



FCC PART 15.247 RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2 RSS-247, ISSUE 2, FEBRUARY 2017

TEST REPORT

For

AIAIAI ApS

FCC: Studiestraede 31, Copenhagen K, 1455 Denmark

ISEDC: Studiestraede 31 Copenhagen IP 1455 Denmark

FCC ID:2AKSOS1001 IC: 23880-TMA2S10

Report Type: Product Type:

Original Report S10 Speaker Units

Report Number: SZ1210623-24896EB

Report Date: 2021-08-02

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	S10 Speaker Units
Tested Model	S10
HVIN	10010
Frequency Range	BLE: 2402-2480MHz
Maximum Conducted Peak Output Power	BLE: 4.74dBm
Modulation Technique	BLE: GFSK
Antenna Specification*	0.5dBi (It is provided by the applicant)
Voltage Range	DC 3.7V from battery or DC5.0V from USB Port
Date of Test	2021-07-07 to 2021-07-15
Sample number	SZ1210623-24896E-RF-S1 (Assigned by BACL, Shenzhen)
Received date	2021-06-23
Sample/EUT Status	Good condition

Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's 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, and 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 Compliant Testing of Unlicensed Wireless Devices and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliant Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters. Each test item follows test standards and with no deviation.

Measurement Uncertainty

Para	meter	Uncertainty
Occupied Char	nnel Bandwidth	±5%
RF Output Power with Power meter		±0.73dB
RF conducted to	est 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 Compliant 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 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

For BLE 1M/2M mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

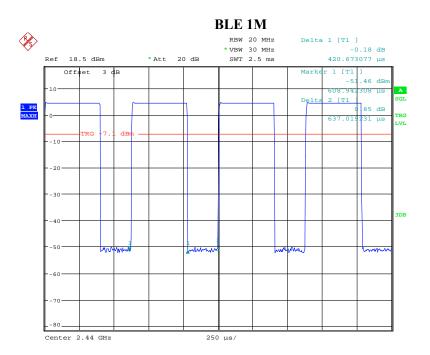
Equipment Modifications

No modification was made to the EUT tested.

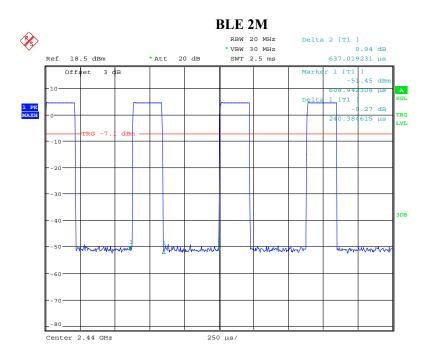
EUT Exercise Software

"BlueSuite.exe" was used for the test and the power level is default. The software and power level was provided by the applicant.

Duty cycle



Date: 15.JUL.2021 11:00:01



Date: 15.JUL.2021 10:58:27

Mode	Ton(ms)	Ton+Toff(ms)	Duty cycle(%)
BLE 1M	0.421	0.637	66.09
BLE 2M	0.240	0.637	37.68

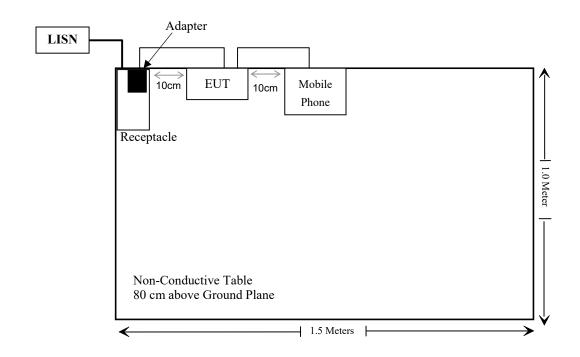
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
ZTE	Adapter	STC-A51A	Unknown
BLU	Mobile phone	Benco V80	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Un-shielding Detachable Audio Cable	1.0	EUT	Mobile Phone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	ISEDC 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	Compliant
§15.207 (a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	RSS-GEN § 8.10 & RSS-247 § 5.5	Spurious Emissions	Compliant
§15.247 (a)(2)	RSS- Gen§6.7 RSS-247 § 5.2 (a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	RSS-247 § 5.4(d)	Maximum Conducted Output Power	Compliant
§15.247(d)	RSS-247 § 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	RSS-247 § 5.2 (b)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Conducted Emissions Test							
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2021/07/07	2022/07/06		
Rohde & Schwarz	LISN	ENV216	101613	2021/07/07	2022/07/06		
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	2021/07/06	2022/07/05		
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03		
Sunol Sciences	Broadband Antenna	ЈВ1	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		
Unknown	Cable	Chamber Cable 4	EC-007	2020/11/29	2021/11/28		
Rohde & Schwarz	Auto test software	EMC 32	V9.10.00	NCR	NCR		
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2021/07/06	2022/07/05		
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28		
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2020/11/28	2021/11/27		
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		
		Conducted Tes	t				
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2021/04/02	2022/04/01		
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM121	2020/11/29	2021/11/28		

^{*} Statement of Traceability: Bay Area Compliant 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).

FCC§15.247 (i), §1.1307 (b) (1) & §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.

