

# **RF Test Report**

## For

Applicant Name: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

Address: INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX

China

EUT Name: Smart Phone Brand Name: OUKITEL WP33 Pro

Series Model Number: Refer to section 2

## **Issued By**

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF231110R00202 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2ANMU-WP33PRO

Test Date: 2023-11-10 to 2023-12-08

Date of Issue: 2023-12-12

Prepared By:

Chris Liu / Project Enginee

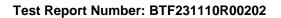
Date: 2023-12-12

Approved By:

Ryan.CJ / EMC Manager

Date: 2023-12-12

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.



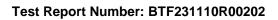


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-12-12	Original	
Note: Once the	revision has been made, then pre	vious versions reports are invalid.	



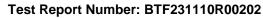
## **Table of Contents**

1	INTR	RODUCTION	5
	1.1	Identification of Testing Laboratory	5
	1.2	Identification of the Responsible Testing Location	
	1.3	Announcement	5
2	PRO	DDUCT INFORMATION	6
	2.1	Application Information	6
	2.2	Manufacturer Information	
	2.3	Factory Information	
	2.4	General Description of Equipment under Test (EUT)	
	2.5	Technical Information	6
3	SUM	MMARY OF TEST RESULTS	7
	3.1	Test Standards	7
	3.2	Uncertainty of Test	
	3.3	Summary of Test Result	7
4	TES	T CONFIGURATION	8
	4.1	Test Equipment List	
	4.2	Test Auxiliary Equipment	10
	4.3	Test Modes	
5	EVA	LUATION RESULTS (EVALUATION)	11
	5.1	Antenna requirement	
•	•	·	
6		DIO SPECTRUM MATTER TEST RESULTS (RF)	
	6.1	Conducted Emission at AC power line	
		6.1.1 E.U.T. Operation:	
		6.1.2 Test Setup Diagram: 6.1.3 Test Data:	
	6.2	Occupied Bandwidth	
		6.2.1 E.U.T. Operation: 6.2.2 Test Setup Diagram: 6.2.2	
		6.2.3 Test Data:	
	6.3	Maximum Conducted Output Power	
	0.5	6.3.1 E.U.T. Operation:	
		6.3.2 Test Setup Diagram:	
		6.3.3 Test Data:	
	6.4	Channel Separation	
		6.4.1 E.U.T. Operation:	
		6.4.2 Test Setup Diagram:	
		6.4.3 Test Data:	21
	6.5	Number of Hopping Frequencies	22
		6.5.1 E.U.T. Operation:	22
		6.5.2 Test Setup Diagram:	
		6.5.3 Test Data:	
	6.6	Dwell Time	
		6.6.1 E.U.T. Operation:	
		6.6.2 Test Setup Diagram:	
	c =	6.6.3 Test Data:	
	6.7	Emissions in non-restricted frequency bands	
		6.7.1 E.U.T. Operation:	
		6.7.2 Test Setup Diagram: 6.7.3 Test Data:	
		U.1.J 1631 Dala	20





	6.8	Band edge emissions (Radiated)	29
		6.8.1 E.U.T. Operation:	29
		6.8.2 Test Setup Diagram:	29
		6.8.3 Test Data:	30
	6.9	Emissions in frequency bands (below 1GHz)	31
		6.9.1 E.U.T. Operation:	31
		6.9.2 Test Setup Diagram:	
		6.9.3 Test Data:	32
	6.10	Emissions in frequency bands (above 1GHz)	34
		6.10.1 E.U.T. Operation:	34
		6.10.2 Test Setup Diagram:	32
		6.10.3 Test Data:	35
7	TES	T SETUP PHOTOS	37
8	EUT	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	39
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### 1 Introduction

### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

### 1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	
FCC Registration Number:	518915	
Designation Number:	CN1330	

### 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



Test Report Number: BTF231110R00202

### 2 Product Information

## 2.1 Application Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD	
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China	

### 2.2 Manufacturer Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

## 2.3 Factory Information

	Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Α	Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
	Address.	GUANLAN, LONGHUA SHENZHEN, 518XXX China

## 2.4 General Description of Equipment under Test (EUT)

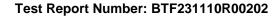
EUT Name:	Smart Phone
Test Model Number:	WP33 Pro
Series Model Number:	WP33, WP33 S, SP33 Ultra, WP33 TITAN
Description of Model name differentiation:	Only the model name is different, the others are the same.
Hardware Version:	HCT_V500_MBA2
Software Version:	OUKITEL_WP33_Pro_EEA_V08_20231130

#### 2.5 Technical Information

Power Supply:	DC 3.87V form battery
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	PIFA Antenna
Antenna Gain <sup>#</sup> :	-0.33dBi

#### Note:

<sup>#:</sup> The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.





## 3 Summary of Test Results

#### 3.1 Test Standards

The tests were performed according to following standards: 47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

## 3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
Occupied Bandwidth	±69kHz
Transmitter Power, Conducted	±0.87dB
Conducted Spurious Emissions	±0.95dB
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass





## 4 Test Configuration

## 4.1 Test Equipment List

Conducted Emission at AC power line									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2023-11-16	2024-11-15				
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2023-11-16	2024-11-15				
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15				
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22				
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-16	2024-11-15				

**Occupied Bandwidth** 

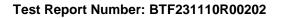
**Maximum Conducted Output Power** 

**Channel Separation** 

Number of Hopping Frequencies

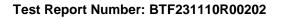
**Dwell Time** 

Emissions in non-restricted frequency bands								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	/	V1.00	/	/	/			
RF Control Unit	Techy	TR1029-1	/	2023-11-16	2024-11-15			
RF Sensor Unit	Techy	TR1029-2	/	2023-11-16	2024-11-15			
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15			
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023-11-16	2024-11-15			
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15			
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15			





Band edge emissions		O11-7			
Emissions in frequence Emissions in frequence					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-16	2024-11-15
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	80000	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	1	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-16	2024-11-15



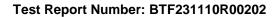


## 4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

### 4.3 Test Modes

No.	Test Modes	Description
TM1	TX-GFSK	Keep the EUT in continuously transmitting mode (non-hopping) with
I IVI I	(Non-Hopping)	GFSK modulation.
TM2	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (non-hopping) with
I IVIZ	(Non-Hopping)	Pi/4DQPSK modulation.
TM3 TX-8DPSK		Keep the EUT in continuously transmitting mode (non-hopping) with
TIVIS	(Non-Hopping)	8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (hopping) with
CIVIT	(Hopping)	Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
		modulation.





## 5 Evaluation Results (Evaluation)

## 5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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.
	comply with the provisions of this section.

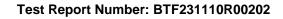
## 6 Radio Spectrum Matter Test Results (RF)

## 6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).						
Test Method:	ANSI C63.10-2013 section 6.2 ANSI C63.10-2020 section 6.2						
Test Limit:	0.15-0.5 0.5-5 5-30	Conducted limit (dE Quasi-peak 66 to 56* 56	Average 56 to 46* 46 50				
	*Decreases with the logarithm of the frequency.						
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices  Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices						

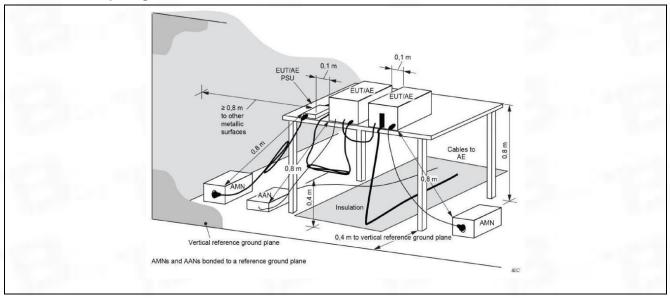
## 6.1.1 E.U.T. Operation:

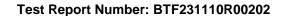
Operating Environment:	
Temperature:	25.4 °C
Humidity:	53.2 %
Atmospheric Pressure:	1010 mbar





## 6.1.2 Test Setup Diagram:

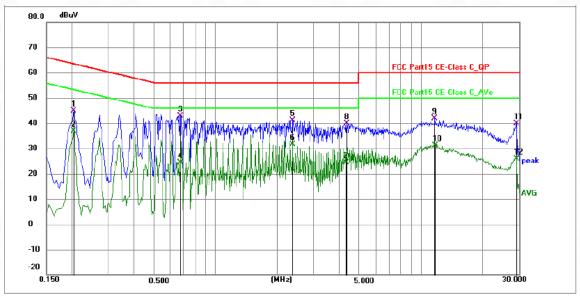






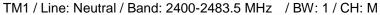
### 6.1.3 Test Data:

