



<b>Prüfbericht-Nr.:</b> <i>Test report No.:</i>	<b>60394152 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	168258723	Seite 1 von 23 <i>Page 1 of 23</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date.:</i>	20.06.2020	
<b>Auftraggeber:</b> <i>Client:</i>	<b>AfterShokz LLC</b> 3200 Gracie Kiltz Lane, 4th Floor, Austin, TX 78758			
<b>Prüfgegenstand:</b> <i>Test item:</i>	OpenMove			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	AS660 (Trademark: AfterShokz)			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC and IC approval			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 April 2015 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-102 Issue 5 March 2015 CFR47 FCC Part 2.1093			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	20.06.2020	Please refer to photo documents		
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A002851811-023 A002851811-027 A002851811-001			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	20.06.2020 - 22.07.2020			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
 05.08.2020 Jackson Yang / Project Engineer		 05.08.2020 Winnie Hou / Technical Certifier		
<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: SHKASCEHB8      IC: 10978A-ASCEHB8      HVIN: AS660 Factory: Shenzhen Voxtech Co.,Ltd. Floors 1-4, Factory Building 26, Shancheng Industrial Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
Legend: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n)      F(ail) = entspricht nicht o.g. Prüfgrundlage(n)      N/A = nicht anwendbar      N/T = nicht getestet Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor P(ass) = passed a.m. test specifications(s)      F(ail) = failed a.m. test specifications(s)      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>				

v05

## Test Summary

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER***RESULT: Pass***5.1.3 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH***RESULT: Pass***5.1.5 RADIATED SPURIOUS EMISSION***RESULT: Pass***5.1.6 20dB BANDWIDTH***RESULT: Pass***5.1.7 CARRIER FREQUENCY SEPARATION***RESULT: Pass***5.1.8 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.9 TIME OF OCCUPANCY***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***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: Photographs of the Test Set-up

Appendix B: Test Results of Conducted Testing

Appendix C: Test Results of Radiated Testing & AC Mains Conducted Emission

# 2 Test Sites

## 2.1 Test Facilities

### **TÜV Rheinland (Shenzhen) Co., Ltd.**

East of F/1, F/2 - F/4, Building 1, Cybio Technology Building, No. 6 Langshan No. 2 Road, North Hi-tech Industry Park, Nanshan District, Shenzhen, P.R. China

FCC Registration No.: 694916

IC Registration No.: 25069

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**

TÜV Rheinland (Shenzhen) Co., Ltd.

<b>Conducted Emissions</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESR3	102428	2020-09-03
Artificial Mains Network	R&S	ENV216	102333	2020-08-19
<b>Radio Spectrum Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
Wireless Connectivity Tester	Rohde & Schwarz	CMW270	101375	2020-08-20
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	2020-08-20
Vector Signal Generator	Rohde & Schwarz	SMBV100A	263301	2020-08-21
Signal Generator	Rohde & Schwarz	SMB100A	115186	2020-08-21
OSP	Rohde & Schwarz	OSP 150	101017	2020-12-17
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	Rohde & Schwarz	WMS32 (V10.40.10)	N/A	N/A
Power Meter	Rohde & Schwarz	NRP2	107105	2020-12-17
Wideband Power Sensor	Rohde & Schwarz	NRP-Z81	105350	2020-12-17
<b>Unwanted Emission Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESR 7	102021	2020-08-19
Signal Analyzer	R&S	FSV 40	101439	2020-08-21
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2020-08-21
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2020-08-20
Amplifier	R&S	SCU-18F	180070	2020-08-20
Amplifier	R&S	SCU40A	100475	2020-09-20
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2020-09-02
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2020-09-02
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2020-09-02
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2020-09-01
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	2020-09-02

## 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

Item	Extended Uncertainty
Conducted Emission	± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dB $\mu$ V/m) ± 4.27dB
Radiated Emission (above 1000MHz)	Field strength (dB $\mu$ V/m) ± 4.46dB
Radio Spectrum	± 1.5 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C 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 TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at East of F/1, F/2 - F/4, Building 1, Cybio Technology Building, No. 6 Langshan No. 2 Road, North Hi-tech Industry Park, Nanshan District, Shenzhen, P.R. 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 an OpenMove which supports Bluetooth 5.0 (BDR&EDR) technology. The EUT cannot operating while charging, so 15.207 not applicable.

