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TEST REPORT

For

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Robot Vacuum Cleaner
Tested Model	L20
Multiple Model	D7, LB20MQ, D7Q, LB20T, D7S, D7U, D7V, L20S, L20U, L20V
Model Differences	Refer to the DoS letter
HVIN	L20
Frequency Range	Wi-Fi: 2412~2472MHz
Maximum Conducted Peak Output Power	13.94dBm(802.11b), 16.49dBm(802.11g), 14.50dBm(802.11n-HT20)
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	2.0dBi (It is provided by the applicant)
Voltage Range	DC 14.4V or DC 14.6V from battery or DC 24V from adapter
Date of Test	2021-04-10 to 2021-06-09
Sample serial number	SZ4210401-09429E-EM-S_20K (Assigned by BACL, Shenzhen)
Received date	2021-04-01
Sample/EUT Status	Good condition
Adapter 1 information	Model: AS2401A-2401000US Input: 100-240V, 50/60Hz, 0.8A MAX Output: DC 24.0V, 1000mA
Adapter 2 information	Model:KA2401A-2401000US Input: 100-240V, 50/60Hz, 0.65A MAX Output: DC 24.0V, 1000mA

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 Compliance 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 Compliance 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.

Parameter		Uncertainty	
Occupied Channel Bandwidth		±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	
Temp	erature	±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 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 802.11b, 802.11g and 802.11n-HT20 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

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For 802.11b, 802.11g, 802.11n-HT20, EUT was tested with Channel 1, 7, 12 and 13.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"WifiTool" software* was use to the EUT tested. The device was tested with the worst case was performed as below:

		Power level*			
Mode	Data rate	Low channel	Middle channel	High channel (2467MHz)	High channel (2472MHz)
802.11b	1 Mbps	31	31	/	31
802.11g	6 Mbps	48	48	48	30
802.11n-HT20	MCS0	48	48	48	35

Note: the software and power level was provided by the applicant.

Duty cycle

Test Result: Pass. Please refer to the Appendix.

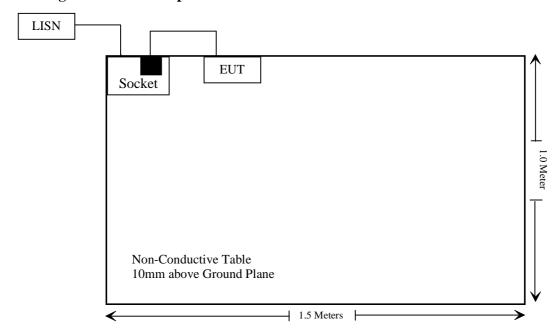
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	То
/	1	/	/

Block Diagram of Test Setup



FCC Rules	RSS-247 & RSS-Gen Rules	Description of Test	Result
§15.247 (i), §2.1091	RSS-102 § 2.5.2	Maximum Permissible Exposure(MPE) & Exemption Limits for Routine Evaluation – RF Exposure Evaluation	Compliant
§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

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Note: EUT has two optional battery supply, the model CMICR18650F9M-4S1P (3000mAh 14.4V 43.2Wh) and model D058-IN-32E-4S1P (3000mAh 14.6V 43.8Wh), detail refer to EUT photo, for the EUT has a voltage regulator chip: ME6118A33B3G, although two optional battery has difference output voltage, but the voltage supply to circuit is same after voltage regulate by the chip, so only one battery was test. For AC Line Conducted Emissions and Spurious Emissions, pre-scan with the two batteries separately, the worst case use battery D058-IN-32E-4S1P was recorded.

Manufacturer	anufacturer Description		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	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	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	
MICRO-TRONICS	Passband filter	HPM50111	F-19-EM006	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).

FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)		
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	$*(180/f^2)$	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4pR^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Antenna Gain		Tune up conducted power		Evaluation Distance	Power Density	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	$(cm) \qquad (mW/cm^2)$	(mW/cm ²)	
2412-2472	2.0	1.58	17.0	50.12	20	0.016	1

Note: 1. The tune up conducted power was declared by the applicant

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Pass

RSS-102 § 2.5.2 –EXEMPTION LIMITS FOR ROUTINE EVALUATION-RF EXPOSURE EVALUATION

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Applicable Standard

According to RSS-102 § (2.5.2):

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz; at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance). In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Calculated Data:

The max tune-up conducted output power is 17.0 dBm, antenna gain is 2.0dBi. The maximum e.i.r.p. of the device is 17.0dBm + 2.0dBi = 19.0dBm = 0.079 W<2.68W

The worst case is f = 2412 MHz: The limit is $1.31 \times 10^{-2} f^{0.6834} \text{ W} = 2.68 \text{W}$

So the RF Exposure 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 Wi-Fi which was permanently attached and the antenna gain is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

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Туре	Antenna Gain	Impedance
РСВ	2.0dBi	50 Ω

Result: Compliance

§ 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.

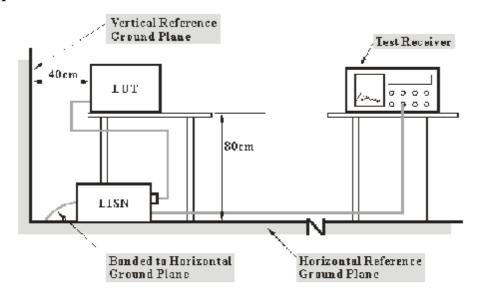
Table 4 - AC Power Lines Conducted Emission Limits						
Frequency range	Conducted limit (dBµV)					
(MHz)	Quasi-Peak	Average				
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹				
0.5 - 5	56	46				
5 – 30	60	50				

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 EUI 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:

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Margin = Limit - Corrected Amplitude

Test Data

Environmental Conditions

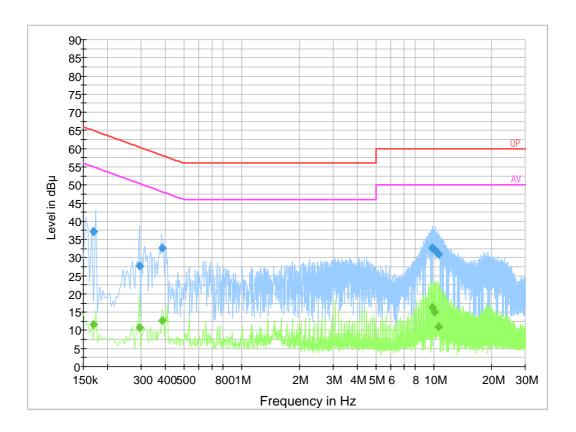
Temperature:	25 °C		
Relative Humidity:	65 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Haiguo Li from 2021-05-04 to 2021-06-09.