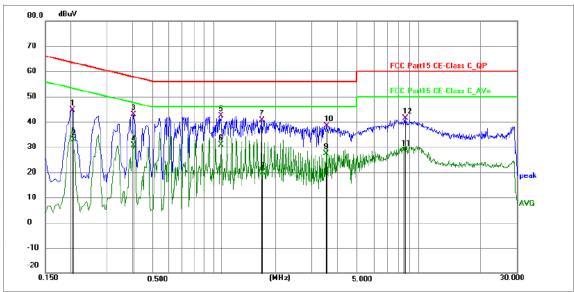
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	34.40	10.57	44.97	63.45	-18.48	QP	Р	
2	0.2040	26.24	10.57	36.81	53.45	-16.64	AVG	Р	
3 *	0.6720	31.70	11.07	42.77	56.00	-13.23	QP	Р	
4	0.6720	13.26	11.07	24.33	46.00	-21.67	AVG	Р	
5	2.3730	30.57	10.67	41.24	56.00	-14.76	QP	Р	
6	2.3730	21.04	10.67	31.71	46.00	-14.29	AVG	Р	
7	4.3350	13.75	10.69	24.44	46.00	-21.56	AVG	Р	
8	4.3395	29.07	10.69	39.76	56.00	-16.24	QP	Р	
9	11.6250	30.93	10.86	41.79	60.00	-18.21	QP	Р	
10	11.6835	20.19	10.86	31.05	50.00	-18.95	AVG	Р	
11	29.1840	28.72	11.21	39.93	60.00	-20.07	QP	Р	
12	29.1840	14.57	11.21	25.78	50.00	-24.22	AVG	Р	







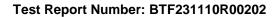
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	34.03	10.57	44.60	63.45	-18.85	QP	Р	
2	0.2061	22.42	10.58	33.00	53.36	-20.36	AVG	Р	
3	0.4020	31.65	11.20	42.85	57.81	-14.96	QP	Р	
4	0.4020	19.36	11.20	30.56	47.81	-17.25	AVG	Р	
5 *	1.0859	31.82	10.66	42.48	56.00	-13.52	QP	Р	
6	1.0859	20.31	10.66	30.97	46.00	-15.03	AVG	Р	
7	1.7115	30.02	10.67	40.69	56.00	-15.31	QP	Р	
8	1.7205	9.09	10.67	19.76	46.00	-26.24	AVG	Р	
9	3.5250	16.78	10.63	27.41	46.00	-18.59	AVG	Р	
10	3.5295	27.74	10.63	38.37	56.00	-17.63	QP	Р	
11	8.4840	17.73	10.82	28.55	50.00	-21.45	AVG	Р	
12	8.5875	30.54	10.82	41.36	60.00	-18.64	QP	Р	





## 6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the
	procedure in 6.9.2.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
	<ul> <li>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</li> <li>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</li> </ul>
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10
Procedure:	dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.  f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
	h) Determine the "-xx dB down amplitude" using [(reference value) - xx].  Alternatively, this calculation may be made by using the marker-delta function of the instrument.  i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
	j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down
	amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.  k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly





labeled. Tabular data may be reported in addition to the plot(s).

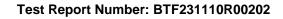
The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power 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; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

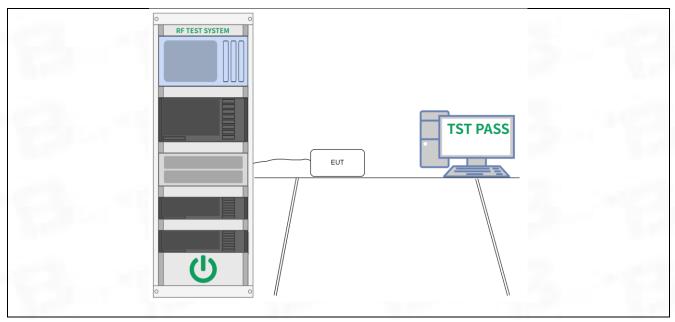
#### 6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar

#### 6.2.2 Test Setup Diagram:

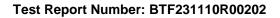






6.2.3 Test Data:

Please Refer to Appendix for Details.



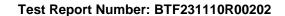


### 6.3 Maximum Conducted Output Power

6.3 Maximum Con	ducted Output Power
Test Requirement:	47 CFR 15.247(b)(1)
-	ANSI C63.10-2013, section 7.8.5
Test Method:	ANSI C63.10-2020, section 7.8.5
	KDB 558074 D01 15.247 Meas Guidance v05r02
	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the
Test Limit:	2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels,
rest Limit.	and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all
	other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
	This is an RF-conducted test to evaluate maximum peak output power. Use a
	direct connection between the antenna port of the unlicensed wireless device and
	the spectrum analyzer, through suitable attenuation. The hopping shall be disabled
	for this test:
	a) Use the following spectrum analyzer settings:
	1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping
	channel.
	2) RBW > 20 dB bandwidth of the emission being measured.
	3) VBW >= RBW.
	4) Sweep: Auto.
	5) Detector function: Peak.
	6) Trace: Max hold.
	b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission.
	d) The indicated level is the peak output power, after any corrections for external
	attenuators and cables.
	e) A plot of the test results and setup description shall be included in the test report.
	NOTE—A peak responding power meter may be used, where the power meter and
	sensor system video bandwidth is greater than the occupied bandwidth of the
	unlicensed wireless device, rather than a spectrum analyzer.
Procedure:	, , , , , , , , , , , , , , , , , , , ,
	This is an RF-conducted test to evaluate maximum peak output power. Use a
	direct connection between the antenna port of the unlicensed wireless device and
	the spectrum analyzer, through suitable attenuation. Frequency hopping shall be
	disabled for this test. Use the following spectrum analyzer settings:
	a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping
	channel.
	b) RBW > 20 dB bandwidth of the emission being measured.
	c) VBW ≥ RBW.
	d) Sweep: No faster than coupled (auto) time.
	e) Detector function: Peak.
	f) Trace: Max-hold.
	g) Allow trace to stabilize.
	h) Use the marker-to-peak function to set the marker to the peak of the emission.
	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
	j) A spectral plot of the test results and setup description shall be included in the
	test report.
	NOTE—A peak responding power meter may be used, where the power meter and
	sensor system video bandwidth is greater than the occupied bandwidth of the
	unlicensed wireless device, rather than a spectrum analyzer.
	amiconosa wiroloso device, rather than a spectrum analyzer.

#### 6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %

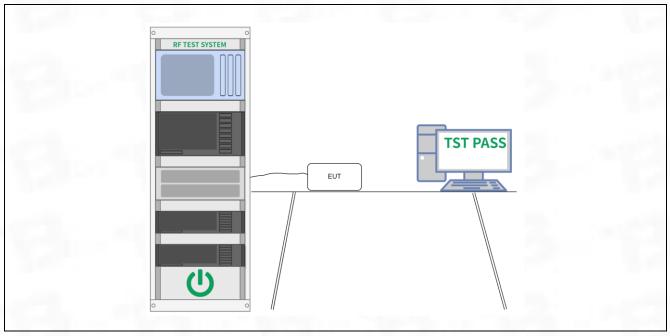




Atmospheric Pressure:

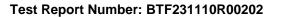
1010 mbar

## 6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.





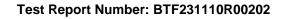
## 6.4 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Method:	ANSI C63.10-2013, section 7.8.2 ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 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.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.  The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.  Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

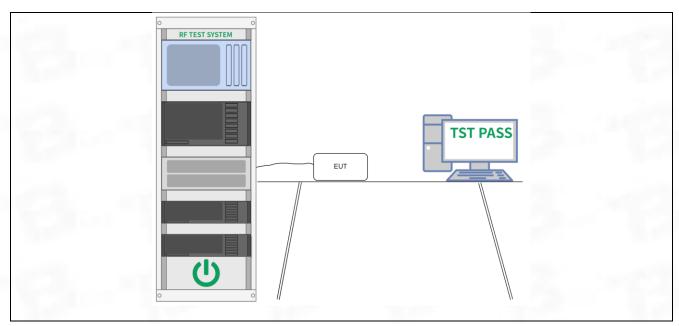
### 6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar

## 6.4.2 Test Setup Diagram:

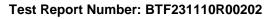






6.4.3 Test Data:

Please Refer to Appendix for Details.





