



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: IC:

Shenzhen VanTop Technology & Innovation Co., Ltd. 502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China SZNS210428-54815E-RFA 2AQ3A-E10 24268-E10

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: Model No.: Multiple Model(s) No.:	Tablet PC E10 S31,S10,TB-JS101A,TB-VS100A,TB-JS100A(model difference see product declaration letter of similarity)
Trade Mark:	N/A
Date Received:	2021/04/28
Date of Test:	2021/05/13~2021/11/17
Report Date:	2022/01/05

Test Result:

Pass* * In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ting Lü **EMC Engineer**

Approved By:

Candy . Li

Candy Li **EMC Engineer**

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

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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Shenzhen Accurate Technology Co., Ltd.

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FCC-BT; RSS-BT

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GENERAL INFORMATION

HVIN	PC005
FVIN	E10_V1.0_20210701
Frequency Range	Bluetooth: 2402~2480MHz
Maximum conducted Peak output power Bluetooth: 5.53dBm	
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification*	1.2dBi (provided by the applicant)
Voltage Range	DC 3.8V from battery or DC5.0V from adapter
Sample serial number	SZNS210428-54815E-RF-S2 for Conducted and Radiated Emissions SZNS210428-54815E-RF S_4C2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model:FX2U-050200U Input: AC 100-240V, 50/60Hz,0.4A Output: DC5.0V, 2.0A

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules and RSS-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.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Channel Bandwidth		5%	
RF Fre	equency	$0.082*10^{-7}$	
RF output pov	wer, conducted	0.73dB	
Unwanted Emi	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 °C	
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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

The EUT was tested under Engineer mode, the power level is default*, the software and power level were provided by manufacturer.

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	
SAMSUNG	Monitor	S24E390HL	ZZFRH4ZN303357K	

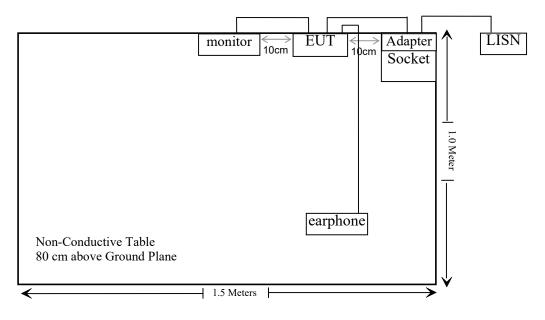
External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-shielded Un-detachable AC Cable	1.2	Socket	Mains
Shielded detachable USB Cable	1.0	EUT	Adapter
Un-shielded detachable HDMI Cable	1.5	EUT	Monitor
Shielded Un-detachable Earphone Cable	1.2	EUT	Earphone

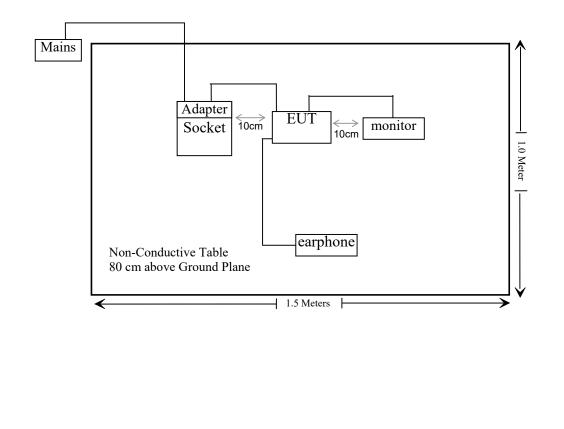
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Block Diagram of Test Setup

For conducted emission :

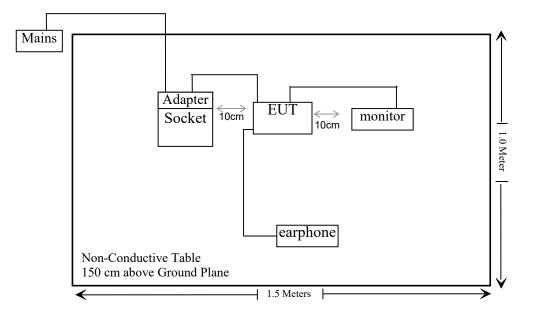


For RE below 1 GHz



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For RE above 1GHz:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
RSS-102	RF EXPOSURE	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 §15.247(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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emissions Test								
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/02/03	2022/02/02			
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: e3 19821	b (V9)						
		Radiated Emissi	ons Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2020/12/25	2021/12/24			
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/5/18	2022/5/17			
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24			
A.H. Systems, inc.	A.H. Systems, inc. Preamplifier		531	2021/11/09	2022/11/08			
Anritsu Corp 50 Coaxial Switch		MP59B	6100237248	2020/12/25	2021/12/24			
Quinstar	QuinstarAmplifierSchwarzbeckBilog Antenna		15964001002	2021/11/11	2022/11/10			
Schwarzbeck			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-1m	No.5	2020/12/25	2021/12/24			
Unknown RF Coaxial Cable		N-10m	No.7	2021/11/09	2022/11/08			
Unknown	RF Coaxial Cable	N-2m	No.8	2021/11/09	2022/11/08			
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2020/12/25	2021/12/24			
Radiated Emission T	est Software: e3 19821b	(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	Control Unit JS0806-2 19G		2020/07/06	2021/07/05
WEINSCHEL	10dB Attenuator	5324	AU 3842	Each	time

* **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.

a) According to KDB 447498 D01 General RF Exposure Guidance

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

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

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

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

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

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

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

Measurement Result

For worst case:

Frequency (MHz)	Tune-up power (dBm)	Tune-up power (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
2402-2480	6.0	3.98	5	1.3	3.0	Yes

Result: Compliant.

RSS-102 – RF EXPOSURE

Applicable Standard

According to RSS-102, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Result: Compliance.

Please refer to SAR Report Number: CR21110006-SA.

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.

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 1.2dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain	Impedance	Frequency Range	
FPC	1.2dBi	50 Ω	2.4~2.5GHz	

Result: Compliant

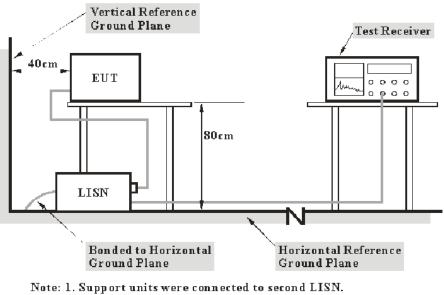
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FCC §15.207 (a) & RSS-GEN § 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), RSS-GEN § 8.8

EUT Setup



Support units were connected to second LISM.
 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 factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

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

Over Limit = Level – Limit Level = Read Level + Factor

Test Data

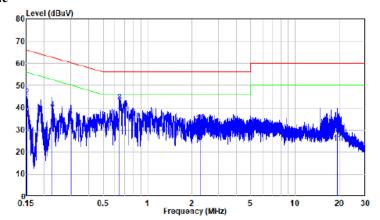
Environmental Conditions

Temperature:	25°C
Relative Humidity:	64%
ATM Pressure:	100.9-101.2kPa

The testing was performed by Bin Deng on 2021-11-17.

