



TEST REPORT

Applicant Name: Shenzhen Youmi Intelligent Technology Co., Ltd.

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District, Shenzhen City, China

Report Number: SZ1210909-53551E-RF-00B

FCC ID: 2ATZ4-RP01X IC: 26074-RP01X

Test Standard (s)

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

Sample Description

Product Type: RP01 Model No.: RP01

Multiple Model(s) No.: RP03, RP04
Trade Mark: UMIDIGI
Date Received: 2021/09/09

Date of Test: 2021/09/26~2021/11/11

Report Date: 2021/11/11

Test Result: Pass*

Prepared and Checked By:

Approved By:

Ting Lü

Candy Li

EMC Engineer

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Shenzhen Accurate Technology Co., Ltd.

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^{*} In the configuration tested, the EUT complied with the standards above.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	RP01
Tested Model	RP01
Multiple Models	RP03, RP04
Model Differences	Refer to the DoS letter
HVIN	G2189U-PT-V1.0, G2102U-MU-V1.0, H872_MB_V1
Frequency Range	Bluetooth: 2402~2480MHz
Transmit Peak Power	0.28dBm
Modulation Technique	Bluetooth: GFSK, π/4-DQPSK, 8DPSK
Antenna Specification*	PIFA Antenna: 1.8dBi
Voltage Range	DC 3.87V from battery or DC 5V from adapter
Date of Test	2021-09-26 to 2021-11-11
Sample serial number	SZ1210909-53551E-RF-S1 for RF conducted SZ1210909-53551E-RF-S6 for CE&RE (Assigned by ATC)
Received date	2021-09-09
Sample/EUT Status	Good condition
Adapter information	Model: HJ-0502000W2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A

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Objective

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

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

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Measurement Uncertainty

Parameter		Uncertainty
Occupied Chai	nnel Bandwidth	5%
RF Fre	equency	0.082*10 ⁻⁷
RF output pov	wer, conducted	0.73dB
Unwanted Emis	ssion, conducted	1.6dB
AC Power Lines C	onducted Emissions	2.72dB
	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Radiated	18GHz - 26.5GHz	5.06dB
	26.5GHz- 40GHz	4.72dB
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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. 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.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 5077A.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

EUT testing in engineering mode and the power level is 5*. The power level was provided by the applicant.

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Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer Description		Model	Serial Number
Unknown	Earphone	Unknown	Unknown

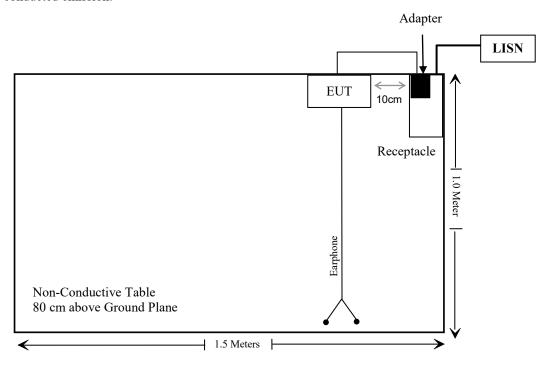
External I/O Cable

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

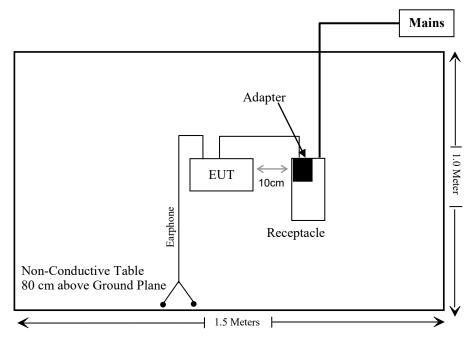
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Block Diagram of Test Setup

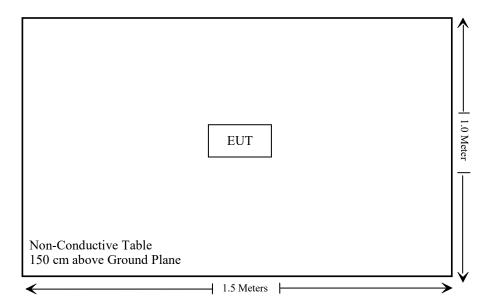
For conducted emission:



For radiated emission: Below 1GHz



For radiated emission: Above 1GHz



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.247 (i) & §2.1093	RF EXPOSURE	Compliant
RSS-102 § 2.5.1	EXEMPTION LIMITS FOR ROUTINE EVALUATION-SAR EVALUATION	Compliant
FCC §15.203 RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §15.207(a) RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d) RSS-247 § 5.5, RSS-GEN § 8.10	Radiated Emissions	Compliant
FCC §15.247(a)(1) RSS-247 § 5.1(a), RSS-GEN § 6.7	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 § 5.1 (b)	Channel Separation Test	Compliant
FCC §15.247(a)(1)(iii) RSS-247 § 5.1 (d)	Time of Occupancy (Dwell Time)	Compliant
FCC § 5.247(a)(1)(iii) RSS-247 § 5.1 (d)	Quantity of hopping channel Test	Compliant
FCC §15.247(b)(1) RSS-247 § 5.1(b) &§ 5.4(b)	Peak Output Power Measurement	Compliant
FCC §15.247(d) RSS-247 § 5.5	Band edges	Compliant

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emissions Test								
Rohde& Schwarz	Test Receiver	ESPI3	100396	2020/12/24	2021/12/23			
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24			
Anritsu Corp	50ΩCoaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24			
Unknown	RF Coaxial Cable	N-2m	No.2	2020/12/25	2021/12/24			
Conducted Emission	Test Software: ES-K1 V	1.71						
		Radiated Emissi	ons Test					
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23			
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23			
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24			
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/07/08	2022/07/07			
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24			
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04			
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04			
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04			
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24			
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24			
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24			
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24			
Wainwright High Pass Filter WHKX3.6/18 G-10SS 5 2020/12/25 2021/12/								
Radiated Emission Test Software: EZ_EMC V 1.1.4.2								
Radiated Emission Test Software: e3 19821G (V9)								

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2020/12/24	2021/12/23
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/07/06	2022/07/05

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^{*} **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. 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.