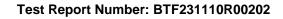
## 6.5 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
·	ANSI C63.10-2013, section 7.8.3
Test Method:	ANSI C63.10-2020, section 7.8.3
	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.
	The EUT shall have its hopping function enabled. Use the following spectrum
	analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold.
	g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
	<ul> <li>a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.</li> <li>b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.</li> <li>c) VBW ≥ RBW.</li> </ul>
	d) Sweep: No faster than coupled (auto) time.
	e) Detector function: Peak.
	f) Trace: Max-hold. g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

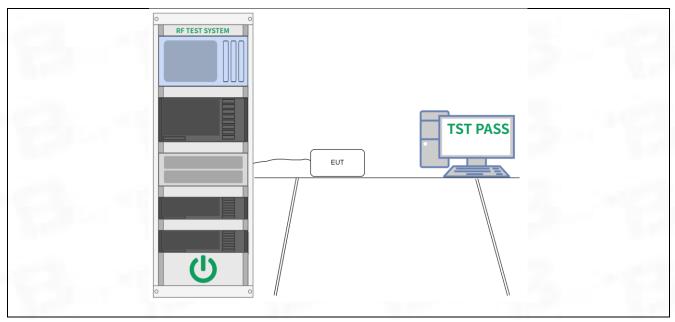
### 6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar

#### 6.5.2 Test Setup Diagram:







6.5.3 Test Data:

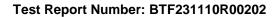
Please Refer to Appendix for Details.





### 6.6 Dwell Time

ANSI C63.10-2013, section 7.8.4 ANSI C63.10-2002, section 7.8.4 ANSI C63.10-2002, section 7.8.4 ANSI C63.10-2002, section 7.8.4 ANSI C63.10-2002, section 7.8.4 ANSI C63.10-2003, section 7.8.4  Test Limit:  Test Limit:  Test Limit:  Test Limit:  ANSI C63.10-2003, section 7.8.4 ANSI C63.10-2003, section 7.8.4 ANSI C63.10-2003, section 7.8.4  The Limit:  The EUT shall have its least 15 channels. The average time of occupancy on any channel 7.1 Ansier Limit:  ANSI C63.10-2003, section 7.8.4  The Limit:  Timit:  Test Limit:  Test Limit:  ANSI C63.10-2003, section 7.8.4  ANSI C63.10-2003, section 8.1  ANSI C63.10-2003, section 9.1  ANSI C63.10-2003, section 9.1  ANSI C63.10-2003, section 9.1  ANSI C63.10-2003, section 9.1  ANSI C63.10-2	Test Requirement:	47 CFR 15.247(a)(1)(iii)
Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.  The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:  (Number of hops in specific tim varies with different modes of poeration (data rate, modulation format, number of hopsing channels, etc.), then repeat this test for each variation.  The wearage time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in		
Test Limit:  Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.  The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. Determine the number of hops over the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, let the total number of hops in the period specified in the requirements. If the number of hops in the period specified in the requirements. If the number of hops in the period specified in the requirements in	Test Method:	
Test Limit:  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.  The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.  The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.		
The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation:  (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.  The measured transmit time and time between hops shall be consistent with the values described in the operational description for that hop. If the device has a single transmission to the end of the	Test Limit:	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
analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. In the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in spectrum analyzer) x (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.  The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.  The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmissio		
from the start of the first transmission to the end of the last transmission.  The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell	Procedure:	analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements / analyzer sweep time)  The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.  The measured transmit time and time between hops shall be consistent with the values described in the operational description for that hop. If the device has a single transmission to the end of the last transmission. If t





The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.

Use the following spectrum analyzer settings to determine the dwell time per hop:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 /
- T, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

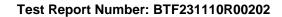
The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3/0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

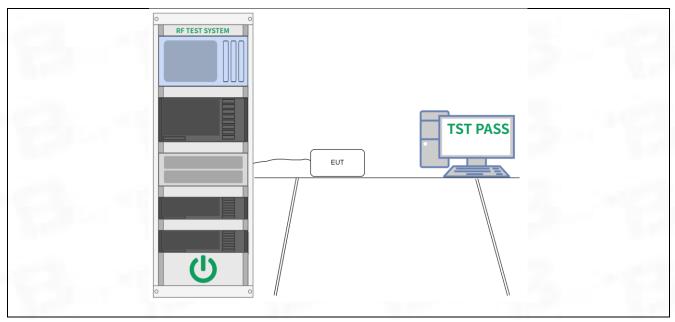
#### 6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar

#### 6.6.2 Test Setup Diagram:







6.6.3 Test Data:

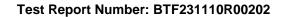
Please Refer to Appendix for Details.





#### **Emissions in non-restricted frequency bands** 6.7

T	est Requirement:	47 CFR 15.247(d), 15.209, 15.205
		ANSI C63.10-2013 section 7.8.8
Т	est Method:	ANSI C63.10-2020 section 7.8.7
		KDB 558074 D01 15.247 Meas Guidance v05r02
Т	est Limit:	Refer to 47 CFR 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.
		Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers.  Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.
		7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
Ρ	rocedure:	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
		The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
		When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated





measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

#### 7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

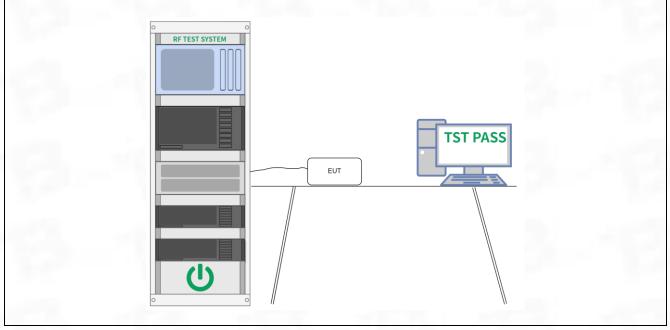
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

#### 6.7.1 E.U.T. Operation:

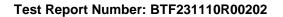
Operating Environment:	
Temperature:	24.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar

#### 6.7.2 Test Setup Diagram:



#### 6.7.3 Test Data:

Please Refer to Appendix for Details.





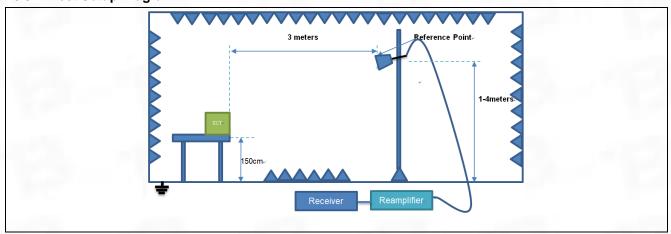
## 6.8 Band edge emissions (Radiated)

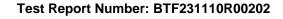
	Refer to 47 CFR 15.247(	d), In addition, radiated emission	s which fall in the				
Test Requirement:	restricted bands, as defined in § 15.205(a), must also comply with the radiated						
		emission limits specified in § 15.209(a)(see § 15.205(c)).`					
	ANSI C63.10-2013 section	on 6.10					
Test Method:	ANSI C63.10-2020 section	on 6.10					
	KDB 558074 D01 15.247	Meas Guidance v05r02					
	Frequency (MHz)	Field strength	Measurement				
		(microvolts/meter)	distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705 24000/F(kHz) 30						
Test Limit:	1.705-30.0 30 30						
	30-88 100 ** 3						
	88-216	3					
	216-960	200 **	3				
	Above 960	500	3				
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.						
Procedure:	ANSI C63.10-2013 section ANSI C63.10-2020 section						

## 6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.8 °C		
Humidity:	51.2 %		
Atmospheric Pressure:	1010 mbar		

### 6.8.2 Test Setup Diagram:







#### 6.8.3 Test Data:

Note: All the mode have been tested, and only the worst mode are in the report TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
2310.000	61.24	3.39	64.63	74.00	-9.37	peak	Р
2310.000	49.85	3.39	53.24	54.00	-0.76	AVG	Р
2390.000	62.13	3.45	65.58	74.00	-8.42	peak	Р
2390.000	50.06	3.45	53.51	54.00	-0.49	AVG	Р
2400.000	63.67	3.46	67.13	74.00	-6.87	peak	Р
2400.000	50.48	3.46	53.94	54.00	-0.06	AVG	Р
	(MHz) 2310.000 2310.000 2390.000 2390.000 2400.000	(MHz)         (dBuV)           2310.000         61.24           2310.000         49.85           2390.000         62.13           2390.000         50.06           2400.000         63.67	(MHz)         (dBuV)         (dB/m)           2310.000         61.24         3.39           2310.000         49.85         3.39           2390.000         62.13         3.45           2390.000         50.06         3.45           2400.000         63.67         3.46	(MHz)         (dBuV)         (dBm)         (dBuV/m)           2310.000         61.24         3.39         64.63           2310.000         49.85         3.39         53.24           2390.000         62.13         3.45         65.58           2390.000         50.06         3.45         53.51           2400.000         63.67         3.46         67.13	(MHz)         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)           2310.000         61.24         3.39         64.63         74.00           2310.000         49.85         3.39         53.24         54.00           2390.000         62.13         3.45         65.58         74.00           2390.000         50.06         3.45         53.51         54.00           2400.000         63.67         3.46         67.13         74.00	(MHz)         (dBuV)         (dBm)         (dBm)         (dBuV/m)         (dBuV/m)         (dBm)           2310.000         61.24         3.39         64.63         74.00         -9.37           2310.000         49.85         3.39         53.24         54.00         -0.76           2390.000         62.13         3.45         65.58         74.00         -8.42           2390.000         50.06         3.45         53.51         54.00         -0.49           2400.000         63.67         3.46         67.13         74.00         -6.87	(MHz)         (dBuV)         (dBm)         (dBm)         (dBuV/m)         (dBuV/m)         (dBm)         Detector           2310.000         61.24         3.39         64.63         74.00         -9.37         peak           2310.000         49.85         3.39         53.24         54.00         -0.76         AVG           2390.000         62.13         3.45         65.58         74.00         -8.42         peak           2390.000         50.06         3.45         53.51         54.00         -0.49         AVG           2400.000         63.67         3.46         67.13         74.00         -6.87         peak

### TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

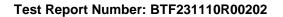
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	60.54	3.39	63.93	74.00	-10.07	peak	Р
2	2310.000	49.49	3.39	52.88	54.00	-1.12	AVG	Р
3	2390.000	60.79	3.45	64.24	74.00	-9.76	peak	Р
4 *	2390.000	49.93	3.45	53.38	54.00	-0.62	AVG	Р
5	2400.000	60.31	3.46	63.77	74.00	-10.23	peak	Р
6	2400.000	49.88	3.46	53.34	54.00	-0.66	AVG	Р

#### TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	62.20	3.52	65.72	74.00	-8.28	peak	Р
2	2483.500	49.91	3.52	53.43	54.00	-0.57	AVG	Р
3	2500.000	61.35	3.53	64.88	74.00	-9.12	peak	Р
4 *	2500.000	50.01	3.53	53.54	54.00	-0.46	AVG	Р

#### TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	60.45	3.52	63.97	74.00	-10.03	peak	Р
2 *	2483.500	50.11	3.52	53.63	54.00	-0.37	AVG	Р
3	2500.000	61.93	3.53	65.46	74.00	-8.54	peak	Р
4	2500.000	49.90	3.53	53.43	54.00	-0.57	AVG	Р





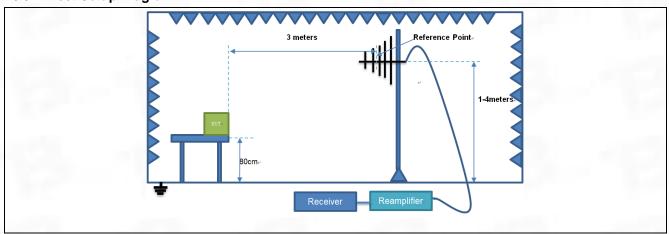
## 6.9 Emissions in frequency bands (below 1GHz)

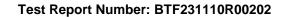
		), In addition, radiated emissio								
Test Requirement:		restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`								
			.`							
	ANSI C63.10-2013 section	n 6.6.4								
Test Method:	ANSI C63.10-2020 section	n 6.6.4								
	KDB 558074 D01 15.247 I	Meas Guidance v05r02								
	Frequency (MHz)	Field strength	Measurement							
		(microvolts/meter)	distance (meters)							
	0.009-0.490	2400/F(kHz)	300							
	0.490-1.705	24000/F(kHz)	30							
	1.705-30.0	30	30							
	30-88	100 **	3							
Test Limit:	88-216	150 **	3							
	216-960	200 **	3							
	Above 960	500	3							
	** Except as provided in pa	aragraph (g), fundamental emi	ssions from intentional							
	radiators operating under	this section shall not be located	d in the frequency bands							
	54-72 MHz, 76-88 MHz, 1	74-216 MHz or 470-806 MHz.	However, operation within							
	these frequency bands is a	permitted under other sections	of this part, e.g.,							
	§§ 15.231 and 15.241.									
	ANSI C63.10-2013 section	1 6.6.4								
Procedure:										
	ANSI C63.10-2020 section	1 6.6.4								

## 6.9.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.9 °C		
Humidity:	49.2 %		
Atmospheric Pressure:	1010 mbar		

#### 6.9.2 Test Setup Diagram:

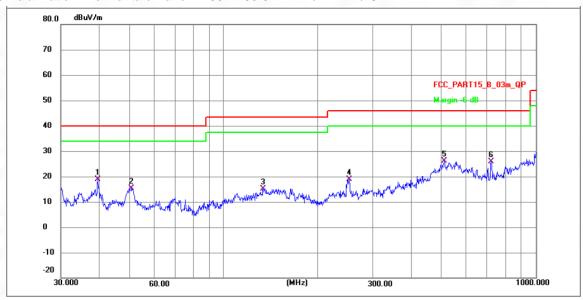




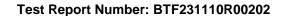


### 6.9.3 Test Data:

Note: All the mode have been tested, and only the worst mode are in the report TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

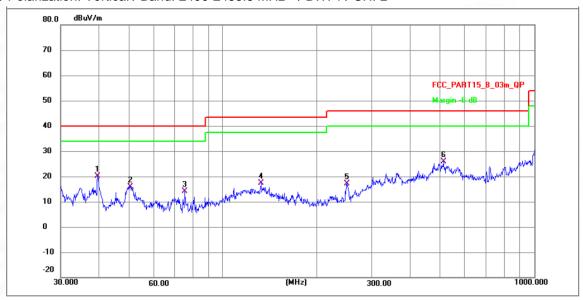


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.5063	37.30	-18.41	18.89	40.00	-21.11	QP	Р
2	50.6747	33.72	-18.27	15.45	40.00	-24.55	QP	Р
3	133.8531	43.17	-27.92	15.25	43.50	-28.25	QP	Р
4	252.5050	44.78	-25.83	18.95	46.00	-27.05	QP	Р
5 *	508.2581	47.45	-21.22	26.23	46.00	-19.77	QP	Р
6	720.4615	49.55	-23.66	25.89	46.00	-20.11	QP	Р

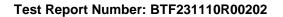








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	39.5063	40.60	-20.54	20.06	40.00	-19.94	QP	Р
2	50.3205	36.21	-20.32	15.89	40.00	-24.11	QP	Р
3	75.4462	34.13	-19.90	14.23	40.00	-25.77	QP	Р
4	132.4524	45.32	-27.93	17.39	43.50	-26.11	QP	Р
5	249.8625	42.95	-25.85	17.10	46.00	-28.90	QP	Р
6	510.9386	47.13	-21.25	25.88	46.00	-20.12	QP	Р





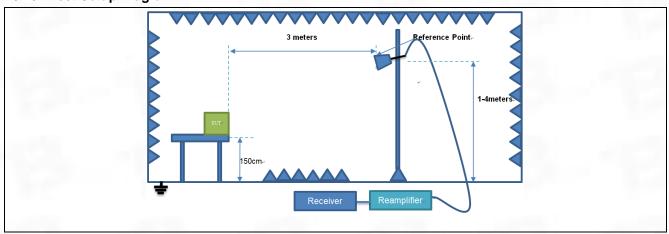
## 6.10 Emissions in frequency bands (above 1GHz)

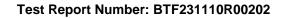
	In addition, radiated ami	ssions which fall in the restricted	d bands, as defined in \$							
Toot Boquiromont:										
Test Requirement:		15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).								
	1,7,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
Took Mothers!	ANSI C63.10-2013 sect									
Test Method:		ANSI C63.10-2020 section 6.6.4								
	KDB 558074 D01 15.247 Meas Guidance v05r02									
	Frequency (MHz)	Field strength	Measurement							
		(microvolts/meter)	distance (meters)							
	0.009-0.490	2400/F(kHz)	300							
	0.490-1.705	24000/F(kHz)	30							
	1.705-30.0	30	30							
	30-88	100 **	3							
Test Limit:	88-216	150 **	3							
	216-960	200 **	3							
	Above 960	500	3							
	** Except as provided in	paragraph (g), fundamental em	nissions from intentional							
		er this section shall not be locate								
		174-216 MHz or 470-806 MHz.								
	· · · · · · · · · · · · · · · · · · ·	s permitted under other sections	* •							
	§§ 15.231 and 15.241.		, , , , , , , , , , , , , , , , , , , ,							
	ANSI C63.10-2013 sect	ion 6.6.4								
Procedure:										
	ANSI C63.10-2020 sect	ion 6.6.4								

## 6.10.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.8 °C		
Humidity:	51.2 %		
Atmospheric Pressure:	1010 mbar		

### 6.10.2Test Setup Diagram:







#### 6.10.3Test Data:

Note: All the mode have been tested, and only the worst mode are in the report TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