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

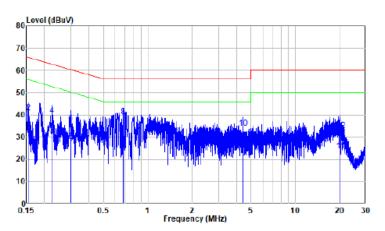
AC 120V/60 Hz, Line



Site :	Shielding Room
Condition:	Line
Mode :	BT
Model :	E10

			Read		Limit	Over	
	Freq	Factor	Level	Level	Line	Limit	Remark
		dB	dBuV	dBuV	dBuV	dB	
	MHz		abuv		abuv	aB	
1	0.152	9.90	25.19	35.09	55.91	-20.82	Average
2	0.152	9.90	35.21	45.11	65.91	-20.80	QP
3	0.226	9.80	21.58	31.38	52.58	-21.20	Average
4	0.226	9.80	29.56	39.36	62.58	-23.22	QP
5	0.301	9.80	21.88	31.68	50.20	-18.52	Average
6	0.301	9.80	26.09	35.89	60.20	-24.31	QP
7	0.646	9.81	26.50	36.31	46.00	-9.69	Average
8	0.646	9.81	32.78	42.59	56.00	-13.41	QP
9	2.270	9.92	14.52	24.44	46.00	-21.56	Average
10	2.270	9.92	23.38	33.30	56.00	-22.70	QP
11	19.224	10.18	13.98	24.16	50.00	-25.84	Average
12	19.224	10.18	21.30	31.48	60.00	-28.52	QP

AC 120V/60 Hz, Neutral



Site :	Shielding Room
Condition:	Neutral
Mode :	BT
Model :	E10

	_	_	Read		Limit	Over	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	9.91	19.50	29.41	55.77	-26.36	Average
2	0.154	9.91	31.16	41.07	65.77	-24.70	QP
3	0.224	9.99	20.83	30.82	52.66	-21.84	Average
4	0.224	9.99	29.83	39.82	62.66	-22.84	QP -
5	0.300	9.96	17.99	27.95	50.24	-22.29	Average
6	0.300	9.96	26.12	36.08	60.24	-24.16	QP
7	0.679	9.91	14.80	24.71	46.00	-21.29	Average
8	0.679	9.91	29.38	39.29	56.00	-16.71	QP
9	4.407	10.04	18.49	28.53	46.00	-17.47	Average
10	4.407	10.04	24.12	34.16	56.00	-21.84	QP
11	20.109	10.20	13.69	23.89	50.00	-26.11	Average
12	20.109	10.20	22.70	32.90	60.00	-27.10	QP

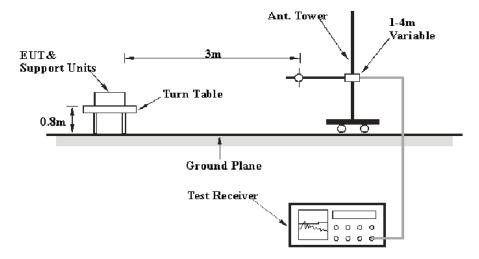
FCC §15.209, §15.205 & §15.247(d) & RSS-247§ 5.5 - SPURIOUS EMISSIONS

Applicable Standard

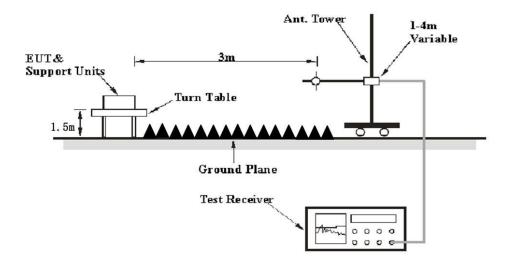
FCC §15.205; §15.209; §15.247(d); RSS-247§ 5.5; RSS-GEN § 8.10

EUT Setup

Below 1 GHz:



Above 1GHz:



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

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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	/	РК
Above I GHZ	1 MHz	10 Hz	/	Average

Test Procedure

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

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

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

Corrected Factor & Margin Calculation

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

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

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	25~26.8℃
Relative Humidity:	51~64%
ATM Pressure:	101.0~101.2 kPa

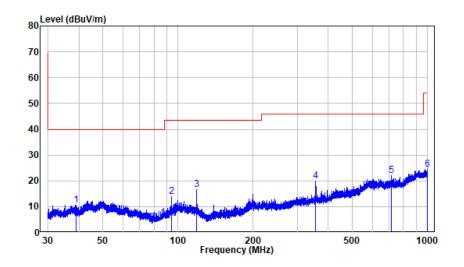
The testing was performed by Bin Deng on 2021-11-17 for below 1GHz and Bin Deng on 2021-11-17 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

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

Horizontal:

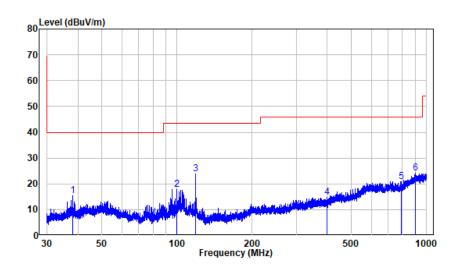


Site : chamber Condition: 3m HORIZONTAL Job NO. : SZNS210428-54815E-RF Mode : BT

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.08	-18.80	29.40	10.60	40.00	-29.40	Peak
2	94.14	-20.38	34.16	13.78	43.50	-29.72	Peak
3	118.76	-20.26	36.72	16.46	43.50	-27.04	Peak
4	356.21	-15.99	35.99	20.00	46.00	-26.00	Peak
5	715.43	-11.36	33.44	22.08	46.00	-23.92	Peak
6	998.25	-7.38	31.90	24.52	54.00	-29.48	Peak

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Site : chamber Condition: 3m VERTICAL Job NO. : SZNS210428-54815E-RF Mode : BT

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.20	-18.94	34.41	15.47	40.00	-24.53	Peak
2	99.53	-19.26	36.97	17.71	43.50	-25.79	Peak
3	118.76	-20.26	43.97	23.71	43.50	-19.79	Peak
4	399.03	-15.82	30.63	14.81	46.00	-31.19	Peak
5	794.79	-11.45	32.34	20.89	46.00	-25.11	Peak
6	902.91	-8.08	32.15	24.07	46.00	-21.93	Peak

г		Receiver			ntenna	Corrected	Corrected	T • •/	
Frequency (MHz)	Reading (dBμV)		Turntal e. Degree	Haigh	nt Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low	Channel	(2402MF	Iz)			
2310	75.72	РК	203	2.1	Н	-10.64	65.08	74	-8.92
2310	56.77	Ave.	203	2.1	Н	-10.64	46.13	54	-7.87
2310	70.38	PK	188	2.4	V	-10.64	59.74	74	-14.26
2310	56.00	Ave.	188	2.4	V	-10.64	45.36	54	-8.64
2390	71.01	PK	46	2.4	Η	-10.37	60.64	74	-13.36
2390	56.81	Ave.	46	2.4	Η	-10.37	46.44	54	-7.56
2390	69.69	РК	79	1.2	V	-10.37	59.32	74	-14.68
2390	55.48	Ave.	79	1.2	V	-10.37	45.11	54	-8.89
4804	54.52	РК	243	2	Н	-4.65	49.87	74	-24.13
4804	52.98	РК	132	1.9	V	-4.65	48.33	74	-25.67
			Middl	e Channe	el(2441M	Hz)			
4882	54.78	РК	255	1.5	Н	-4.47	50.31	74	-23.69
4882	53.5	РК	220	1.3	V	-4.47	49.03	74	-24.97
			High	Channel	(2480 MI	Hz)			
2483.5	71.10	PK	21	1.3	Н	-10.08	61.02	74	-12.98
2483.5	56.14	Ave.	21	1.3	Н	-10.08	46.06	54	-7.94
2483.5	70.43	PK	260	2	V	-10.08	60.35	74	-13.65
2483.5	55.03	Ave.	260	2	V	-10.08	44.95	54	-9.05
2500	71.37	РК	358	1	Н	-10.04	61.33	74	-12.67
2500	56.41	Ave.	358	1	Н	-10.04	46.37	54	-7.63
2500	69.88	PK	239	2	V	-10.04	59.84	74	-14.16
2500	54.83	Ave.	239	2	V	-10.04	44.79	54	-9.21
4960	54.7	РК	189	2.2	Н	-4.24	50.46	74	-23.54
4960	53.36	РК	273	2.2	V	-4.24	49.12	74	-24.88