Measurement Result

For worst case:

Frequency (MHz)	Tune-up power (dBm)	Tune-up power (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
2480	5.0	3.16	5.0	1.0	3.0	Yes

Result: No SAR test is required

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

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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.

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

Frequency	Exemption Limits (mW)					
(MHz)	At separation distance of					
	≤5 mm	10 mm	15 mm	20 mm	25 mm	
≤300	71 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	$7 \mathrm{mW}$	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	

Frequency	Exemption Limits (mW)							
(MHz)	At separation	ation At separation At separation		At separation	At separation			
	distance of	distance of	istance of distance of		distance of			
	30 mm		35 mm 40 mm		≥50 mm			
≤300	223 mW	254 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 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. For test 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, time-averaged 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 5.0dBm, The antenna gain is 0.5 dBi, so the EIRP is 5.5 dBm (3.55 mW), which less than 3.94 mW@2480MHz exemption limit

So the stand-alone SAR evaluation can be exempted.

§15.203 & RSS-Gen §6.8 ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

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

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

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 an integral antenna arrangement for BLE which was permanently attached and the antenna gain is 0.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

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Туре	Antenna Gain	Impedance
РСВ	0.5dBi	50 Ω

Result: Compliant

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

Applicable Standard

FCC§15.207

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 μH / 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.

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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.

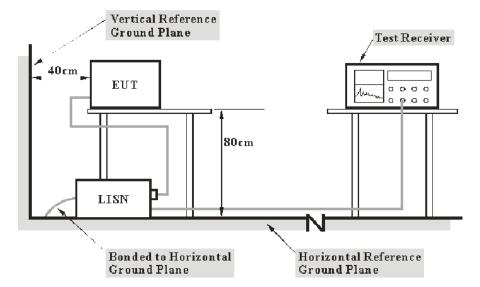
Table 4 - AC Power Lines Conducted Emission Limits					
Frequency range Conducted limit (dBμV)					
(MHz)	Quasi-Peak	Average			
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹			
0.5 - 5	56	46			
5 – 30	60	50			

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



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 & RSS-247/RSS-Gen limits.

The spacing between the peripherals was 10 cm.

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

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

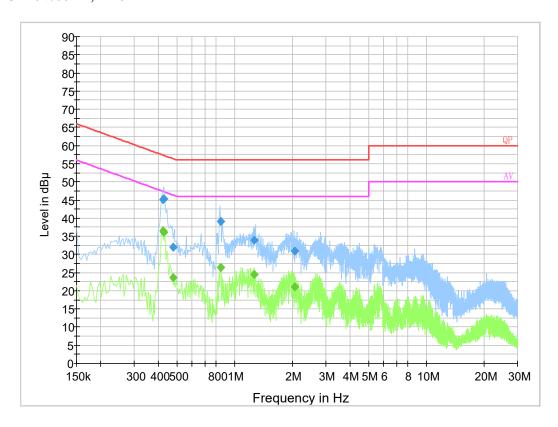
Environmental Conditions

Temperature:	25°C
Relative Humidity:	66%
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-07-13.

EUT operation mode: Transmitting

AC 120V/60 Hz, Line



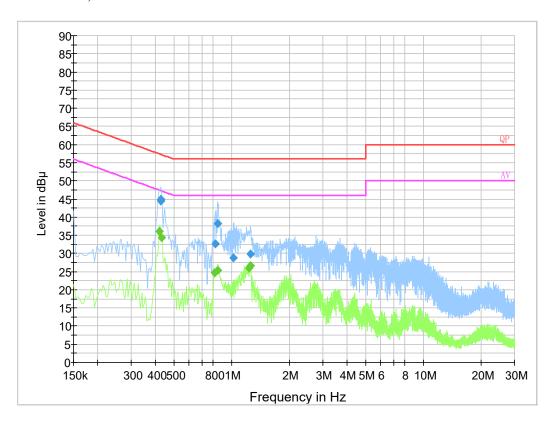
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)		
0.423610	45.2	9.000	L1	19.9	12.2	57.4		
0.427490	45.2	9.000	L1	19.9	12.1	57.3		
0.478710	32.0	9.000	L1	19.8	24.4	56.4		
0.849370	39.2	9.000	L1	19.8	16.8	56.0		
1.270710	33.9	9.000	L1	19.8	22.1	56.0		
2.063370	31.0	9.000	L1	19.9	25.0	56.0		

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.423610	36.5	9.000	L1	19.9	10.9	47.4
0.427490	36.2	9.000	L1	19.9	11.1	47.3
0.478710	23.6	9.000	L1	19.8	22.8	46.4
0.849370	26.3	9.000	L1	19.8	19.7	46.0
1.270710	24.5	9.000	L1	19.8	21.5	46.0
2.063370	21.1	9.000	L1	19.9	24.9	46.0

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)			
0.427490	44.9	9.000	N	19.8	12.4	57.3			
0.427610	44.6	9.000	N	19.8	12.7	57.3			
0.825790	32.7	9.000	N	19.8	23.3	56.0			
0.849310	38.1	9.000	N	19.8	17.9	56.0			
1.026610	28.9	9.000	N	19.8	27.1	56.0			
1.255250	29.8	9.000	N	19.8	26.2	56.0			