EUT operation mode: Transmitting

For Adapter 1 Model: AS2401A-2401000US

AC 120V/60 Hz, Line

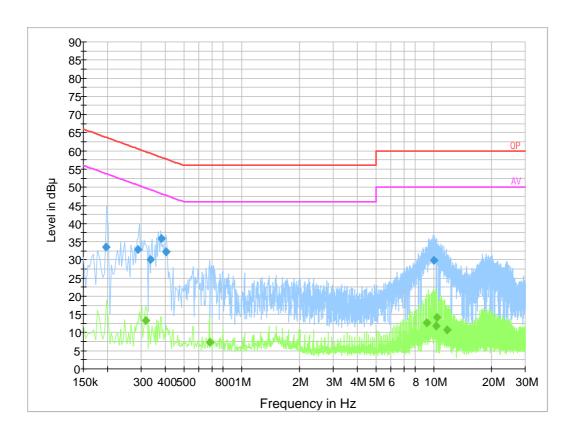


Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.169500	37.1	9.000	L1	19.9	27.9	65.0
0.293500	27.6	9.000	L1	19.7	32.8	60.4
0.387730	32.5	9.000	L1	19.9	25.6	58.1
9.817950	32.7	9.000	L1	20.0	27.3	60.0
10.172550	32.2	9.000	L1	20.0	27.8	60.0
10.620230	30.9	9.000	L1	20.0	29.1	60.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.169500	11.5	9.000	L1	19.9	43.5	55.0
0.293500	10.7	9.000	L1	19.7	39.7	50.4
0.387730	12.6	9.000	L1	19.9	35.5	48.1
9.817950	16.3	9.000	L1	20.0	33.7	50.0
10.172550	15.1	9.000	L1	20.0	34.9	50.0
10.620230	11.0	9.000	L1	20.0	39.0	50.0



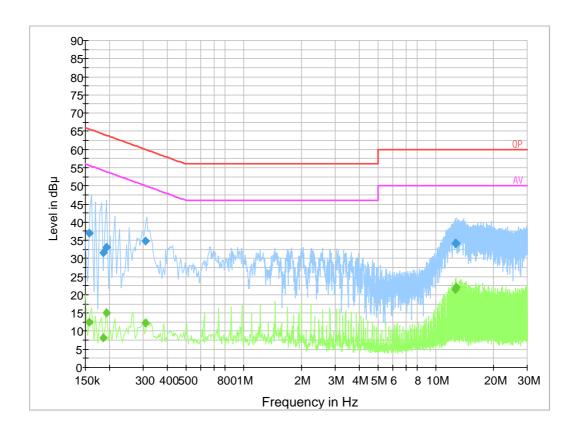
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.197500	33.5	9.000	N	19.8	30.2	63.7
0.289500	32.9	9.000	N	19.7	27.6	60.5
0.336870	30.1	9.000	N	19.8	29.2	59.3
0.383670	36.0	9.000	N	19.8	22.2	58.2
0.403910	32.3	9.000	N	19.8	25.5	57.8
10.060390	29.9	9.000	N	20.0	30.1	60.0

Final Result 2

	-					
Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.318000	13.3	9.000	N	19.7	36.5	49.8
0.682000	7.3	9.000	N	19.8	38.7	46.0
9.258000	12.7	9.000	N	19.9	37.3	50.0
10.334000	11.9	9.000	N	20.0	38.1	50.0
10.454000	14.1	9.000	N	20.0	35.9	50.0
11.766000	10.8	9.000	N	20.0	39.2	50.0

AC 120V/60 Hz, Line



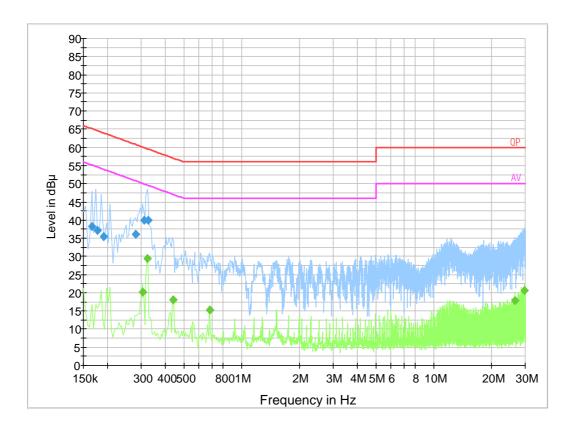
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	36.9	9.000	L1	19.8	28.7	65.6
0.186500	31.6	9.000	L1	19.8	32.6	64.2
0.193500	33.1	9.000	L1	19.8	30.8	63.9
0.309290	34.9	9.000	L1	19.7	25.1	60.0
12.711470	34.2	9.000	L1	20.0	25.8	60.0
12.771870	34.2	9.000	L1	20.0	25.8	60.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	12.5	9.000	L1	19.8	43.1	55.6
0.186500	8.1	9.000	L1	19.8	46.1	54.2
0.193500	14.9	9.000	L1	19.8	39.0	53.9
0.309290	12.3	9.000	L1	19.7	37.7	50.0
12.711470	21.5	9.000	L1	20.0	28.5	50.0
12.771870	22.0	9.000	L1	20.0	28.0	50.0

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)
0.165500	38.2	9.000	N	19.8	27.0	65.2
0.177500	37.2	9.000	N	19.8	27.4	64.6
0.190501	35.4	9.000	N	19.8	28.6	64.0
0.281500	36.1	9.000	N	19.7	24.7	60.8
0.310590	40.0	9.000	N	19.7	20.0	60.0
0.325170	39.9	9.000	N	19.8	19.7	59.6

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.306000	20.1	9.000	N	19.7	30.0	50.1
0.322000	29.5	9.000	N	19.8	20.2	49.7
0.442000	18.1	9.000	N	19.8	28.9	47.0
0.682000	15.3	9.000	N	19.8	30.7	46.0
26.662000	17.7	9.000	N	20.2	32.3	50.0
29.650000	20.6	9.000	N	20.1	29.4	50.0

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

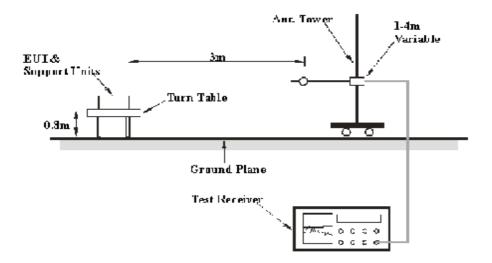
According to RSS-GEN § 8.10 & RSS-247 § 5.5

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.