Above 1GHz: (the worst case is 8DPSK Mode)

Note:

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

Absolute Level (Corrected Amplitude) = Factor + Reading Margin = Absolute Level (Corrected Amplitude) – Limit

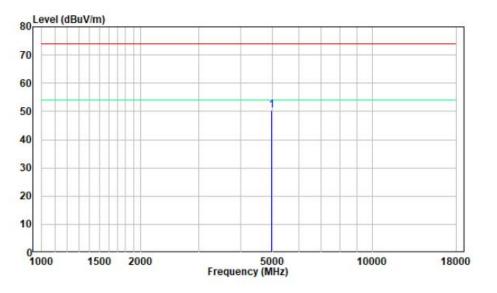
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

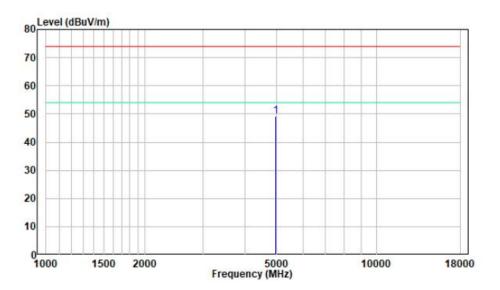
1-18GHz Pre-scan plots:

High Channel





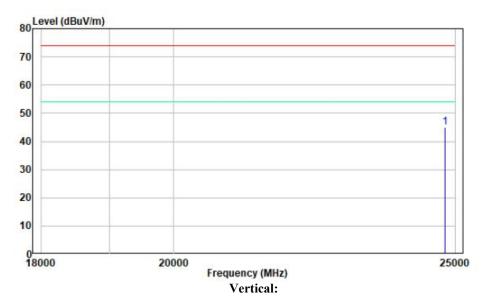


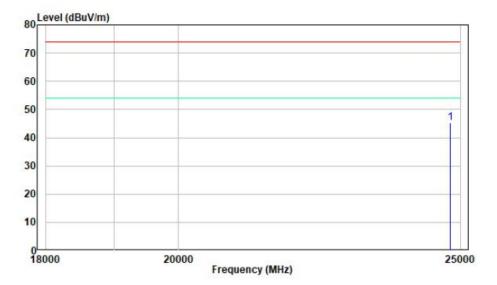


18-25GHz Pre-scan plots:

High Channel







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 hopping 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.

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:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu on 2021-05-13.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

Version 15: 2021-11-09

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

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.

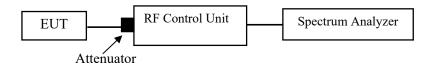
• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• 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.

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:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu on 2021-05-13.

EUT operation mode: Transmitting

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

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

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

Test Data

Environmental Conditions

Temperature:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu from 2021-06-08 to 2021-06-10.

EUT operation mode: Transmitting

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

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

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

Test Data

Environmental Conditions

Temperature:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu on 2021-05-13.

EUT operation mode: Transmitting

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

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 nonoverlapping 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.

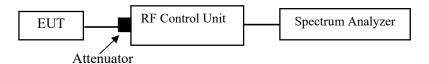
According to RSS-247§ 5.1(b) &§ 5.4(b):

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:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu from 2021-05-13 to 2021-06-10.

EUT operation mode: Transmitting

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)).

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:	28.2-28.6° C	
Relative Humidity:	52-56 %	
ATM Pressure:	100.9-101.2kPa	

The testing was performed by Paul Liu from 2021-05-13 to 2021-06-10.

EUT operation mode: Transmitting

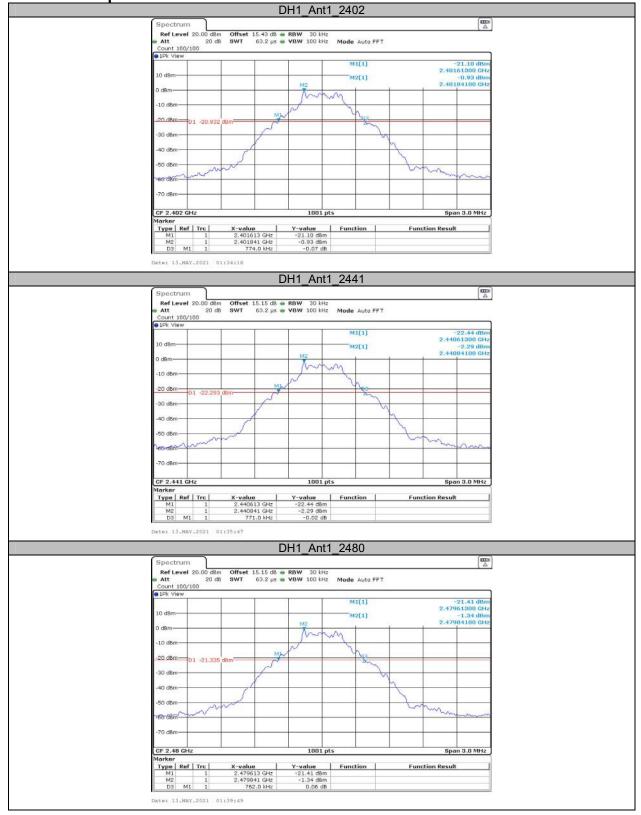
APPENDIX

Appendix A: 20dBEmission Bandwidth

Test Result

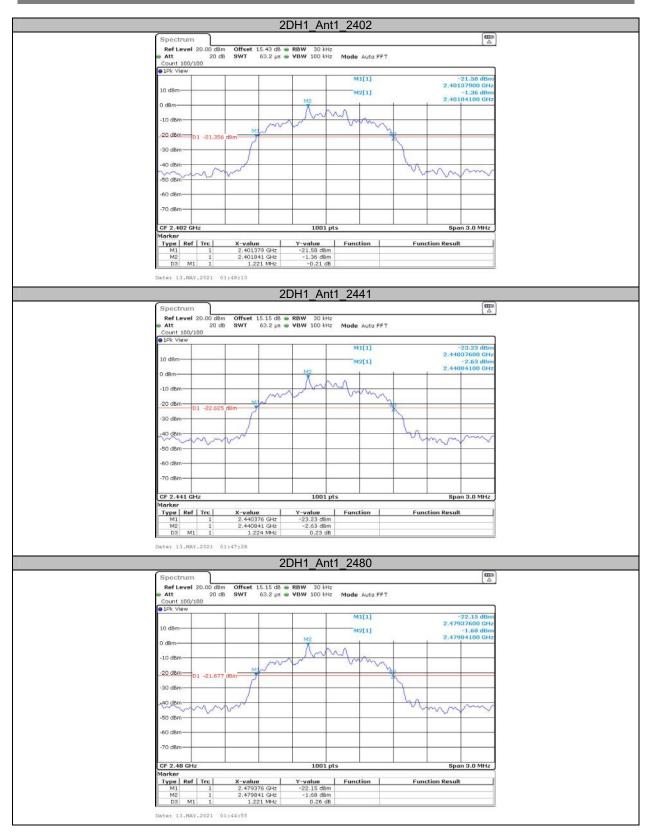
Test Mode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.774		PASS
		2441	0.771		PASS
		2480	0.762		PASS
2DH1	Ant1	2402	1.221		PASS
		2441	1.224		PASS
		2480	1.221		PASS
3DH1	Ant1	2402	1.221		PASS
		2441	1.221		PASS
		2480	1.224		PASS