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.422000	36.1	9.000	N	19.8	11.3	47.4
0.434000	34.3	9.000	N	19.8	12.9	47.2
0.814000	24.6	9.000	N	19.8	21.4	46.0
0.846000	25.3	9.000	N	19.8	20.7	46.0
1.234000	26.0	9.000	N	19.8	20.0	46.0
1.250000	26.7	9.000	N	19.8	19.3	46.0

§15.205, §15.209, §15.247(d) & RSS-GEN § 8.10 & RSS-247 § 5.5 SPURIOUS EMISSIONS

Report No.: SZ1210623-24896EB

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

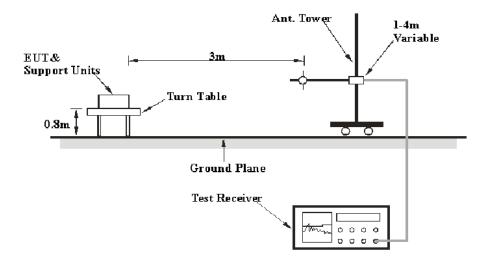
According to RSS-GEN § 8.10 & RSS-247 § 5.5

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:(a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).(b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 5 and table 6.

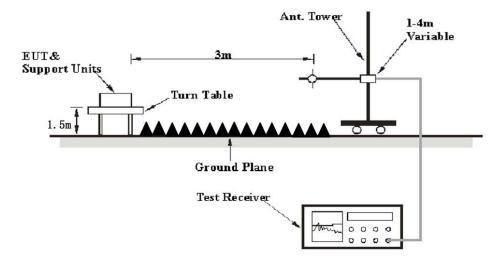
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either 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 test site, using the setup accordance with the ANSI C63.10-2013 & RSS-Gen. The specification used was the FCC 15.209, and FCC 15.247 & 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.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

ing configurations.							
Frequency Range	RBW	Video B/W	IF B/W	Measurement			
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP			
	1MHz	3 MHz	/	PK			
Above 1 GHz	1MHz	10 Hz Note 1	/	Average			
	1MHz	>1/T Note 2	/	Average			

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

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

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

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

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.

Repeat above procedures until all measured frequencies were complete.

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

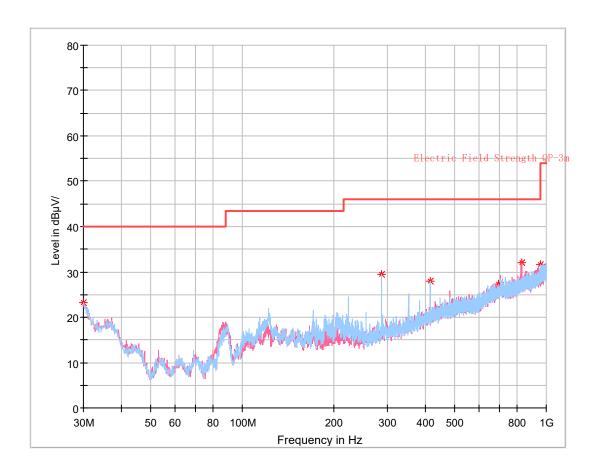
Environmental Conditions

Temperature:	26.8~27°C	
Relative Humidity:	51~56%	
ATM Pressure:	101.0kPa	

The testing was performed by Cloud Qiu on 2021-07-07 for below 1GHz and by Hanic Pan on 2021-07-10 for above 1GHz

EUT operation mode: Transmitting

30 MHz~1 GHz:



Report No.: SZ1210623-24896EB

Critical Freqs

Oriticai_i	icqs						
Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB)	(cm)		(deg)	(dB)
30.000000	23.16	40.00	16.84	300.0	Н	199.0	-3.5
288.020000	29.43	46.00	16.57	100.0	Н	334.0	-10.4
416.060000	28.04	46.00	17.96	100.0	Н	169.0	-6.8
697.845000	27.41	46.00	18.59	300.0	V	308.0	-1.5
830.007500	32.07	46.00	13.93	100.0	٧	0.0	-0.1
958.653750	31.51	46.00	14.49	300.0	Н	1.0	1.9

1 GHz-25 GHz:

BLE 1M:

Емадионац	Receiver		Tuuntahla	Rx Antenna		Corrected	Corrected	Limit	Maugin	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	(dBµV/m)	Margin (dB)	
Low Channel (2402 MHz)										
2312.35	28.69	PK	189	1.6	Н	31.64	60.33	74	13.67	
2312.35	15.47	Ave.	189	1.6	Н	31.64	47.11	54	6.89	
2495.24	29.27	PK	337	1.7	Н	32.13	61.40	74	12.60	
2495.24	15.76	Ave.	337	1.7	Н	32.13	47.89	54	6.11	
4804.00	45.68	PK	181	2.3	Н	6.28	51.96	74	22.04	
4804.00	35.26	Ave.	181	2.3	Н	6.28	41.54	54	12.46	
			Middle C	hannel ((2440 M	IHz)				
4880.00	44.57	PK	188	1.4	Н	6.76	51.33	74	22.67	
4880.00	33.76	Ave.	188	1.4	Н	6.76	40.52	54	13.48	
	High Channel (2480 MHz)									
2311.20	28.52	PK	92	1.4	Н	31.64	60.16	74	13.84	
2311.20	15.44	Ave.	92	1.4	Н	31.64	47.08	54	6.92	
2492.84	29.35	PK	233	1.4	Н	32.13	61.48	74	12.52	
2492.84	15.82	Ave.	233	1.4	Н	32.13	47.95	54	6.05	
4960.00	46.75	PK	6	1.5	Н	6.80	53.55	74	20.45	
4960.00	37.90	Ave.	6	1.5	Н	6.80	44.70	54	9.30	