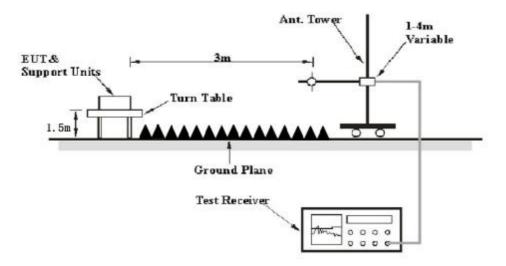
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either 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:

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.

Report No.: SZ4210401-09429E-RF

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

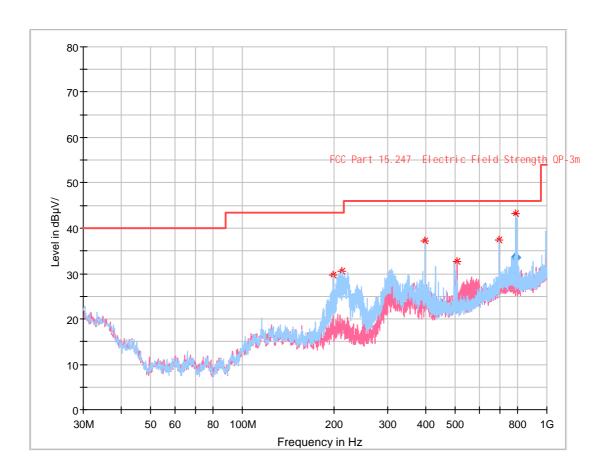
Environmental Conditions

Temperature:	28~28.1 °C
Relative Humidity:	44~58 %
ATM Pressure:	101.0kPa

The testing was performed by Harris He on 2021-05-08 for below 1GHz and by Troy Wang on 2021-04-21 for above 1GHz

EUT operation mode: Wi-Fi transmitting

30 MHz~1 GHz: (worst case at 802.11g mode, middle channel)



Final Result

_							
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
792.166250	33.47	46.00	12.53	267.0	Н	336.0	-0.5

Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
198.901250	29.74	43.50	13.76	200.0	Н	347.0	-11.2
212.845000	30.51	43.50	12.99	200.0	Н	124.0	-11.3
397.872500	37.16	46.00	8.84	200.0	V	286.0	-7.4
508.816250	32.67	46.00	13.33	100.0	V	125.0	-5.0
696.390000	37.33	46.00	8.67	200.0	Н	269.0	-1.6

Note: the QP measurement will not performed when the peak value was more than 6dB lower than limit.

1 GHz-25 GHz:

802.11b Mode:

Fragueney	Re	eceiver	Turntable	Rx An	tenna	Corrected	Corrected	Limit	Margin
Frequency (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	2412 MI	Hz)			
2384.86	28.97	PK	313	2.0	Н	31.87	60.84	74	13.16
2384.86	15.34	Ave.	313	2.0	Н	31.87	47.21	54	6.79
2488.31	29.04	PK	266	2.3	Н	32.13	61.17	74	12.83
2488.31	14.62	Ave.	266	2.3	Н	32.13	46.75	54	7.25
4824.00	52.37	PK	124	1.3	Н	6.28	58.65	74	15.35
4824.00	44.34	Ave.	124	1.3	Н	6.28	50.62	54	3.38
			Middle (Channel	(2442M	(Hz)			
4884.00	52.45	PK	331	1.0	Н	6.76	59.21	74	14.79
4884.00	43.37	Ave.	331	1.0	Н	6.76	50.13	54	3.87
			High Ch	nannel (2	2472 MI	Hz)			
2381.72	28.12	PK	275	1.5	Н	31.87	59.99	74	14.01
2381.72	14.71	Ave.	275	1.5	Н	31.87	46.58	54	7.42
2483.52	37.35	PK	90	1.3	Н	32.13	69.48	74	4.52
2483.52	15.51	Ave.	90	1.3	Н	32.13	47.64	54	6.36
4944.00	54.07	PK	236	1.8	Н	6.76	60.83	74	13.17
4944.00	43.64	Ave.	236	1.8	Н	6.76	50.40	54	3.60

802.11g Mode:

Enggranar	Re	eceiver	Tumtabla	Rx Ar	itenna	Corrected	Corrected	Limit	Margin
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
			Low Ch	annel (2	2412 MI	Hz)			
2380.54	28.53	PK	100	1.4	Н	31.87	60.40	74	13.60
2380.54	16.43	Ave.	100	1.4	Н	31.87	48.30	54	5.70
2486.52	28.14	PK	322	1.4	Н	32.13	60.27	74	13.73
2486.52	16.21	Ave.	322	1.4	Н	32.13	48.34	54	5.66
4824.00	51.23	PK	194	1.7	Н	6.28	57.51	74	16.49
4824.00	37.54	Ave.	194	1.7	Н	6.28	43.82	54	10.18
			Middle C	Channel	(2442 N	MHz)			
4884.00	50.78	PK	3	1.3	Н	6.76	57.54	74	16.46
4884.00	35.87	Ave.	3	1.3	Н	6.76	42.63	54	11.37
			High Ch	nannel (2	2467 M	Hz)			
2387.16	28.34	PK	175	2.4	Н	31.87	60.21	74	13.79
2387.16	16.15	AV	175	2.4	Н	31.87	48.02	54	5.98
2484.20	38.71	PK	175	1.8	Н	32.13	70.84	74	3.16
2484.20	20.08	AV	175	1.8	Н	32.13	52.21	54	1.79
4934.00	43.28	PK	202	2.3	Н	6.76	50.04	74	23.96
4934.00	31.34	AV	202	2.3	Н	6.76	38.10	54	15.90
			High Cl	hannel(2	2472 MI	Hz)			
2381.57	28.06	PK	101	2.1	Н	31.87	59.93	74	14.07
2381.57	16.13	Ave.	101	2.1	Н	31.87	48.00	54	6.00
2486.65	37.09	PK	172	2.1	Н	32.13	69.22	74	4.78
2486.65	18.74	Ave.	172	2.1	Н	32.13	50.87	54	3.13
4944.00	43.44	PK	251	1.4	Н	6.76	50.20	74	23.80
4944.00	31.06	Ave.	251	1.4	Н	6.76	37.82	54	16.18

802.11n-HT20 Mode:

E	Re	eceiver	T4- b.l.	Rx An	tenna	Corrected	Corrected	T ::4	Manain	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	Low Channel (2412 MHz)									
2388.56	28.14	PK	184	2.4	Н	31.87	60.01	74	13.99	
2388.56	15.96	Ave.	184	2.4	Н	31.87	47.83	54	6.17	
2487.14	28.07	PK	195	2.0	Н	32.13	60.20	74	13.80	
2487.14	15.61	Ave.	195	2.0	Н	32.13	47.74	54	6.26	
4824.00	49.19	PK	13	2.1	Н	6.28	55.47	74	18.53	
4824.00	36.94	Ave.	13	2.1	Н	6.28	43.22	54	10.78	
			Middle C	hannel	(2442 M	IHz)				
4884.00	51.59	PK	61	1.4	Н	6.76	58.35	74	15.65	
4884.00	39.66	Ave.	61	1.4	Н	6.76	46.42	54	7.58	
			High Cl	nannel(2	467 MI	Hz)				
2325.42	28.34	PK	342	1.9	Н	31.64	59.98	74	14.02	
2325.42	15.97	Ave.	342	1.9	Н	31.64	47.61	54	6.39	
2483.67	37.19	PK	32	2.1	Н	32.13	69.32	74	4.68	
2483.67	18.75	Ave.	32	2.1	Н	32.13	50.88	54	3.12	
4934.00	50.34	PK	98	1.7	Н	6.76	57.10	74	16.90	
4934.00	37.82	Ave.	98	1.7	Н	6.76	44.58	54	9.42	
			High Ch	nannel (2	2472 MI	Hz)				
2381.57	28.02	PK	246	1.4	Н	31.87	59.89	74	14.11	
2381.57	15.91	Ave.	246	1.4	Н	31.87	47.78	54	6.22	
2486.65	37.77	PK	29	2.4	Н	32.13	69.90	74	4.10	
2486.65	18.43	Ave.	29	2.4	Н	32.13	50.56	54	3.44	
4944.00	48.04	PK	65	2.3	Н	6.76	54.80	74	19.20	
4944.00	35.53	Ave.	65	2.3	Н	6.76	42.29	54	11.71	

Note:

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

 $Corrected\ Amplitude = Corrected\ Factor + Reading$

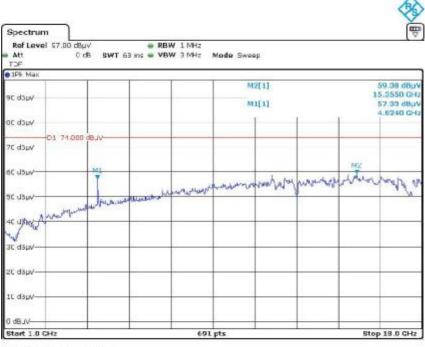
 $Margin = Limit - Corrected. \ Amplitude$

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

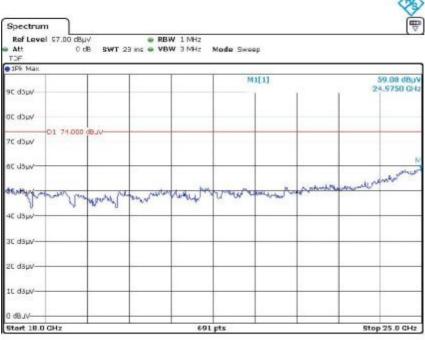
Pre-scan with low channel in 802.11b mode

Report No.: SZ4210401-09429E-RF

Horizontal



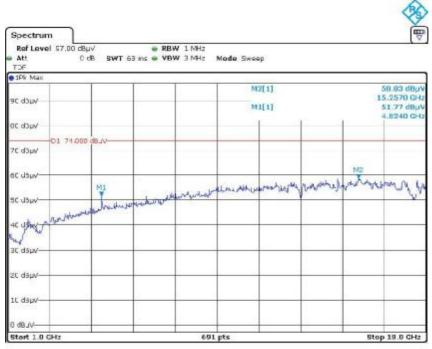
Date: 21.APE.2021 10:00:21



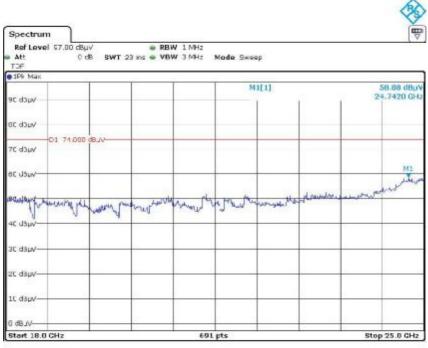
Date: 21.APE.2021 10:51:40

Vertical

Report No.: SZ4210401-09429E-RF

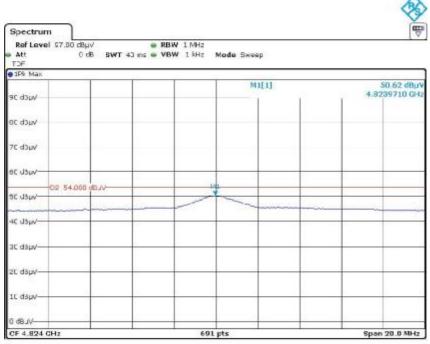


Date: 21.APE.2021 15:11:02

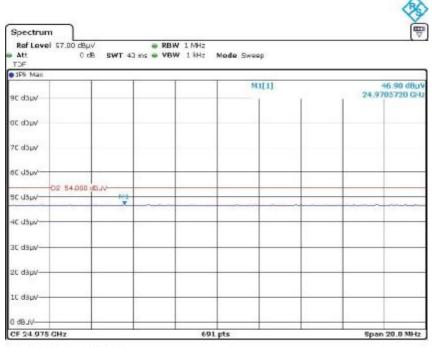


Average Horizontal

Report No.: SZ4210401-09429E-RF



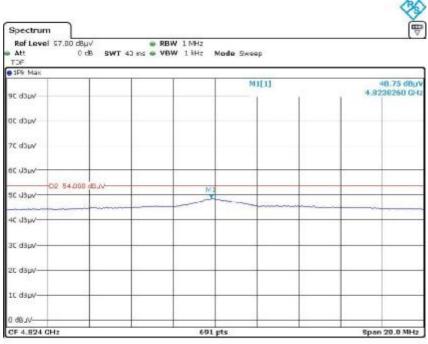
Date: 21.APE.2021 10:05:06



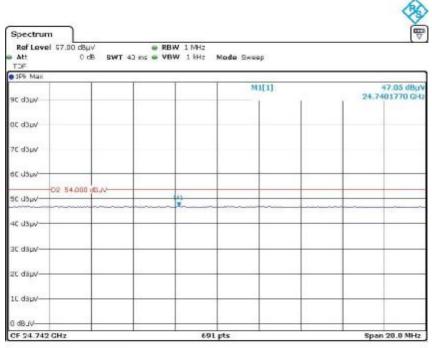
Date: 21.APE.2021 10:56:61

Vertical

Report No.: SZ4210401-09429E-RF



Date: 21.APE.2021 10:10:14



Date: 21.APE.2021 17:05:55

§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.