Test Graphs

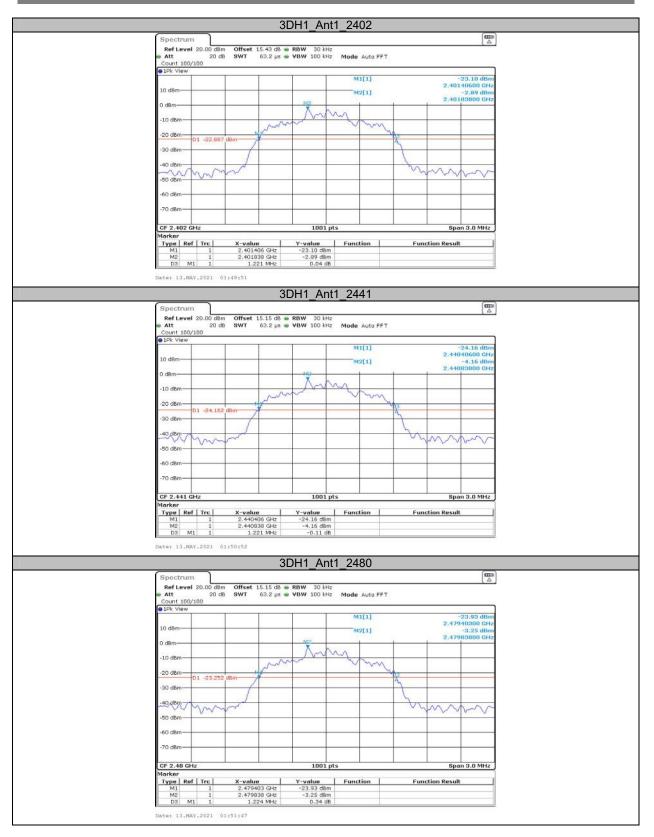


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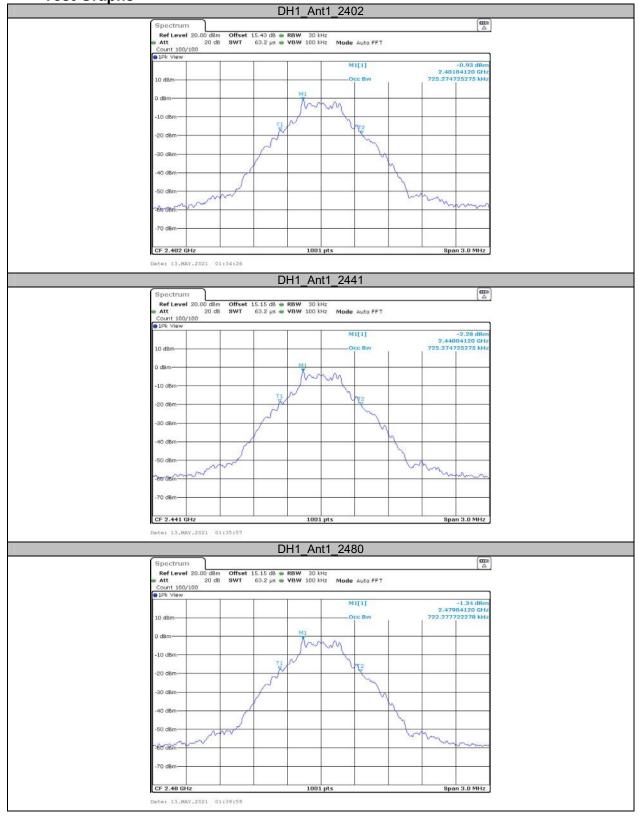
Report No.: SZNS210428-54815E-RFA

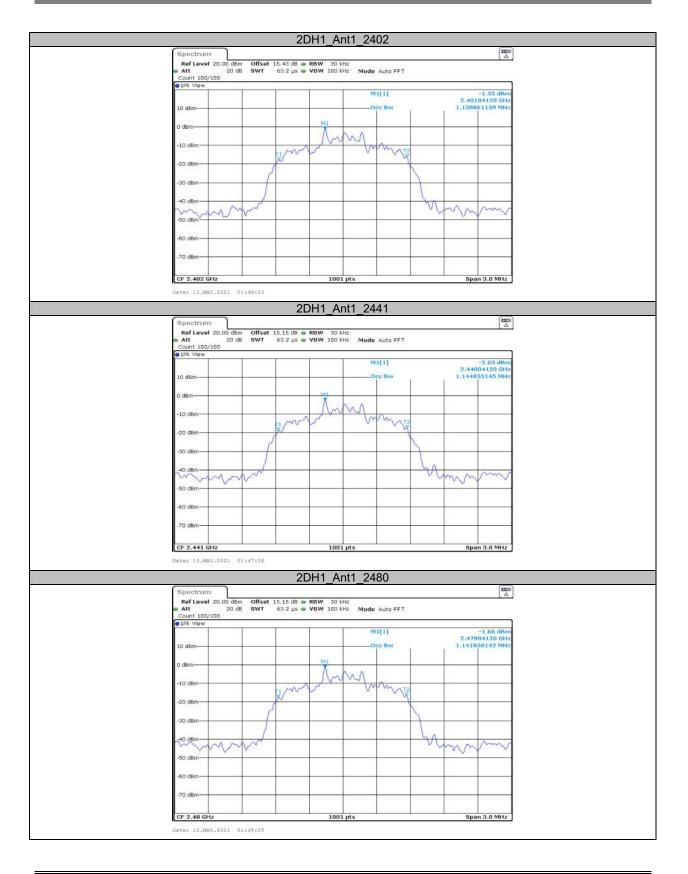


Appendix B: Occupied Channel Bandwidth Test Result

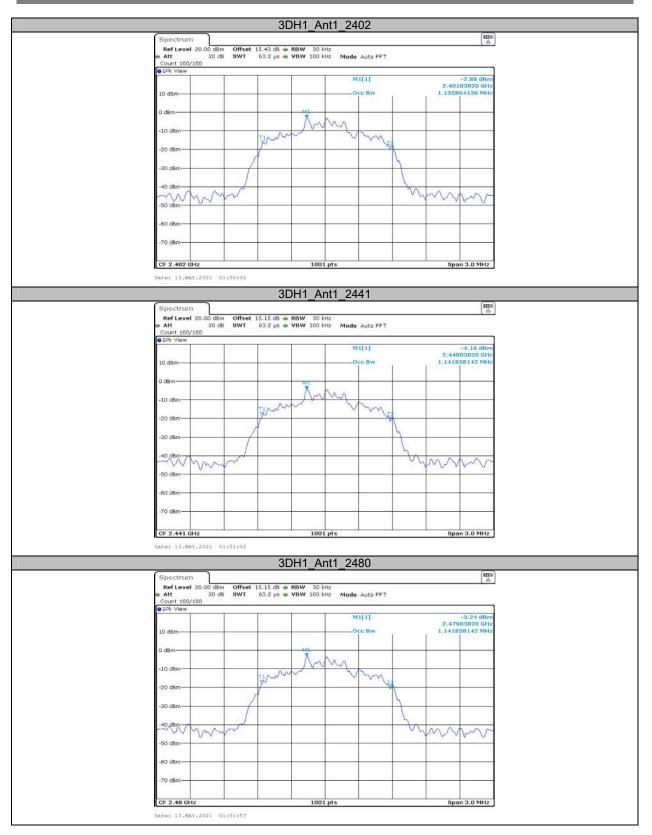
Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.725		PASS
		2441	0.725		PASS
		2480	0.722		PASS
2DH1	Ant1	2402	1.139		PASS
		2441	1.145		PASS
		2480	1.142		PASS
3DH1		2402	1.136		PASS
	Ant1	2441	1.142		PASS
		2480	1.142		PASS