The EUT has two alternative batteries:

Battery Model	Manufacturer	Ratings
AEC521224	Apower Electronics Co.,Ltd.	DC 3.8V 135mAh
VDL 541222	VDL Electronics Co., LTD.	DC 3.8V 135mAh

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

#### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

Technical Specification	Value
Kind of Equipment	OpenMove
Type Designation	AS660
FCC ID	SHKASCEHB8
IC	10978A-ASCEHB8
HVIN	AS660
Operating Frequency	2402 - 2480 MHz
Operating Voltage	DC 3.8V via battery or DC 5V via USB port
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels
Channel Separation	BDR & EDR mode:1MHz
Wireless Technology	Bluetooth 5.0
Antenna Type	Integral Antenna
Max. Antenna Gain	4.97 dBi

**Table 3: RF Channel and Frequency of Bluetooth**

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
<b>00</b>	<b>2402.00</b>	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	<b>78</b>	<b>2480.00</b>
19	2421.00	<b>39</b>	<b>2441.00</b>	59	2461.00	--	--



### 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
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

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

## 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 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

### 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)

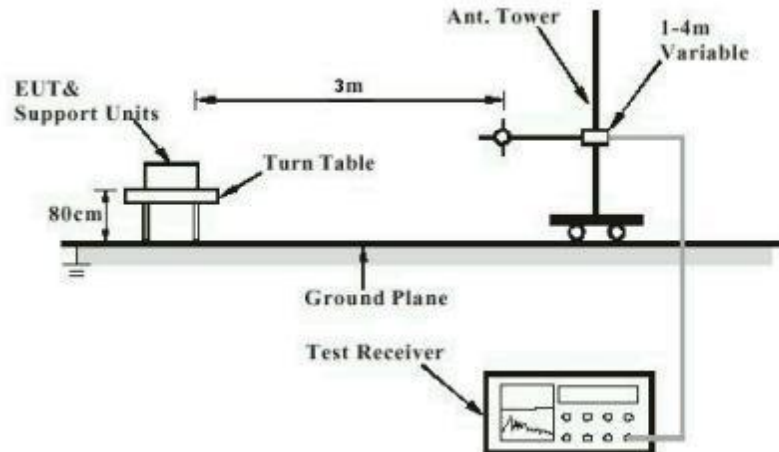


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

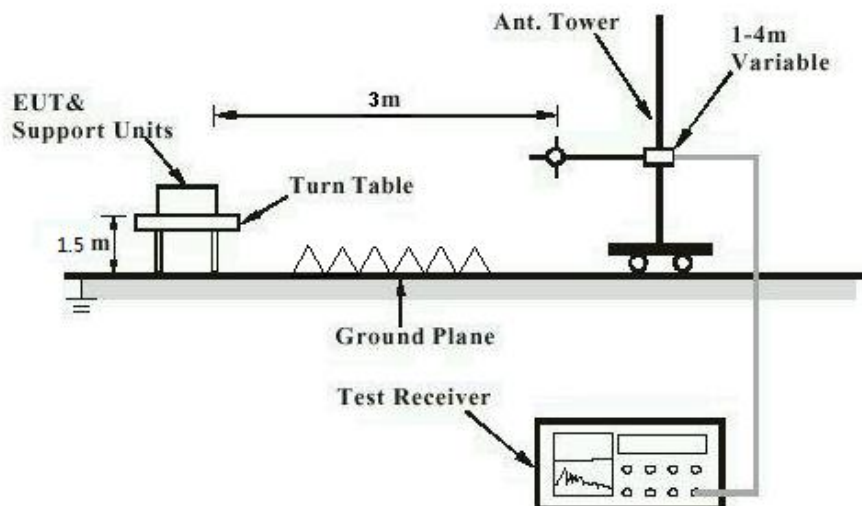


Diagram of Measurement Configuration for Mains Conduction Measurement

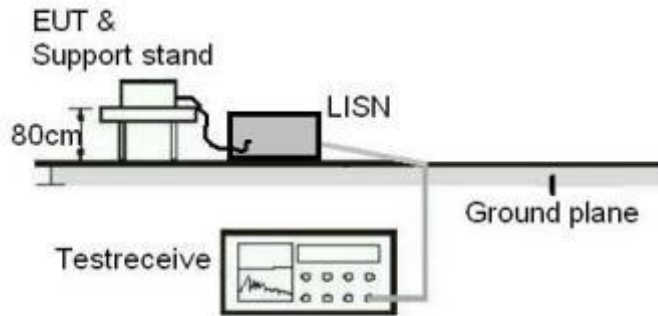
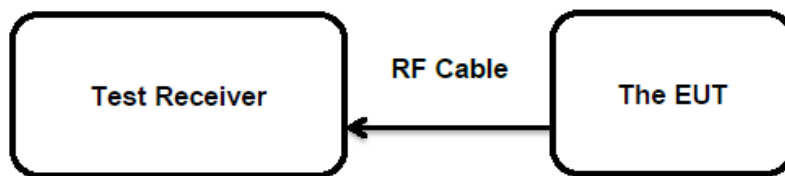


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 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  
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 4.97 dBi, 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) RSS-247 Clause 5.4(b)
Basic standard	: ANSI C63.10: 2013 FHSS<0.125W(Maximum peak conducted output power)
Limits :	< 4 W (e.i.r.p.)
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 07.07.2020
Input voltage	: DC 3.8V via battery
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

**Table 5: Test Result of Maximum Peak Conducted Output Power**

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)	Measured Average Output Power	
		(dBm)	(W)		(dBm)	(W)