_									
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	3270.858	71.14	-29.27	41.87	74.00	-32.13	peak	Р
	2	4050.903	70.99	-28.98	42.01	74.00	-31.99	peak	Р
	3	5697.365	72.20	-26.31	45.89	74.00	-28.11	peak	Р
	4	8106.200	76.91	-25.49	51.42	74.00	-22.58	peak	Р
	5	10885.668	80.13	-23.68	56.45	74.00	-17.55	peak	Р
	6 *	15134.085	84.59	-20.70	63.89	74.00	-10.11	peak	Р

### TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

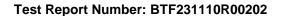
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3159.355	71.36	-29.37	41.99	74.00	-32.01	peak	Р
2	4004.339	71.13	-29.00	42.13	74.00	-31.87	peak	Р
3	5315.541	72.41	-27.11	45.30	74.00	-28.70	peak	Р
4	6621.376	74.70	-25.27	49.43	74.00	-24.57	peak	Р
5	8789.515	77.82	-24.74	53.08	74.00	-20.92	peak	Р
6 *	13638.492	81.65	-21.00	60.65	74.00	-13.35	peak	Р

#### TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3016.575	69.69	-29.50	40.19	74.00	-33.81	peak	Р
2	4050.903	70.99	-28.98	42.01	74.00	-31.99	peak	Р
3	5763.617	72.82	-26.09	46.73	74.00	-27.27	peak	Р
4	7476.006	75.55	-24.79	50.76	74.00	-23.24	peak	Р
5	8995.123	78.17	-24.32	53.85	74.00	-20.15	peak	Р
6 *	12505.705	80.88	-21.61	59.27	74.00	-14.73	peak	Р

#### TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3159.355	71.36	-29.37	41.99	74.00	-32.01	peak	Р
2	4762.633	71.41	-28.04	43.37	74.00	-30.63	peak	Р
3	6177.627	72.94	-25.35	47.59	74.00	-26.41	peak	Р
4	8295.823	77.56	-25.41	52.15	74.00	-21.85	peak	Р
5	9420.880	80.86	-23.37	57.49	74.00	-16.51	peak	Р
6 *	12724.473	81.74	-21.49	60.25	74.00	-13.75	peak	Р



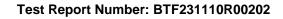


#### TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3233.260	70.50	-29.29	41.21	74.00	-32.79	peak	Р
2	4469.214	72.63	-28.79	43.84	74.00	-30.16	peak	Р
3	6142.019	74.36	-25.35	49.01	74.00	-24.99	peak	Р
4	7695.244	76.32	-25.07	51.25	74.00	-22.75	peak	Р
5	10575.535	79.48	-24.35	55.13	74.00	-18.87	peak	Р
6 *	13877.076	84.35	-21.06	63.29	74.00	-10.71	peak	Р

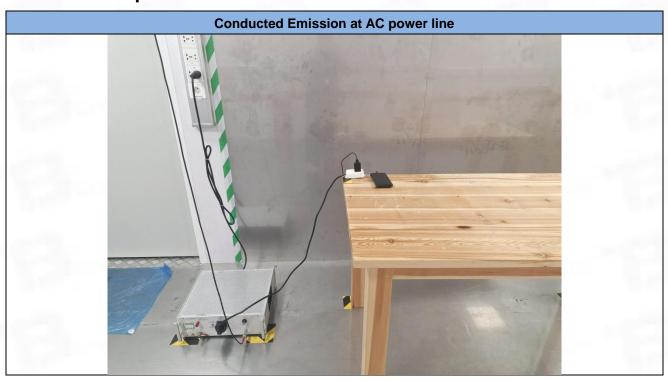
#### TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

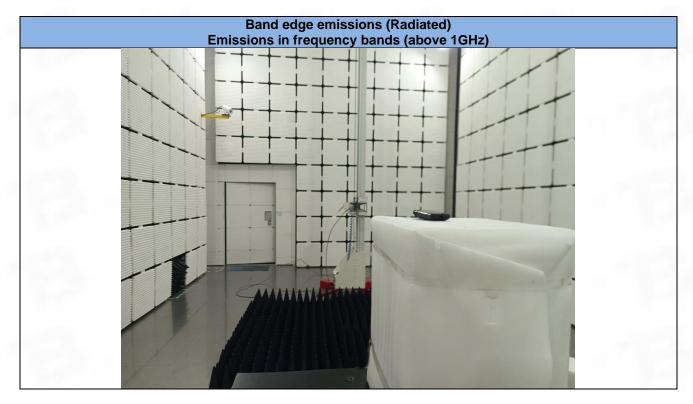
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3159.355	71.36	-29.37	41.99	74.00	-32.01	peak	Р
2	3650.582	72.14	-29.04	43.10	74.00	-30.90	peak	Р
3	5224.153	71.42	-27.19	44.23	74.00	-29.77	peak	Р
4	6621.376	74.70	-25.27	49.43	74.00	-24.57	peak	Р
5 *	9420.880	80.86	-23.37	57.49	74.00	-16.51	peak	Р
6	11600.350	79.94	-22.89	57.05	74.00	-16.95	peak	Р

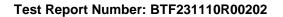




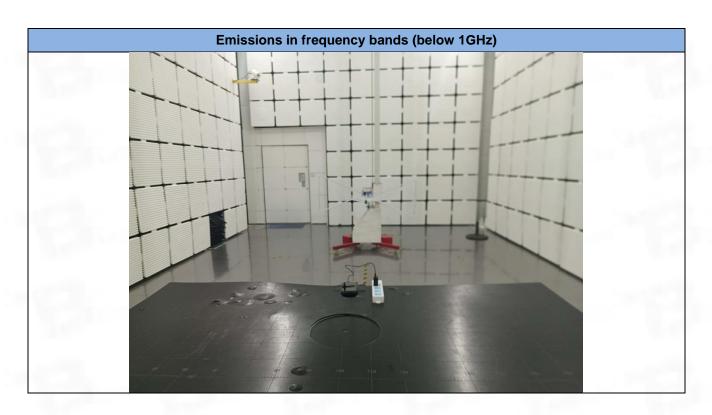
## **Test Setup Photos**

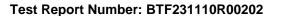














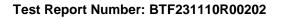
## **EUT Constructional Details (EUT Photos)**

Please refer to Report No.BTF231110R00201





# **Appendix**

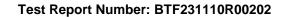




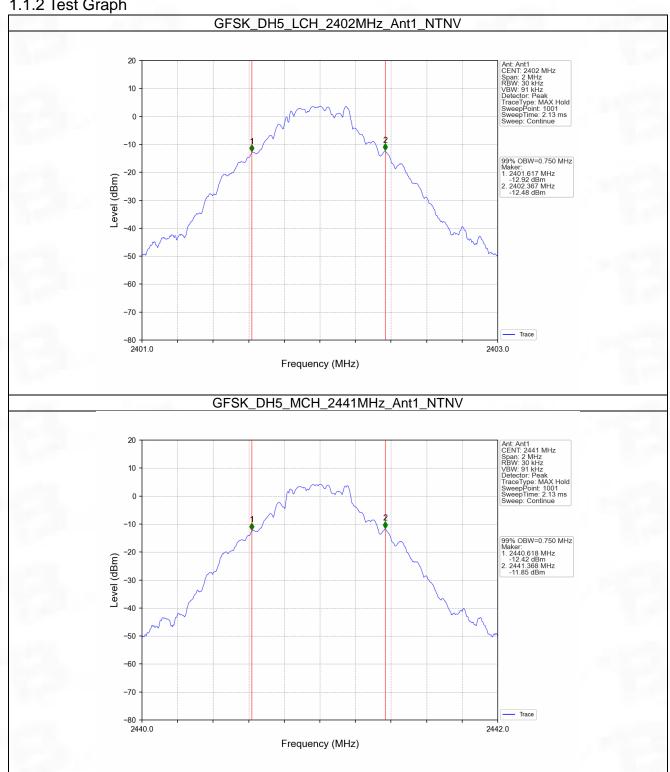
## 1. Bandwidth

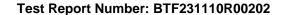
## 1.1 OBW

Mode	TX	Frequency	Packet	ANT	99% Occupied E	Verdict	
	Type	(MHz)	Type	AINI	Result	Limit	verdict
		2402	DH5	1	0.750	/	Pass
GFSK	SISO	2441	DH5	1	0.750	/	Pass
		2480	DH5	1	0.751	/	Pass
	SISO	2402	2DH5	1	1.150	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.144	/	Pass
		2480	2DH5	1	1.143	/	Pass
8DPSK	SISO	2402	3DH5	1	1.160	/	Pass
		2441	3DH5	1	1.154	/	Pass
		2480	3DH5	1	1.152	/	Pass

