



<b>Prüfbericht-Nr.:</b> <i>Test report No.:</i>	<b>50064681 002</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164074884</b>	<b>Seite 1 von 26</b> <i>Page 1 of 26</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client reference No.:</i>	<b>N/A</b>	<b>Auftragsdatum:</b> <i>Order date.:</i>	<b>26.09.2016</b>		
<b>Auftraggeber:</b> <i>Client:</i>	<b>BBB Inc.</b> 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea				
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Mobile Phone</b>				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>EZ-100</b> (elemark™, mobihealth)				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>FCC Certification</b>				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>08.08.2016</b>	<b>Please refer to photo documents</b>			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>STR16098108I-4</b> <b>STR16098108I-5</b>				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>08.08.2016 - 07.12.2016</b>				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Shenzhen SEM.Test Technology Co., Ltd.</b>				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen) Co., Ltd.</b>				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>				
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>			
					
<b>29.12.2016</b>		<b>29.12.2016</b>			
<b>Lin Lin / Project Manager</b>		<b>Sam Lin / Technical Certifier</b>			
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>  FCC ID: 2AKGP-EZ100					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory P(ass) = passed a.m. test specifications(s) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specifications(s)			4 = ausreichend 5 = mangelhaft N/A = nicht anwendbar N/T = nicht getestet 4 = sufficient 5 = poor N/A = not applicable N/T = not tested		
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

## Test Summary

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

**5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER**

RESULT: Pass

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

RESULT: Pass

**5.1.4 6dB BANDWIDTH**

RESULT: Pass

**5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH**

RESULT: Pass

**5.1.6 RADIATED SPURIOUS EMISSION**

RESULT: Pass

**5.1.7 20dB BANDWIDTH**

RESULT: Pass

**5.1.8 CARRIER FREQUENCY SEPARATION**

RESULT: Pass

**5.1.9 NUMBER OF HOPPING FREQUENCY**

RESULT: Pass

**5.1.10 TIME OF OCCUPANCY**

RESULT: Pass

**5.1.11 CONDUCTED EMISSION ON AC MAINS**

RESULT: Pass

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## **1 General Remarks**

### **1.1 Complementary Materials**

All attachments are integral parts of this test report. This applies especially to the following appendix:  
Appendix A: Test Results of Bluetooth (DSS)  
Appendix B: Test Result of Bluetooth (DTS)

## 2 Test Sites

### 2.1 Test Facilities

Shenzhen SEM.Test Technology Co., Ltd.  
1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, China

FCC Registration No.: 934118

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

### 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Shenzhen SEM.Test Technology Co., Ltd.

Radio Spectrum Test and Spurious Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	Agilent	E4407B	MY41440400	03.06.2017
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	03.06.2017
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	03.06.2017
Amplifier	Agilent	8447F	3113A06717	03.06.2017
Amplifier	C&D	PAP-1G18	2002	03.06.2017
Loop Antenna	Schwarbeck	FMZB 1516	9773	03.06.2017
Broadband Antenna	Schwarz beck	VULB9163	9163-333	03.06.2017
Horn Antenna	ETS	3117	00086197	03.06.2017
Horn Antenna	ETS	3116B	00088203	03.06.2017
Horn Antenna	Schwarbeck	BBHA9170	BBHA9170582	03.06.2017
Conducted Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	03.06.2017
L.I.S.N	Schwarz beck	NSLK8126	8126-224	03.06.2017
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	03.06.2017

### 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

### 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

### 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table:

Table 2: Measurement Uncertainty

Item	Conditions	Extended Uncertainty
RF Output Power	Conducted	±0.42dB

Occupied Bandwidth	Conducted	±1.5%
Power Spectral Density	Conducted	±1.8dB
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A and Appendix B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Shenzhen SEM.Test Technology Co., Ltd. Test facility located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a Mobile Phone which supports Bluetooth V4.0 (dual mode) and WiFi 802.11 b/g/n/ wireless technology. This report is only for Bluetooth functions of DTS and DSS. Other functions with different technologies are reported in the related reports.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Mobile Phone
Type Designation	EZ-100
Trade Mark	elemark™, mobihealth
FCC ID	2AKGP-EZ100
Operating Frequency	2402 - 2480 MHz
Operating Temperature Range	-30 °C ~ +50 °C
Operating Voltage	USB Operated
Testing Voltage	Fully charged Lithium battery and 5Vdc from AC/DC Adapter with input 120Vac, 60Hz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels; Low Energy mode:40 channels
Channel Separation	BDR & EDR mode:1MHz; Low Energy mode:2MHz
Wireless Technology	Bluetooth 4.0 (Dual mode)
Antenna Type	Integral Antenna
Max. Antenna Gain	2.51 dBi

Table 4: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00

15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	--	--

Table 5: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

Table 6: Frequency Hopping Information

Technical Specification	Description
Hopping Range	Hereby we declare that the frequency range of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1 + EDR for devices which will be operated in the USA.
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56, 69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43, 15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Bluetooth transmitting mode (BDR & EDR mode)
    - a) Low Channel



- b) Middle Channel
  - c) High Channel
- 2. Bluetooth transmitting mode (Low Energy mode)
  - a) Low Channel
  - b) Middle Channel
  - c) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to Circuit Diagram for further details.