Test Graphs





Report No.: SZNS210428-54815E-RFA



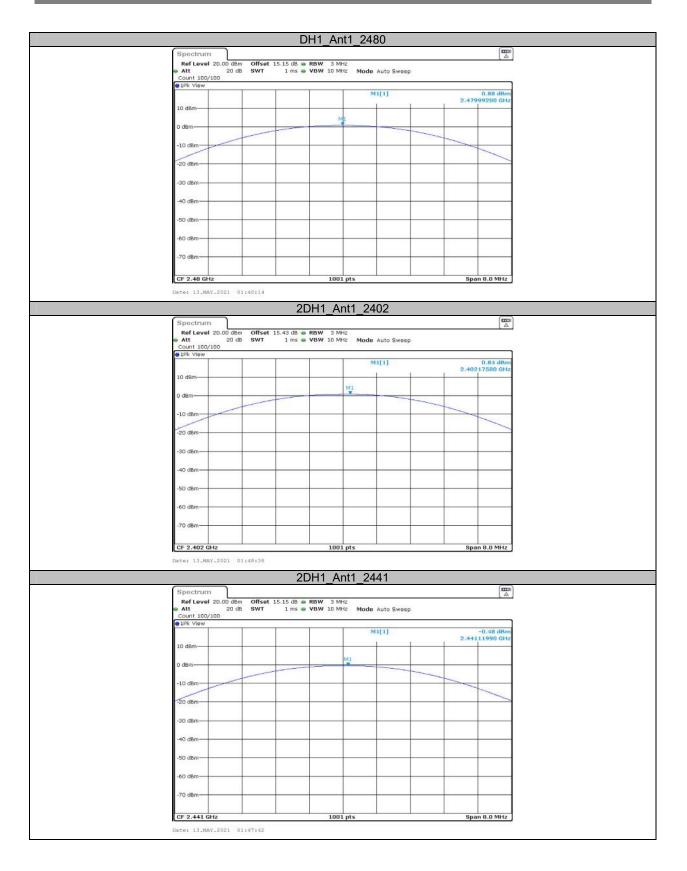
Appendix C: Maximum conducted Peak output power Test Result

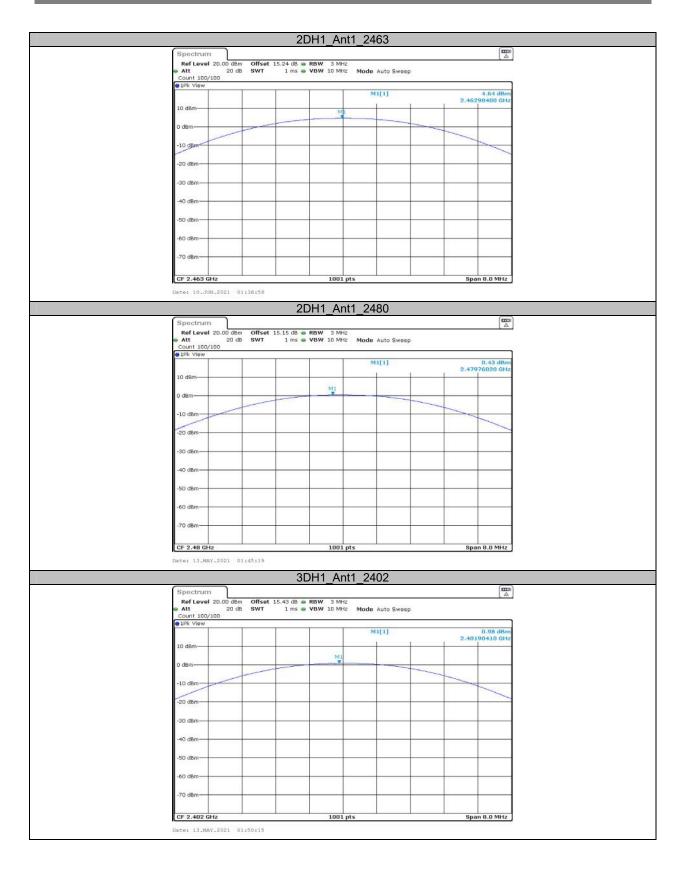
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
	Ant1	2402	1.39	<=20.97	PASS
DH1		2441	0.01	<=20.97	PASS
	Anti	2463	5.53	<=20.97	PASS
		2480	0.88	<=20.97	PASS
	Ant1	2402	0.84	<=20.97	PASS
2DH1		2441	-0.48	<=20.97	PASS
2001		2463	4.64	<=20.97	PASS
		2480	0.43	<=20.97	PASS
	Ant1	2402	0.98	<=20.97	PASS
3DH1		2441	-0.39	<=20.97	PASS
	AIILI	2463	4.97	<=20.97	PASS
		2480	0.47	<=20.97	PASS

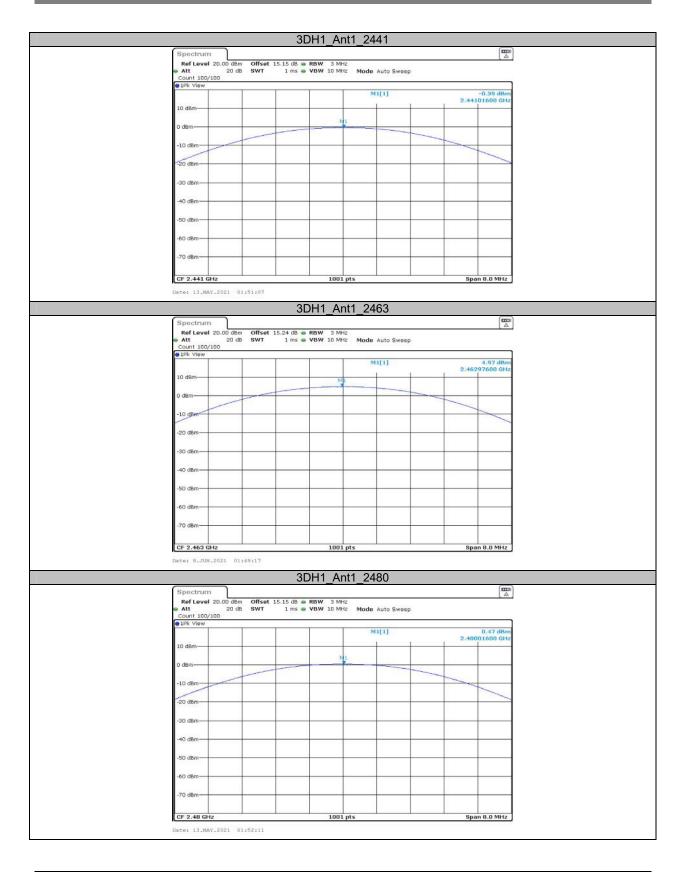
Note: The maximum EIRP is 5.53dBm+1.2dBi=6.73dBm<36dBm, so it's compliance with ISEDC EIRP limit.