BDR	2402	-1.33	0.00074	< 0.125	-1.42	0.00072
	2441	-1.54	0.00070		-2.40	0.00058
	2480	-0.94	0.00081		-1.98	0.00063
EDR	2402	0.86	0.00122	< 0.125	-1.15	0.00077
	2441	0.50	0.00112		-2.45	0.00057
	2480	0.75	0.00119		-1.90	0.00065

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 5.83 dBm less than 4W (36dBm).

### 5.1.3 99% Bandwidth

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

Test standard : RSS-Gen Clause 6.7  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 07.07.2020  
 Input voltage : DC 3.8V via battery  
 Operation mode : A.1  
 Test channel : Low / Middle / High  
 Ambient temperature : 25 °C  
 Relative humidity : 56 %  
 Atmospheric pressure : 101 kPa

**Table 6: Test Result of 99% Bandwidth**

Test Mode	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)
BDR	2402	0.865	/
	2441	0.865	
	2480	0.865	
EDR	2402	0.725	/
	2441	0.735	
	2480	0.710	

For the measurement records, refer to the appendix B

### 5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

Test standard : FCC Part 15.247(d)  
RSS-247 Clause 5.5

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 : 07.07.2020

Input voltage : DC 3.8V via battery

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix B.



## 5.1.5 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 6 & Table 7
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 01.08.2019 - 08.08.2019
Input voltage	: DC 3.8V via battery
Operation mode	: A.1, B
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

**Remark:**

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix C.

### 5.1.6 20dB Bandwidth

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

 Test standard : FCC Part 15.247(a)(1)  
 RSS-247 Clause 5.1(a)  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

 Date of testing : 07.07.2020  
 Input voltage : DC 3.8V via battery  
 Operation mode : A.1  
 Test channel : Low / Middle / High  
 Ambient temperature : 25 °C  
 Relative humidity : 56 %  
 Atmospheric pressure : 101 kPa

**Table 7: Test Result of 20dB Bandwidth**

<b>Test Mode</b>	<b>Channel Frequency (MHz)</b>	<b>20dB Bandwidth (kHz)</b>	<b>2/3 of 20dB Bandwidth (kHz)</b>	<b>Limit (MHz)</b>
BDR	2402	0.930	0.620	/
	2441	0.930	0.620	
	2480	0.930	0.620	
EDR	2402	0.540	0.360	/
	2441	0.540	0.360	
	2480	0.540	0.360	

For the measurement records, refer to the appendix B.