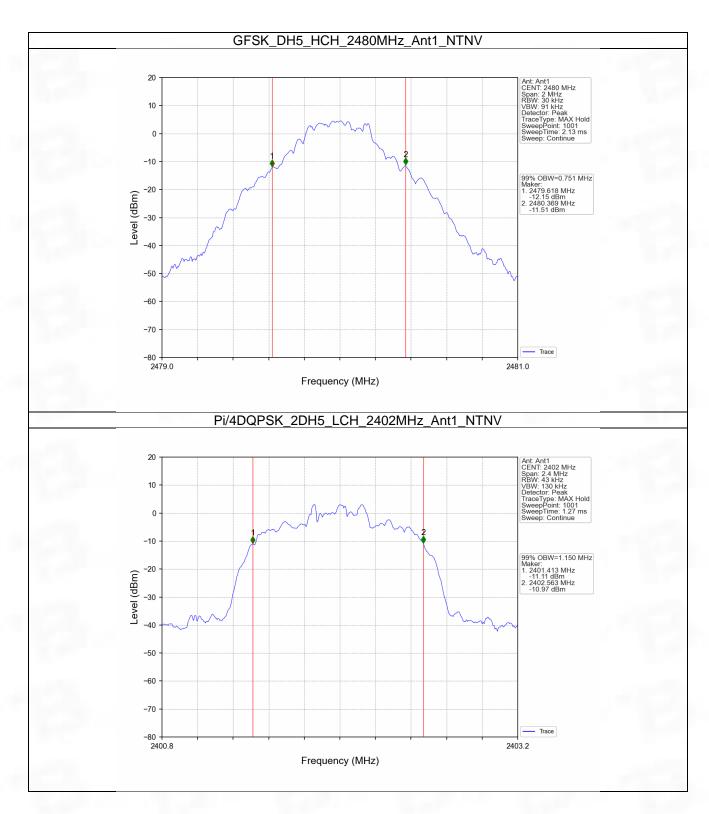


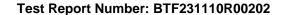




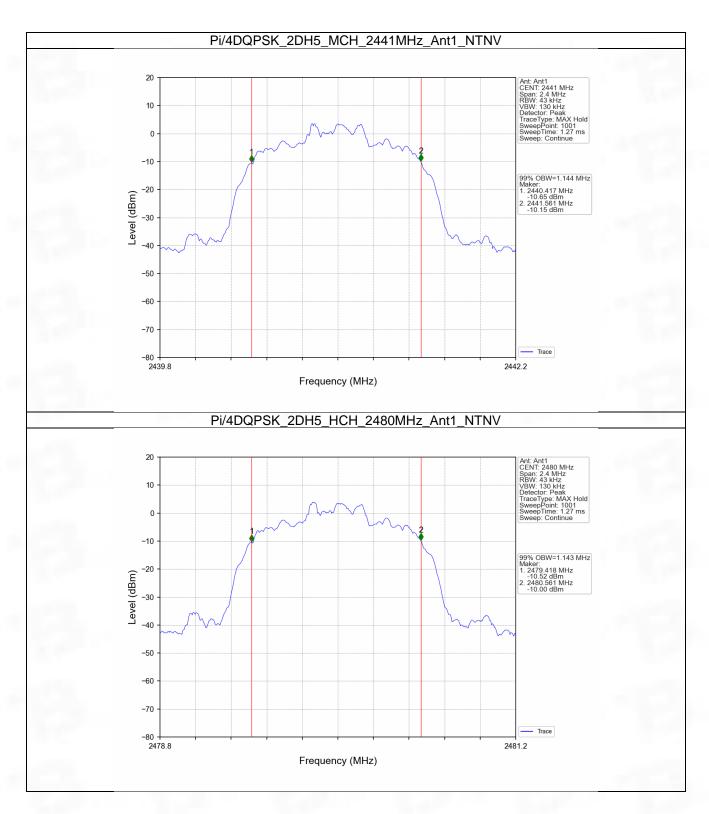


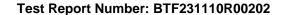




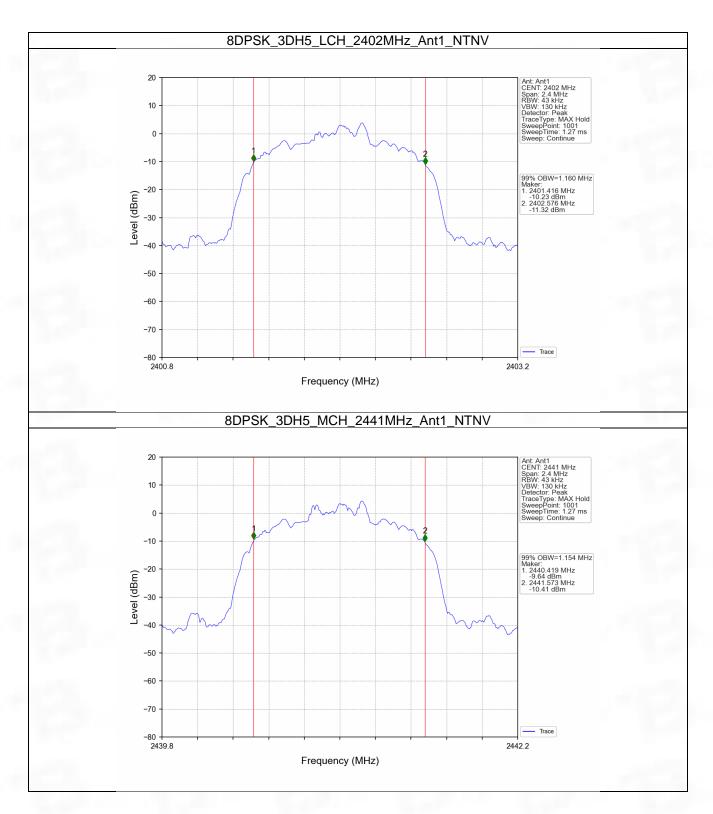


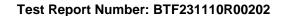




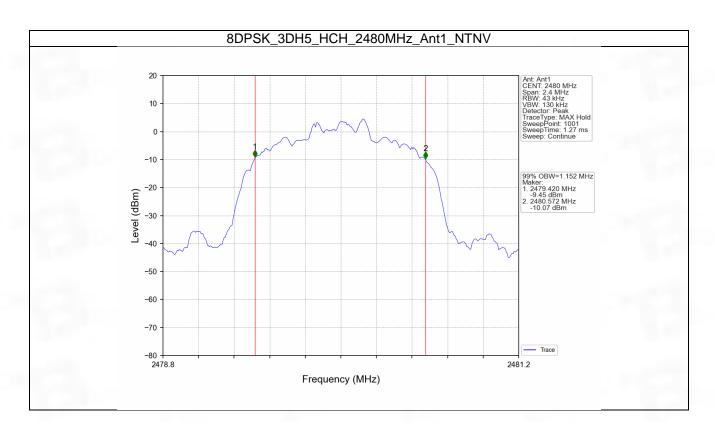


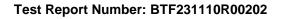








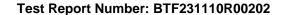




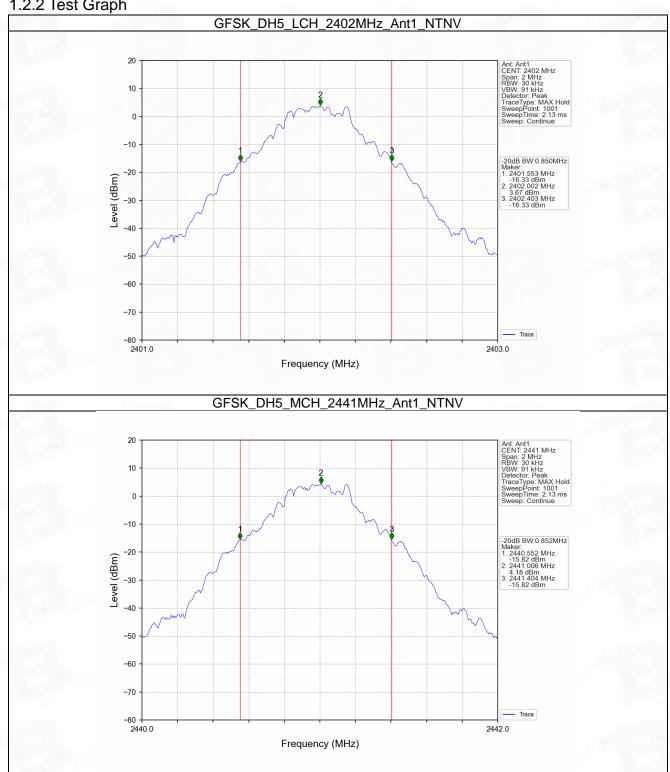


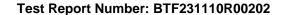
## 1.2 20dB BW

Mode	TX	Frequency	Packet	ANT	20dB Bandy	Verdict	
	Type	(MHz)	Туре	ANI	Result	Limit	verdict
		2402	DH5	1	0.850	/	Pass
GFSK	SISO	2441	DH5	1	0.852	/	Pass
		2480	DH5	1	0.848	1	Pass
	SISO	2402	2DH5	1	1.285	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.285	/	Pass
		2480	2DH5	1	1.283	/	Pass
8DPSK	SISO	2402	3DH5	1	1.296	/	Pass
		2441	3DH5	1	1.295	/	Pass
		2480	3DH5	1	1.293	/	Pass