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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.

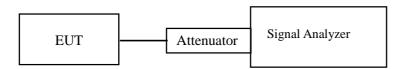
The following conditions shall be observed for measuring the occupied bandwidth and 6 dB bandwidth:

- 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

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:	27 ℃
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-04-10 to 2021-06-02.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

$\S15.247(b)(3)$ & RSS-247 \S 5.4(d) MAXIMUM CONDUCTED OUTPUT POWER

Report No.: SZ4210401-09429E-RF

Applicable Standard

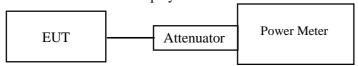
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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:	27 ℃
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-04-10 to 2021-06-02.

Report No.: SZ4210401-09429E-RF

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

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

Report No.: SZ4210401-09429E-RF

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:	27 ℃
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-04-10 to 2021-06-02.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

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

Applicable Standard

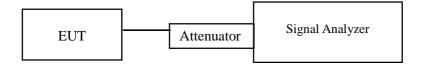
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

Report No.: SZ4210401-09429E-RF

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: $3kHz \le RBW \le 100 kHz$.
- 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:	27 ℃
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-04-10 and 2021-06-02.

Report No.: SZ4210401-09429E-RF

EUT operation mode: Transmitting

Test Result: Pass

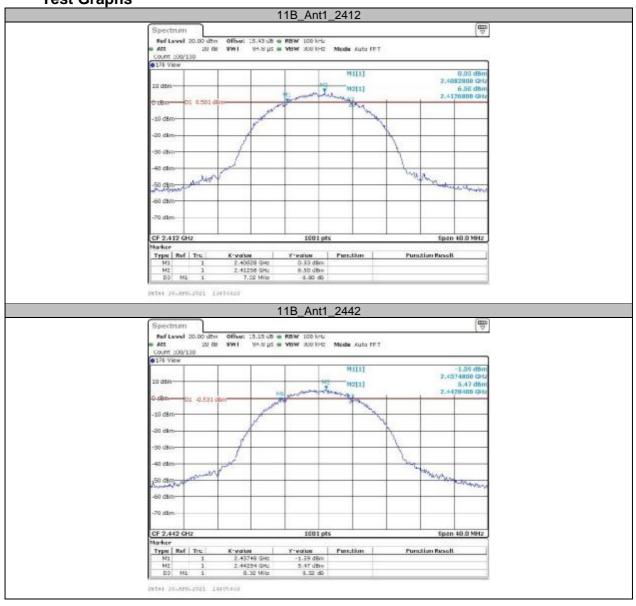
Please refer to the Appendix.