### 5.1.7 Carrier Frequency Separation

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

Test standard : FCC Part 15.247(a)(1)  
                       : RSS-247 Clause 5.1(b)  
 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 : 07.07.2020  
 Input voltage : DC 3.8V via battery  
 Operation mode : B  
 Test channel : Low / Middle / High  
 Ambient temperature : 25 °C  
 Relative humidity : 56 %  
 Atmospheric pressure : 101 kPa

**Table 8: Test Result of Carrier Frequency Separation**

Test Mode	Channel	Measured Channel Separation (KHz)	Limit (kHz)	Result
BDR	Low Channel	1.010	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
	Adjacency Channel			
	Middle Channel	1.010		Pass
	Adjacency Channel			
	High Channel	1.010		Pass
	Adjacency Channel			
EDR	Low Channel	1.010	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
	Adjacency Channel			
	Middle Channel	950.496		Pass
	Adjacency Channel			
	High Channel	1.010		Pass
	Adjacency Channel			

Note:

 The limit is maximum  $2/3$  of the 20 dB bandwidth: 620 KHz.

For the measurement records, refer to the appendix B.

### 5.1.8 Number of Hopping Frequency

RESULT:

Pass

#### Test Specification

Test standard : FCC part 15.247(a)(1)(iii)  
RSS-247 Clause 5.1(d)  
Basic standard : ANSI C63.10: 2013  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shielded Room

#### Test Setup

Date of testing : 07.07.2020  
Input voltage : DC 3.8V via battery  
Operation mode : B  
Ambient temperature : 25 °C  
Relative humidity : 56 %  
Atmospheric pressure : 101 kPa

**Table 9: Test Result of Number of Hopping Frequency**

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	$\geq 15$	Pass

For the measurement records, refer to the appendix B.

### 5.1.9 Time of Occupancy

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

Test standard : FCC part 15.247(a)(1)(iii)  
                   : RSS-247 Clause 5.1(d)  
 Basic standard : ANSI C63.10: 2013  
 Limits : < 0.4s  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 07.07.2020  
 Input voltage : DC 3.8V via battery  
 Operation mode : B  
 Test channel : Low / Middle / High  
 Ambient temperature : 25 °C  
 Relative humidity : 56 %  
 Atmospheric pressure : 101 kPa

**Table 10: Test Result of Time of Occupancy**

Test Mode	Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR	2441	DH1	0.391	0.125	< 0.4s
		DH3	1.648	0.264	
		DH5	2.897	0.309	
EDR	2441	2DH1	0.395	0.126	< 0.4s
		2DH3	1.645	0.263	
		2DH5	2.895	0.309	

Note:

$$\text{Dwell time} = \text{Pulse width} \times (\text{Hopping rate} / \text{Number of channels}) \times \text{Period}$$

$$\text{Period} = 0.4 \times 79 (\text{channel}) = 31.6 \text{ seconds}$$

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

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

Test standard : CFR47 FCC Part 2.1093  
RSS-102 Issue 5 March 2015  
FCC KDB Publication 447498 v06

Limit : CFR47 FCC Part 1.1310

The separation distance of the EUT should be 5mm. The measured maximum conducted power of the EUT is 0.86dBm  $\approx$  1.22 mW , which is far below the SAR exclusion threshold level 10mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

The separation distance of the EUT should be 5mm. The measured maximum specified e.i.r.p of the EUT is 5.83dBm  $\approx$  3.83mW, which is far below the SAR exclusion threshold level 4mW, hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.

## 7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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