	uency span incl	uding 100kHz bandwidth from band edge, check	
the emission of	EUT, if pass the	en set Spectrum Analyzer as below:	
a. The resolution	on bandwidth an	d video bandwidth of test receiver/spectrum	
analyzer is 120	kHz for Quasiy	Peak detection at frequency below 1GHz.	
b. The resolution	on bandwidth of	test receiver/spectrum analyzer is 1MHz and	
video bandwidt	h is 3MHz with I	Peak detection for Peak measurement at	
frequency abov	ve 1GHz.		
c. The resolutio	tion bandwidth of test receiver/spectrum analyzer is 1MHz and the dth is 10Hz with Peak detection for Average Measurement as		
video bandwidt			
below at freque	iency above 1GHz.		
- 4. Measure the	e highest amplitude appearing on spectral display and set it as a I. Plot the graph with marking the highest point and edge		
reference level.			
frequency.			
- 5. Repeat abov	ove procedures until all measured frequencies were complete.		
Remark			
Result Pass	Fail		
· · · ·			
Test Data	N/A		
Test Plot Yes (See below)	N/A		

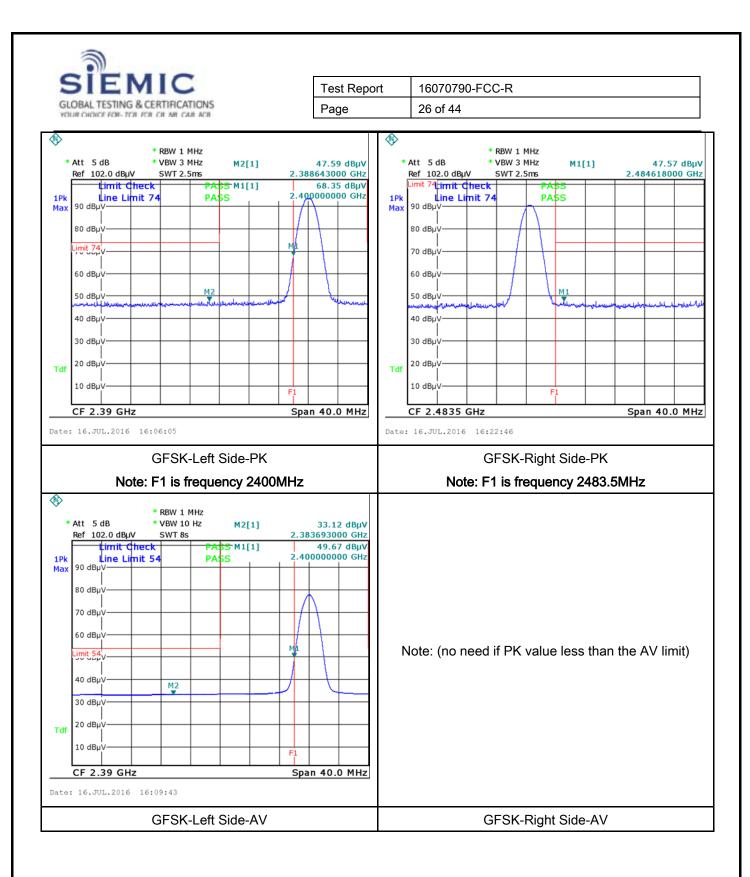


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6.8 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	
Tested By :	Loren Luo

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencied not exceed the limits in [mu]H/50 ohms line imp lower limit applies at th Frequency ranges (MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$	c utility (AC) power line ed back onto the AC po es, within the band 150 the following table, as pedance stabilization n e boundary between th	, the radio frequency ower line on any) kHz to 30 MHz, shall measured using a 50 etwork (LISN). The	
Test Setup	Ver Ref LISN Note: 1.Support		anits were connected to se ISNs (AMN) are 80cm from r units and other metal pla	EUT and at least 80cm	
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 			onnected to	