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

Result: No Standalone SAR test is required

RSS-102 \S 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	At separation	At separation	At separation	At separation			
	distance of	distance of	distance of	distance of	distance of			
	≤5 mm	10 mm	15 mm	20 mm	25 mm			
≤300	71 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	$67~\mathrm{mW}$			
1900	7 mW	10 mW	18 mW	34 mW	$60 \mathrm{mW}$			
2450	4 mW	7 mW	15 mW	30 mW	52 mW			
3500	$2 \mathrm{mW}$	6 mW	16 mW	32 mW	$55 \mathrm{mW}$			
5800	1 mW	6 mW	15 mW	27 mW	$41~\mathrm{mW}$			

Frequency	Exemption Limits (mW)							
(MHz)	At separation	At separation	At separation	At separation	At separation			
	distance of	distance of	distance of	distance of	distance of			
	30 mm	35 mm	40 mm	45 mm	≥50 mm			
≤300	223 mW	254 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.

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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 0.5 dBm, The antenna gain is 1.8 dBi, so the EIRP is 2.3dBm (1.70 mW), which less than 3.94 mW@2480MHz exemption limit

So the stand-alone SAR test is not required.

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

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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According to FCC § 15.203, the applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

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

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

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

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

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

Antenna Connector Construction

The EUT has one internal antenna arrangement which was permanently attached and the maximum antenna gain is 1.8dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain	Impedance	Frequency Range
PIFA	1.8 dBi	50Ω	2.4~2.5GHz

Result: Compliance

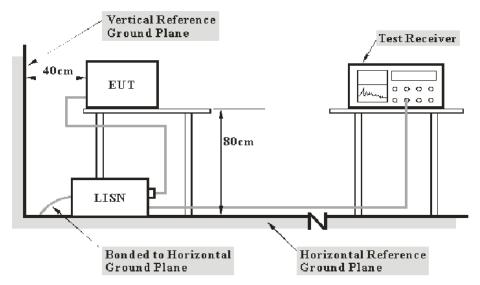
FCC §15.207 (a) & RSS-GEN § 8.8 – AC LINE CONDUCTED EMISSIONS

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Applicable Standard

FCC §15.207(a), RSS-GEN § 8.8

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

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.

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Corrected Factor & Margin Calculation

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

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Transd Factor = LISN VDF + Cable Loss

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 – level Level= reading level+ Transd Factor

Test Data

Environmental Conditions

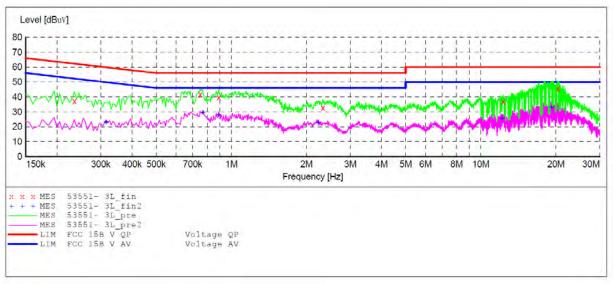
Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Amy Cao on 2021-09-26.

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EUT operation mode: Transmitting(the worst case is 8DPSK Mode, high channel)

AC 120V/60 Hz, Line



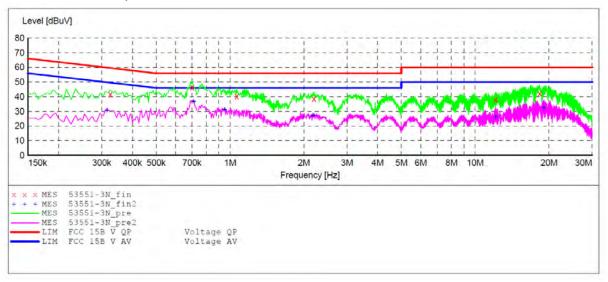
MEASUREMENT RESULT: "53551- 3L_fin"

2021-9-26 11:	01						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
MHZ	abuv	ав	abuv	QВ			
0.235000	37.20	10.9	62	24.8	QP	L1	GND
0.750000	41.60	11.1	56	14.4	QP	L1	GND
0.890000	39.70	11.1	56	16.3	QP	L1	GND
2.330000	32.80	11.3	56	23.2	QP	L1	GND
12.300000	36.90	11.6	60	23.1	QP	L1	GND
20.400000	45.70	11.7	60	14.3	QP	L1	GND

MEASUREMENT RESULT: "53551- 3L fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.315000	23.00	10.9	50	27.0	AV	L1	GND
0.770000	29.70	11.1	46	16.3	AV	L1	GND
0.890000	28.00	11.1	46	18.0	AV	L1	GND
2.230000	22.80	11.3	46	23.2	AV	L1	GND
12.150000	25.40	11.6	50	24.6	AV	L1	GND
19.200000	33.10	11.7	50	16.9	AV	L1	GND

AC 120V/60 Hz, Neutral



MEASUREMENT RESULT: "53551-3N fin"

2	021-9-26 11:	03						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBuV	dB	dBuV	dB			
	0 205000	41 50	10.0		10.5	OB	3.7	CINID
	0.325000	41.50	10.9	60	18.5	QP	N	GND
	0.700000	46.50	11.1	56	9.5	QP	N	GND
	1.065000	40.20	11.1	56	15.8	QP	N	GND
	2.200000	38.50	11.3	56	17.5	QP	N	GND
	12.125000	37.90	11.6	60	22.1	QP	N	GND
	18.325000	42.20	11.7	60	17.8	QP	N	GND

MEASUREMENT RESULT: "53551-3N fin2"

2	021-9-26 11:	03						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.315000	30.60	10.9	50	19.4	AV	N	GND
	0.710000	36.60	11.1	46	9.4	AV	N	GND
	0.950000	31.00	11.1	46	15.0	AV	N	GND
	2.180000	27.00	11.3	46	19.0	AV	N	GND
	12.125000	26.30	11.6	50	23.7	AV	N	GND
	19.050000	32.40	11.7	50	17.6	AV	N	GND

