



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: Bolt Modus Corp Oficina N.33 Edificio Ofidepositos Central, Calidonia - Distrito Federal, Panama SZNS220812-36652E-RF-00A 2APW4ART3P

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type:	4G Smart Phone
Model No.:	ART 3 PRO
Multiple Model(s) No.:	N/A
Trade Mark:	YEZZ
Date Received:	2022/08/12
Report Date:	2022/09/14

Test Result:

Pass*

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

Prepared and Checked By:

Roger, Ling

Roger Ling EMC Engineer

Approved By:

Candry . 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 "* ".

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Version 11: 2021-11-09

Page 1 of 60

FCC-BT

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
TEST METHODOLOGY	4
Measurement Uncertainty Test Facility	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EUT EXERCISE SOFTWARE	
SPECIAL ACCESSORIES	
SUPPORT EQUIPMENT LIST AND DETAILS	
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	8
TEST EQUIPMENT LIST	9
-	
FCC§15.247 (I), §1.1307 (B) (3) &§2.1093 – RF EXPOSURE	11
APPLICABLE STANDARD	11
Result	12
FCC §15.203 – ANTENNA REQUIREMENT	13
APPLICABLE STANDARD	
ANTENNA CONNECTOR CONSTRUCTION	13
FCC §15.207 (A) – AC LINE CONDUCTED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER SETUP	
Test Procedure Transd Factor & Margin Calculation	
TEST DATA	
FCC §15.205, §15.209 & §15.247(D) – RADIATED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
TEST PROCEDURE	
FACTOR & MARGIN CALCULATION	
TEST DATA	19
FCC §15.247(A) (1)-CHANNEL SEPARATION TEST	27
APPLICABLE STANDARD	27
Test Procedure	
TEST DATA	27

Version 11: 2021-11-09

FCC §15.247(A) (1) – 20 DB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH	
APPLICABLE STANDARD	
Test Procedure	
TEST DATA	29
FCC §15.247(A) (1) (III)-QUANTITY OF HOPPING CHANNEL TEST	30
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST DATA	
FCC §15.247(A) (1) (III) - TIME OF OCCUPANCY (DWELL TIME)	31
APPLICABLE STANDARD	31
Test Procedure	31
TEST DATA	
FCC §15.247(B) (1) - PEAK OUTPUT POWER MEASUREMENT	32
APPLICABLE STANDARD	
Test Procedure	
TEST DATA	32
FCC §15.247(D) - BAND EDGES TESTING	
APPLICABLE STANDARD	
Test Procedure	
TEST DATA	
APPENDIX	34
APPENDIX A: 20DB EMISSION BANDWIDTH	
APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	
APPENDIX C: MAXIMUM CONDUCTED PEAK OUTPUT POWER	42
APPENDIX D: CARRIER FREQUENCY SEPARATION	
APPENDIX E: TIME OF OCCUPANCY	
APPENDIX F: NUMBER OF HOPPING CHANNELS	
APPENDIX G: BAND EDGE MEASUREMENTS	57

GENERAL INFORMATION

Product Description for Equipment under Test (EUT

Frequency Range	Bluetooth: 2402~2480MHz
Maximum conducted Peak output power	Bluetooth: 1.01dBm
Modulation Technique	Bluetooth: GFSK, π/4-DQPSK, 8DPSK
Antenna Specification*	-1.0dBi (provided by the applicant)
Voltage Range	DC 3.85V from battery or DC 5V from adapter
Sample serial number	SZNS220812-36652E-RF-S1 for Conducted and Radiated Emissions SZNS220812-36652E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: CART3P Input: AC 100-240V, 50/60Hz Output: DC 5.0V, 2.0A

Objective

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

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

Test Methodology

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

All 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 U	Uncertainty
---------------	-------------

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	5%	
RF output po	wer, conducted	0.73dB	
Unwanted Emi	ssion, conducted	1.6dB	
AC Line Conducted emission		2.72dB	
	30MHz - 1GHz	4.28dB	
Emissions, Radiated	1GHz - 18GHz	4.98dB	
Radiated	18GHz - 26.5GHz	5.06dB	
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 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), 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

Test in the engineering mode and the power level is 6*, which provided by applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Manufacturer Description		Serial Number
/	/	/	/

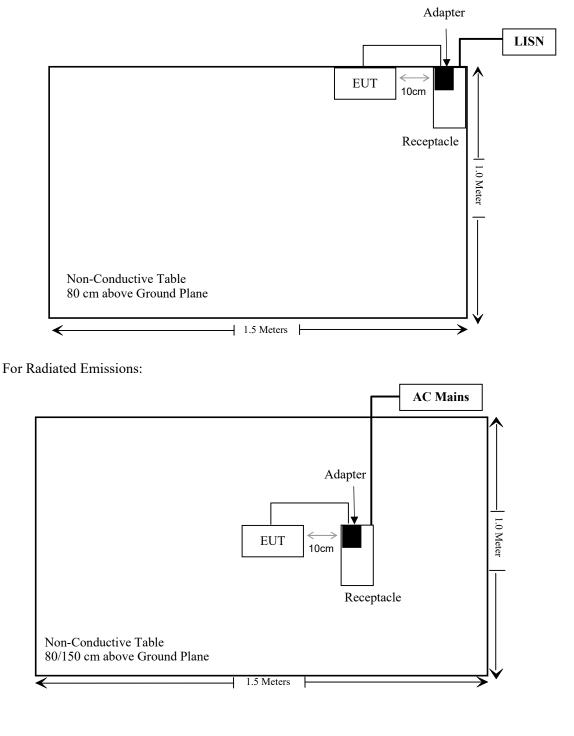
External I/O Cable

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

Report No.: SZNS220812-36652E-RF-00A

Block Diagram of Test Setup

For conducted emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (3) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	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	2021/12/13	2022/12/12	
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12	
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12	
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13	
Conducted Emission	Test Software: e3 19821	b (V9)				
		Radiated Emissi	ons Test			
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12	
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12	
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08	
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08	
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10	
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05	
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04	
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04	
Radiated Emission T	est Software: e3 19821b	(V9)				
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13	
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13	

Version 11: 2021-11-09

FCC-BT

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	RF Conducted Test				
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101948	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/10/26	2022/10/25
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.31	RF-01	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) (3) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

SAR-Based Exemption:

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum timeaveraged power or maximum time-averaged ERP, whichever is greater.

Per § 1.1307(b)(3)(i)(B), for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20 \ cm} (d/20 \ cm)^x & d \le 20 \ cm \\ ERP_{20 \ cm} & 20 \ cm < d \le 40 \ cm \end{cases}$$

Where

 $x = -\log_{10}\left(\frac{60}{ERP_{20} cm\sqrt{f}}\right)$ and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

Result

For worst case:

Exemption limit:

For f=2.48GHz, d=0.5cm, the $P_{th}=2.72$ mW

The higher of the available maximum time-averaged power or effective radiated power (ERP):

The antenna gain is -1.0dBi(-3.15dBd), 0dBd=2.15dBi

The maximum tune-up conducted power is 1.5dBm (1.41mW), which less than 2.72mW@2480MHz exemption limit.

So the stand-alone SAR evaluation can be exempted.

FCC §15.203 – 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.