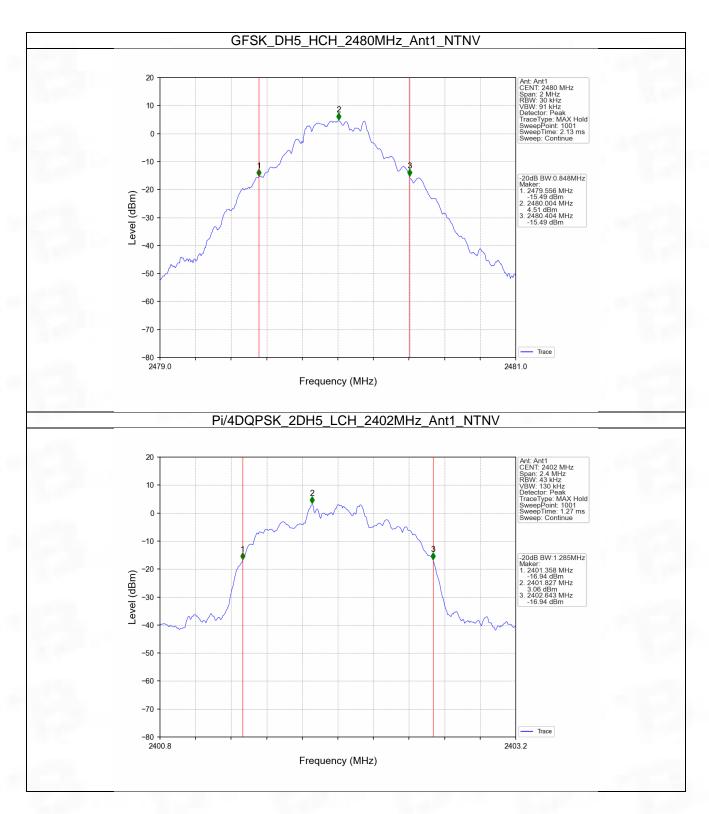


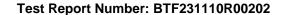




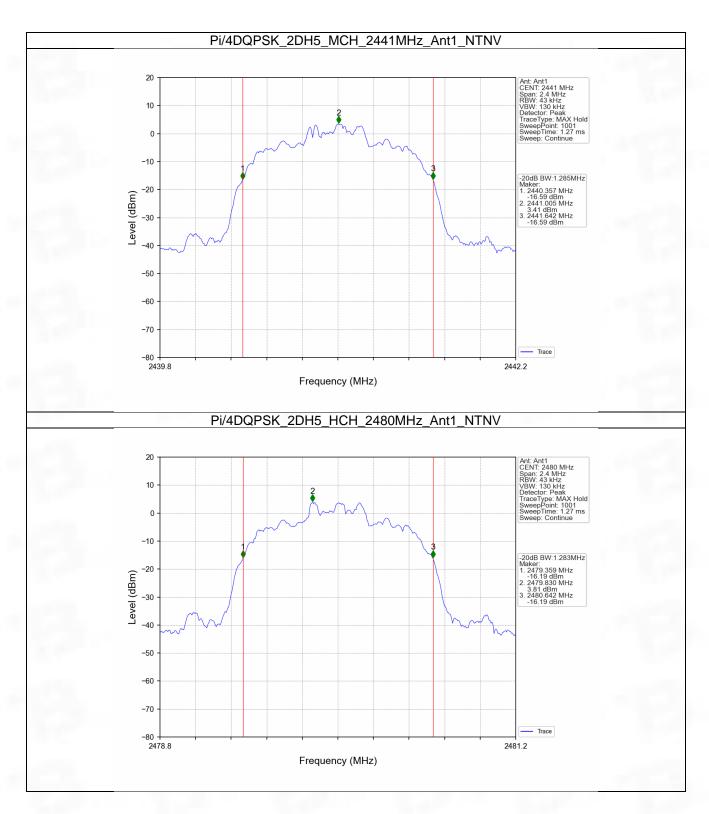


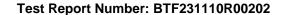




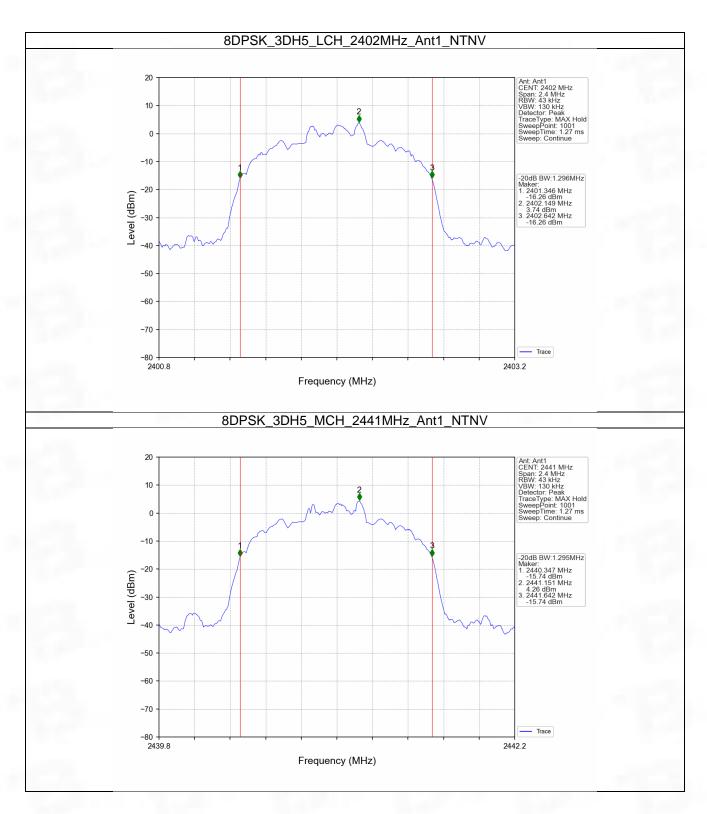


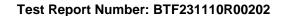




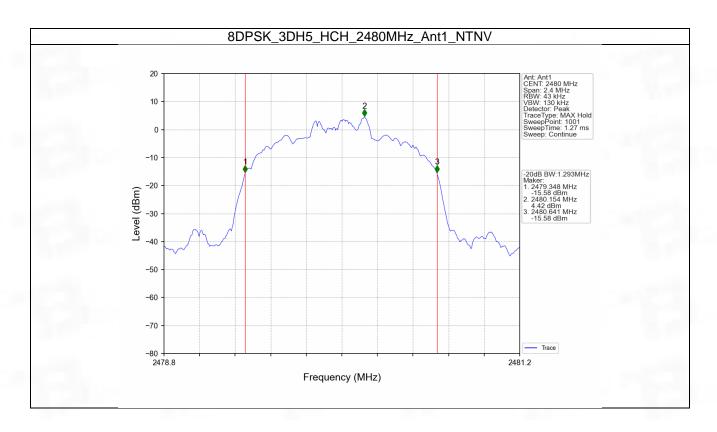


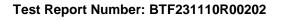










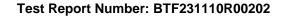




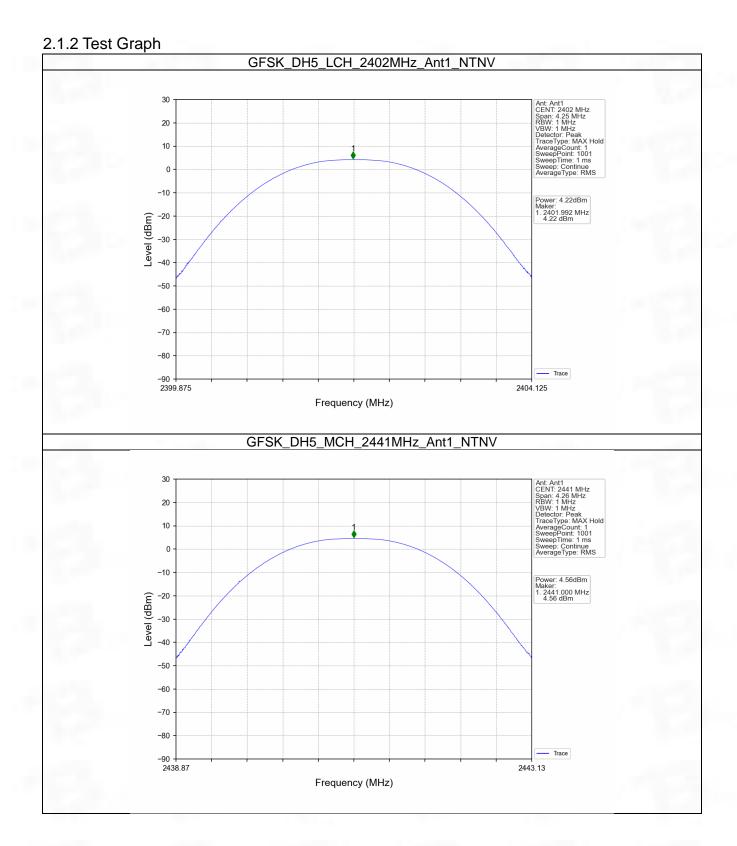
# 2. Maximum Conducted Output Power

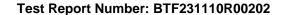
## 2.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Cond (dE	Verdict			
				ANT1	Limit			
		2402	DH5	4.22	<=30	Pass		
GFSK	SISO	2441	DH5	4.56	<=30	Pass		
