FCC RF Test Report

APPLICANT : MOBIKE (HONG KONG) LIMITED

EQUIPMENT : Mobike Lock

BRAND NAME : mobike

MODEL NAME : LB4-5, LC4-5 FCC ID : 2AK4SLBC4-5

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 12, 2017 and testing was completed on Aug. 30, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

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REVISION HISTORY

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR771212	Rev. 01	Initial issue of report	Sep. 29, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 6.23 dB at 2389.950 MHz
3.6	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

MOBIKE (HONG KONG) LIMITED

10/F HONGKONG OFFSHORE CENTRE NO.28 AUSTIN AVENUE TSIM SHA TSUI KL

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1.2 Manufacturer

MOBIKE (HONG KONG) LIMITED

10/F HONGKONG OFFSHORE CENTRE NO.28 AUSTIN AVENUE TSIM SHA TSUI KL

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobike Lock			
Brand Name	mobike			
Model Name	LB4-5, LC4-5			
FCC ID	2AK4SLBC4-5			
EUT supports Radios application	GPRS/Bluetooth v4.0 LE / Bluetooth v4.1 LE/			
IMEI Code	Conducted: 863584034176098 Radiation: 865691038384863			
HW Version	LB4-5, LC4-5			
SW Version	4.7.6			
EUT Stage	Production Unit			

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two types of EUT, the product equality declaration could be refer to Appendix E. The sample 1 with model name LB4-5 and the sample 2 with model name LC4-5. According to the difference, we evaluate is not affect RF performance, so only choose sample 1 to perform RF test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	40			
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)			
Maximum Output Power to Antenna	0.36 dBm (0.0011 W)			
Antenna Type / Gain	PIFA Antenna with gain 3.00 dBi			
Type of Modulation	Bluetooth LE : GFSK			

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

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Test Site	Sporton International (Kunshan) Inc.					
	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu					
Test Site Location	Province 215335 China					
	TEL: +86-512-57900158					
	FAX: +86-512-57900958					
Test Site No.	Sporton Site No.		FCC Test Firm Registration No.			
Test Site NO.	TH01-KS	03CH03-KS	630927			

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

		Bluetooth v4.2 LE RF Output Power
Channal	Frequency	Data Rate / Modulation
Chamilei	Frequency	GFSK
		1Mbps
Ch00	2402MHz	-0.31 dBm
Ch19	2440MHz	-0.12 dBm
Ch39	2480MHz	0.36 dBm

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a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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2.2 Test Mode

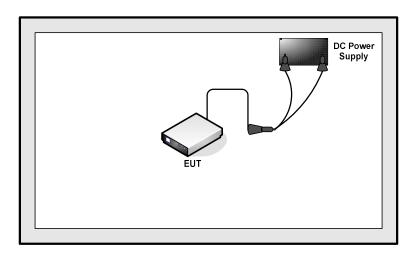
The following summary table is showing all test modes to demonstrate in compliance with the standard.

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	Summary table of Test Cases							
Test Item	Data Rate / Modulation							
rest item	Bluetooth v4.2 LE / GFSK							
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps							
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps							
105	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps							
Dadiatad	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps							
Radiated	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps							
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps							

2.3 Connection Diagram of Test System

<Bluetooth v4.2 LE Tx Mode>



2.4 Support Unit used in test configuration and system

	ltem	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
I	1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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2.5 EUT Operation Test Setup

For Bluetooth v4.2 LE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.7dB.

 $Offset(dB) = RF \ cable \ loss(dB).$

= 5.7 (dB)

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3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

3.1.4 Test Setup



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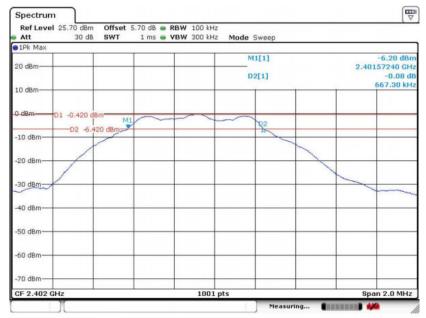
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3.1.5 Test Result of 6dB Bandwidth

Test data refer to Appendix A.

