



FCC PART 15.247

RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2 RSS-247, ISSUE 2, FEBRUARY 2017

TEST REPORT

For

The Source (Bell) Electronics Inc.

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FCC ID: ZHW-8092991 IC: 255A-8092991

Report Type: Original Report		Product Type: Bluetooth Audio Speaker		
Report Number:	SZ5210521-186	582E		
Report Date:	2021-06-11			
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GENERAL INFORMATION

Product	Bluetooth Audio Speaker
Tested Model	8092991
HVIN	8092991
Frequency Range	Bluetooth: 2402~2480MHz
Maximum conducted Peak output power	Bluetooth: 0.06dBm
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification*	Bluetooth: 0dBi (It is provided by the applicant)
Voltage Range	DC 5.0V from adapter or DC3.7 from battery
Date of Test	2021-06-02 to 2021-06-06
Sample number	SZ5210521-18682E-RF-S_72D (Assigned by BACL, Shenzhen)
Received date	2021-05-21
Sample/EUT Status	Good condition
Adapter information	N/A

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017 of the Innovation, Science and Economic Development Canada rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All tests and measurements indicated in this document were performed in accordance with the ANSI C63.10-2013, RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017.

For Radiated Emissions testing, please refer to DA 00-705 Released March 30, 2000, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement	Uncertainty
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Parameter		Uncertainty	
Occupied Channel Bandwidth		$\pm 5\%$	
RF Output Power with Power meter		±0.73dB	
RF conducted test with spectrum		±1.6dB	
AC Power Lines Conducted Emissions		±1.95dB	
Emissions,	Below 1GHz	±4.75dB	
Radiated	Above 1GHz	±4.88dB	
Temperature		±1℃	
Humidity		±6%	
Supply	voltages	±0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

"FCC_assist_1.0.2.2.exe"software was use to the EUT tested and power level is 10. The software and power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
BLU	Adapter	Unknown	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	То
Shielded detachable USB cable	0.8	EUT	Adapter

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Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1) & §2.1093	RSS-102 § 2.5.1	RF Exposure& Exemption Limits for Routine Evaluation – SAR Evaluation	Compliance
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliance
§15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	RSS-247 § 5.5	Radiated Emissions	Compliance
§15.247(a)(1)	RSS- Gen§6.7, RSS-247 § 5.1 (a)	99% Occupied Bandwidth & 20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	RSS-247 § 5.1 (b)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	RSS-247 § 5.1 (d)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	RSS-247 § 5.1 (d)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	RSS-247 § 5.1(b) &§ 5.4(b)	Peak Output Power Measurement	Compliance
§15.247(d)	RSS-247 § 5.5	Band edges	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
	Radia	ated Emission T	est		
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2020/11/29	2021/11/28
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Insulted Wire Inc.	RF Cable	SPS-2503- 3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
SNSD	Band Reject filter	BSF2402- 2480MN- 0898-001	2.4G filter	2021/04/20	2022/04/20
Ducommun Technolagies	Horn antenna	ARH-4223- 02	1007726-02 1304	2020/12/06	2023/12/05
	RF	Conducted Tes	t		
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2020/08/04	2021/08/03
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2020/08/04	2021/08/03
Unknown	RF Cable	Unknown	2301 276	2020/11/29	2021/11/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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§ 15.247 (i)& FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

For worst case:

Frequency	Maximum pov	ı Tune-up ver	Calculated Distance		Threshold	SAR Test
(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion
2402-2480	0.5	1.12	5	0.4	3.0	Yes

Result: No Standalone SAR test is required

RSS-102 § 2.5.1 – EXEMPTION LIMITS FOR ROUTINE EVALUATION-SAR EVALUATION

Applicable Standard

According to RSS-102 Issue 5 § (2.5.1), SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

Frequency	Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation		
	distance of	distance of	distance of	distance of	distance of		
	≤5 mm	10 mm	15 mm	20 mm	25 mm		
≤300	$71 \mathrm{mW}$	101 mW	132 mW	162 mW	193 mW		
450	52 mW	70 mW	88 mW	106 mW	123 mW		
835	17 mW	30 mW	42 mW	55 mW	67 mW		
1900	7 mW	10 mW	18 mW	34 mW	60 mW		
2450	4 mW	7 mW	15 mW	30 mW	52 mW		
3500	2 mW	6 mW	16 mW	32 mW	55 mW		
5800	1 mW	6 mW	15 mW	27 mW	41 mW		

Table 1: SAR evaluation - Exemption limits for routine evaluation based
on frequency and separation distance ^{4,5}