SIEN GLOBAL TESTING & YOUR ORDICE FOR- TOP FO		Test Report Page	16070790-FCC-R 28 of 44
	 The EUT was swit A scan was made over the required f High peaks, relativ selected frequenci setting of 10 kHz. 	ched on and allowe on the NEUTRAL li frequency range usi ve to the limit line, T les and the necessa	powered separately from another main supply. d to warm up to its normal operating condition. ne (for AC mains) or Earth line (for DC power) ng an EMI test receiver. he EMI test receiver was then tuned to the ary measurements made with a receiver bandwidth E line (for AC mains) or DC line (for DC power).
Remark			
Result	Pass	Fail	▼ _{N/A}
Test Plot	Yes Yes (See below)	✓ N/A ✓ N/A	



6.9 Radiated Spurious Emissions

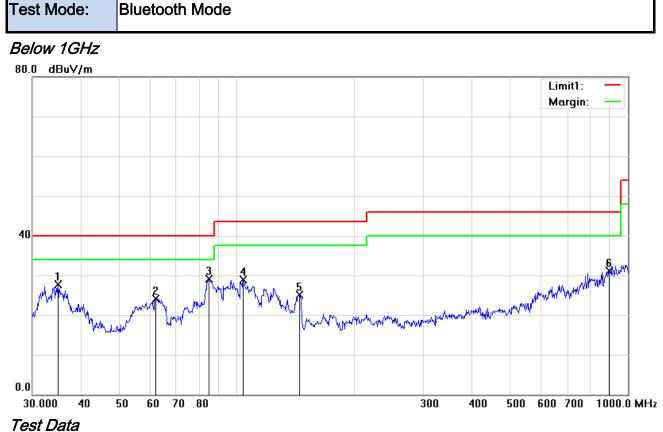
Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	July 16, 2016
Tested By :	Loren Luo

Spec	Item	Requirement		Applicable		
47CFR§15. 205, §15.209, a)		Except higher limit as specified elsevents emissions from the low-power radio- exceed the field strength levels spect the level of any unwanted emissions the fundamental emission. The tighter edges	×			
-		Frequency range (MHz)	Field Strength (µV/m)			
§15.247(d)		30 - 88	100			
		88 - 216	150			
		216 960	200			
		Above 960	500			
Test Setup		Ant. Tower L-4m Variable Support Units 0.8/1.5m Ground Plane Test Receiver				
Procedure	1. 2.	condition.				

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	level o b. The El emissi c. Finally maxim 3. The resolution 120 kHz for Qu 4. The resolution b bandwidth is 3N 1GHz. The resolution bandwidth is 10 frequency abov	ver a full rotation of JT was then rotate on. , the antenna heig oum emission. bandwidth and vide asiy Peak detection andwidth of test rea /Hz with Peak dete bandwidth of test rea /Hz with Peak dete /Hz with Peak dete	arization (whichever gave the higher emission of the EUT) was chosen. and to the direction that gave the maximum the was adjusted to the height that gave the so bandwidth of test receiver/spectrum analyzer is an at frequency below 1GHz. ceiver/spectrum analyzer is 1MHz and video ction for Peak measurement at frequency above eceiver/spectrum analyzer is 1MHz and the video action for Average Measurement as below at the next frequency point, until all selected
_	1	Fail	
	Tes (See below)	N/A	

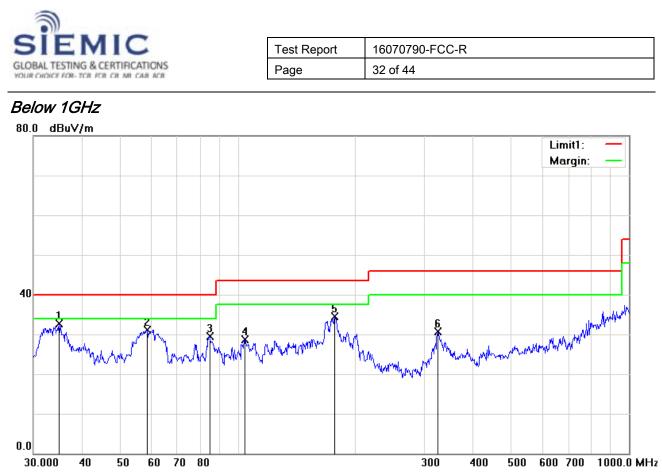


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Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	н	34.8823	31.59	peak	-3.85	27.74	40.00	-12.26	100	21
2	н	61.9951	38.36	peak	-14.20	24.16	40.00	-15.84	100	63
3	н	84.7019	42.57	peak	-13.51	29.06	40.00	-10.94	100	18
4	н	103.8055	38.98	peak	-10.12	28.86	43.50	-14.64	100	21
5	н	144.3348	33.58	peak	-8.48	25.10	43.50	-18.40	100	3
6	Н	896.9965	26.41	peak	4.64	31.05	46.00	-14.95	100	6