6 dB Bandwidth Plot on Channel 00



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6 dB Bandwidth Plot on Channel 19



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6 dB Bandwidth Plot on Channel 39



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3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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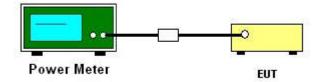
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas.
 Guidance v04 section 9.1.2 PKPM1 Peak power meter method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test data refers to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

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3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



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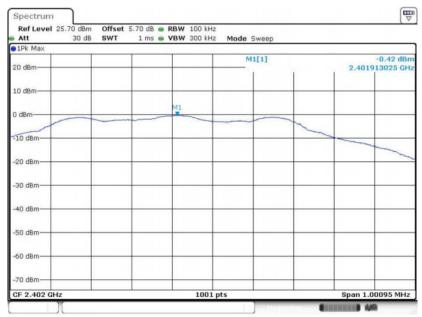
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3.3.5 Test Result of Power Spectral Density

Test data refers to Appendix A.

3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



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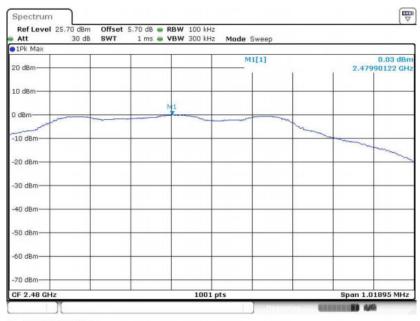
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PSD 100kHz Plot on Channel 19



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PSD 100kHz Plot on Channel 39



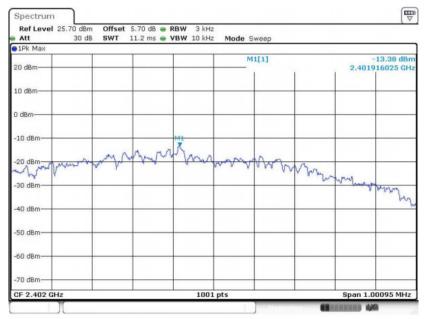
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



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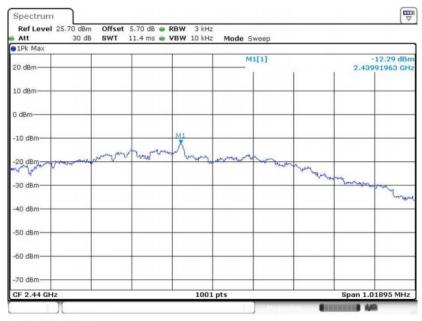
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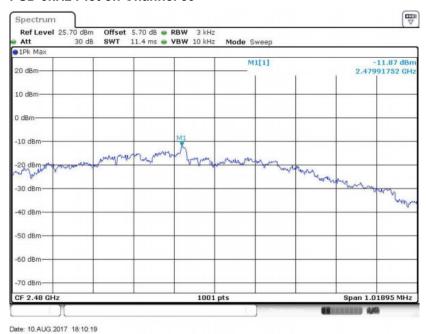
PSD 3kHz Plot on Channel 19



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PSD 3kHz Plot on Channel 39



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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

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3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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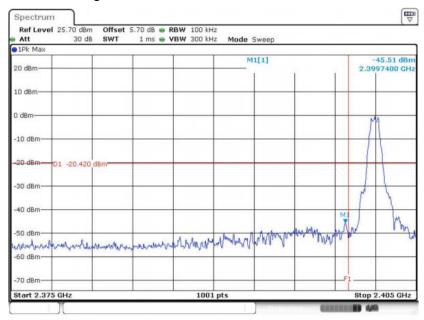
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3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 00

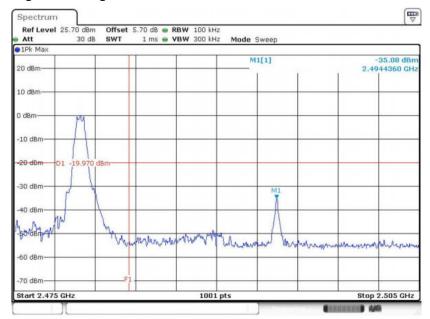


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High Band Edge Plot on Channel 39