BLE 2M:

Емодионом	Receiver		Tuuntahla	Rx An	tenna	Corrected	Corrected	Limit	Mongin	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	(dBµV/m)	Margin (dB)	
	Low Channel (2402 MHz)									
2388.45	28.71	PK	238	2.3	Н	31.87	60.58	74	13.42	
2388.45	15.54	Ave.	238	2.3	Н	31.87	47.41	54	6.59	
2496.33	29.37	PK	239	2.2	Н	32.13	61.50	74	12.50	
2496.33	16.03	Ave.	239	2.2	Н	32.13	48.16	54	5.84	
4804.00	46.98	PK	50	1.7	Н	6.28	53.26	74	20.74	
4804.00	32.01	Ave.	50	1.7	Н	6.28	38.29	54	15.71	
			Middle C	Channel	(2440 M	IHz)				
4880.00	44.07	PK	180	2.4	Н	6.76	50.83	74	23.17	
4880.00	32.15	Ave.	180	2.4	Н	6.76	38.91	54	15.09	
	High Channel (2480 MHz)									
2389.25	28.74	PK	56	1.2	Н	31.87	60.61	74	13.39	
2389.25	15.48	Ave.	56	1.2	Н	31.87	47.35	54	6.65	
2492.84	29.26	PK	200	1.9	Н	32.13	61.39	74	12.61	
2492.84	15.83	Ave.	200	1.9	Н	32.13	47.96	54	6.04	
4960.00	46.25	PK	109	1.5	Н	6.80	53.05	74	20.95	
4960.00	32.37	Ave.	109	1.5	Н	6.80	39.17	54	14.83	

Note:

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

Corrected Amplitude = Corrected Factor + Reading

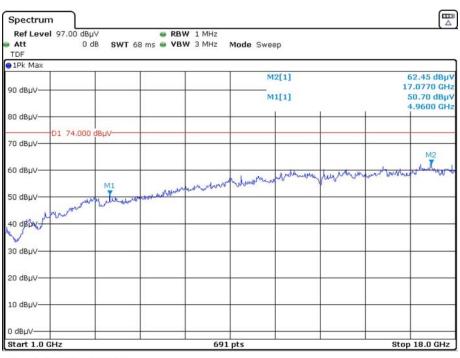
Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB below the limit or on the noise floor was not recorded.