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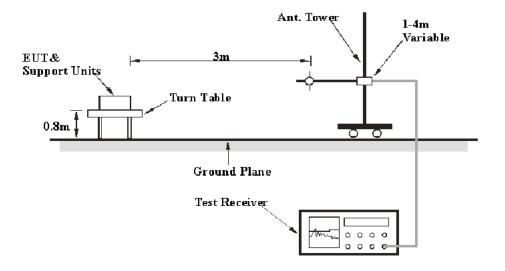
FCC §15.209, §15.205 & §15.247(d) & RSS-247§ 5.5 - Spurious Emissions

Applicable Standard

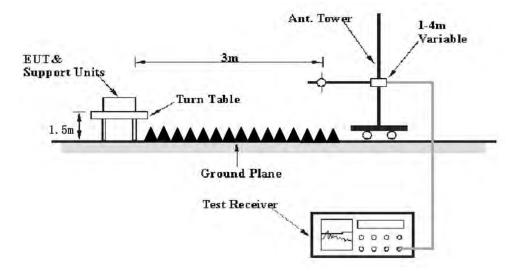
FCC §15.205; §15.209; §15.247(d); RSS-247§ 5.5; RSS-GEN § 8.10

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-247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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

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Test Procedure

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

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

Corrected Amplitude & Margin Calculation

The Factor 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:

Factor = 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:

Test Data

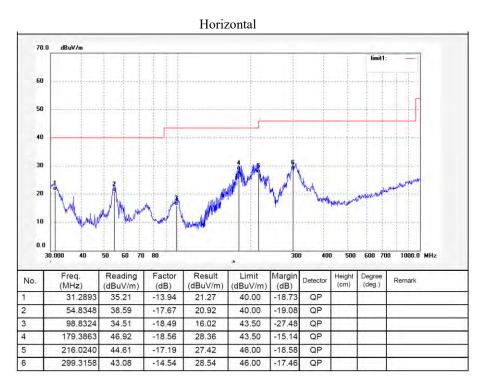
Environmental Conditions

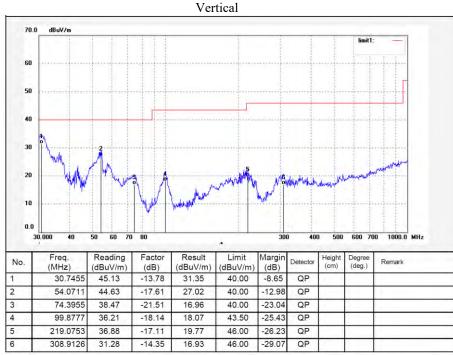
Temperature:	23~25 ℃
Relative Humidity:	48~50 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro Hu on 2021-09-28 for below 1GHz and Chao Mo on 2021-11-03 for above 1GHz.

EUT operation mode: Transmitting (Scan with X-AXIS, Y-AXIS, Z-AXIS, the worst case was recorded)

Below 1GHz: (the worst case is 8DPSK Mode, high channel)





Above 1GHz (worst case for 8DPSK):

Frequency	Rece	Receiver		Rx Aı	ntenna	Factor	Absolute Level	Limit	Margin	
(MHz)	Reading (dBuV)	PK/Ave.	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	Low Channel									
2310	68.56	PK	251	1.2	Н	-6.84	61.72	74	-12.28	
2310	53.45	Ave.	251	1.2	Н	-6.84	46.61	54	-7.39	
2310	66.65	PK	186	2	V	-6.84	59.81	74	-14.19	
2310	51.62	Ave.	186	2	V	-6.84	44.78	54	-9.22	
2390	69.05	PK	44	1.1	Н	-6.44	62.61	74	-11.39	
2390	54.22	Ave.	44	1.1	Н	-6.44	47.78	54	-6.22	
2390	67.57	PK	125	1.3	V	-6.44	61.13	74	-12.87	
2390	52.78	Ave.	125	1.3	V	-6.44	46.34	54	-7.66	
4804	51.02	PK	284	2.2	Н	2.81	53.83	74	-20.17	
4804	49.81	PK	277	1.4	V	2.81	52.62	74	-21.38	
				Middle C	Channel					
4882	50.84	PK	9	1.2	Н	3.04	53.88	74	-20.12	
4882	49.35	PK	140	1.7	V	3.04	52.39	74	-21.61	
				High Cl	nannel					
2483.5	68.24	PK	111	1.2	Н	-5.96	62.28	74	-11.72	
2483.5	53.16	Ave.	111	1.2	Н	-5.96	47.20	54	-6.80	
2483.5	66.68	PK	231	1	V	-5.96	60.72	74	-13.28	
2483.5	52.45	Ave.	231	1	V	-5.96	46.49	54	-7.51	
2500	67.64	PK	208	1.2	V	-5.88	61.76	74	-12.24	
2500	52.58	Ave.	208	1.2	V	-5.88	46.70	54	-7.30	
2500	65.76	PK	132	1.4	V	-5.88	59.88	74	-14.12	
2500	51.71	Ave.	132	1.4	V	-5.88	45.83	54	-8.17	
4960	50.69	PK	60	2.5	Н	3.29	53.98	74	-20.02	
4960	49.46	PK	51	2.5	V	3.29	52.75	74	-21.25	

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Note:

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

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

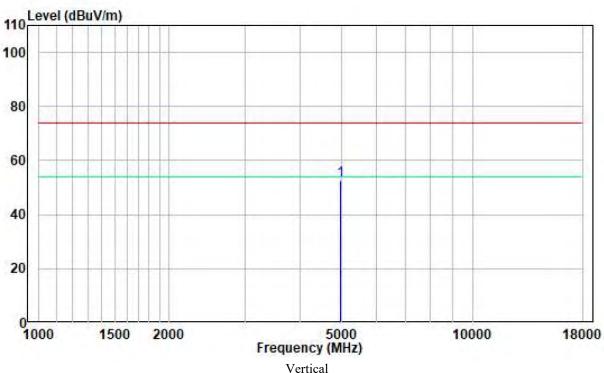
The other spurious emission which is 20dB to the limit was not recorded.

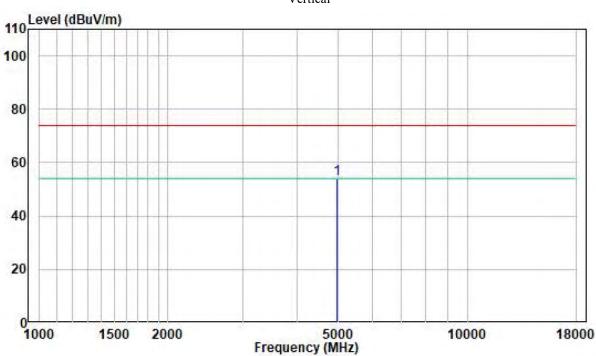
When the test result of peak was less than the limit of average, just peak value were recorded.