Antenna Connector Construction

The EUT has one internal antenna, which was permanently attached, and the maximum antenna gain is - 1.0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

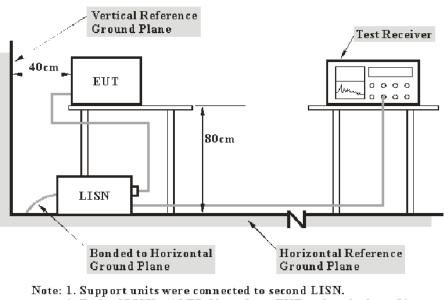
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



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.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

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

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

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

Transd Factor & Margin Calculation

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

Transd 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

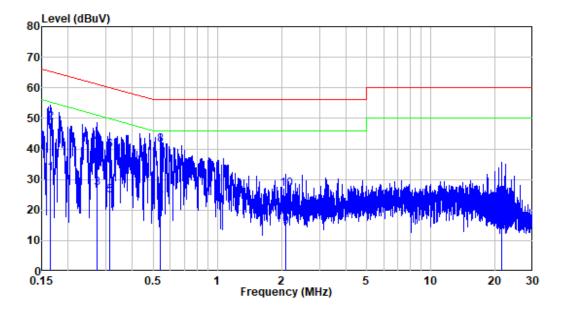
Environmental Conditions

Temperature:	24 °C
Relative Humidity:	42%
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-08-24.

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

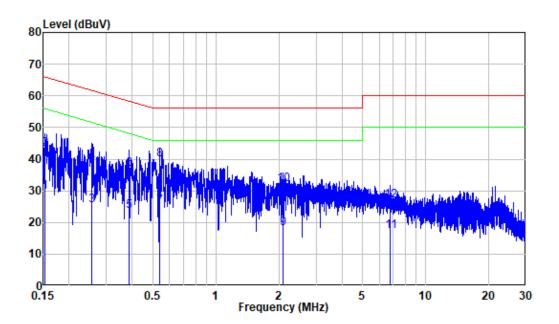
AC 120V/60 Hz, Line



Site	:	Shielding Room
Condition	:	Line
Job No.	:	SZNS220812-36652E-RF
Mode	:	Charging + BT Transmitting
Power	:	AC 120V 60Hz

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.165	9.80	22.34	32.14	55.19	-23.05	Average
2	0.165	9.80	38.93	48.73	65.19	-16.46	QP
3	0.272	9.80	17.39	27.19	51.07	-23.88	Average
4	0.272	9.80	31.98	41.78	61.07	-19.29	QP
5	0.311	9.80	14.88	24.68	49.93	-25.25	Average
6	0.311	9.80	29.78	39.58	59.93	-20.35	QP
7	0.542	9.81	12.51	22.32	46.00	-23.68	Average
8	0.542	9.81	31.56	41.37	56.00	-14.63	QP
9	2.092	9.82	4.68	14.50	46.00	-31.50	Average
10	2.092	9.82	17.16	26.98	56.00	-29.02	QP
11	21.458	10.01	1.26	11.27	50.00	-38.73	Average
12	21.458	10.01	12.33	22.34	60.00	-37.66	QP

AC 120V/60 Hz, Neutral



Site	:	Shielding Room
Condition	1 :	Neutral
Job No.	:	SZNS220812-36652E-RF
Mode	:	Charging + BT Transmitting
Power	:	AC 120V 60Hz

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	9.80	19.69	29.49	55.81	-26.32	Average
2	0.154	9.80	33.23	43.03	65.81	-22.78	QP
3	0.257	9.80	15.68	25.48	51.52	-26.04	Average
4	0.257	9.80	29.21	39.01	61.52	-22.51	QP
5	0.384	9.80	13.69	23.49	48.19	-24.70	Average
6	0.384	9.80	27.09	36.89	58.19	-21.30	QP
7	0.541	9.81	15.33	25.14	46.00	-20.86	Average
8	0.541	9.81	29.95	39.76	56.00	-16.24	QP
9	2.089	9.82	8.15	17.97	46.00	-28.03	Average
10	2.089	9.82	22.17	31.99	56.00	-24.01	QP
11	6.792	9.96	7.37	17.33	50.00	-32.67	Average
12	6.792	9.96	16.78	26.74	60.00	-33.26	QP

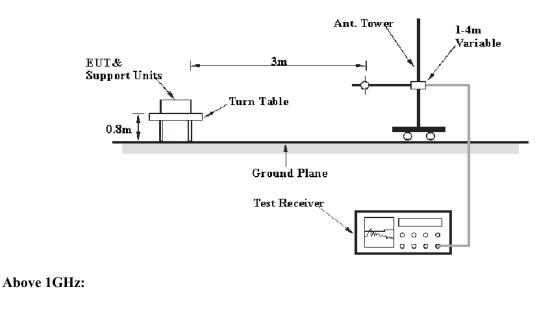
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

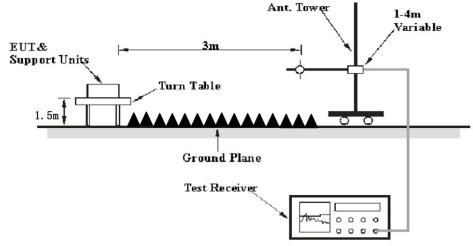
Applicable Standard

FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:





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

For average measurement:

Use the duty cycle factor correction factor method per 15.35(c). Duty cycle=On time/100milliseconds, On time=N1*L1+N2*L2+...Nn-1*Ln-1+Nn*Ln, where N1 is number of type 1 pulses, L1 is length of type 1 pulse, etc. Average Emission Level=Peak Emission Level+20*log(Duty cycle)

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.

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:	25~25.5°C
Relative Humidity:	56~62 %
ATM Pressure:	101.0 kPa

The testing was performed by Level Li on 2022-08-23 for below 1GHz, Zeki Ma from 2022-08-26 to 2022-09-13 for above 1GHz

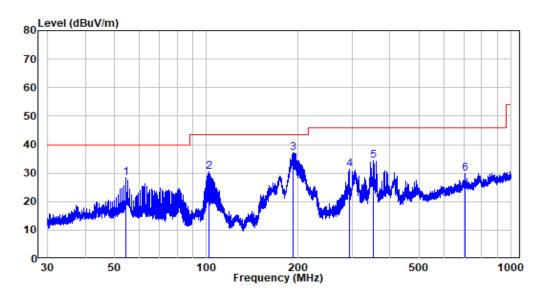
EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes orientation was recorded)

Version 11: 2021-11-09

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

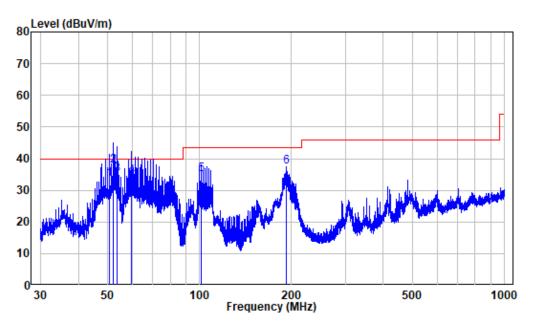
Note: When the test result of Peak was less than the limit of QP, just the peak value was recorded.