Frequency		Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation			
	distance of	distance of	distance of	distance of	distance of			
	30 mm	35 mm	40 mm	45 mm	≥50 mm			
≤300	223 mW	$254 \mathrm{mW}$	284 mW	315 mW	345 mW			
450	141 mW	159 mW	177 mW	195 mW	213 mW			
835	80 mW	92 mW	105 mW	117 mW	130 mW			
1900	99 mW	153 mW	225 mW	316 mW	431 mW			
2450	83 mW	123 mW	173 mW	235 mW	309 mW			
3500	86 mW	124 mW	170 mW	225 mW	290 mW			
5800	56 mW	71 mW	85 mW	97 mW	$106 \mathrm{mW}$			

4. The exemption limits in Table 1 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 25 mm from a flat phantom, providing a SAR value of approximately 0.4 W/kg for 1 g of tissue. For low frequencies (300 MHz to 835 MHz), the exemption limits are derived from a linear fit. For high frequencies (1900 MHz and above), the exemption limits are derived from a third order polynomial fit.

5. Transmitters operating between 0.003-10 MHz, meeting the exemption from routine SAR evaluation, shall demonstrate compliance to the instantaneous limits in Section 4.

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power. For controlled use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 5. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5. If the operating frequency of the device is between two frequencies located in Table 1, linear interpolation shall be applied for the applicable separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

For medical implants devices, the exemption limit for routine evaluation is set at 1 mW. The output power of a medical implants device is defined as the higher of the conducted or e.i.r.p to determine whether the device is exempt from the SAR evaluation.

Test Result:

For worst case:

The higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, timeaveraged output power:

(2480-2450)/(3500-2450) = (4-P)/(4-2)

The exemption limit of 2480MHz is P=3.94mW

The maximum tune-up conducted power is 0.5 dBm, The antenna gain is 0dBi, so the EIRP is 0.5 dBm (1.12 mW), which less than 3.94 mW@2480MHz exemption limit

So the stand-alone SAR evaluation can be exempted.

FCC §15.203 & RSS-GEN §6.8– ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Туре	Antenna Gain	Impedance
PCB	0dBi	50 Ω

Result: Compliance.

FCC §15.207 (a) & RSS-GEN §8.8– AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 - AC Power Lines Conducted Emission Limits					
Frequency range	Conducted limit (dBµV)				
(MHz)	Quasi-Peak	Average			
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹			
0.5 - 5	56	46			
5 - 30	60	50			

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

EUT Setup



from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207 and RSS-Gen limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

Temperature:	26°C
Relative Humidity:	73%
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-06-03.

EUT operation mode: Transmitting

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AC 120V/60 Hz, Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.407850	37.0	9.000	L1	19.9	20.7	57.7
0.466890	36.7	9.000	L1	19.8	19.9	56.6
0.537950	42.9	9.000	L1	19.8	13.1	56.0
0.553810	40.2	9.000	L1	19.8	15.8	56.0
1.231550	35.9	9.000	L1	19.8	20.1	56.0
15.579010	34.7	9.000	L1	20.0	25.3	60.0

Final Result 2

Frequency	Average	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dB µ V)	(kHz)		(dB)	(dB)	(dB µ V)
0.407850	32.6	9.000	L1	19.9	15.1	47.7
0.466890	29.3	9.000	L1	19.8	17.3	46.6
0.537950	32.0	9.000	L1	19.8	14.0	46.0
0.553810	30.0	9.000	L1	19.8	16.0	46.0
1.231550	32.8	9.000	L1	19.8	13.2	46.0
15.579010	24.0	9.000	L1	20.0	26.0	50.0

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AC 120V/60 Hz, Neutral

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.407910	44.0	9.000	Ν	19.8	13.7	57.7
0.541990	48.7	9.000	Ν	19.8	7.3	56.0
0.553810	47.5	9.000	Ν	19.8	8.5	56.0
0.589030	44.4	9.000	Ν	19.8	11.6	56.0
1.006730	39.8	9.000	Ν	19.8	16.2	56.0
1.223790	43.5	9.000	Ν	19.8	12.5	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.406000	38.1	9.000	Ν	19.8	9.6	47.7
0.534000	34.3	9.000	N	19.8	11.7	46.0
0.546000	37.1	9.000	N	19.8	8.9	46.0
0.598000	29.7	9.000	N	19.8	16.3	46.0
0.898000	21.7	9.000	N	19.7	24.3	46.0
1.214000	21.8	9.000	N	19.8	24.2	46.0

FCC §15.205, §15.209 & §15.247(d) & RSS-247§ 5.5 – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d) and RSS-247 §5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits and RSS-247/RSS-Gen limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, according to the DA 00-705 Released March 30, 2000, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	РК
	1 MHz	10 Hz	/	Average

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

Temperature:	25.8~28℃
Relative Humidity:	51~60 %
ATM Pressure:	101~101.2 kPa

The testing was performed by Zero Yan on 2021-06-02 for below 1GHz and Hanic Pan on 2021-06-03 for above 1GHz.