1 GHz - 18 GHz: (Pre-Scan plots)

Middle channel

Horizontal

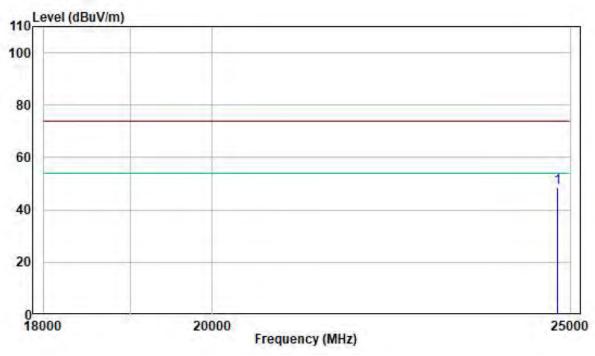




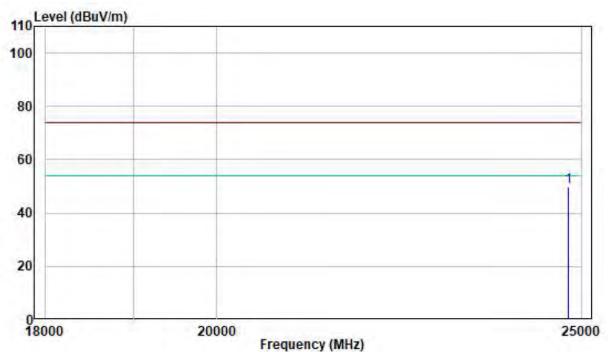
18-25GHz: (Pre-Scan plots)

Middle channel

Horizontal



Vertical



FCC §15.247(a) (1) & RSS-247 § 5.1 (b) -CHANNEL Separation Test

Applicable Standard

According to FCC §15.247(a) (1):

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

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According to RSS-247 § 5.1 (b):

Frequency hopping systems (FHSs) shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the -20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

- 1. Set the EUT in transmitting mode, max hold the channel.
- 2. Set the adjacent channel of the EUT and max hold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

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

The testing was performed by Paul liu on 2021-10-26 and 2021-10-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

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

Report No.: SZ1210909-53551E-RF-00B

Applicable Standard

According to FCC §15.247(a) (1):

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

According to RSS-247 § 5.1 (a), RSS-GEN § 6.7:

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

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

Test Procedure

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

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

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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 Paul liu on 2021-10-26.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix

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

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Applicable Standard

According to FCC §15.247(a) (1) (iii):

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

According to RSS-247 § 5.1 (d):

Frequency hopping systems (FHSS) operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	27 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Paul liu on 2021-10-26.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

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

Report No.: SZ1210909-53551E-RF-00B

Applicable Standard

According to FCC §15.247(a) (1) (iii):

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

According to RSS-247 § 5.1 (d):

Frequency hopping systems (FHSs) operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

Test Procedure

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

Test Data

Environmental Conditions

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

The testing was performed by Paul liu on 2021-10-26 and 2021-10-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

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

Report No.: SZ1210909-53551E-RF-00B

Applicable Standard

According to FCC §15.247(b) (1):

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

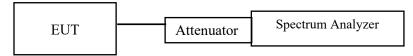
According to RSS-247§ 5.1(b) &§ 5.4(b):

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

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

Test Procedure

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



Test Data

Environmental Conditions

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

The testing was performed by Paul liu on 2021-10-26 and 2021-10-27.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

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

Applicable Standard

According to FCC §15.247(d).

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)).

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According to RSS-247 § 5.5.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(e), 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.

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	27 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

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The testing was performed by Paul liu on 2021-10-26.

EUT operation mode: Transmitting

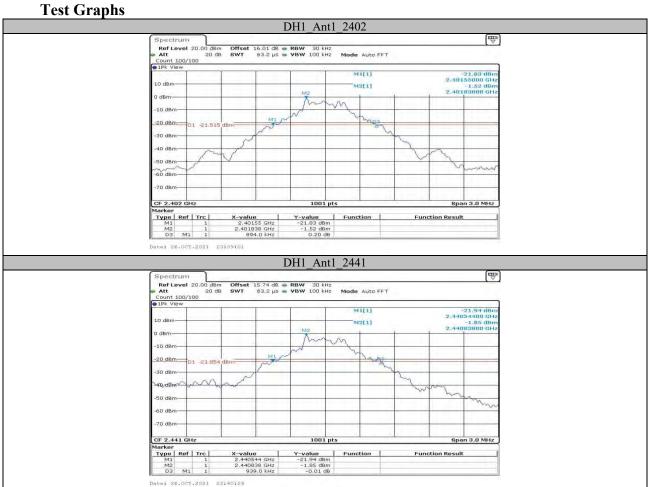
Test Result: Compliant. Please refer to the Appendix.