Horizontal:



Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS220812-36652E-RF
Test Mode:	Charging+BT Transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.452	-10.32	38.67	28.35	40.00	-11.65	Peak
2	102.001	-11.57	41.93	30.36	43.50	-13.14	Peak
3	191.829	-11.28	48.41	37.13	43.50	-6.37	Peak
4	293.856	-9.27	40.72	31.45	46.00	-14.55	Peak
5	353.873	-7.45	42.01	34.56	46.00	-11.44	Peak
6	706.081	-1.47	31.28	29.81	46.00	-16.19	Peak



Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZNS220812-36652E-RF Test Mode: Charging+BT Transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	50.608	-9.93	43.34	33.41	40.00	-6.59	QP
2	52.162	-10.00	47.79	37.79	40.00	-2.21	QP
3	53.693	-10.29	45.20	34.91	40.00	-5.09	QP
4	59.859	-10.57	44.89	34.32	40.00	-5.68	QP
5	101.289	-11.65	46.68	35.03	43.50	-8.47	QP
6	191.913	-11.26	48.74	37.48	43.50	-6.02	Peak

Report No.: SZNS220812-36652E-RF-00A

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

_	Receiver			Rx An	itenna	Corrected	Corrected			
Frequency (MHz)	Reading (dBµV)	PK/QP/AV	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
Low Channel (2402 MHz)										
2310	67.95	PK	327	1.3	Н	-7.24	60.71	74	-13.29	
2310	67.81	РК	226	1.1	V	-7.24	60.57	74	-13.43	
2390	69.62	PK	30	1.1	Н	-7.22	62.40	74	-11.60	
2390	69.98	РК	185	1.7	V	-7.22	62.76	74	-11.24	
4804	54.14	РК	109	2.3	Н	-3.51	50.63	74	-23.37	
4804	53.94	РК	77	2.3	V	-3.51	50.43	74	-23.57	
			Middle C	hannel ((2441 M	fHz)				
4882	54.36	PK	86	2.3	Н	-3.37	50.99	74	-23.01	
4882	54.42	PK	296	2.3	V	-3.37	51.05	74	-22.95	
			High Ch	annel (2	2480 MI	Hz)	_			
2483.5	69.97	PK	233	2.4	Н	-7.20	62.77	74	-11.23	
2483.5	69.86	РК	185	1.3	V	-7.20	62.66	74	-11.34	
2500	68.31	РК	147	1.2	Н	-7.18	61.13	74	-12.87	
2500	68.68	РК	329	2.5	V	-7.18	61.5	74	-12.50	
4960	53.87	РК	189	1.4	Н	-3.01	50.86	74	-23.14	
4960	54.21	РК	216	1.4	V	-3.01	51.20	74	-22.80	

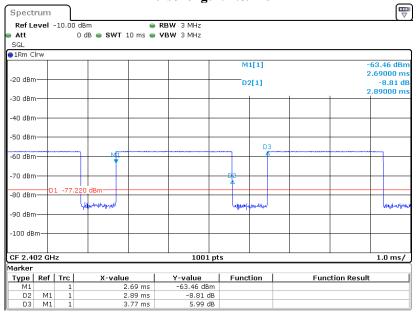
Report No.: SZNS220812-36652E-RF-00A

Field Strength of Average								
Frequency (MHz)	Peak Measurement	Polar	Duty Cycle Correction	Corrected	FCC Part 15.247			
	@3m (dBµV/m)	@3m (H/V)		Ampitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
Low Channel(2402MHz)								
2310	60.71	Н	-24.76	35.95	54	-18.05		
2310	60.57	V	-24.76	35.81	54	-18.19		
2390	62.40	Н	-24.76	37.64	54	-16.36		
2390	62.76	V	-24.76	38.00	54	-16.00		
4804	50.63	Н	-24.76	25.87	54	-28.13		
4804	50.43	V	-24.76	25.67	54	-28.33		
		Mic	Idle Channel(24	41MHz)				
4882	50.99	Н	-24.76	26.23	54	-27.77		
4882	51.05	V	-24.76	26.29	54	-27.71		
	High Channel(2480MHz)							
2483.5	62.77	Н	-24.76	38.01	54	-15.99		
2483.5	62.66	V	-24.76	37.90	54	-16.10		
2500	61.13	Н	-24.76	36.37	54	-17.63		
2500	61.50	V	-24.76	36.74	54	-17.26		
4960	50.86	Н	-24.76	26.10	54	-27.90		
4960	51.20	V	-24.76	26.44	54	-27.56		

Note:

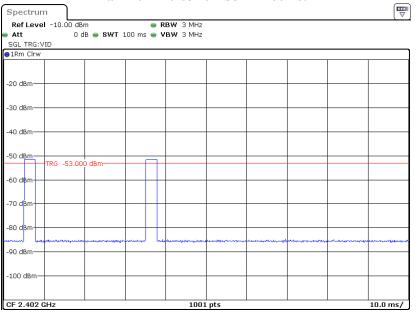
Absolute Level = Corrected Factor + Reading Margin = Corrected. Amplitude - Limit Average level= Peak level+ Duty Cycle Corrected Factor

The worst case duty cycle as below: Duty cycle = Ton/100ms = 2.89*2/100=0.0578 Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.0578 = -24.76



Pulse length: 2.89ms

Date: 26.AUG.2022 21:37:02



Maximum Pulse number in 100ms: 2

Date: 13.SEP.2022 11:08:26

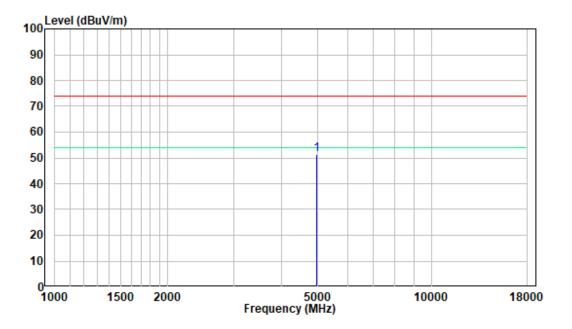
1-18GHz

Pre-scan for High Channel

100 Level (dBuV/m) 90 80 70 60 50 40 30 20 10 0 1000 5000 Frequency (MHz) 1500 2000 10000 18000

Horizontal:

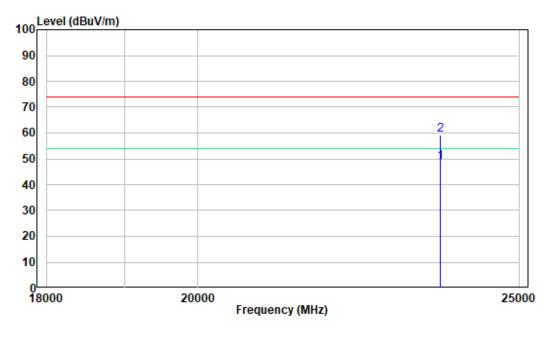
Vertical:



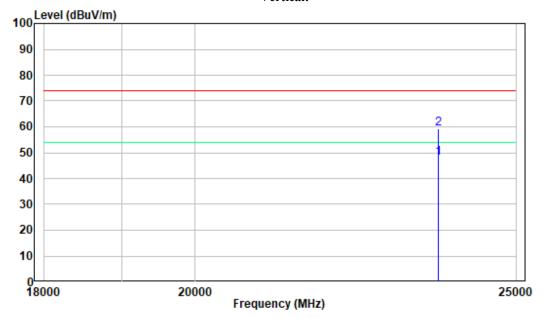
18-25GHz

Pre-scan for High Channel

Horizontal:







FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

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.