EUT operation mode: Transmitting

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30 MHz~1 GHz: (the worst case is 8DPSK Mode, Low channel)

Critical_Freqs

Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dB	(dB µ V/m)	(dB)	(cm)		(deg)	(dB)
30.242500	23.53	40.00	16.47	100.0	V	160.0	-3.7
42.125000	25.82	40.00	14.18	100.0	Н	243.0	-11.9
42.731250	24.76	40.00	15.24	100.0	Н	0.0	-12.3
746.708750	28.49	46.00	17.51	200.0	н	180.0	-1.7
829.643750	29.71	46.00	16.29	200.0	V	204.0	-0.1
884.570000	30.95	46.00	15.05	300.0	Н	62.0	0.8

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F	Re	eceiver	T	Rx Ar	tenna	Corrected	Corrected	T ••4	M
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
			Low Ch	annel (2	2402 MI	Hz)			
2342.50	29.59	РК	255	2.4	Η	31.64	61.23	74	12.77
2342.50	14.56	Ave.	255	2.4	Н	31.64	46.20	54	7.80
2495.18	28.99	РК	282	1.4	Η	32.13	61.12	74	12.88
2495.18	14.63	Ave.	282	1.4	Н	32.13	46.76	54	7.24
4804.00	53.51	РК	46	2.5	Η	6.28	59.79	74	14.21
4804.00	40.12	Ave.	46	2.5	Н	6.28	46.40	54	7.60
			Middle C	hannel	(2441 N	fHz)			
4882.00	51.71	РК	29	2.5	Η	6.76	58.47	74	15.53
4882.00	39.09	Ave.	29	2.5	Η	6.76	45.85	54	8.15
			High Ch	annel (2	2480 M	Hz)			
4882.00	51.71	РК	29	2.5	Η	6.76	58.47	74	15.53
4882.00	39.09	Ave.	29	2.5	Н	6.76	45.85	54	8.15
2488.95	28.75	РК	318	1.6	Н	32.13	60.88	74	13.12
2488.95	14.62	Ave.	318	1.6	Н	32.13	46.75	54	7.25
4960.00	46.96	РК	272	2.4	Η	6.80	53.76	74	20.24
4960.00	38.96	Ave.	272	2.4	Н	6.80	45.76	54	8.24

1 GHz - 25 GHz: (*Scan with GFSK,* π /4-DQPSK mode and 8DPSK mode, the worst case is 8DPSK Mode)

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.









Date: 3.JUN.2021 01:10:50



Date: 3.JUN.2021 01:54:56



Date: 3.JUN.2021 01:50:26



Vertical



Date: 3.JUN.2021 01:15:17



FCC §15.247(a) (1) & RSS-247 § 5.1 (b)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems (FHSs) shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

- 1. Set the EUT in transmitting mode, maxhold the channel and in Operating mode, RBW was set at 30 kHz, VBW ≥ 3RBW max-hold the channel.
- 2. Set the adjacent channel of the EUT and maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	28.6 °C	
Relative Humidity:	54 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

FCC §15.247(a) (1) & RSS-GEN § 6.7 & RSS-247 § 5.1 (a)–99% OCCUPIED BANDWIDTH & 20 dB EMISSION BANDWIDTH

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "20 dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 20 dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.

• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

EUT	Attenuator	 Signal and Spectrum Analyzer

Test Data

Environmental Conditions

Temperature:	28.6 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems (FHSs) in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the max-hold function record the quantity of the channel.

Test Data

Environmental Conditions

Temperature:	28.6 °C	
Relative Humidity:	54 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems (FHSs) in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses

Test Data

Environmental Conditions

Temperature:	28.6 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

FCC §15.247(b) (1) & RSS-247§ 5.1(b) &§ 5.4(b) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

For frequency hopping systems (FHSs) operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W (see Section 5.4(e) for exceptions).

Frequency hopping systems (FHSs) 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. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	28.6 °C	
Relative Humidity:	54 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

FCC §15.247(d) & RSS-247 § 5.5 - BAND EDGES TESTING

Applicable Standard

According to FCC §15.247(d) & RSS-247 § 5.5.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)) & RSS-Gen.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Data

Environmental Conditions

Temperature:	28.6 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-06-06.