Test Graphs

ns	DH1_Ant1_2402	
Spectrum		
Att 20 dB SWT 1 r	dB 🖷 RBW 3 MHz ns 🖷 VBW 10 MHz 🛛 Mode Auto Sweep	
Count 100/100 PlPk View	M1[1]	1.00.40.0
10 dBm-	M1[1]	1.39 dBm 2.40204800 GHz
	P11	
0 dBm		
-10 dBm		
-20 dBm		
-30 dBm		
-40 dBm		
-50 dBm		
-60 dBm-		
-70 dBm-		
CF 2.402 GHz	1001 atc	Poso B D Mily
Date: 13.MAY.2021 01:34:40	1001 pts	Span 8.0 MHz
	DH1_Ant1_2441	
Spectrum	/	
RefLevel 20.00 dBm Offset 15.15 of Att 20 dB SWT 1 m	dB RBW 3 MHz ns VBW 10 MHz Mode Auto Sweep	1 1
Count 100/100		
	M1[1]	0.01 dBm 2.44102400 GHz
10 dBm-		
0 dBm	MI	
-10 dBm		
-20 dBm		
2 Yes 1 March 11		1 T T
-30 dBm		
-40 dBm-		
-50 dBm		
-60 dBm		
-70 dBm		
CF 2.441 GHz	1001 pts	Span 8.0 MHz
Date: 13.MAY.2021 01:36:03		
	DH1_Ant1_2463	
Ref Level 20.00 dBm Offset 15.24	dB 🖷 RBW 3 MHz	
Ref Level 20.00 dBm Offset 15.24 (Att 20 dB SWT 1 r Count 100/100	dB • RBW 3 MHz ns • VBW 10 MHz Mode Auto Sweep	
RefLevel 20.00 dBm Offset 15.24 Att 20 dB SWT 1 r	dB • RBW 3 MHz ns • VBW 10 MHz Mode Auto Sweep M1[1]	5,53 dBm
Ref Level 20.00 dBm Offset 15.24 (Att 20 dB SWT 1 r Count 100/100	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4600000 GHz
RefLevel 20.00 dBm Offset 15.24 (att 20 dB SWT 1 r Count 100/100 PIPk View	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4630000 GHz
Ref Level 20.00 dBm Offset 15.24 • Att 20 /// B SWT 1 /r Count 100/100 // In // In // In • 10 dBm // In // In // In 0 dBm // In // In // In // In	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.46300000 GHz
Ref Level 20.00 dBm Offset 15.24 att 20 dB SWT 1 m Count 100/100 100/100 ID dBm 0 dBm 10 dBm -10 dBm -10 dBm -10 dBm	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.46300000 GHz
Ref Level 20.00 dBm Offset 15.24 • Att 20 /// B SWT 1 /r Count 100/100 // In // In // In • 10 dBm // In // In // In 0 dBm // In // In // In // In	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.46300000 GHz
Ref Level 20.00 dBm Offset 15.24 att 20 dB SWT 1 m Count 100/100 100/100 ID dBm 0 dBm 10 dBm -10 dBm -10 dBm -10 dBm	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.52 dBm 2.4600000 GHz
Ref Level 20.00 dBm Offset 15.24 Att 20 dB SWT 1 r Count 100/100 I Pk View 10 dBm 0 dBm 10 dBm 0 dBm -10 dBm -20 dBm	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4690000 GHz
Ref Level 20.00 dBm Offset 15.24 • Att 20 dB SWT 1 r Count 100/100 • IPk View • • • 10 dBm • • • • • • • 10 dBm •	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4600000 GHz
Ref Level 20.00 dBm Offset 15.24 Att 20 dB SWT 1 r Count 100/100 I Pk View 10 dBm 10 dBm 10 dBm 0 dBm - - - -10 dBm -	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4600000 GHz
Ref Level 20.00 dBm Offset 15.24 • Att 20 dB SWT 1 r Count 100/100 • IPk View • • • 10 dBm • • • • • • • 10 dBm •	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4600000 GHz
Ref Level 20.00 dBm Offset 15.24 Att 20 dB SWT 1 r Count 100/100 I Pk View 10 dBm 10 dBm 10 dBm 0 dBm - - - -10 dBm -	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4600000 GHz
Ref Level 20.00 dBm Offset 15.24 Att 20 dB SWT 1 r Count 100/100 IPk View 10 dBm 0 0 0 dBm 0 dBm 0 0 0 0 0 -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -60 dBm </td <td>ns 🖝 VBW 10 MHz Mode Auto Sweep</td> <td>5.53 dBm 2.4630000 GHz</td>	ns 🖝 VBW 10 MHz Mode Auto Sweep	5.53 dBm 2.4630000 GHz







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Appendix D: Carrier frequency separation Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1	>=0.514	PASS
2DH1	Ant1	Нор	1	>=0.816	PASS
3DH1	Ant1	Нор	1	>=0.814	PASS

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Appendix E: Time of occupancy Test Result

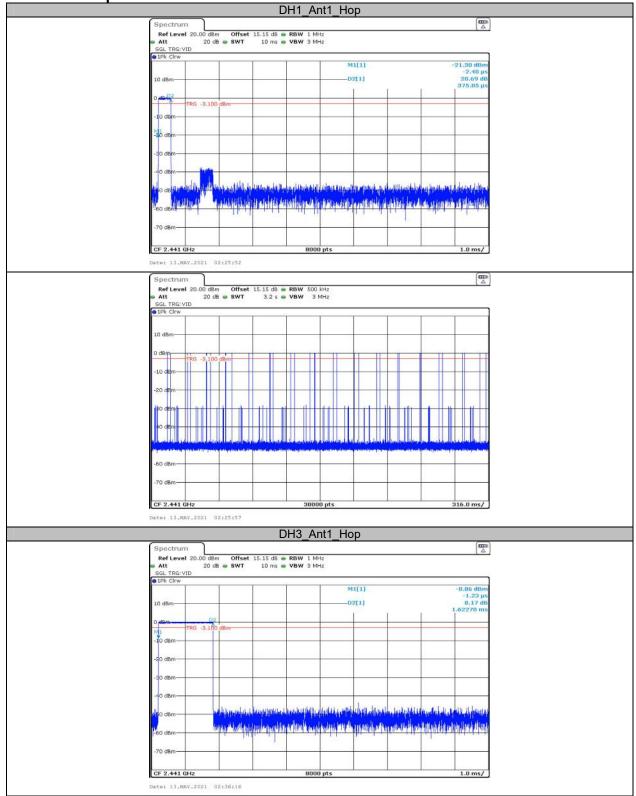
Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.38	330	0.124	<=0.4	PASS
DH3	Ant1	Нор	1.62	170	0.276	<=0.4	PASS
DH5	Ant1	Нор	2.86	100	0.286	<=0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	<=0.4	PASS
2DH3	Ant1	Нор	1.71	150	0.256	<=0.4	PASS
2DH5	Ant1	Нор	2.87	110	0.315	<=0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.122	<=0.4	PASS
3DH3	Ant1	Нор	1.63	170	0.276	<=0.4	PASS
3DH5	Ant1	Нор	2.87	100	0.287	<=0.4	PASS

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

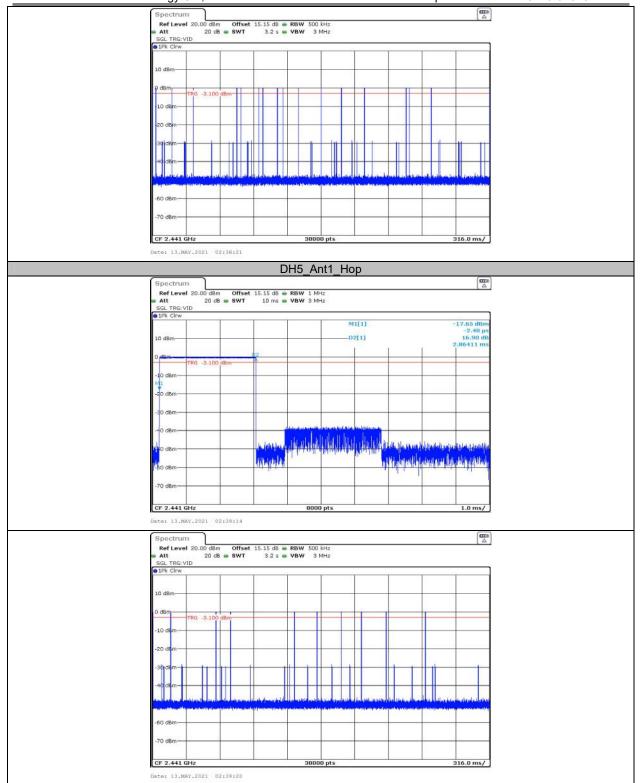
Note 2: Totalhops=Hopping Number in 3.16s*10