Test Procedure

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



Test Data

Environmental Conditions

Temperature:	25.2 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

EUT operation mode: Transmitting

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

Applicable Standard

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

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.

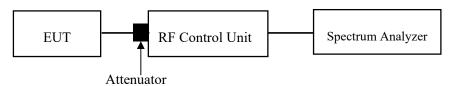
• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• 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:	25.2 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

EUT operation mode: Transmitting

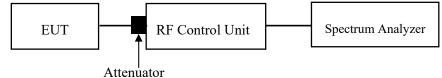
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

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.

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:	25.2 ℃	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

EUT operation mode: Transmitting

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

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.

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:	25.2 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

EUT operation mode: Transmitting

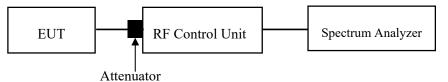
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

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

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:	25.2 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

EUT operation mode: Transmitting

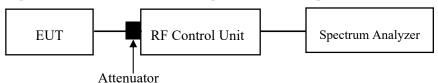
FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. 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:	25.2 °C	
Relative Humidity:	57 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Roger Ling on 2022-09-13.

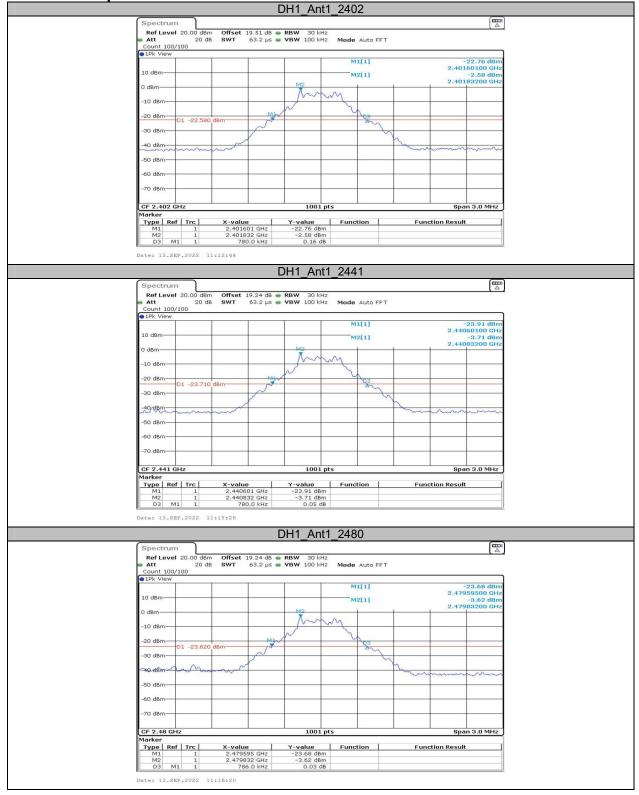
EUT operation mode: Transmitting

APPENDIX

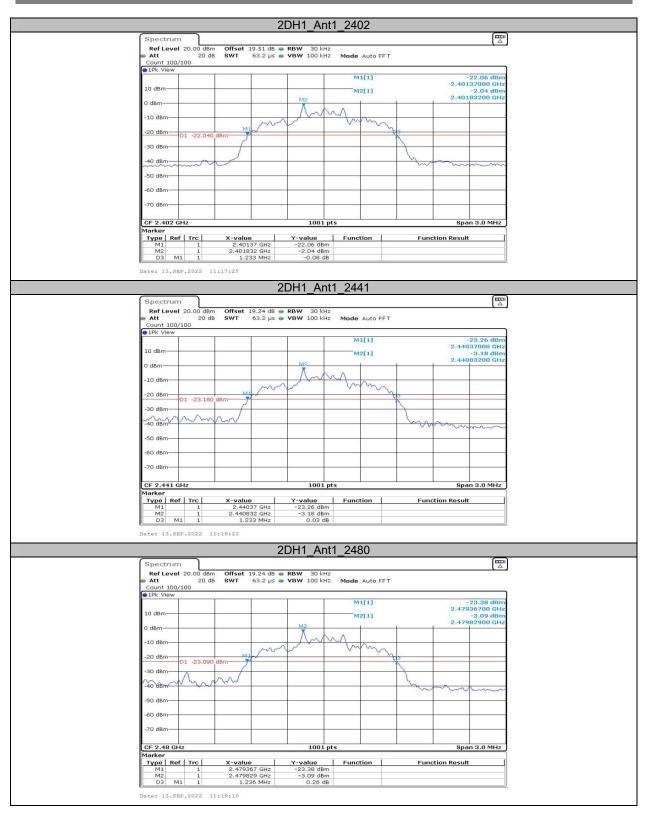
Appendix A: 20dB Emission Bandwidth Test Result

root Roodit					
Test Mode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.78		
		2441	0.78		
		2480	0.79		
	Ant1	2402	1.23		
2DH1		2441	1.23		
		2480	1.24		
	Ant1	2402	1.22		
3DH1		2441	1.22		
		2480	1.22		