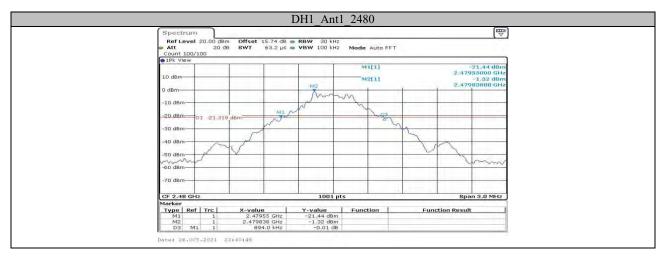
Report No.: SZ1210909-53551E-RF-00B

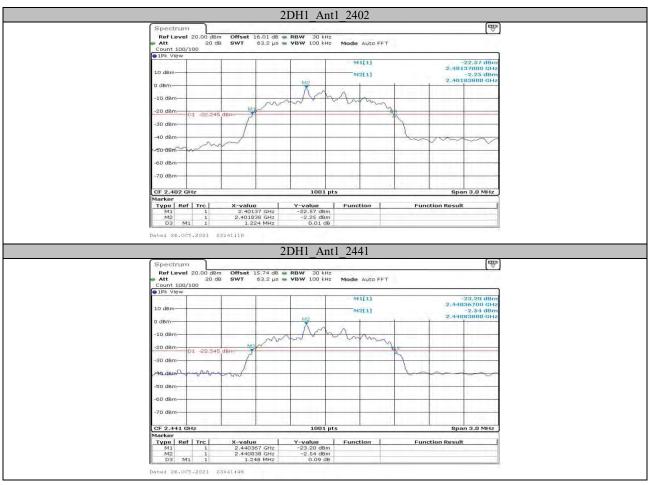
APPENDIX

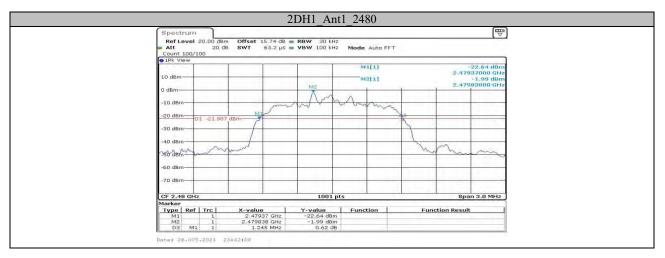
Appendix A: 20dB Emission Bandwidth **Test Result**

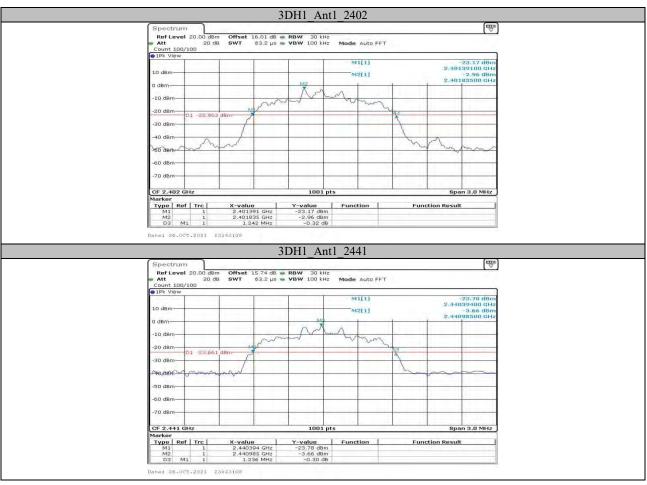
Test Mode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.894		PASS
		2441	0.939		PASS
		2480	0.894		PASS
2DH1	Ant1	2402	1.224		PASS
		2441	1.248		PASS
		2480	1.245		PASS
3DH1	Ant1	2402	1.242		PASS
		2441	1.236		PASS
		2480	1.245		PASS









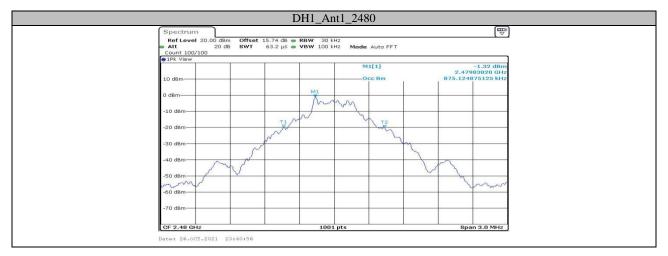


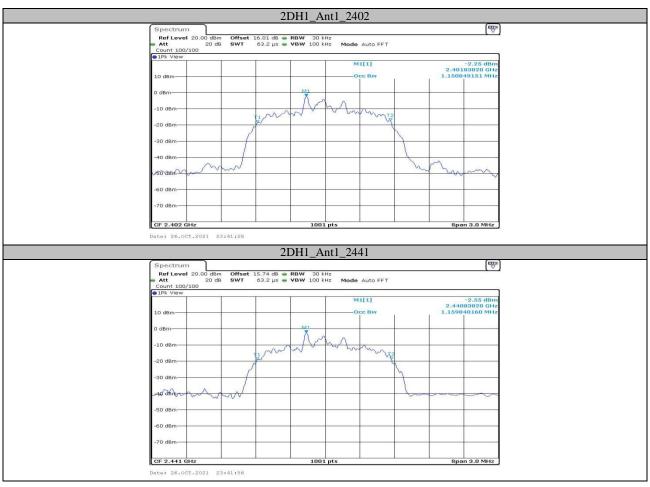


Appendix B: Occupied Channel Bandwidth Test Result

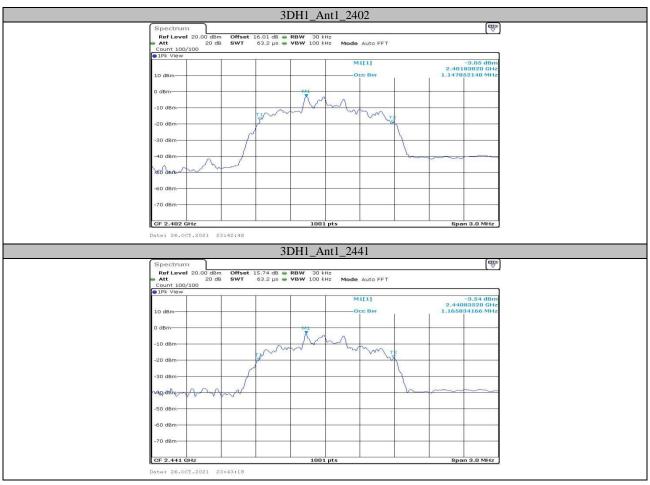
Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.878		PASS
		2441	0.899		PASS
		2480	0.875		PASS
2DH1	Ant1	2402	1.151		PASS
		2441	1.160		PASS
		2480	1.163		PASS
3DH1	Ant1	2402	1.148		PASS
		2441	1.166		PASS
		2480	1.148		PASS













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Appendix C: Maximum conducted Peak output power Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	0.10	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	0.28	≤20.97	PASS
2DH1	Ant1	2402	0.09	≤20.97	PASS
		2441	-0.67	≤20.97	PASS
		2480	0.03	≤20.97	PASS
3DH1	Ant1	2402	0.08	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	0.26	≤20.97	PASS

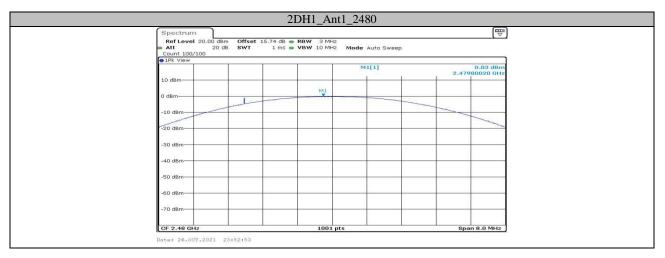
Note: the maximu antenna gain is 1.8dBi, the maximum EIRP=0.28dBm+1.8dBi=2.08dBm<36dBm, so it's compliance with ISEDC EIRP limit.