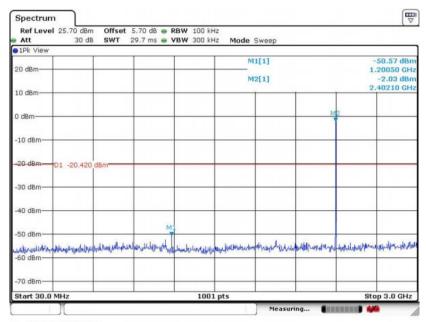
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3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00

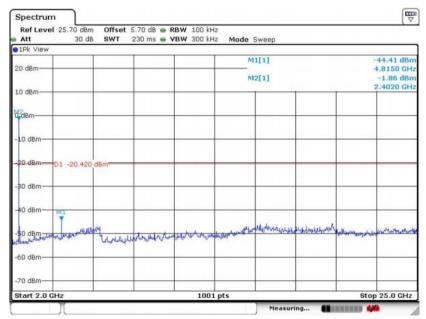


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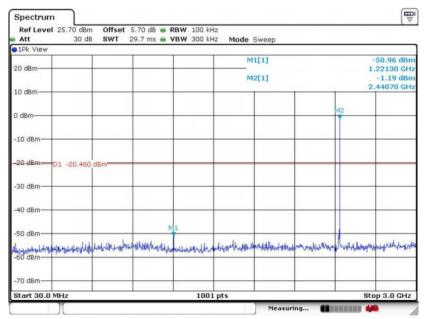
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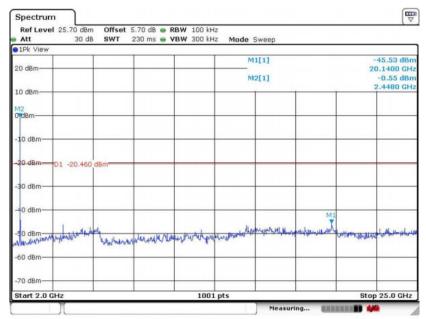
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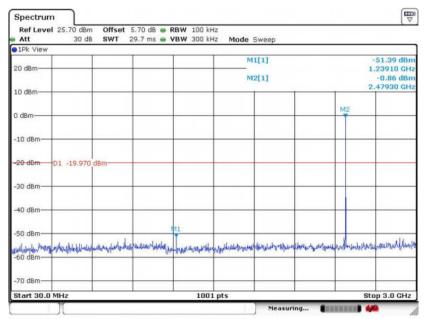
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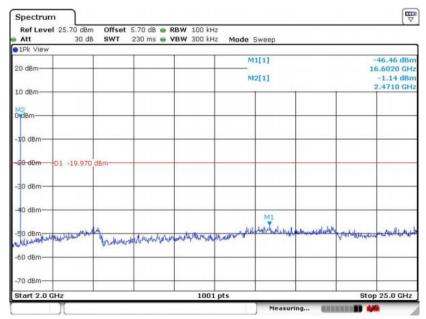
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement.

For average measurement:

- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

For average measurement:

- Detector = power averaging (rms), set sweep point ≥ 2 span / RBW.
- Averaging type = power averaging(RMS)
- The correction factor shall be offset is $10 \log (1/x)$, where x is the duty cycle.

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3.5.4 Test Setup

For radiated emissions below 30MHz



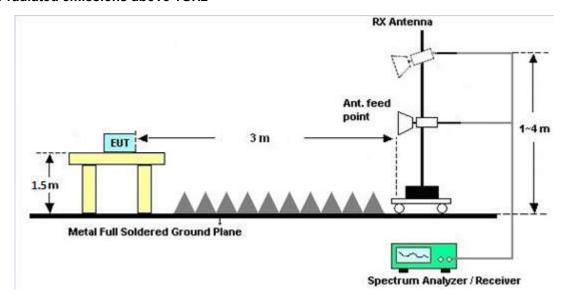
For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

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3.6 Antenna Requirements

3.6.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Aug. 10, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 19, 2017	Aug. 10, 2017	Jan. 18, 2018	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Aug. 10, 2017	Jan. 18, 2018	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz; Max 30dBm	Oct. 22, 2016	Aug. 30, 2017	Oct. 21, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44GHz	Apr. 18, 2017	Aug. 30, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Aug. 30, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Aug. 30, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-135 6	1GHz~18GHz	Apr. 22, 2017	Aug. 30, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz~40GHz	Oct. 19, 2016	Aug. 30, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MH z / 32 dB	Apr. 18, 2017	Aug. 30, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35- HG	1887435	18GHz~40GHz	Oct. 13, 2016	Aug. 30, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1GHz~18GHz	Apr. 18, 2017	Aug. 30, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A023 70	1GHz~26.5GHz	Oct. 13, 2016	Aug. 30, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Aug. 30, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 30, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 30, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required.