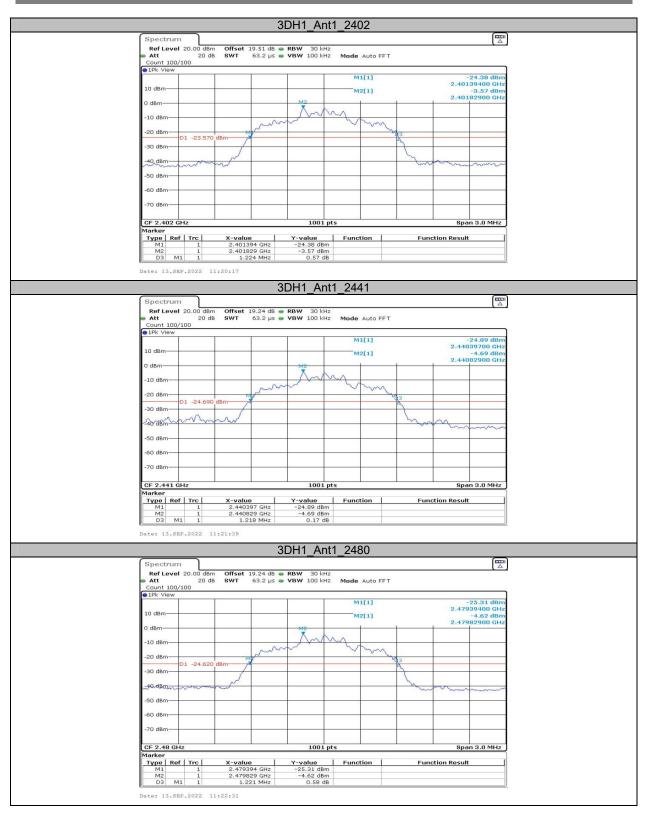
Test Graphs



Report No.: SZNS220812-36652E-RF-00A

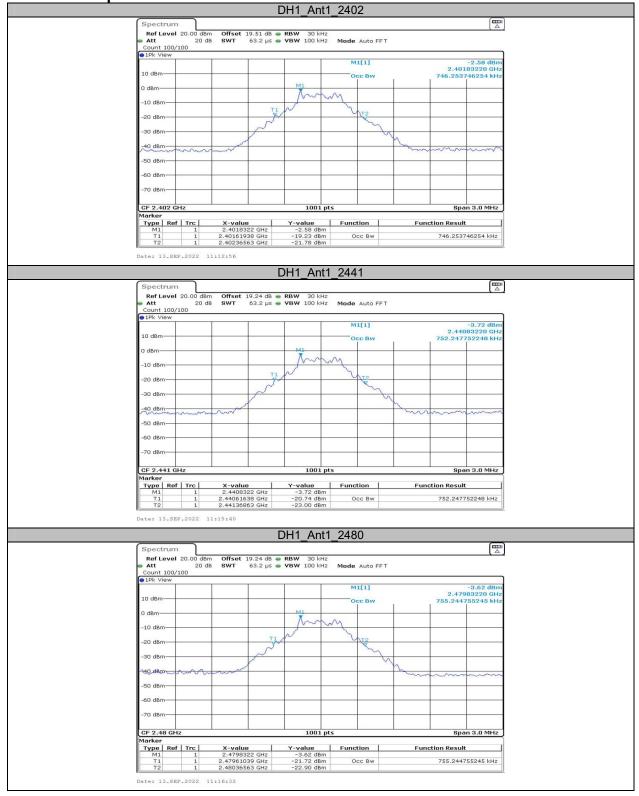


Report No.: SZNS220812-36652E-RF-00A



Appendix B: Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
		2402	0.746		
DH1	DH1 Ant1	2441	0.752		
		2480	0.755		
	2DH1 Ant1	2402	1.142		
2DH1		2441	1.154		
		2480	1.154		
		2402	1.139		
3DH1	Ant1	2441	1.157		
		2480	1.145		



Report No.: SZNS220812-36652E-RF-00A



Report No.: SZNS220812-36652E-RF-00A

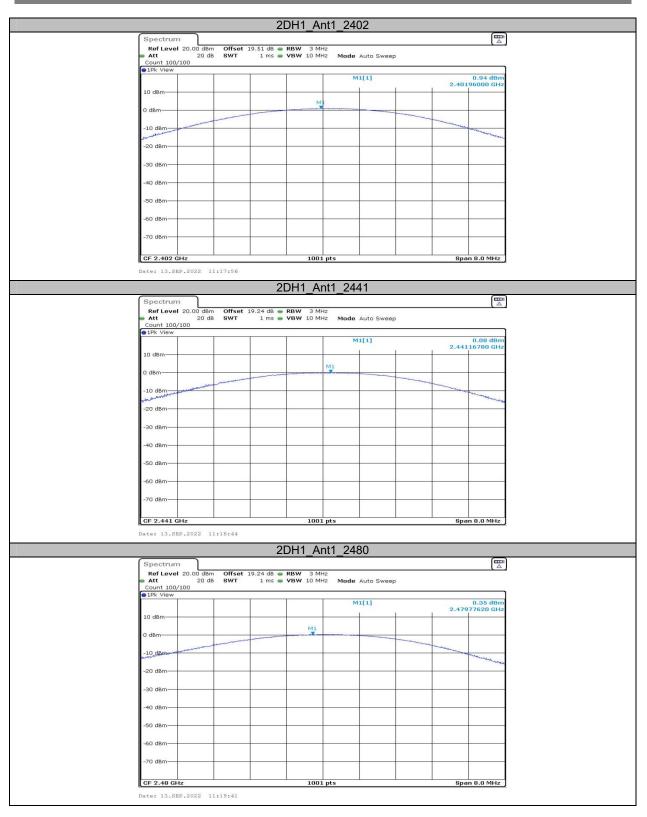


Appendix C: Maximum conducted Peak output power Test Result

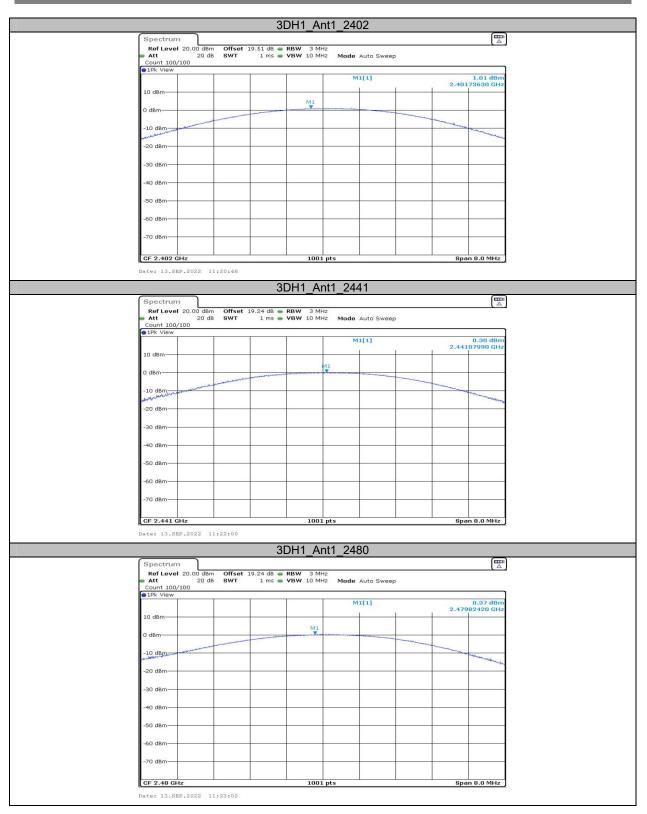
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	0.70	≤20.97	PASS
DH1	Ant1	2441	-0.18	≤20.97	PASS
		2480	0.01	≤20.97	PASS
		2402	0.94	≤20.97	PASS
2DH1	Ant1	2441	0.08	≤20.97	PASS
		2480	0.35	≤20.97	PASS
		2402	1.01	≤20.97	PASS
3DH1	Ant1	2441	0.30	≤20.97	PASS
		2480	0.37	≤20.97	PASS

	2	C	0H1_An	t1_240)2				
Spectrum Ref Level 20.	00 dBm Offset	19.51 dB 👄	RBW 3 M	łz					
 Att Count 100/100 	20 dB SWT	1 ms 👄	VBW 10 MH	iz Mode	Auto Sweep	p			
• 1Pk View				N	1[1]			0.70 dBm	
10 dBm						1	2.402	11190 GHz	
0 dBm				M1					
-10 dBm	and the second s						- marker		
-20 dBm								- here and	
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.402 GHz			1001	pts			Spa	n 8.0 MHz	
Date: 13.SEP.20	022 11:13:14								
		D	0H1_An	t1_244	1				
Spectrum									
Ref Level 20. Att Count 100/100	20 dBm Offset	19.24 dB 👄 1 ms 👄	VBW 10 M	iz Mode	Auto Sweep	р			
• 1Pk View		1		N	1[1]			-0.18 dBm	
10 dBm						1	2.441	23980 GHz	
0 dBm				M1		_			
-10 dBm									
- And and a state of the state								manne and	
-20 dBm									
-30 dBm									
-40 dBm				-					
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.441 GHz			1001	nts			Sna	n 8.0 MHz	
Date: 13.SEP.20	022 11:15:49		1001	pes			000	10.0 1012	
		Γ)H1 An	t1 248	30				
Spectrum									
Ref Level 20. Att Count 100/100	00 dBm Offset 20 dB SWT	19.24 dB 👄 1 ms 👄			Auto Sweep	p			
Count 100/100 Pk View		1		N	1[1]			0.01 dBm	
10 dBm							2.480	15980 GHz	
0 dBm				MI					
-10 dBm									
and the second							-		
-20 dBm									
		1							
-30 dBm			1						
-30 dBm									
-40 dBm									
-40 dBm									
-40 dBm			1001					n 8.0 MHz	