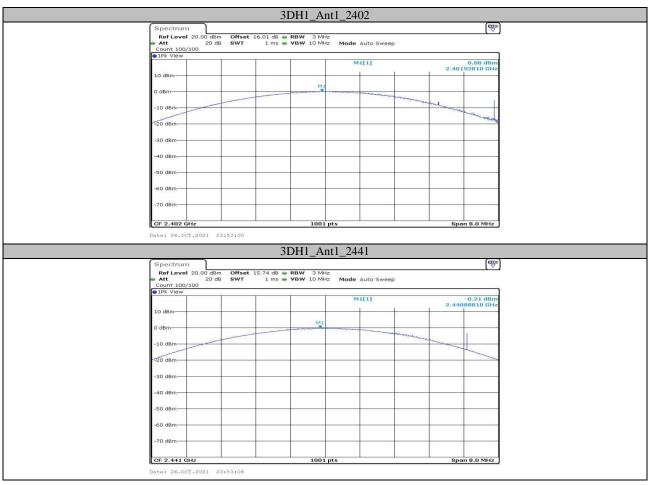












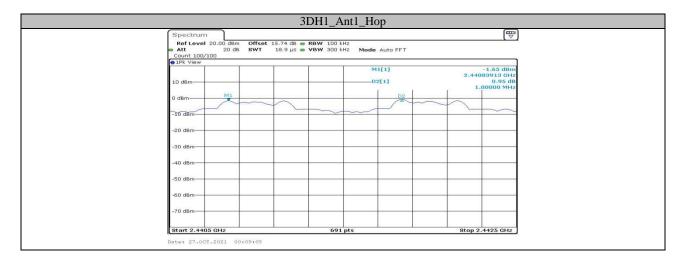


Appendix D: Carrier frequency separation **Test Result**

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1	0.626	PASS
2DH1	Ant1	Нор	1.003	0.832	PASS
3DH1	Ant1	Нор	1	0.830	PASS

Test Graphs





Appendix E: Time of occupancy Test Result

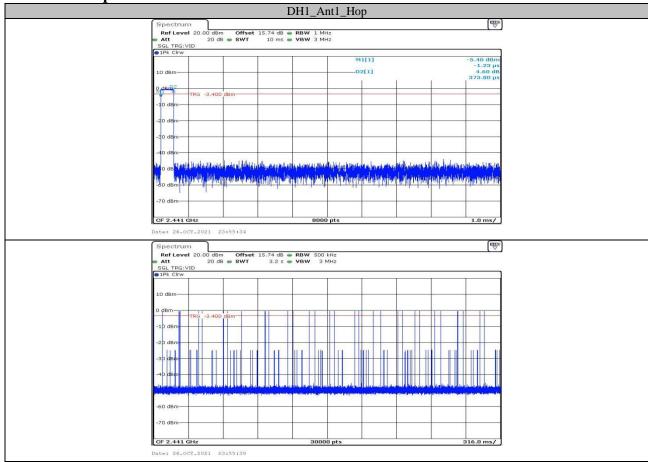
Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	310	0.116	≤0.4	PASS
DH3	Ant1	Нор	1.62	110	0.178	≤0.4	PASS
DH5	Ant1	Нор	2.86	100	0.286	≤0.4	PASS
2DH1	Ant1	Нор	0.38	290	0.111	≤0.4	PASS
2DH3	Ant1	Нор	1.63	110	0.179	≤0.4	PASS
2DH5	Ant1	Нор	2.87	80	0.229	≤0.4	PASS
3DH1	Ant1	Нор	0.38	270	0.103	≤0.4	PASS
3DH3	Ant1	Нор	1.63	100	0.163	≤0.4	PASS
3DH5	Ant1	Нор	2.87	70	0.201	≤0.4	PASS

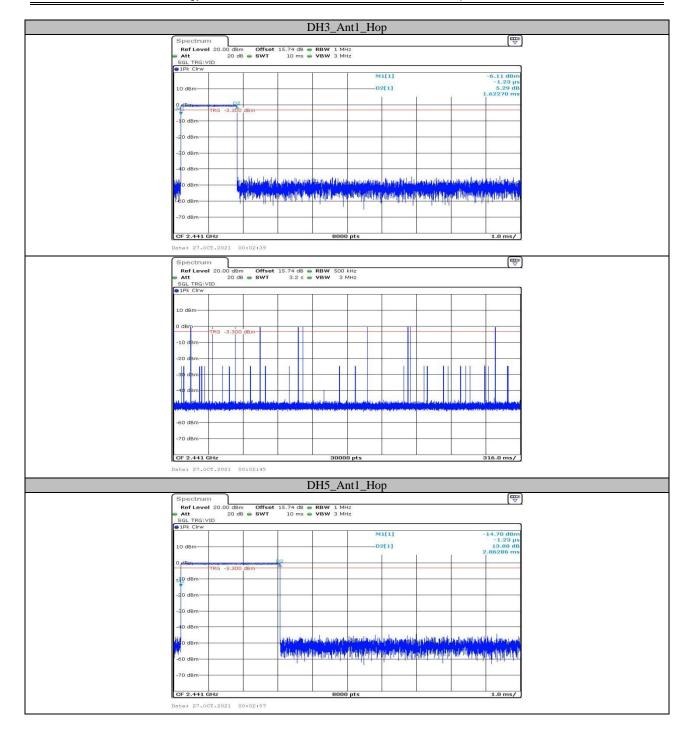
Note 1: A period time=0.4*79=31.6(S), Result=BurstWidth*Totalhops