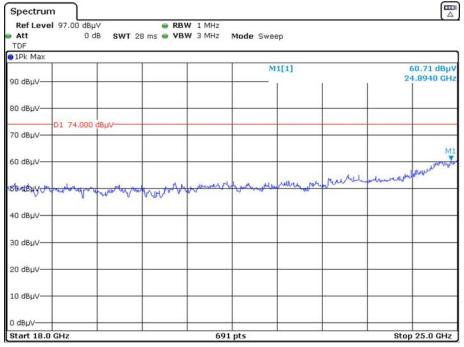
Pre-scan with BLE 1M High channel Peak

Report No.: SZ1210623-24896EB

Horizontal



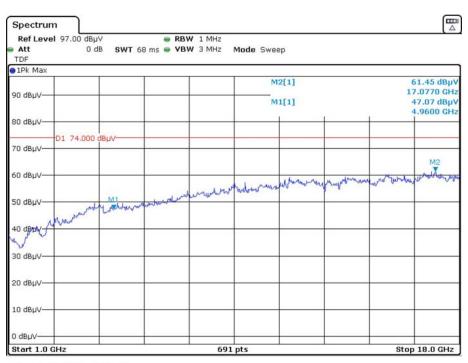
Date: 10.JUL.2021 09:36:27



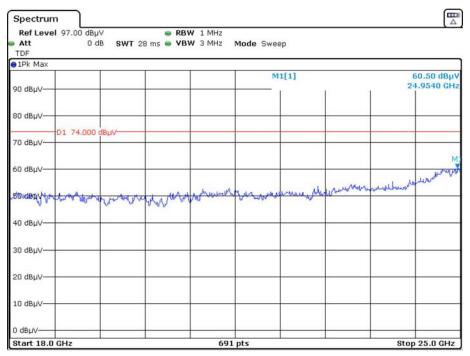
Date: 10.JUL.2021 10:21:07

Vertical

Report No.: SZ1210623-24896EB



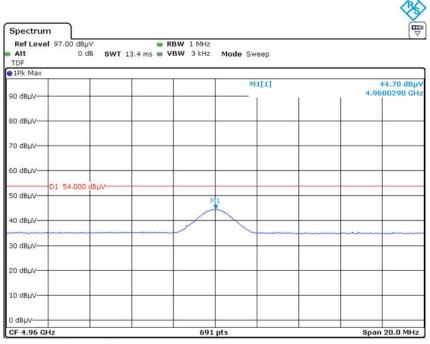
Date: 10.JUL.2021 09:45:42



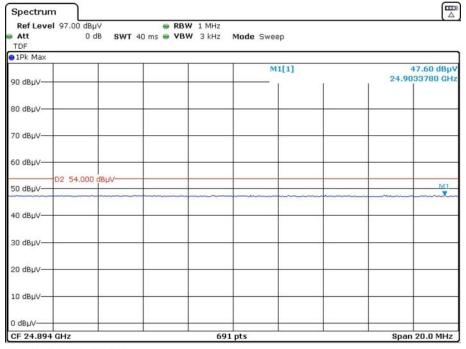
Date: 10.JUL.2021 10:30:17

Average Horizontal

Report No.: SZ1210623-24896EB



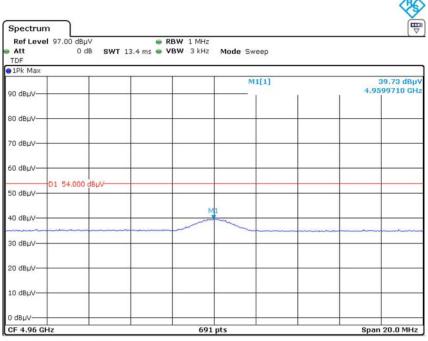
Date: 10.JUL.2021 09:41:39



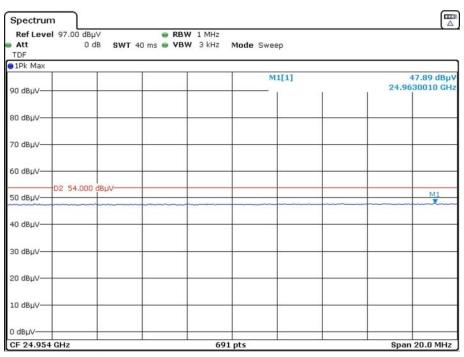
Date: 10.JUL.2021 10:25:29

Vertical

Report No.: SZ1210623-24896EB



Date: 10.JUL.2021 09:50:32



Date: 10.JUL.2021 10:35:48

§15.247 (a)(2) & RSS-Gen§6.7 RSS-247 § 5.2 (a) 99% OCCUPIED BANDWIDTH & 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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 "6 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 6 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 6 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 6 dB bandwidth:

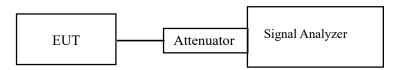
- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid 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 / 6 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 / 6 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

Report No.: SZ1210623-24896EB

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).



Test Data

Environmental Conditions

Temperature:	25 ℃		
Relative Humidity:	55 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Zero Yan on 2021-07-15.

EUT operation mode: Transmitting

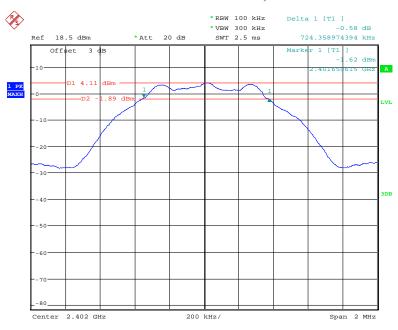
Test Result: Pass

Please refer to the following plots.

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Emission Bandwidth (MHz)	Limit (kHz)				
BLE 1M								
Low	2402	0.724	1.045	≥500				
Middle	2440	0.721	1.045	≥500				
High	2480	0.715	1.038	≥500				
BLE 2M								
Low	2402	1.279	2.088	≥500				
Middle	2440	1.282	2.088	≥500				
High	2480	1.281	2.088	≥500				

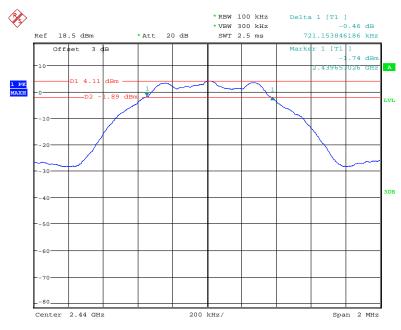
BLE 1M:

6 dB Emission Bandwidth, Low Channel



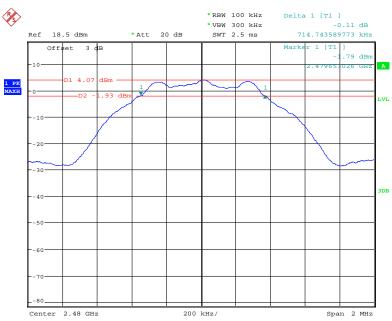
Date: 15.JUL.2021 11:11:16

6 dB Emission Bandwidth, Middle Channel



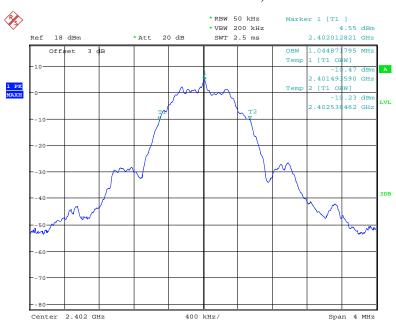
Date: 15.JUL.2021 11:13:10

6 dB Emission Bandwidth, High Channel



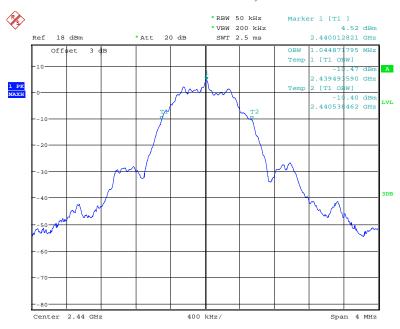
Date: 15.JUL.2021 11:14:47

99% Emission Bandwidth, Low Channel



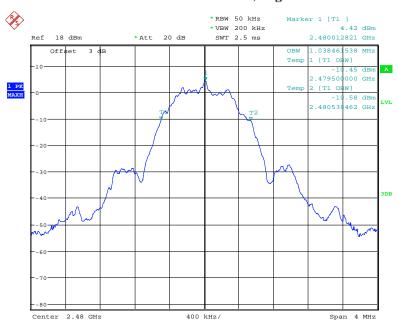
Date: 15.JUL.2021 11:38:45

99% Emission Bandwidth, Middle Channel



Date: 15.JUL.2021 11:40:09

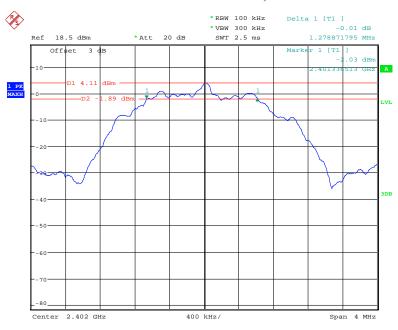
99% Emission Bandwidth, High Channel



Date: 15.JUL.2021 11:40:53

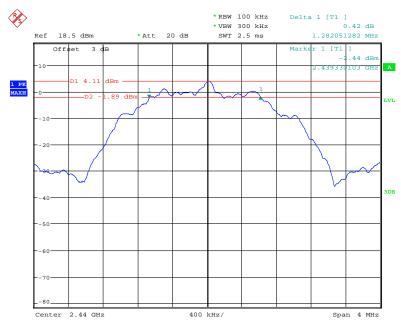
BLE 2M:

6 dB Emission Bandwidth, Low Channel



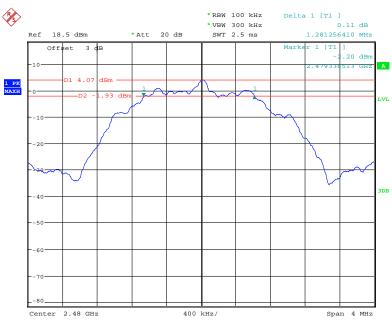
Date: 15.JUL.2021 11:20:51

6 dB Emission Bandwidth, Middle Channel



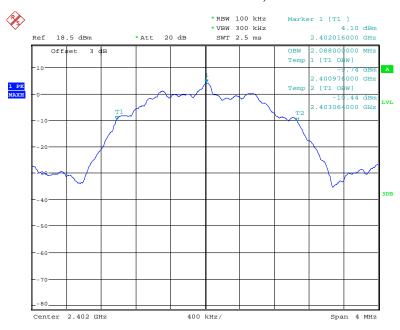
Date: 15.JUL.2021 11:19:45

6 dB Emission Bandwidth, High Channel



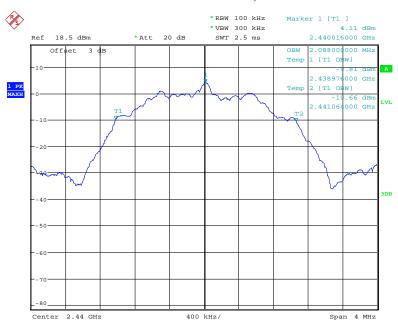
Date: 15.JUL.2021 11:18:19

99% Emission Bandwidth, Low Channel



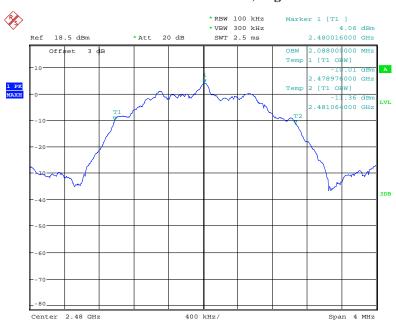
Date: 15.JUL.2021 11:28:27

99% Emission Bandwidth, Middle Channel



Date: 15.JUL.2021 11:29:53

99% Emission Bandwidth, High Channel



Date: 15.JUL.2021 11:30:39

§15.247(b)(3) & RSS-247 § 5.4(d) MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

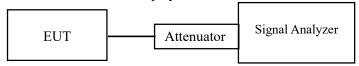
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it 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:	25 °C	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Zero Yan on 2021-07-15.