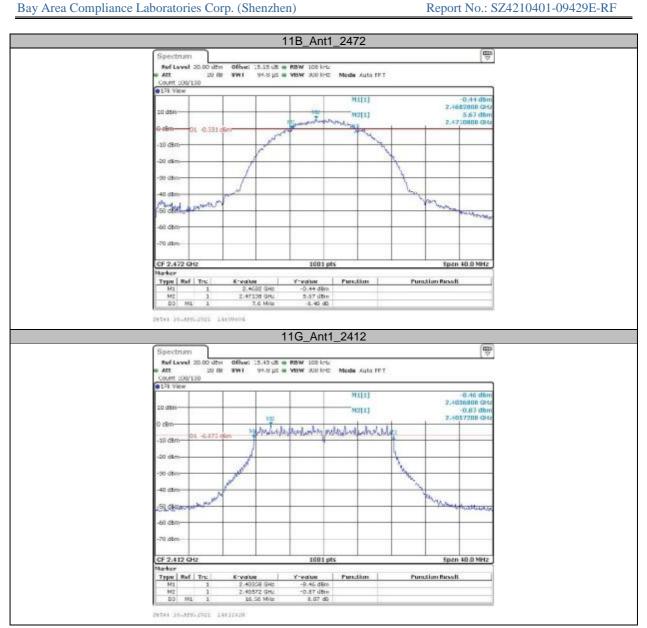
APPENDIX

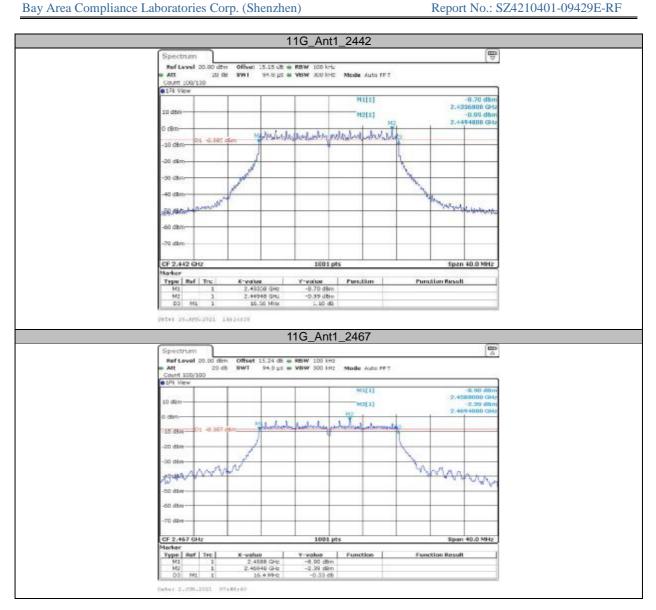
Appendix A: DTS Bandwidth Test Result

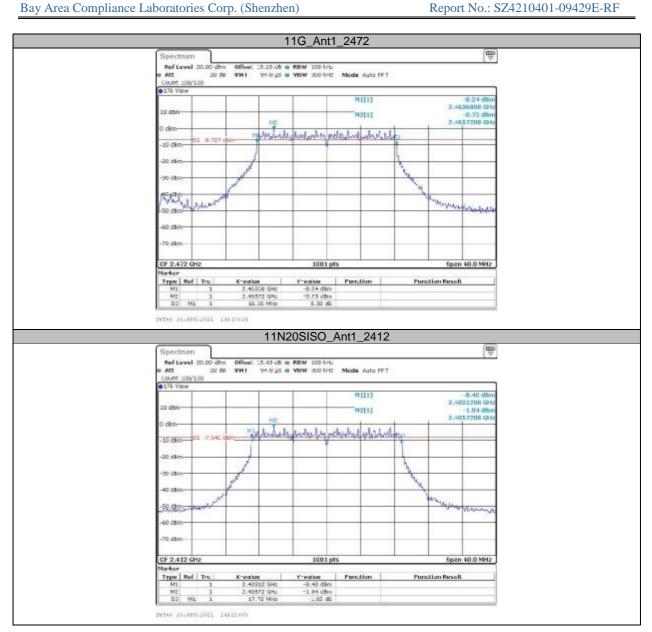
TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
		2412	7.520	0.5	PASS
11B	Ant1	2442	8.320	0.5	PASS
		2472	7.600	0.5	PASS
		2412	16.560	0.5	PASS
11G	Ant1	2442	16.560	0.5	PASS
116		2467	16.400	0.5	PASS
		2472	16.560	0.5	PASS
		2412	17.720	0.5	PASS
11N20SISO	Ant1	2442	17.720	0.5	PASS
1111/203130	Anti	2467	17.640	0.5	PASS
		2472	17.720	0.5	PASS

Test Graphs

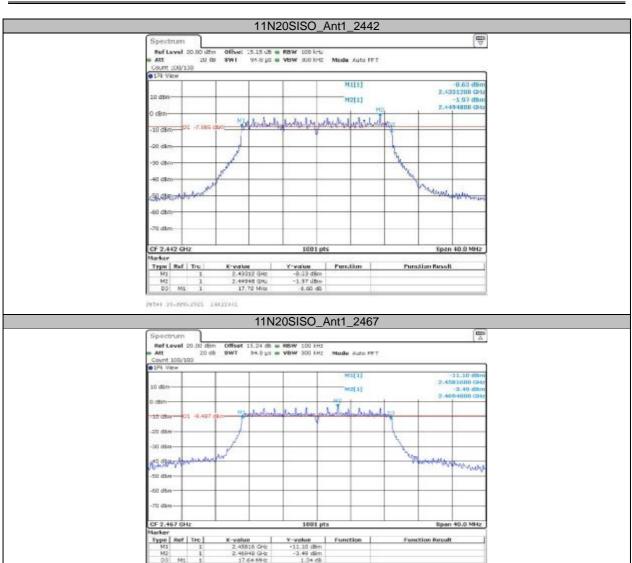




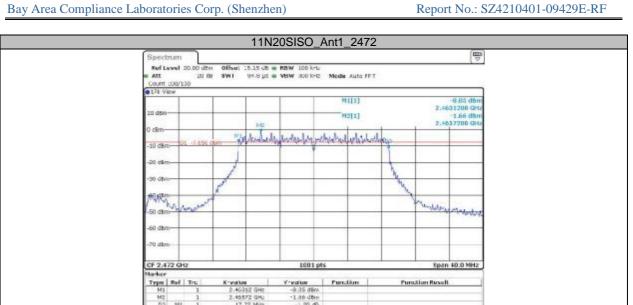




Date: 2,500,2021 07;50:45

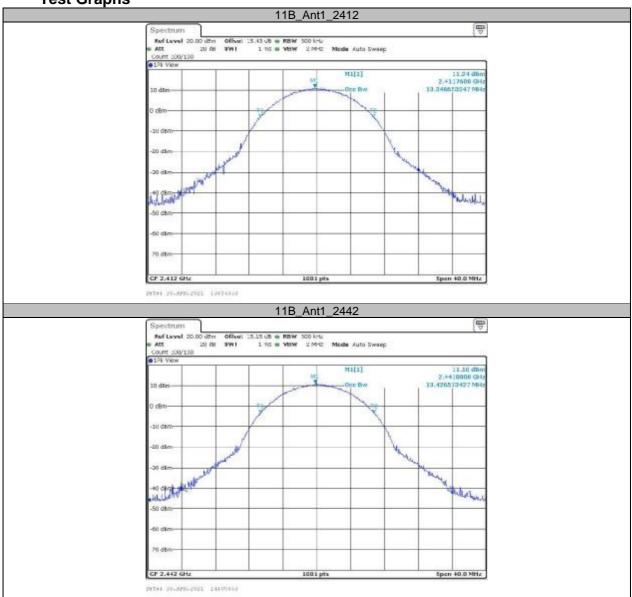


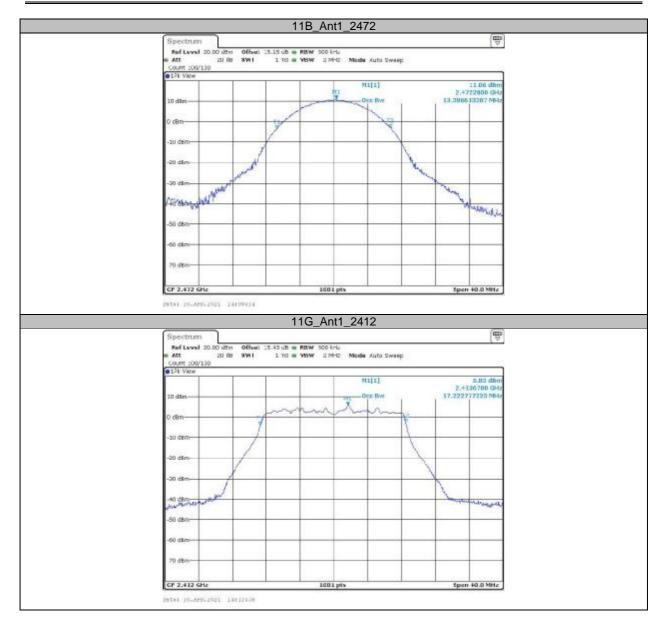
Date: 10-9505581 18150100

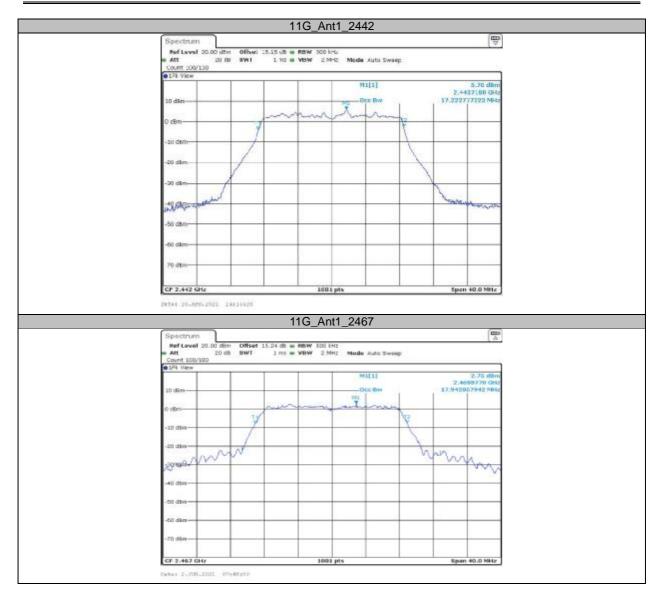


10311103	ait				
TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
		2412	13.347		PASS
11B	Ant1	2442	13.427		PASS
		2472	13.387		PASS
		2412	17.223		PASS
11G	Ant1	2442	17.223		PASS
116	Anti	2467	17.942		PASS
		2472	17.223		PASS
		2412	18.022		PASS
11N20SISO	A m44	2442	18.022		PASS
1111/205150	SISO Ant1	2467	18.581		PASS
		2472	18.062		PASS