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

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

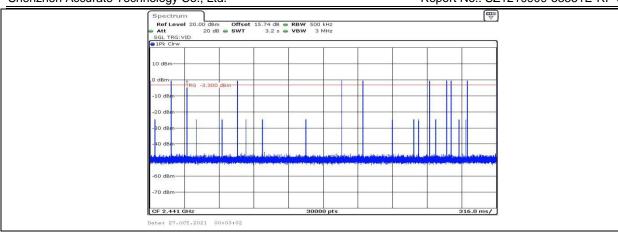
Test Graphs

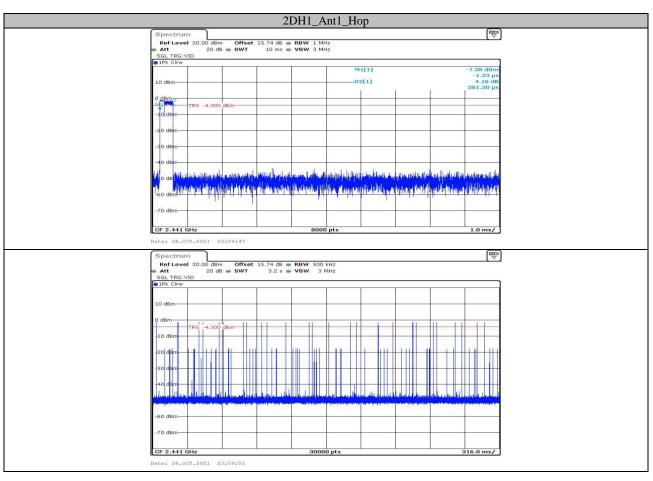


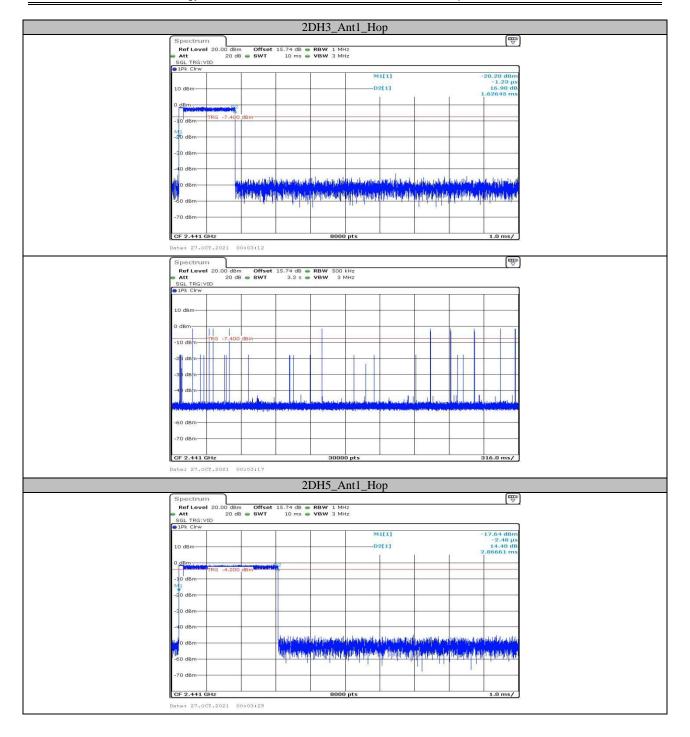




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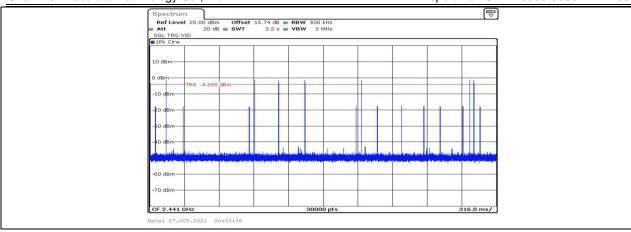