EUT operation mode: Transmitting

Test Result: Pass

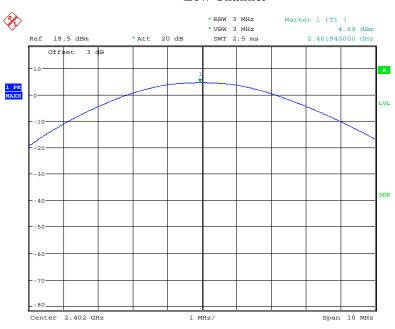
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	
BLE 1M				
Low	2402	4.69	30	
Middle	2440	4.72	30	
High	2480	4.69	30	
BLE 2M				
Low	2402	4.71	30	
Middle	2440	4.74	30	
High	2480	4.69	30	

Note: the antenna gain is 0.5dBi, the maximum EIRP=4.74dBm+0.5dBi=5.24dBm<36dBm, so it's compliance with ISEDC EIRP limit.

BLE 1M:

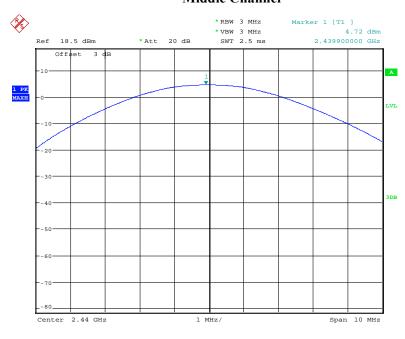
Low Channel

Report No.: SZ1210623-24896EB



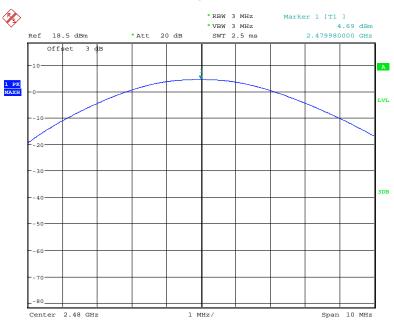
Date: 15.JUL.2021 10:49:56

Middle Channel



Date: 15.JUL.2021 10:48:40

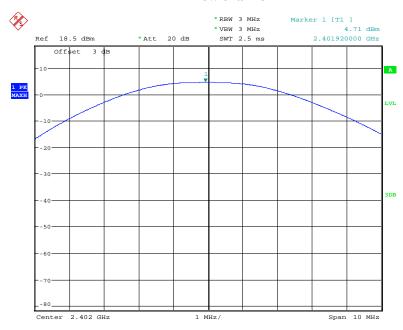
High Channel



Date: 15.JUL.2021 10:46:44

BLE 2M:

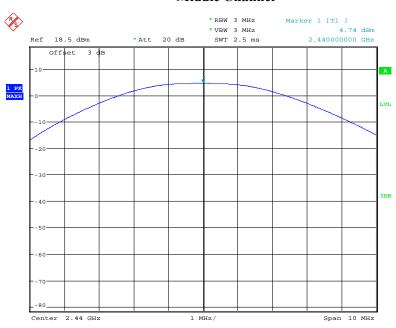
Low channel



Date: 15.JUL.2021 10:50:39

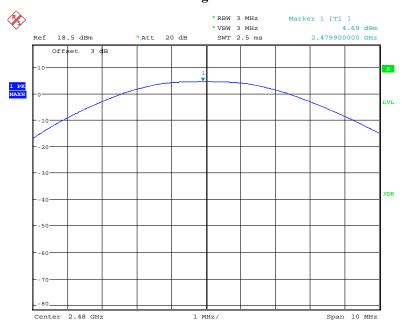
Middle Channel

Report No.: SZ1210623-24896EB



Date: 15.JUL.2021 10:51:30

High Channel



Date: 15.JUL.2021 10:52:07

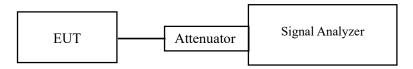
§ 15.247(d) & RSS-247 § 5.5 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

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)).

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 its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 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:	25 °C	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Zero Yan on 2021-07-15.

EUT operation mode: Transmitting

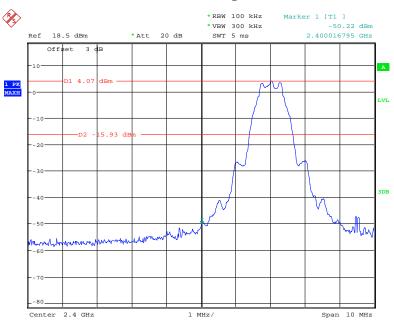
Test Result: Pass

Please refer to the following plots.