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.6dB
of 95% (U = 2Uc(y))	4.000

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<u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	4.5dB
of 95% (U = 2Uc(y))	4.306

<u>Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	4.7dB	
of 95% (U = 2Uc(y))	4.7uB	

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Appendix A. Conducted Test Results

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Bluetooth Low Energy

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2017/8/30	Relative Humidity:	51~55	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.00	0.67	0.50	Pass
BLE	1Mbps	1	19	2440	1.01	0.68	0.50	Pass
BLE	1Mbps	1	39	2480	1.01	0.68	0.50	Pass

TEST RESULTS DATA Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	-0.31	30.00	3.00	2.69	36.00	Pass
BLE	1Mbps	1	19	2440	-0.12	30.00	3.00	2.88	36.00	Pass
BLE	1Mbps	1	39	2480	0.36	30.00	3.00	3.36	36.00	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	1.64	-0.50
BLE	1Mbps	1	19	2440	1.64	-0.31
BLE	1Mbps	1	39	2480	1.64	0.13

TEST RESULTS DATA Peak Power Density

	Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
	BLE	1Mbps	1	0	2402	-0.42	-13.38	3.00	8.00	Pass
	BLE	1Mbps	1	19	2440	-0.46	-12.29	3.00	8.00	Pass
Ī	BLE	1Mbps	1	39	2480	0.03	-11.87	3.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

		_		-					_				
BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	4
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)		(H/V)
		2382.93	52.16	-21.84	74	57.5	25.67	5.45	36.46	100	166	Р	Н
		2389.82	43.29	-10.71	54	48.44	25.8	5.47	36.42	100	166	Α	Н
BLE	*	2402	89.4	-	-	94.55	25.8	5.47	36.42	100	166	Р	Н
CH 00	*	2402	89.13	-	-	94.28	25.8	5.47	36.42	100	166	Α	Н
2402MHz		2387.74	51.01	-22.99	74	56.16	25.8	5.47	36.42	100	124	Р	V
2402111112		2389.43	42.63	-11.37	54	47.78	25.8	5.47	36.42	100	124	Α	V
	*	2402	87.82	-	-	92.97	25.8	5.47	36.42	100	124	Р	٧
	*	2402	87.6	-	-	92.75	25.8	5.47	36.42	100	124	Α	V
		2383.45	50.3	-23.7	74	55.64	25.67	5.45	36.46	100	175	Р	Н
		2389.95	43.84	-10.16	54	48.99	25.8	5.47	36.42	100	175	Α	Н
	*	2440	91.44	-	-	96.51	25.89	5.49	36.45	100	175	Р	Н
	*	2440	91.16	-	-	96.23	25.89	5.49	36.45	100	175	Α	Н
		2490.7	50.3	-23.7	74	55.29	25.97	5.52	36.48	100	175	Р	Н
BLE		2489.62	41.96	-12.04	54	46.95	25.97	5.52	36.48	100	175	Α	Н
CH 19 2440MHz		2389.95	52.47	-21.53	74	57.62	25.8	5.47	36.42	123	153	Р	٧
244UIVIF1Z		2389.95	47.77	-6.23	54	52.92	25.8	5.47	36.42	123	153	Α	٧
	*	2440	85.84	-	-	90.91	25.89	5.49	36.45	123	153	Р	٧
	*	2440	85.61	-	-	90.68	25.89	5.49	36.45	123	153	Α	٧
		2495.98	49.95	-24.05	74	54.94	25.97	5.52	36.48	123	153	Р	٧
		2489.32	41.62	-12.38	54	46.61	25.97	5.52	36.48	123	153	Α	V