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	34.8823	36.59	peak	-3.85	32.74	40.00	-7.26	100	59
2	V	58.6126	45.38	peak	-14.20	31.18	40.00	-8.82	100	164
3	V	84.7019	43.07	peak	-13.51	29.56	40.00	-10.44	100	121
4	V	104.1701	38.79	peak	-10.06	28.73	43.50	-14.77	100	191
5	V	176.8878	44.05	peak	-9.64	34.41	43.50	-9.09	100	350
6	V	324.4561	36.88	peak	-6.20	30.68	46.00	-15.32	100	185



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Test Mode: Transmitting Mode

GFSK Mode

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	39.43	AV	V	33.67	6.86	32.66	47.3	54	-6.7
4804	39.58	AV	Н	33.67	6.86	32.66	47.45	54	-6.55
4804	48.24	PK	V	33.67	6.86	32.66	56.11	74	-17.89
4804	48.37	PK	Н	33.67	6.86	32.66	56.24	74	-17.76
17821	24.91	AV	V	45.03	11.21	32.38	48.77	54	-5.23
17821	24.75	AV	Н	45.03	11.21	32.38	48.61	54	-5.39
17821	41.37	PK	V	45.03	11.21	32.38	65.23	74	-8.77
17821	41.22	PK	Н	45.03	11.21	32.38	65.08	74	-8.92

Low Channel: (2402 MHz)

Middle Channel: (2441 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4882	39.27	AV	V	33.71	6.95	32.74	47.19	54	-6.81
4882	39.13	AV	Н	33.71	6.95	32.74	47.05	54	-6.95
4882	48.46	PK	V	33.71	6.95	32.74	56.38	74	-17.62
4882	48.28	PK	Н	33.71	6.95	32.74	56.20	74	-17.8
17809	25.13	AV	V	45.15	11.18	32.41	49.05	54	-4.95
17809	24.97	AV	Н	45.15	11.18	32.41	48.89	54	-5.11
17809	41.51	PK	V	45.15	11.18	32.41	65.43	74	-8.57
17809	41.46	PK	Н	45.15	11.18	32.41	65.38	74	-8.62



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Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	39.31	AV	V	33.9	6.76	32.74	47.23	54	-6.77
4960	39.25	AV	Н	33.9	6.76	32.74	47.17	54	-6.83
4960	48.68	PK	V	33.9	6.76	32.74	56.6	74	-17.4
4960	48.42	PK	Н	33.9	6.76	32.74	56.34	74	-17.66
17836	25.27	AV	V	45.22	11.35	32.38	49.46	54	-4.54
17836	25.03	AV	Н	45.22	11.35	32.38	49.22	54	-4.78
17836	41.68	PK	V	45.22	11.35	32.38	65.87	74	-8.13
17836	41.54	PK	Н	45.22	11.35	32.38	65.73	74	-8.27

High Channel: (2480 MHz)

Note:

1, The testing has been conformed to 10*2480MHz=24,800MHz

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted			1		
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	
LISN	ISN T800	34373	09/25/2015	09/24/2016	K
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	V
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	V
RF conducted test				-	
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	
Power Splitter	1#	1#	09/01/2015	08/31/2016	
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	V
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	K
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	V



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Annex B. EUT And Test Setup Photographs