Report No.: SZNS220812-36652E-RF-00A



Report No.: SZNS220812-36652E-RF-00A



Appendix D: Carrier frequency separation Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.002	≥0.527	PASS
2DH1	Ant1	Нор	1.003	≥0.827	PASS
3DH1	Ant1	Нор	0.994	≥0.813	PASS



Report No.: SZNS220812-36652E-RF-00A

Appendix E: Time of occupancy Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	320	0.120	≤0.4	PASS
DH3	Ant1	Нор	1.62	180	0.292	≤0.4	PASS
DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Нор	1.63	150	0.244	≤0.4	PASS
2DH5	Ant1	Нор	2.87	110	0.315	≤0.4	PASS
3DH1	Ant1	Нор	0.38	330	0.126	≤0.4	PASS
3DH3	Ant1	Нор	1.63	150	0.244	≤0.4	PASS
3DH5	Ant1	Нор	2.87	120	0.344	≤0.4	PASS

Note 1: A period time=0.4*79=31.6(S), Result=Burst Width*Total hops

Note 2: Total hops=Hopping Number in 3.16s*10

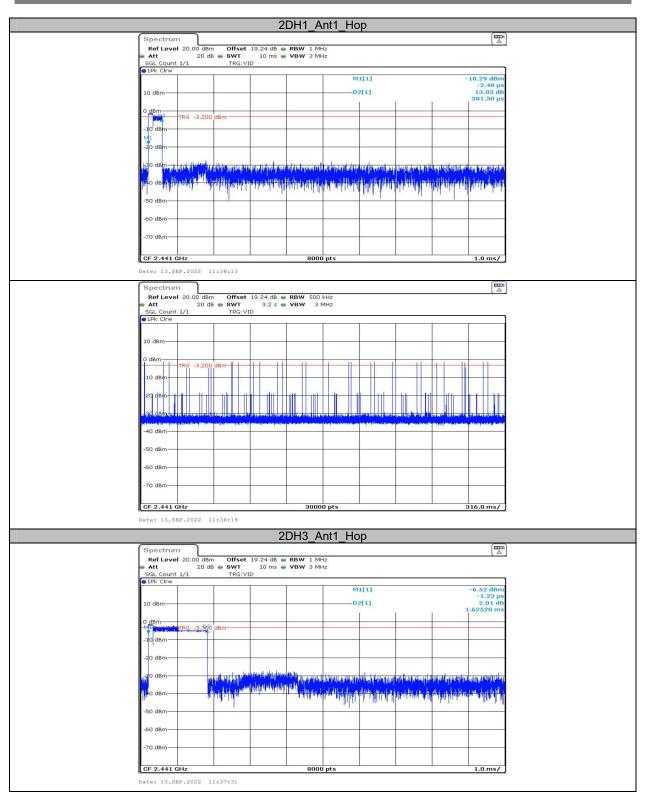
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

Test Graphs			Г	DH1_Ar	tt Ho	n			
	Spectrum		L			P			
	Ref Level 20.00 dBm			RBW 1 MH					
	Att 20 dB SGL Count 1/1	SWT TRG: VI		VBW 3 MH	z				
	91Pk Clrw			1		1[1]			-8.60 dBm
									-1.23 µs
	10 dBm					2[1]		e	6.16 dB 373.80 µs
	0 dBm2 M1 TRG -3.600 (dD es			2				
	-10 dBm	10111							
	-20 dBm								
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	do det Louis Linked Links		hubberskie z.	All de madeil de	المتعادين وليقاد	A collected of	in the state of the	steaders is utilal	at mala and
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	-50 dBm								
	-60 dBm				-		-	-	-
	-70 dBm								
	- / 0 dbm								
	CF 2.441 GHz			8000	pts				1.0 ms/
	Date: 13.SEP.2022 11	:29:25							
	Spectrum								
	Ref Level 20.00 dBm Att 20 dB	Offset SWT		RBW 500					
	SGL Count 1/1	TRG: VI	D	1511 31	11.12				,
	DIPK CITW								
	10 dBm								
	0.40								
	0 dBm	dBm							
	-10 dBm								
	-20 dBm								
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		and a state of the	Sample and a state of the second s	Statistic Production	angerennen breet. Angel het befellen		an the first sector sectors and the sector se	Speed and speed and been	talifa na mining si
	-40 dBm-								
	-50 dBm								
	60 d0m							-	
	-60 dBm								
	-70 dBm-								
	CF 2.441 GHz			3000	Inte				316.0 ms/
	Date: 13.SEP.2022 11	•29•31		3000) prs				310.0 ms/
	Date. 13.35F.2022 11	.29.31			44 11-				
	<u> </u>		L	DH3_Ar	iti_Ho	р			m
	Spectrum	Offset	19.24 dB 🖷	RBW 1 MH	z				
	Ref Level 20.00 dBm		10 ms 👄	VBW 3 MH	z				
	Ref Level 20.00 dBm Att 20 dB SGL Count 1/1	SWT TRG: VI	D						
	Att 20 dB	SWT TRG:VI	D			1111			-7.62 dBm
	Att 20 dB SGL Count 1/1 1Pk Clrw	SWT TRG: VI				11[1]			-7.62 dBm -1.23 µs
	Att 20 dB SGL Count 1/1	SWT TRG:VI				2[1]	1		
	Att 20 dB SGL Count 1/1 91Pk Clrw 10 dBm 0	TRG:VI	D						-1.23 μs 4.97 dB
	Att 20 dB SGL Count 1/1 IPk Clrw 10 dBm	TRG:VI	D						-1.23 μs 4.97 dB
	Att 20 dB SGL Count /1 ●1Pk Clrw 10 dBm 0 dBm 0 dBm 701 71 710 -3.380	TRG:VI	D						-1.23 μs 4.97 dB
	Att 20 dB SGL Count 1/1 9 1Pk Clrw 10 dBm 0 dBm 0 dBm 10 clsm	TRG:VI							-1.23 μs 4.97 dB
	Att 20 dB SGL Count J/1 91Pk Cirw 10 dBm 0 dBm 0 dBm 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm	TRG: VI		let sters the form	D	2[1]			-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Count J/1 91Pk Clrw 10 dBm 0 0 dBm 0.000 -10 dBm -0.000 -20 dBm -0.000	TRG: VI	a na pada a n dan san	Life por gratter of for a	D		ineqti siya a jir		-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Court J/1 ●1Pk Clrw 10 dBm 0 dBm 0 dBm 70 dBm -20 dBm 70	TRG: VI	a na pada a n dan san	the proposition of the second s	D				-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Count J/1 91Pk Clrw 10 dBm 0 0 dBm 0.000 -10 dBm -0.000 -20 dBm -0.000	TRG: VI	a na pada a n dan san	and provide the physical sector of the physic	D				-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Court J/1 ●1Pk Clrw 10 dBm 0 dBm 0 dBm 70 dBm -20 dBm 70	TRG: VI	a na pada a n dan san	i de la serie de la serie Nota de la serie	D				-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Count J/1 ●1Pk Cirw 10 dBm 0 dBm 70 d	TRG: VI	a na pada a n dan san	i de la serie de la serie Internet de la serie de la s	D				-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Count 1/1 91Pk Clrw 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm 10 dBm -30 dBm 10 dBm -50 dBm 11	TRG: VI	a na pada a n dan san	i i i stoji ali ali ali	D				-1.23 µs 4.97 dB 1.62270 ms
	Att 20 dB SGL Count J/1 ●1Pk Cirw 10 dBm 0 dBm 70 d	TRG: VI	a na pada a n dan san		-D distriction dis				-1.23 µs 4.97 dB 1.62270 ms