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	*	2480	89.86	-	-	94.88	25.94	5.51	36.47	334	143	Р	Н
	*	2480	89.56	-	-	94.58	25.94	5.51	36.47	334	143	Α	Н
		2483.51	53.25	-20.75	74	58.27	25.94	5.51	36.47	334	143	Р	Н
BLE		2483.51	44.69	-9.31	54	49.71	25.94	5.51	36.47	334	143	Α	Н
CH 39 480MHz	*	2480	93.17	-	-	98.19	25.94	5.51	36.47	100	153	Р	V
+OUIVITIZ	*	2480	92.96	-	-	97.98	25.94	5.51	36.47	100	153	Α	V
		2483.62	55.73	-18.27	74	60.75	25.94	5.51	36.47	100	153	Р	V
		2483.62	46.01	-7.99	54	51.03	25.94	5.51	36.47	100	153	Α	V

Remark 2.

. No other spurious round.

2. All results are PASS against Peak and Average limit line.

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2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	i
BLE		4806	44.01	-29.99	74	42.18	30.62	7.71	36.5	100	360	Р	Н
CH 00 2402MHz		4806	41.8	-32.2	74	39.97	30.62	7.71	36.5	100	360	Р	V
		4878	43.75	-30.25	74	41.67	30.85	7.76	36.53	100	360	Р	Н
BLE		7320	46.66	-27.34	74	38.28	34.85	9.78	36.25	100	360	Р	Н
CH 19		4878	42.72	-31.28	74	40.64	30.85	7.76	36.53	100	360	Р	V
2440MHz		7320	46.98	-27.02	74	38.6	34.85	9.78	36.25	100	360	Р	٧
		4962	46.04	-27.96	74	43.66	31.13	7.82	36.57	300	360	Р	Н
BLE		7440	47.54	-26.46	74	38.79	35.17	9.87	36.29	300	360	Р	Н
CH 39		4960	44.45	-29.55	74	42.07	31.13	7.82	36.57	100	0	Р	٧
2480MHz		7440	46.9	-27.1	74	38.15	35.17	9.87	36.29	100	0	Р	٧

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		32.91	25.87	-14.13	40	31.45	26.18	0.54	32.3	120	301	Р	Н
		62.98	21.01	-18.99	40	39.23	13.18	0.84	32.24	ı	-	Р	Н
		144.46	20.85	-22.65	43.5	33.78	18	1.35	32.28	ı	-	Р	Н
		216.24	20.94	-25.06	46	35.2	16.23	1.72	32.21	ı	-	Р	Н
0.4011-		449.04	24.48	-21.52	46	28.65	25.45	2.32	31.94	ı	-	Р	Н
2.4GHz BLE		857.41	31.14	-14.86	46	30.2	28.92	3.55	31.53	ı	-	Р	Н
LF		62.01	31.93	-8.07	40	50.22	13.12	0.82	32.23	100	30	Р	V
		124.09	25.82	-17.68	43.5	38.44	18.41	1.24	32.27	-	-	Р	٧
		216.24	22.67	-23.33	46	36.93	16.23	1.72	32.21	-	-	Р	٧
		323.91	26.62	-19.38	46	36.67	20.13	1.9	32.08	ı	-	Р	V
		647.89	28.76	-17.24	46	31.87	25.65	2.94	31.7	ı	-	Р	V
		860.32	31.09	-14.91	46	30.17	28.89	3.55	31.52	-	-	Р	٧

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Remark

1. No other spurious found.
2. All results are PASS again All results are PASS against limit line.

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any
	unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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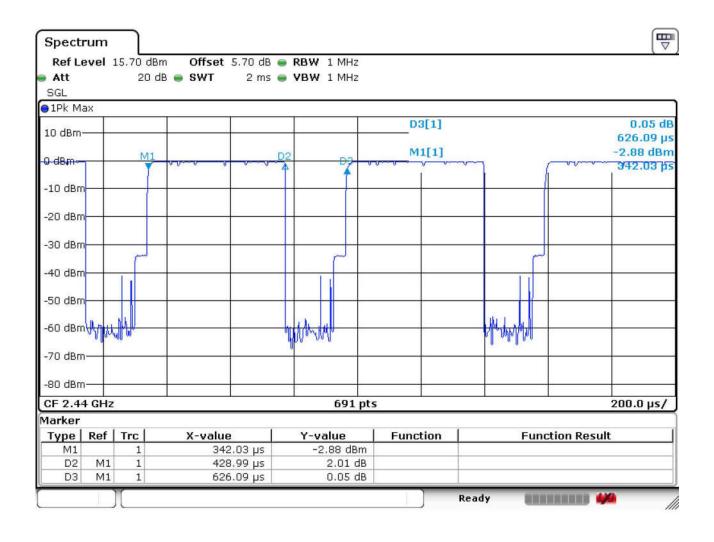
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth v4.2 68.52		0.429	2.331	3kHz



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Appendix E. Product Equality Declaration

Sporton International (Kunshan) Inc.