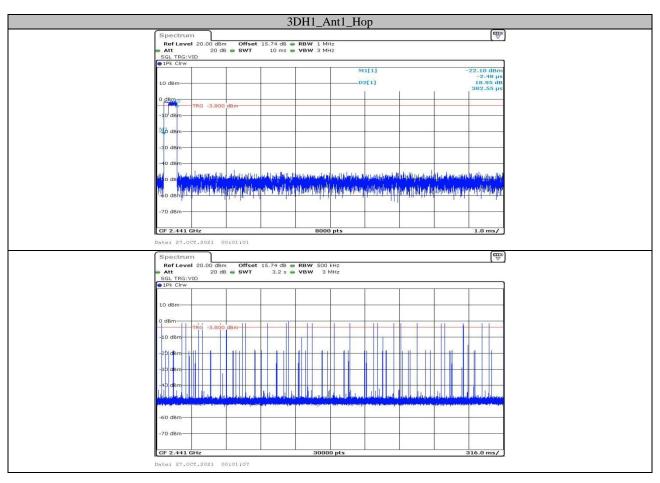


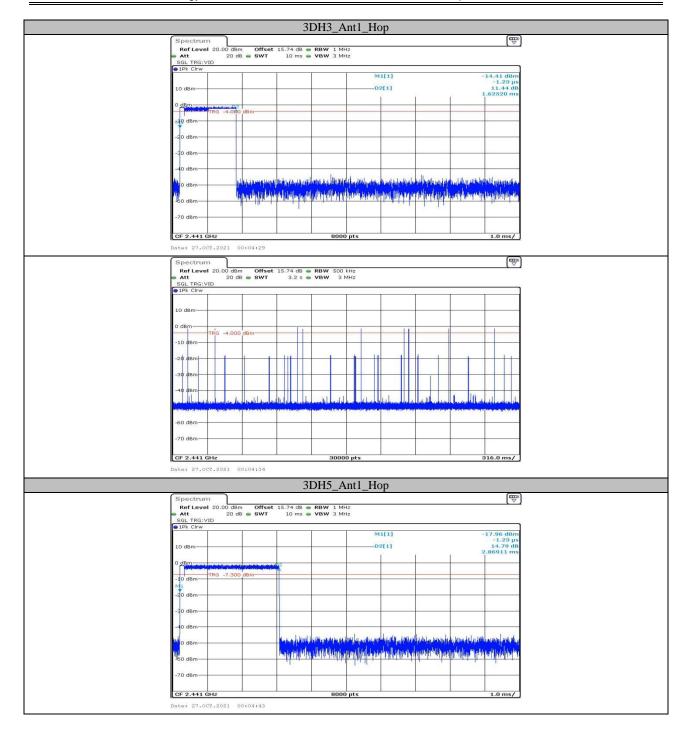


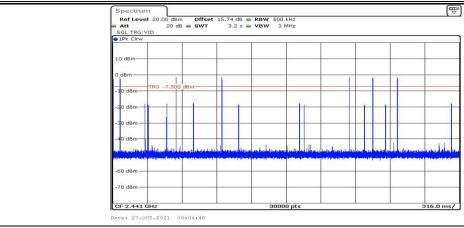


Report No.: SZ1210909-53551E-RF-00B









Appendix F: Number of hopping channels Test Result

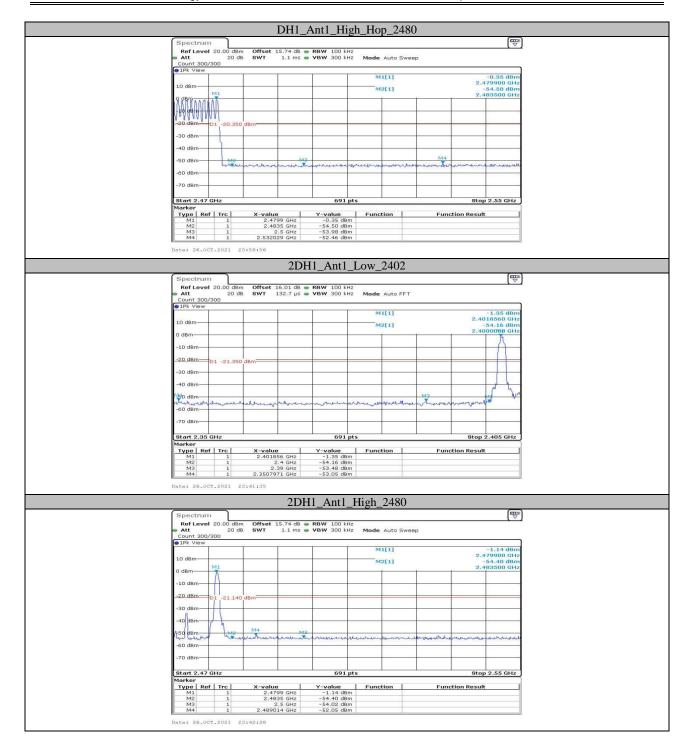
Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	≥15	PASS
2DH1	Ant1	Нор	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

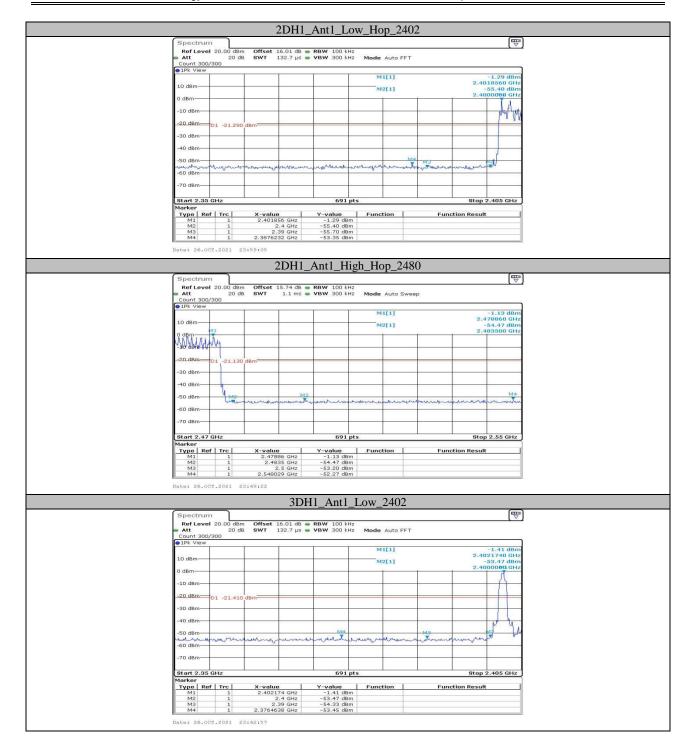
Test Graphs

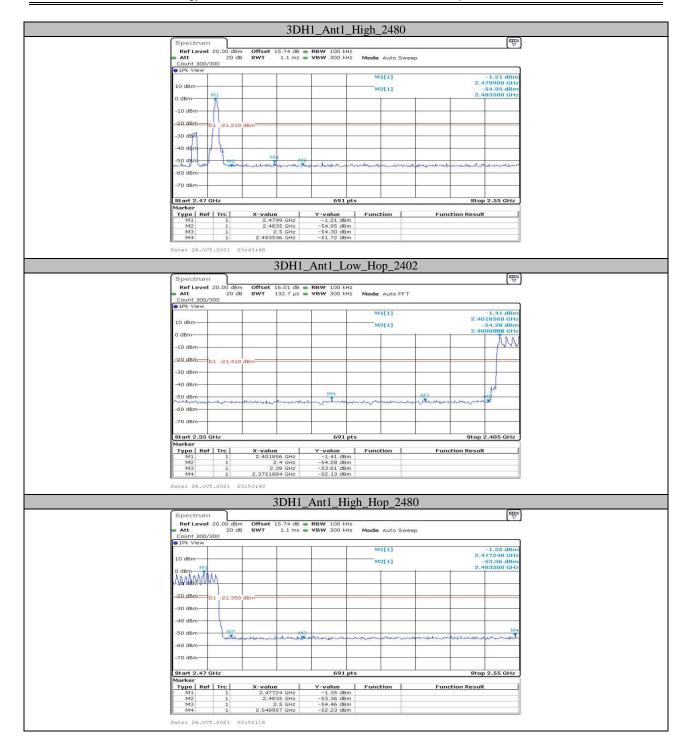


Appendix G: Band edge measurements Test Graphs









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