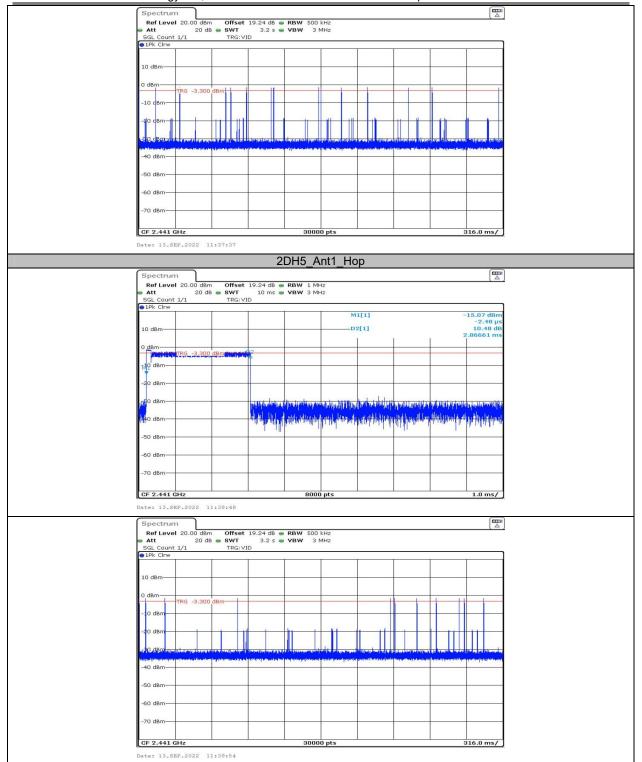
Report No.: SZNS220812-36652E-RF-00A

			lo.: SZNS220812-3	
Spectrum				
Ref Level 20.00 dBm Offset	t 19.24 dB 👄 RBW 500 kHz		()	
Att 20 dB SWT SGL Count 1/1 TRG:V	3.2 s 👄 VBW 3 MHz /ID			
●1Pk Clrw				
10 dBm	+ + +			
0 dBm				
TRG -3.500 dBm				
+10 dBm				
-20 dBm				
	a 15 11 al			
S. derbald and and a second second second		and the majory of Crawlinger Look 1997	an a	
-40 dBm				
-50 dBm-				
-60 dBm	+ + +			
-70 dBm				
CF 2.441 GHz	30000 pts		316.0 ms/	
Date: 13.SEP.2022 11:32:52			<u> </u>	
	DH5_Ant1_Ho	р		
Spectrum				
Ref Level 20.00 dBm Offset Att 20 dB e SWT	t 19.24 dB 👄 RBW 1 MHz 10 ms 👄 VBW 3 MHz			
SGL Count 1/1 TRG:V 1Pk Clrw	'ID		1	
	N	11[1]	-12.81 dBm	
10 dBm		2[1]	-1.23 μs 10.29 dB	
			2.86286 ms	
0 dBm				
10 dBm				
T I I I I I I I I I I I I I I I I I I I				
-20 dBm				
1-30 dBm-	In the standard and the state	te some del la sua districteta a constata di co	here on the ale the best for a la	
O dBm	A STATE OF	and have been and the face	and the state of the state	
-50 dBm	and the second s	1		
-60 dBm				
-70 dBm				
-70 dBm				
-70 dBm	8000 pts		1.0 ms/	
	8000 pts		1.0 ms/	
CF 2.441 CHz Date: 13.SEP.2022 11:34:22	8000 pts			
GF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dBm Offset	t 19.24 dB 👄 RBW 500 kHz		1.0 ms/	
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 GHz Date: 13.5EP.2022 Spectrum Ref Level 20.00 dBm Att 20 dB SWT	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 GHz Date: 13.SEP.2022 11:34:22 Spectrum Ref Level 20.00 dBm Offset Att 20 dB SWT SGL Count 1/1 TRG:V • 1Pk Cirw •	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
 CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dBm Offset Att 20 dB SWT SGL Count 1/1 TRG:V	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
 CF 2.441 CHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG:V O1Pk Chrw 10 dbm 0.dbm 0.dbm	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 CHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG:V ID dbm 0 dbm TRG, -5.500 dbm	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 CHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG:V O1Pk Chrw 10 dbm 0.dbm 0.dbm	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 CHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG:V ID dbm 0 dbm TRG, -5.500 dbm	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset e Att SGL Count 1/1 TRG:V P1Pk Clrw 10 dbm 0 dbm -10 dbm -20 dbm -	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 GHz Date: 13.SEP.2022 11:34:22 Spectrum Ref Level 20.00 dBm Offset Att 20 dB SGL Count 1/1 TRG: V 10 dBm -10 dBm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID			
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset e Att SGL Count 1/1 TRG:V P1Pk Clrw 10 dbm 0 dbm -10 dbm -20 dbm -	t 19.24 dB ● RBW 500 kHz 3.2 s ● VBW 3 MHz			
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG: V ● 1Pk Cirw 10 dbm 0 dbm -0 dbm -10 dbm -0 dbm -20 dbm -0 dbm -10 dbm -0 dbm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		
CF 2.441 CHz Date: 13.5EP.2022 11:34:22 Spectrum Offset Ref Level 20.00 dBm Offset Att 20 dB SWT SGL Count 1/1 TRG: V ● 1Pk Cirw 0 0 dBm 0 dBm TRG -5.500 dBm -10 dBm -20 dBm -30.0600-put met proteor of the street of the	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Ref Level 20.00 dbm Offset Att 20 db SWT SGL Count 1/1 TRG: V ● 1Pk Cirw 10 dbm 0 dbm -0 dbm -10 dbm -0 dbm -20 dbm -0 dbm -10 dbm -0 dbm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Offset Ref Level 20.00 dBm Offset Att 20 dB SWT SGL Count 1/1 TRG: V ● 1Pk Cirw 10 dBm 0 0 dBm TRG 5.500 dBm -10 dBm -0 -0 -20 dBm -10 dBm -0 -50 dBm -60 dBm -60 dBm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		
CF 2.441 GHz Date: 13.SEP.2022 11:34:22 Spectrum Ref Level 20.00 dBm Offset • Att 20 dB SWT 5GL Count 1/1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		
CF 2.441 GHz Date: 13.5EP.2022 11:34:22 Spectrum Offset Ref Level 20.00 dBm Offset Att 20 dB SWT SGL Count 1/1 TRG: V ● 1Pk Cirw 10 dBm 0 0 dBm TRG 5.500 dBm -10 dBm -0 -0 -20 dBm -10 dBm -0 -50 dBm -60 dBm -60 dBm	t 19.24 dB RBW 500 kHz 3.2 s VBW 3 MHz ID	The second second second second second second		