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MOBIKE (HONG KONG) LIMITED

编号: SL20170023



LB4-5 and LC4-5 Statement Of Difference

Preparation: Zhu YingJie

Audit:

Approval:

Date: 2017.02.08





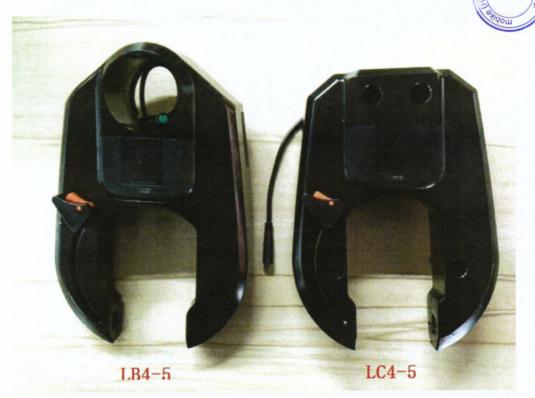


The differences of two models LB4-5 and LC4-5:

Box and PCBA are exactly same, the difference is the corresponding structure due to different installation method.

Decomposition map:

Appearance











Box

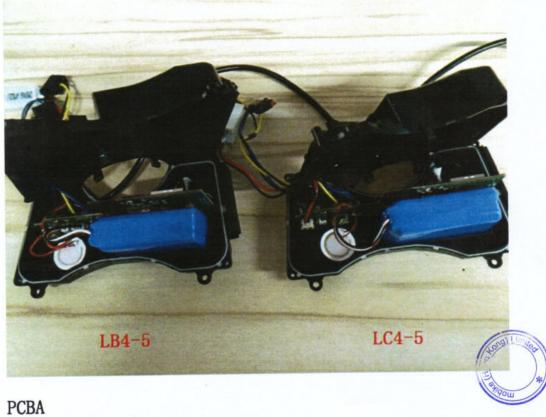


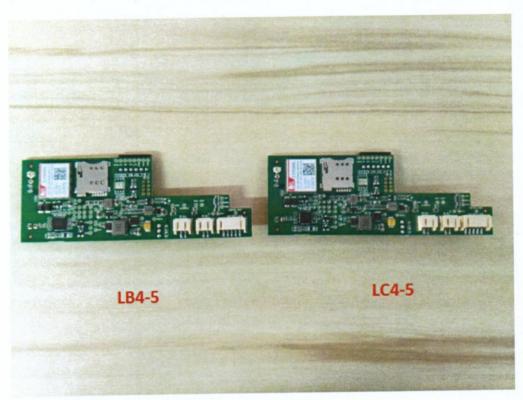
LET'S MOBIKE.



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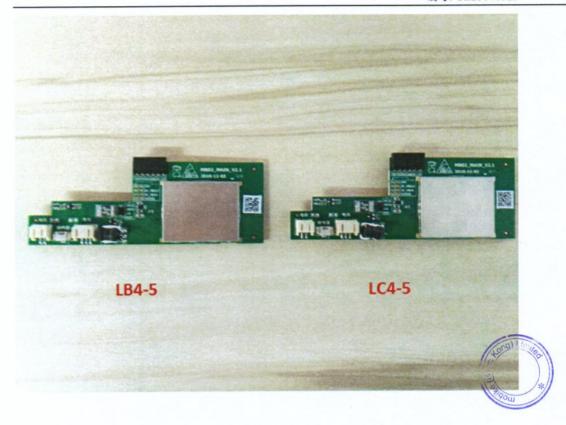




LET'S MOBIKE.







END

LET'S MOBIKE.