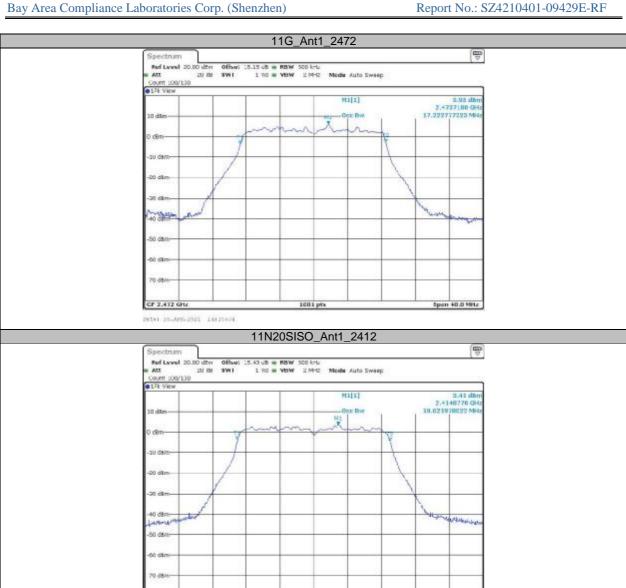






GF 2,412 GHz

Dage: 10-950-5057 | 14151112



1001 pts

Span 40.0 MHz

Date: 2,759,2021 07:50:55





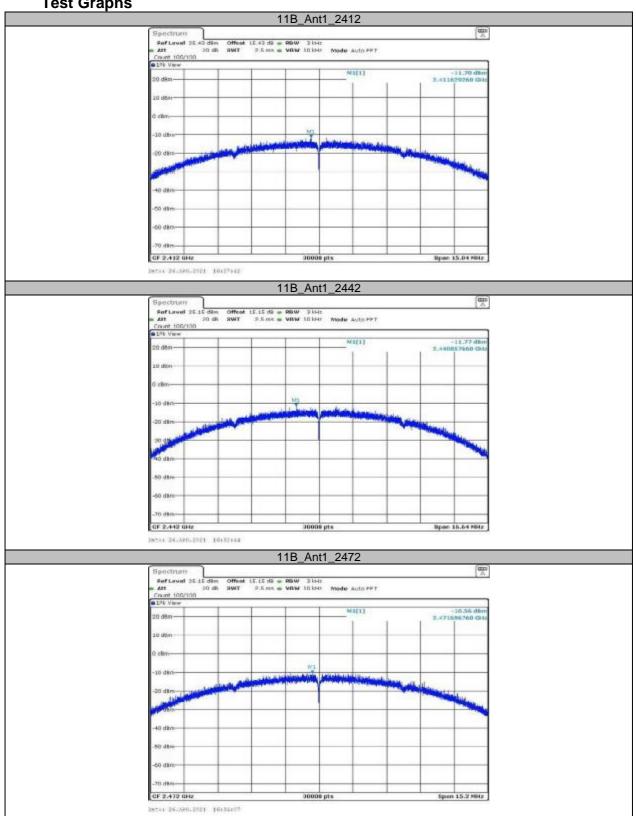
Appendix C: Maximum conducted peak output power Test Result

Test Nesult						
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict	
	Ant1	2412	13.45	<=30	PASS	
11B		2442	13.94	<=30	PASS	
		2472	13.10	<=30	PASS	
	Ant1	2412	15.96	<=30	PASS	
11G		2442	16.49	<=30	PASS	
IIG		2467	15.56	<=30	PASS	
		2472	11.43	<=30	PASS	
	Ant1	2412	13.97	<=30	PASS	
1111000100		2442	14.50	<=30	PASS	
11N20SISO		2467	13.79	<=30	PASS	
		2472	12.68	<=30	PASS	

Note: the antenna gain is 2dBi, the maximum conducted output power is 16.49dBm, the maximum EIRP is 16.49dBm+2dBi=18.49dBm<36dBm, so it's compliance with ISEDC limit.

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	Ant1	2412	-11.70	<=8	PASS
11B		2442	-11.77	<=8	PASS
		2472	-10.56	<=8	PASS
	11G Ant1	2412	-15.64	<=8	PASS
110		2442	-15.70	<=8	PASS
116		2467	-17.28	<=8	PASS
		2472	-20.10	<=8	PASS
		2412	-16.84	<=8	PASS
14N000100	A = #4	2442	-16.58	<=8	PASS
11N20SISO	Ant1	2467	-17.73	<=8	PASS
		2472	-19.98	<=8	PASS