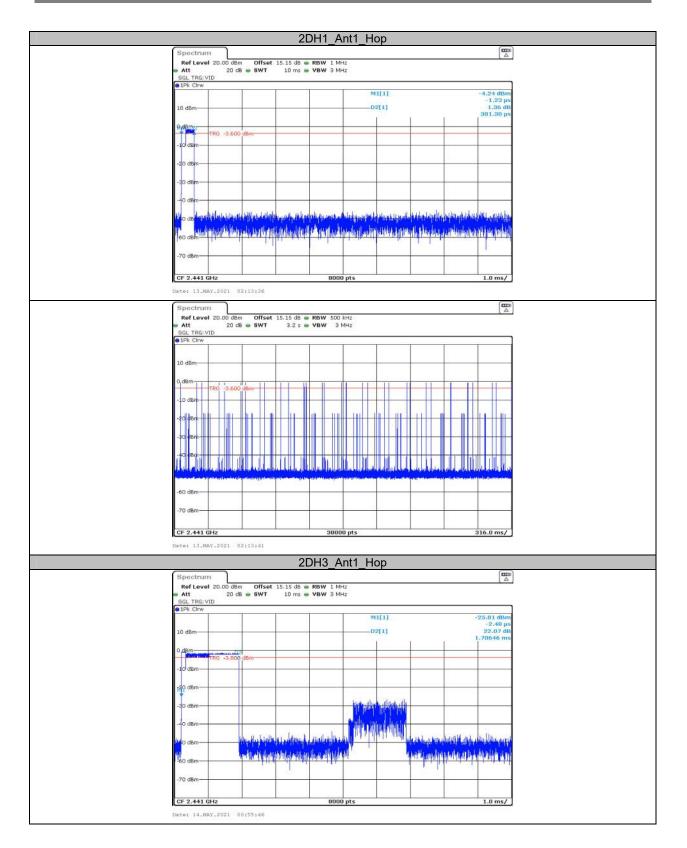
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