### **3.5 Submitted Documents**

- |                         |                                  |
|-------------------------|----------------------------------|
| - Application Form      | - FCC/IC Label and Location Info |
| - Block Diagram         | - Photo Document                 |
| - Schematics            | - User Manual                    |
| - Technical Description |                                  |

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

### 4.3 Special Accessories and Auxiliary Equipment

Table 7: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
AC/DC Adapter	BBB Inc	HNFG050100UE	N/A	Input: 100-240Vac, 50/60Hz Output: 5Vdc, 1A
USB cable	BBB Inc	Unshielded	N/A	Length: 1.0m
Earphone	BBB Inc	Unshielded	N/A	Length: 1.2m

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

### 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

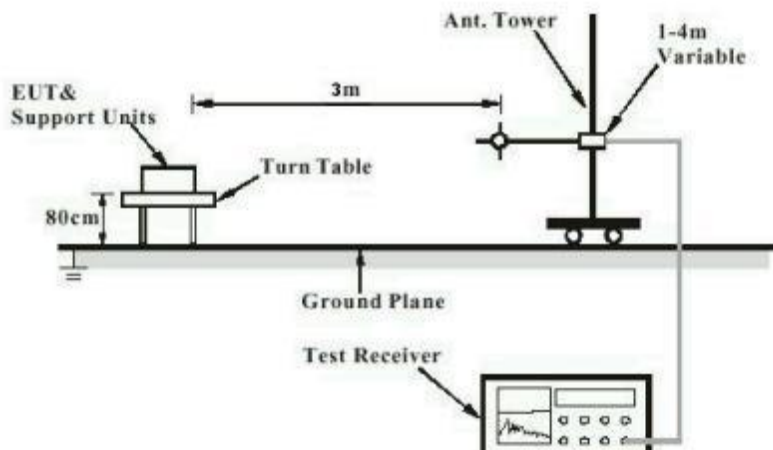


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

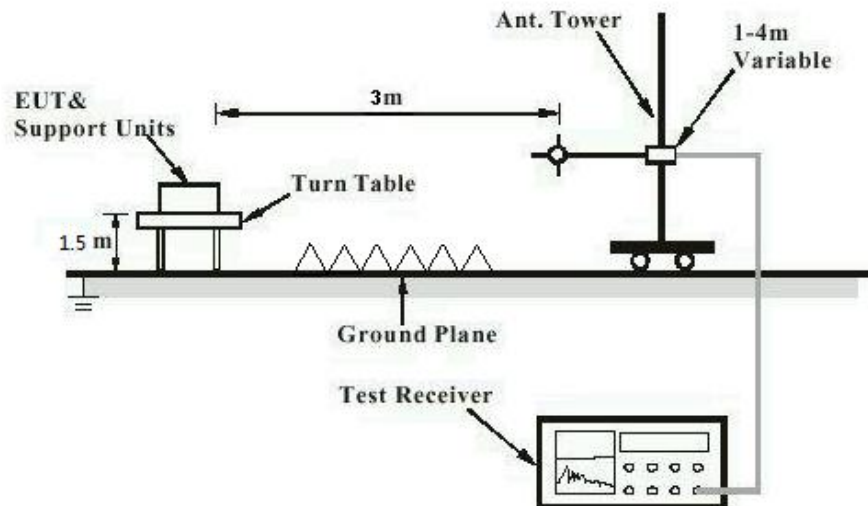


Diagram of Measurement Configuration for Mains Conduction Measurement

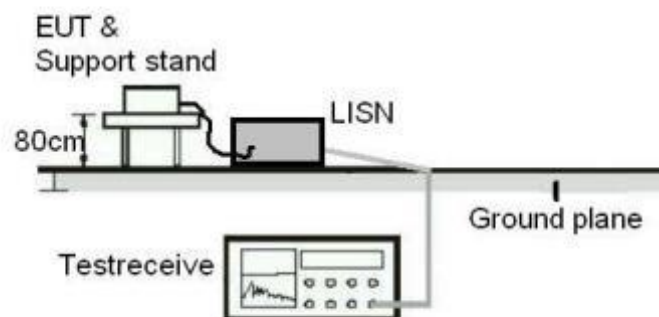
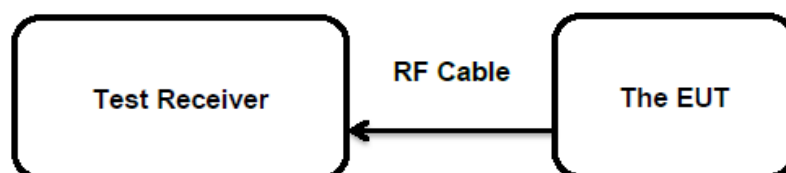


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 2.51dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

**5.1.2 Maximum Peak Conducted Output Power****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(b)(1)&(3)
Basic standard	: ANSI C63.10: 2013
Limits	: FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 20.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

Refer to 50064681 002 Appendix B for DTS detail test data.

**5.1.3 Conducted Power Spectral Density****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(e)
Basic standard	: ANSI C63.10: 2013
Limits	: 8 dBm/3kHz
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix B for DTS detail test data.

**5.1.4 6dB Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(2)
Basic standard	: ANSI C63.10: 2013
Limits	: More than 500 KHz
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix B for DTS detail test data.

**5.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 20.10.2016 ~ 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.  
Refer to 50064681 002 Appendix B for DTS detail test data.



**5.1.6 Radiated Spurious Emission****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 20.10.2016 ~ 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

Refer to 50064681 002 Appendix B for DTS detail test data.

**5.1.7 20dB Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

**5.1.8 Carrier Frequency Separation****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

**5.1.9 Number of Hopping Frequency****RESULT:****Pass****Test Specification**

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 15$ non-overlapping channels
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: B
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

**5.1.10 Time of Occupancy****RESULT:****Pass****Test Specification**

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10: 2013
Limits	: < 0.4s
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 21.10.2016
Input voltage	: Fully charged Lithium battery
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

**5.1.11 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 24.10.2016
Input voltage	: 5Vdc from AC/DC Adapter with input 120Vac, 60Hz
Operation mode	: C
Earthing	: Not connected
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 002 Appendix A for DSS detail test data.

Refer to 50064681 002 Appendix B for DTS detail test data.