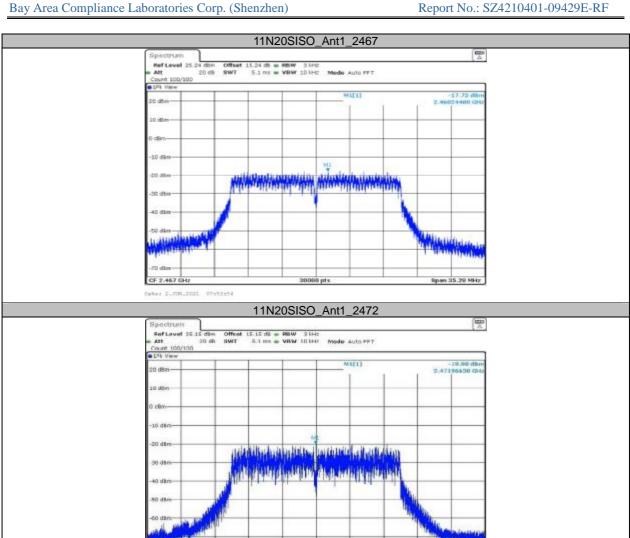


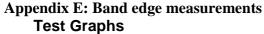


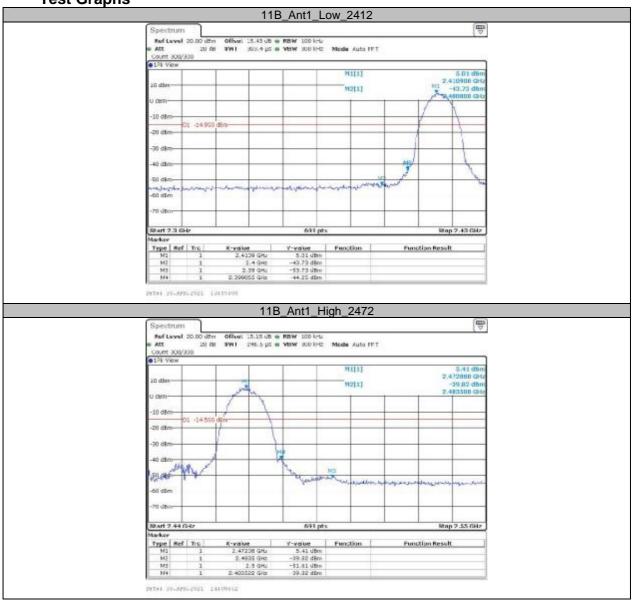
CF 2.467 GHz

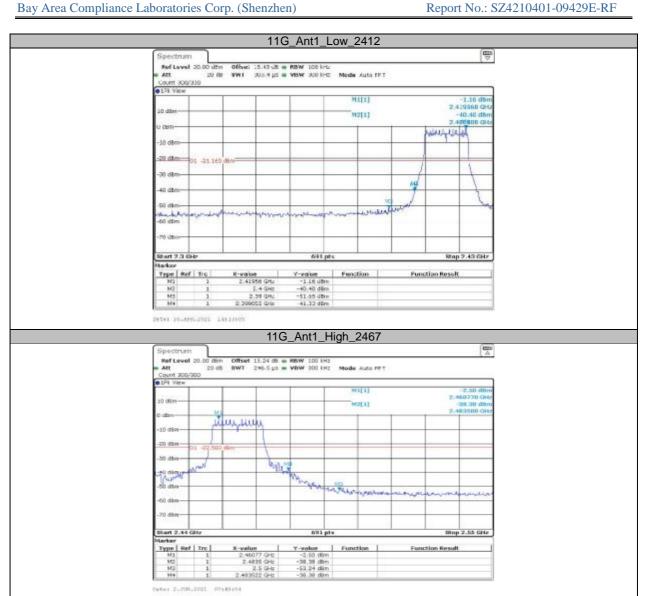
CF 2.4-12 GHz

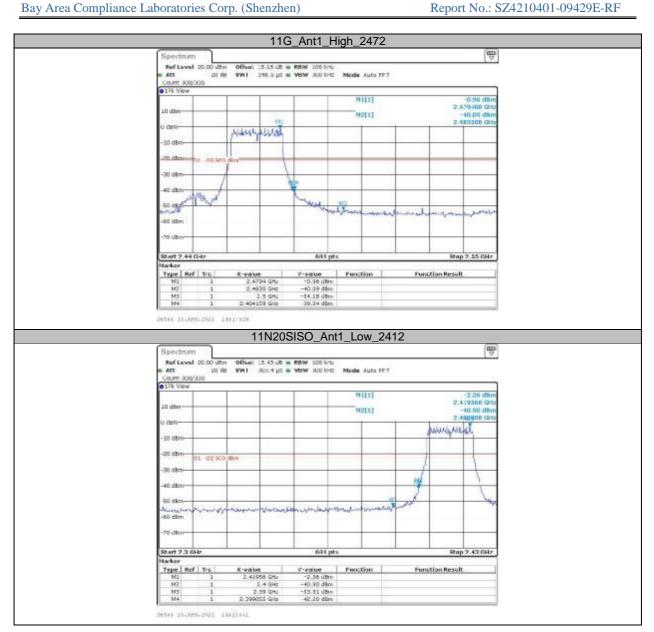
Datis 26.090.2021 16:38:54

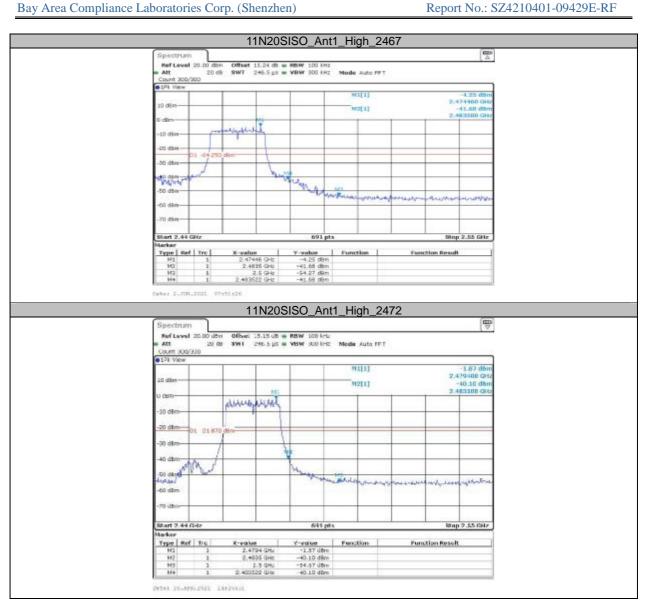










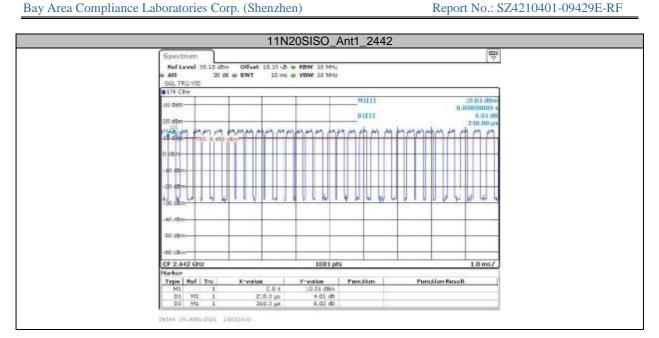


Appendix F: Duty Cycle Test Result

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	TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
	11B	Ant1	2442	1.28	1.42	90.14
	11G	Ant1	2442	0.23	0.34	67.64
	11N20SISO	Ant1	2442	0.21	0.36	58.33

Test Graphs





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