Test Graphs

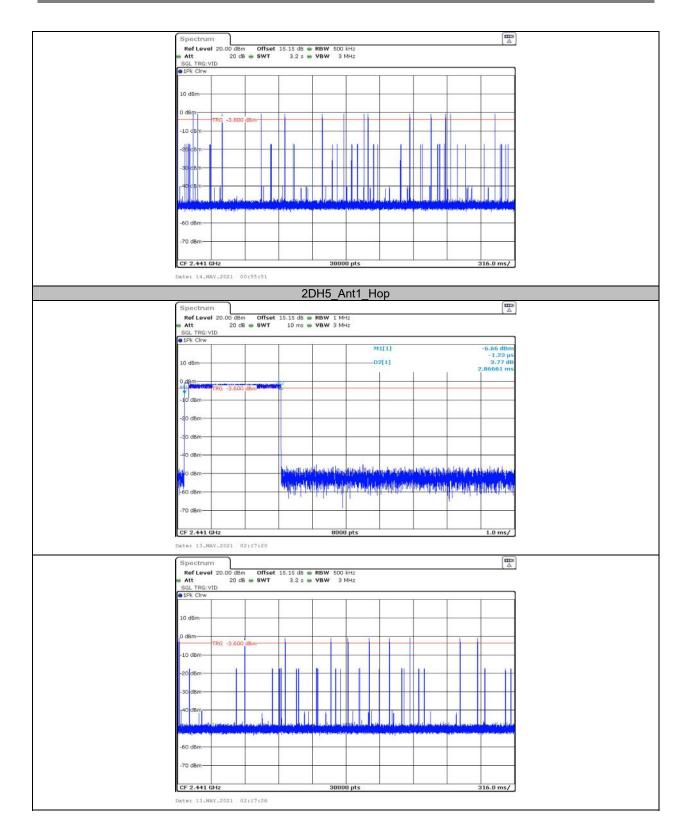


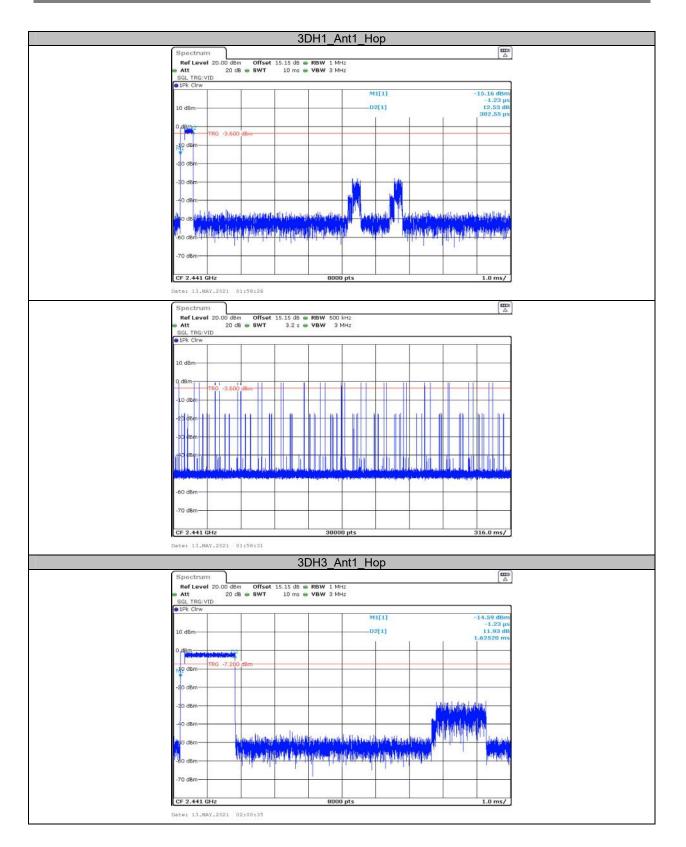
Report No.: SZNS210428-54815E-RFA



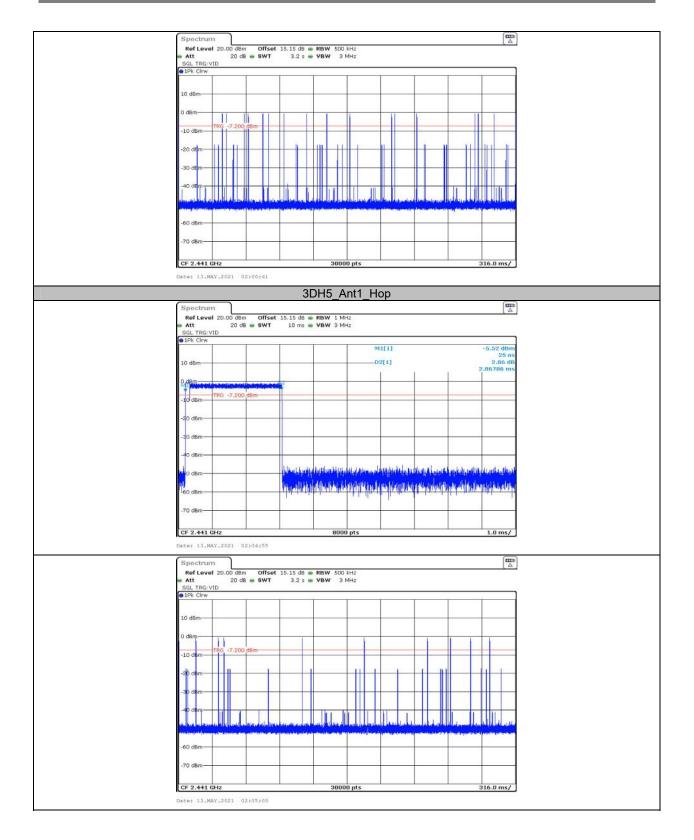


Report No.: SZNS210428-54815E-RFA





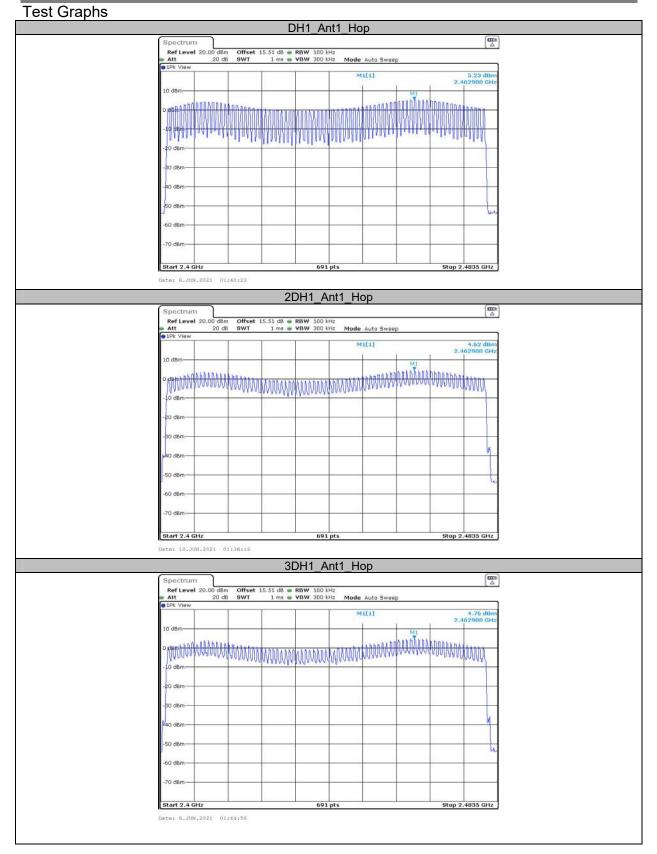
Report No.: SZNS210428-54815E-RFA



Appendix F: Number of hopping channels Test Result

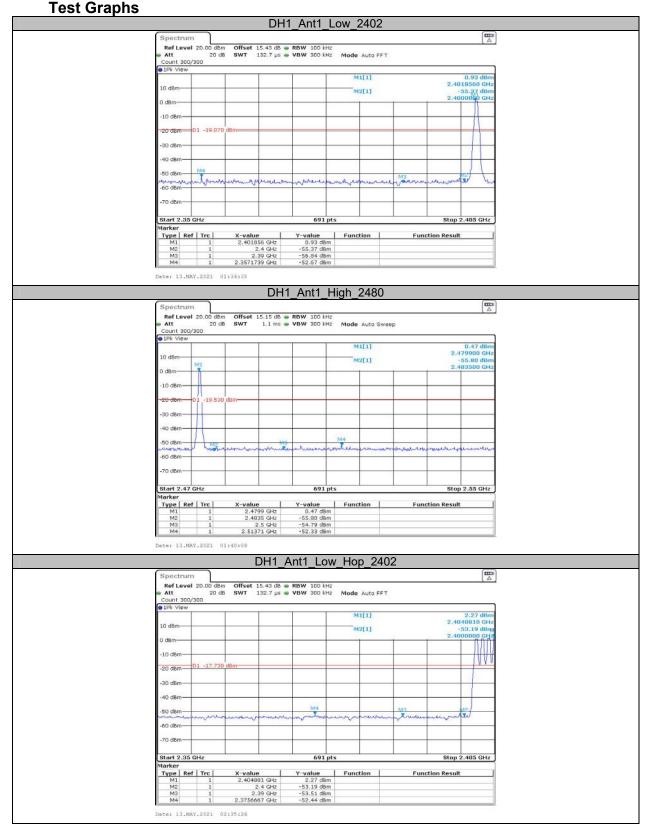
Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	>=15	PASS
2DH1	Ant1	Нор	79	>=15	PASS
3DH1	Ant1	Нор	79	>=15	PASS

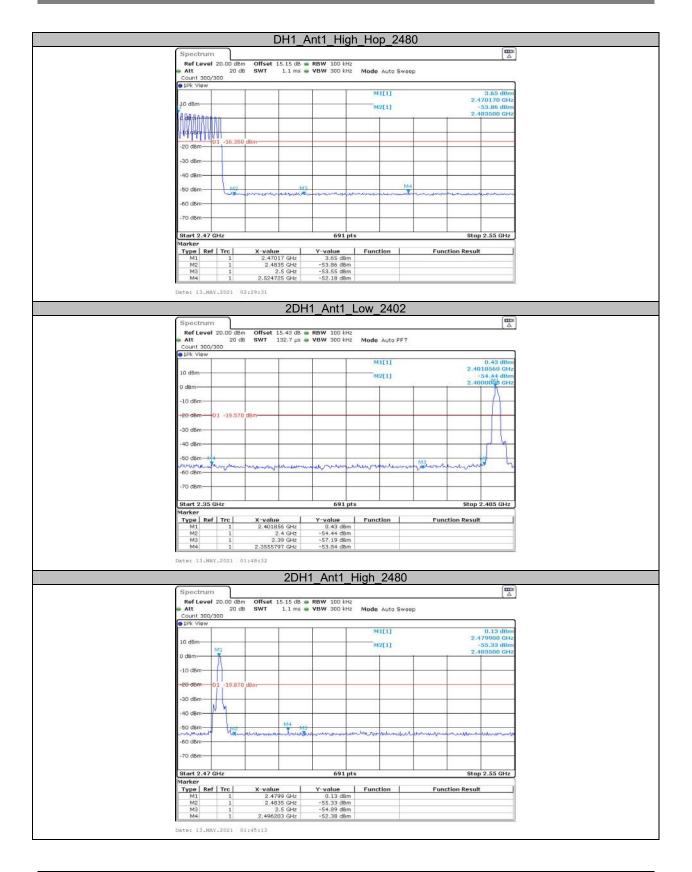
Report No.: SZNS210428-54815E-RFA



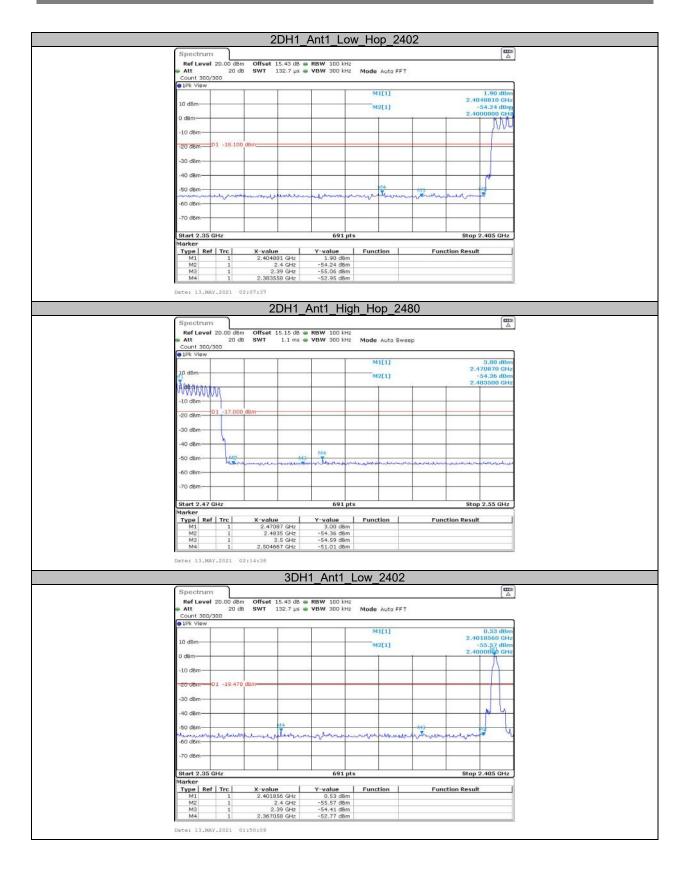
Report No.: SZNS210428-54815E-RFA

Appendix G:Band edge measurements





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