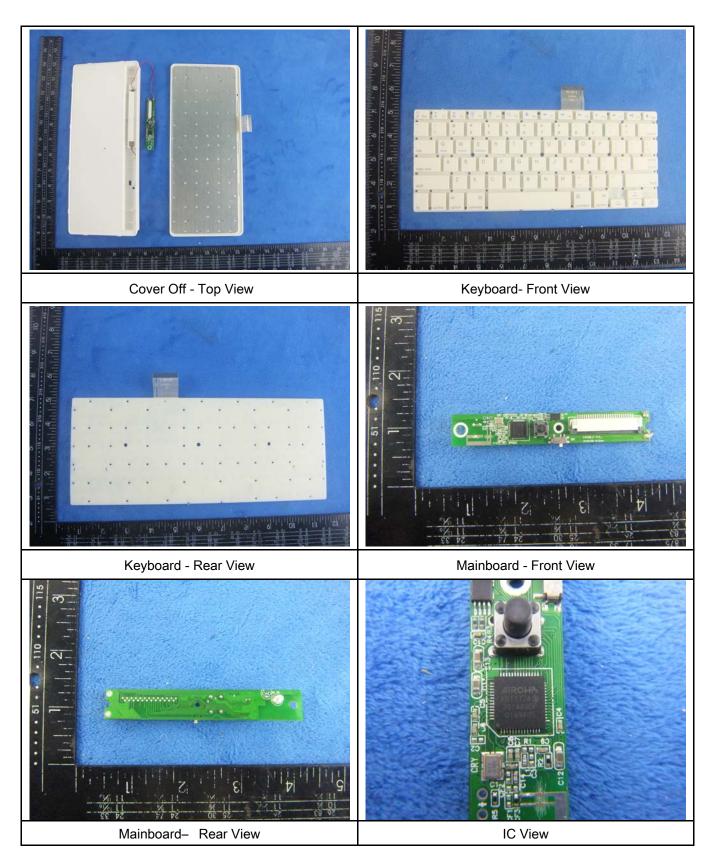






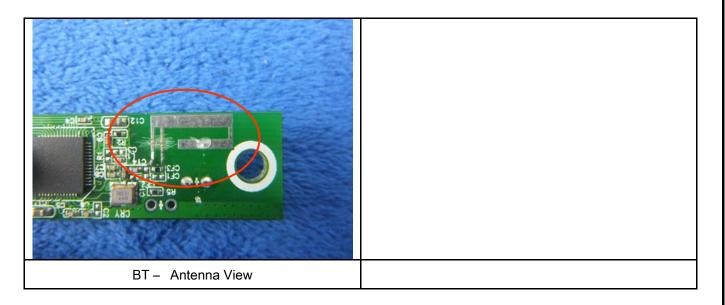
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Annex B.ii. Photograph: EUT Internal Photo





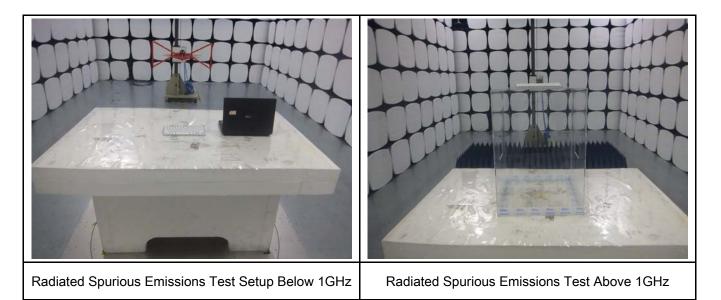
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Annex B.iii. Photograph: Test Setup Photo