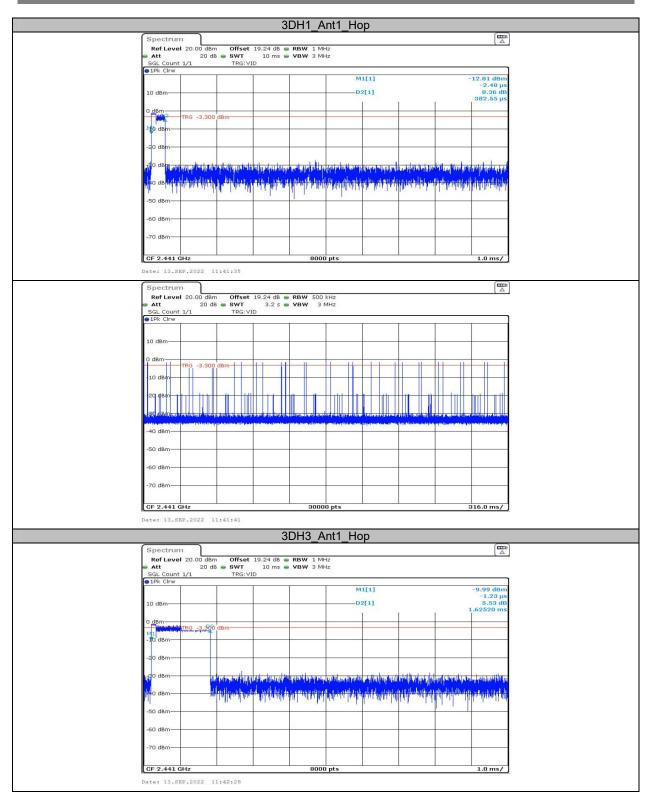
Report No.: SZNS220812-36652E-RF-00A



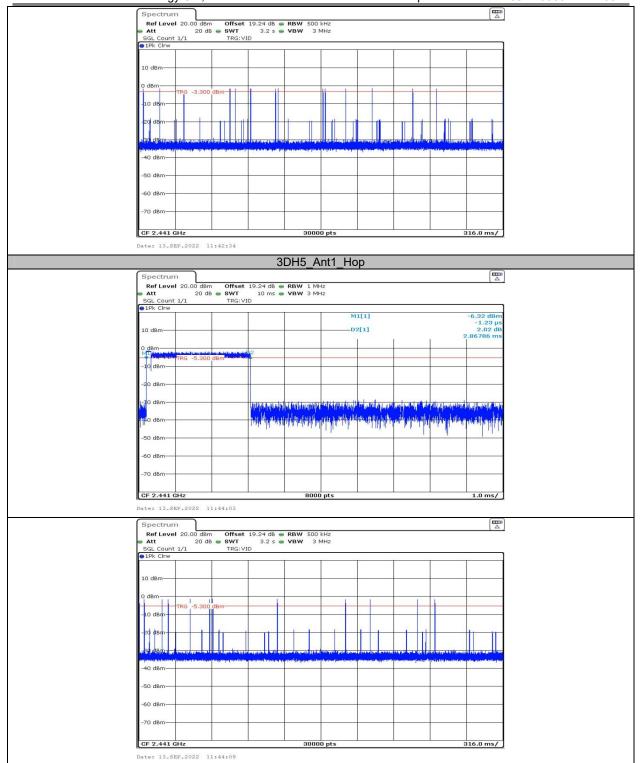
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Report No.: SZNS220812-36652E-RF-00A



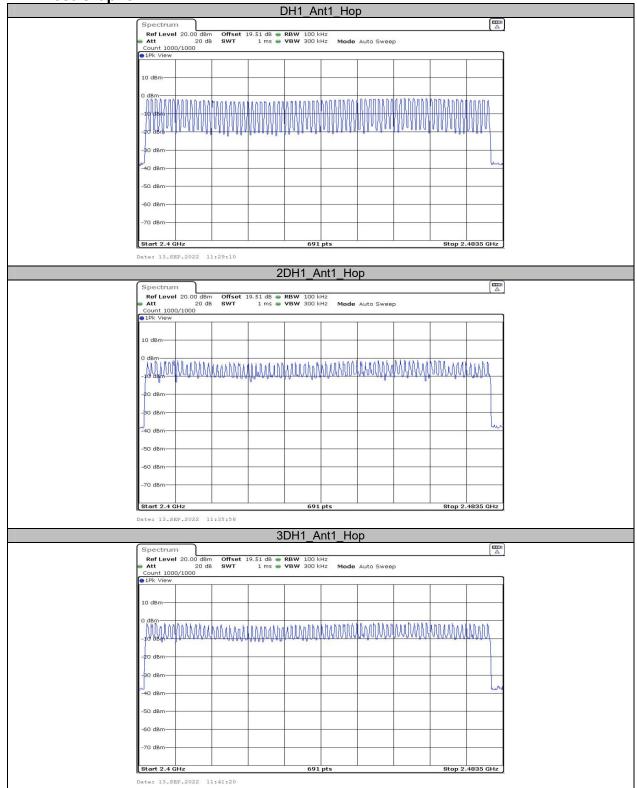
Report No.: SZNS220812-36652E-RF-00A



Report No.: SZNS220812-36652E-RF-00A

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



Appendix G: Band edge measurements Test Graphs

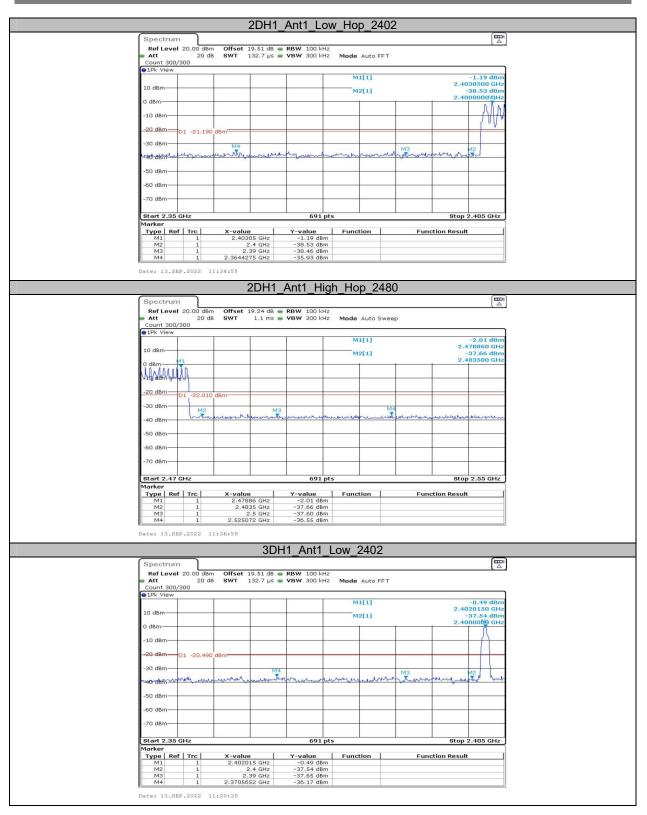


Version 11: 2021-11-09

Report No.: SZNS220812-36652E-RF-00A



Report No.: SZNS220812-36652E-RF-00A



Report No.: SZNS220812-36652E-RF-00A



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