EUT operation mode: BT Transmitting

APPENDIX

AppendixA: 20dBEmission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
		2402	0.882		PASS
DH1	Ant1	2441	0.882		PASS
		2480	0.885		PASS
	Ant1	2402	1.251		PASS
2DH1		2441	1.248		PASS
		2480	1.251		PASS
3DH1	Ant1	2402	1.218		PASS
		2441	1.218		PASS
		2480	1.218		PASS

Test Graphs



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AppendixB: Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
		2402	0.827		PASS
DH1	Ant1	2441	0.830		PASS
		2480	0.830		PASS
	Ant1	2402	1.166		PASS
2DH1		2441	1.166		PASS
		2480	1.166		PASS
3DH1		2402	1.154		PASS
	Ant1	2441	1.154		PASS
		2480	1.157		PASS

Test Graphs



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AppendixC: Maximum conducted Peak output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	-1.31	<=20.97	PASS
DH1	Ant1	2441	-1.67	<=20.97	PASS
		2480	-2.04	<=20.97	PASS
	Ant1	2402	-0.51	<=20.97	PASS
2DH1		2441	-0.83	<=20.97	PASS
		2480	-1.21	<=20.97	PASS
3DH1	Ant1	2402	0.06	<=20.97	PASS
		2441	-0.31	<=20.97	PASS
		2480	-0.67	<=20.97	PASS

Note: the maximum antenna gain is 0dBi, the maximum conducted output power is 0.06dBm, the maximum EIRP is 0.06dBm<36dBm, so it compliance with ISEDC EIRP limit.

Test Graphs



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AppendixD: Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.003	>=0.588	PASS
2DH1	Ant1	Нор	1.003	>=0.832	PASS
3DH1	Ant1	Нор	1.003	>=0.812	PASS

Test Graphs



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AppendixE: Time of occupancy Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	330	0.123	<=0.4	PASS
DH3	Ant1	Нор	1.62	190	0.308	<=0.4	PASS
DH5	Ant1	Нор	2.86	120	0.343	<=0.4	PASS
2DH1	Ant1	Нор	0.38	330	0.126	<=0.4	PASS
2DH3	Ant1	Нор	1.63	150	0.244	<=0.4	PASS
2DH5	Ant1	Нор	2.87	130	0.373	<=0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.123	<=0.4	PASS
3DH3	Ant1	Нор	1.63	180	0.293	<=0.4	PASS
3DH5	Ant1	Нор	2.87	110	0.316	<=0.4	PASS

Note 1: A period time=0.4*79=31.6(S), Result=BurstWidth*Totalhops

Note 2: Totalhops=Hopping Number in 3.16s*10

Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

Test Graphs



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AppendixF: Number of hopping channels Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	>=15	PASS
2DH1	Ant1	Нор	79	>=15	PASS
3DH1	Ant1	Нор	79	>=15	PASS

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Test Graphs

	DH1_Ant1_Hop
	Spectrum
	Att 20 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep
	10 dBm
	O dBm high bhi an bhi an bhú bhu an bhu a
	-10 JBm
	Lua kana ka
	-80 d8m-
	40 d8m-
	-50 dBm
	-60 d8m
	Start 2.4 GHz 691 pts Stop 2.4835 GHz
	Date: 6.JUN.2021 19:08:34
	2DH1_Ant1_Hop
	Spectrum Ref Level 20.00 dBm Offset 15.51 dB ● RBW 100 kHz
	Att 20 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep IPk View
	10 dBm
	0 dBm
	-10 ggw วงสีกักรถลูกสากกักสากกักสากสากการการการการการการการการการการการการกา
	-20 dBm-
	-90 dem-
	-40 dBm
	-50 dBm
	-60 dBm-
	-70 dBm
	Start 2.4 GHz 691 pts Stop 2.4835 GHz
	2DH1 Apt1 Hop
	Spectrum @
	Ref Level 20.00 dBm Offset 15.51 dB RBW 100 kHz Att 20.48 SWT 1 ms = VBW 200 kHz Mode Auto Swccc
	10.dkm
	[®] ก็ชีวิทษฟุณสุขขุดสุขขุดการสถุดอากุสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุขขุดสุข
	-10 dBm
	-20 dBm
	-90 d8m
	40 dBm
	*-50 d8m
	-60 dBm
	-70 dBm-
	ער מר ג.י שרא אין אין אין אין אין אין אין אין אין אי
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AppendixG:Band edge measurements Test Graphs



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