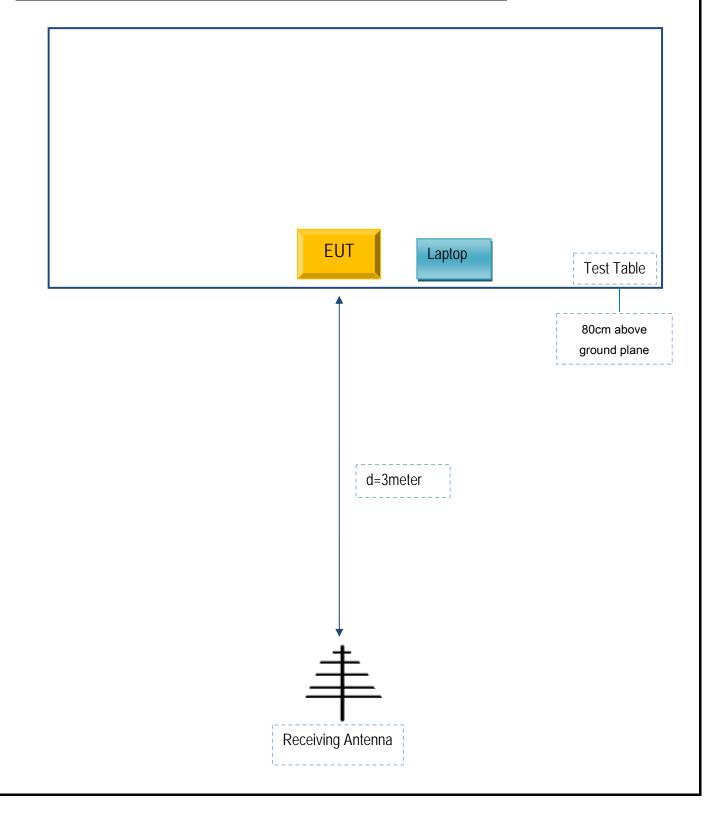
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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emission (Below 1GHz).

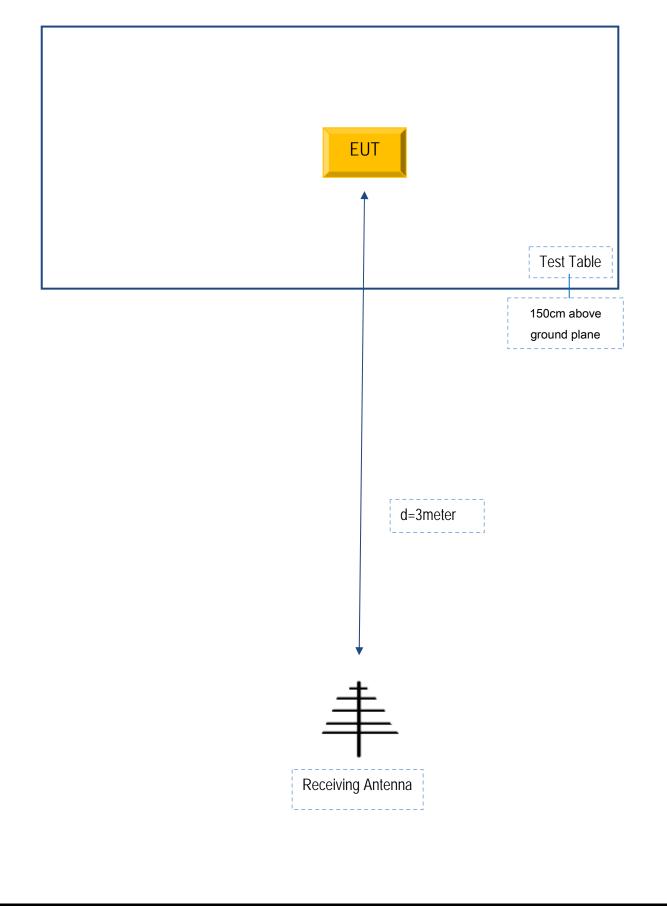




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Block Configuration Diagram for Radiated Emission (Above 1GHz).





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Lenovo Laptop	E40	N3-F5022



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Annex D. User Manual / Block Diagram / Schematics / Partlist

N/A



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Annex E. DECLARATION OF SIMILARITY

SHENZHEN KINGSUN ENTERPRISES Co.,Ltd

To: 775 Montague Expressway Mlpitas, CA 95035, USA

Declaration Letter

For our business issue and marketing requirement, we would like to list 3 models on the FCC ID reports, as following:

Main Model No	Serial Model No	Difference	
DC-0332	DC-0331, DC-0342	The PCB layout, schematic, structure are the same, The difference are models and colours.	

Thank you!

Sincerely,

Client's signature: sydney



Client' s name / title: Contact information / address : 25F, CEC information Building,

Xinwen Road, Futian District, Shenzhen, Guangdong, P.R.China