BLE 1M:

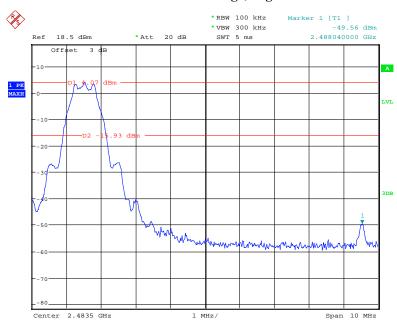
BLE: Band Edge, Left Side

Report No.: SZ1210623-24896EB



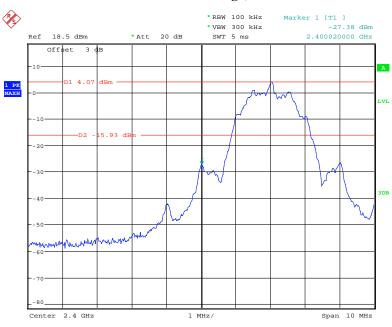
Date: 15.JUL.2021 11:46:35

BLE: Band Edge, Right Side



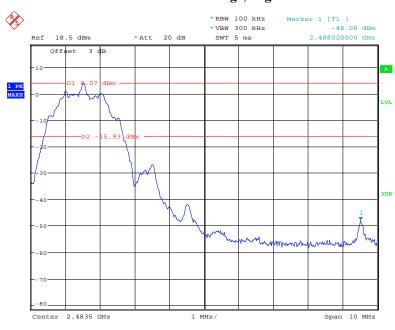
Date: 15.JUL.2021 11:47:15

BLE: Band Edge, Left Side



Date: 15.JUL.2021 11:45:09

BLE: Band Edge, Right Side



Date: 15.JUL.2021 11:43:47

§15.247(e) & RSS-247 § 5.2 (b) POWER SPECTRAL DENSITY

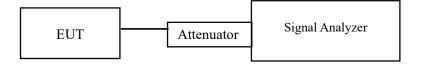
Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: 3kHz≤ RBW≤100 kHz.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Zero Yan on 2021-07-15.

EUT operation mode: Transmitting

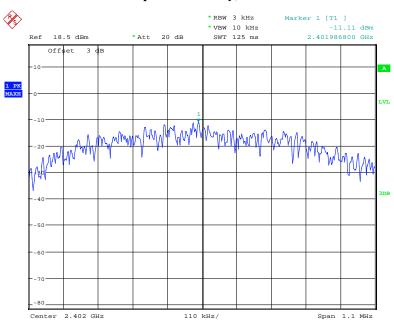
Test Result: Pass

Please refer to the following plots.

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)		
BLE 1M					
Low	2402	-11.11	≤8		
Middle	2440	-10.95	≤8		
High	2480	-10.99	≤8		
BLE 2M					
Low	2402	-13.76	≤8		
Middle	2440	-13.80	≤8		
High	2480	-13.77	≤8		

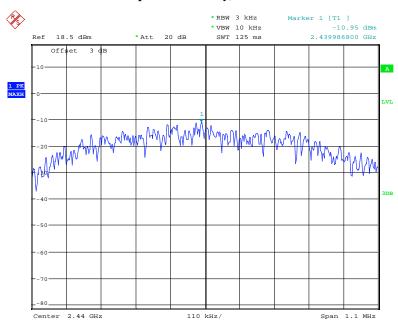
BLE 1M:

Power Spectral Density, BLE Low Channel



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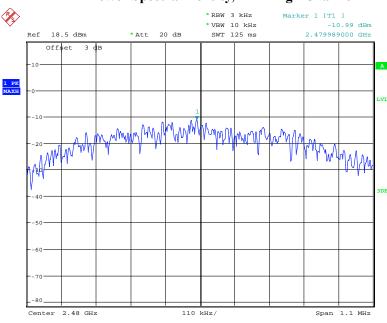
Power Spectral Density, BLE Middle Channel



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Power Spectral Density, BLE High Channel

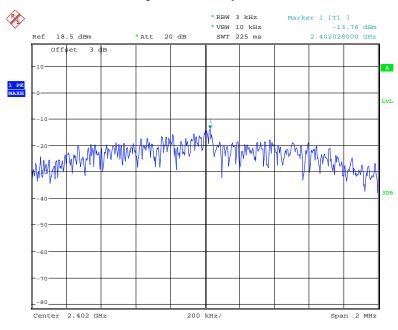
Report No.: SZ1210623-24896EB



Date: 15.JUL.2021 11:04:01

2M:

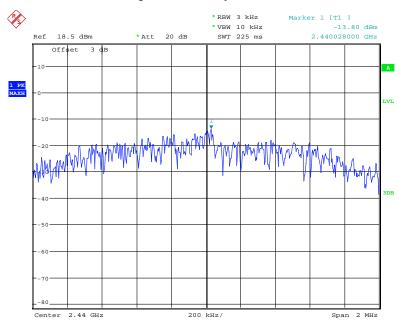
Power Spectral Density, BLE Low Channel



Date: 15.JUL.2021 11:38:34

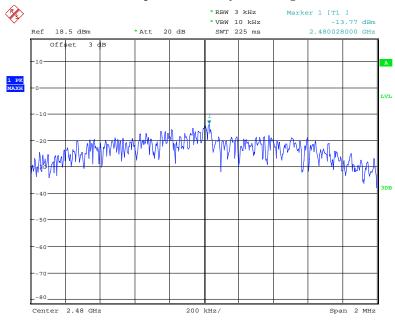
Power Spectral Density, BLE Middle Channel

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Date: 15.JUL.2021 11:40:38

Power Spectral Density, BLE High Channel



Date: 15.JUL.2021 11:41:35

***** END OF REPORT *****