		2480	DH5	4.94	<=30	Pass		
Pi/4DQPSK	SISO	2402	2DH5	3.71	<=20.97	Pass		
		2441	2DH5	4.02	<=20.97	Pass		
		2480	2DH5	4.29	<=20.97	Pass		
	SISO	2402	3DH5	3.72	<=20.97	Pass		
8DPSK		2441	3DH5	4.03	<=20.97	Pass		
		2480	3DH5	4.30	<=20.97	Pass		
Note1: Antenna Gain: Ant1: -0.33dBi;								

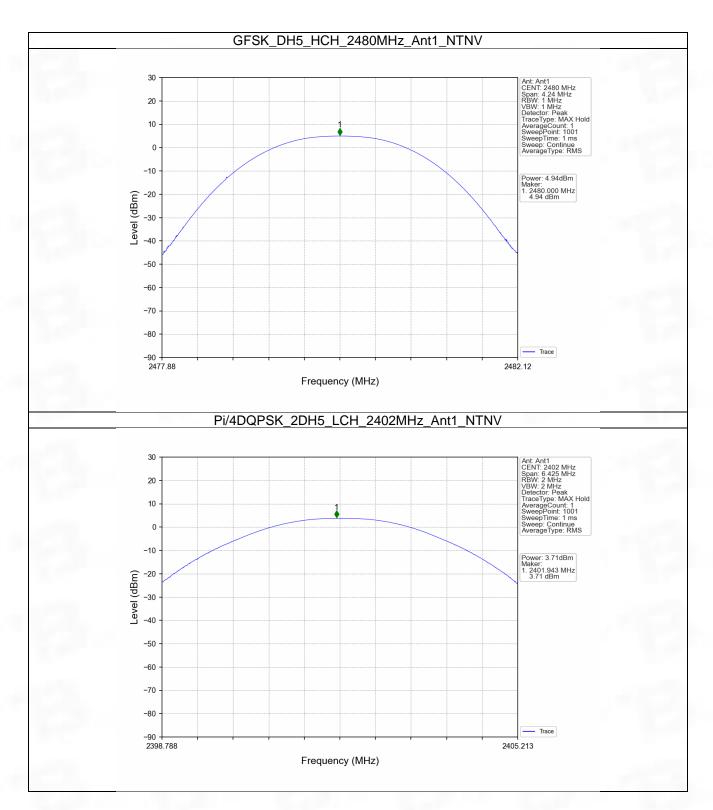


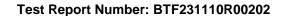




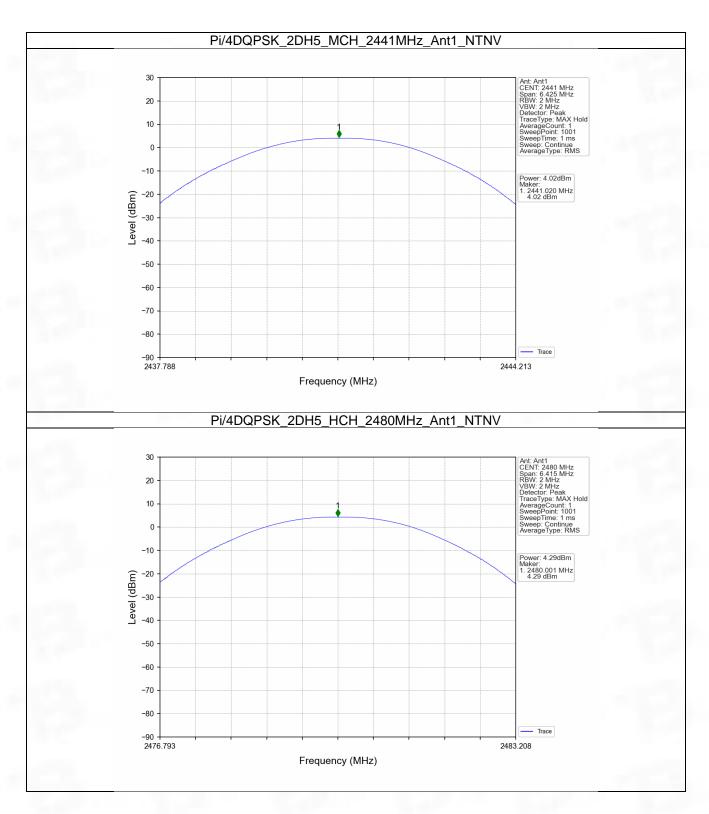


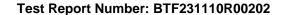




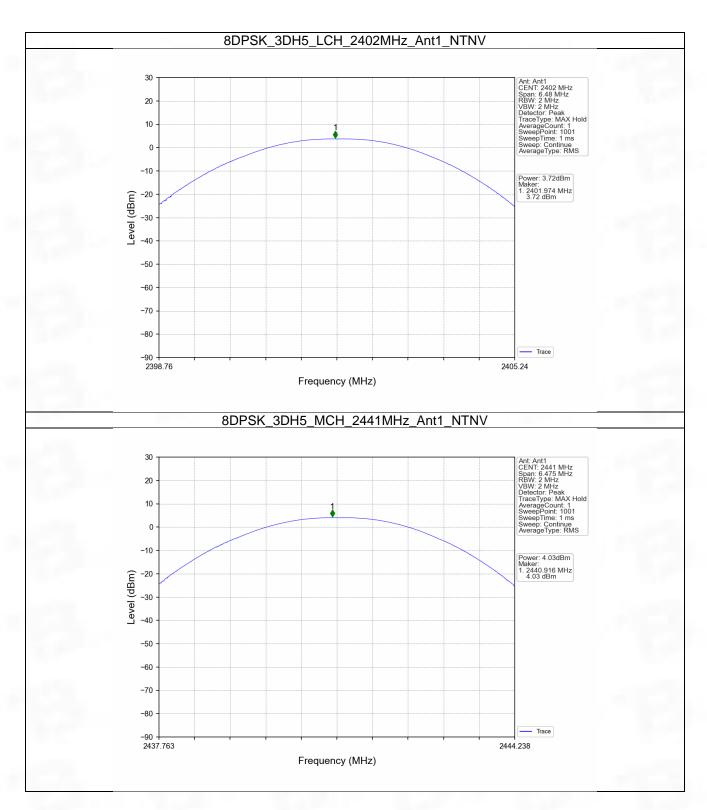


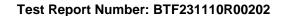




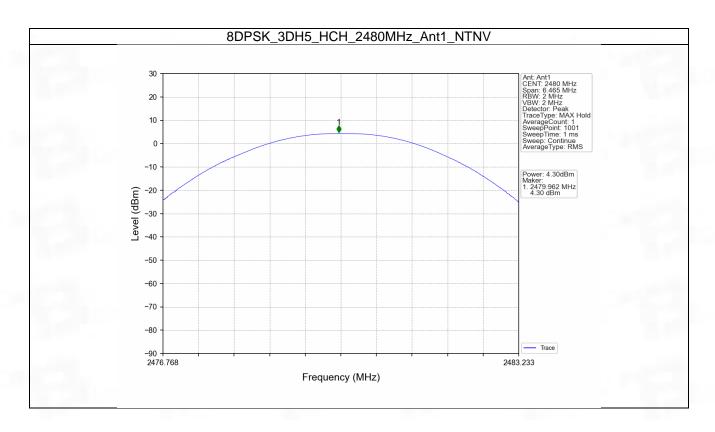


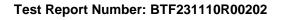










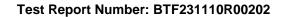




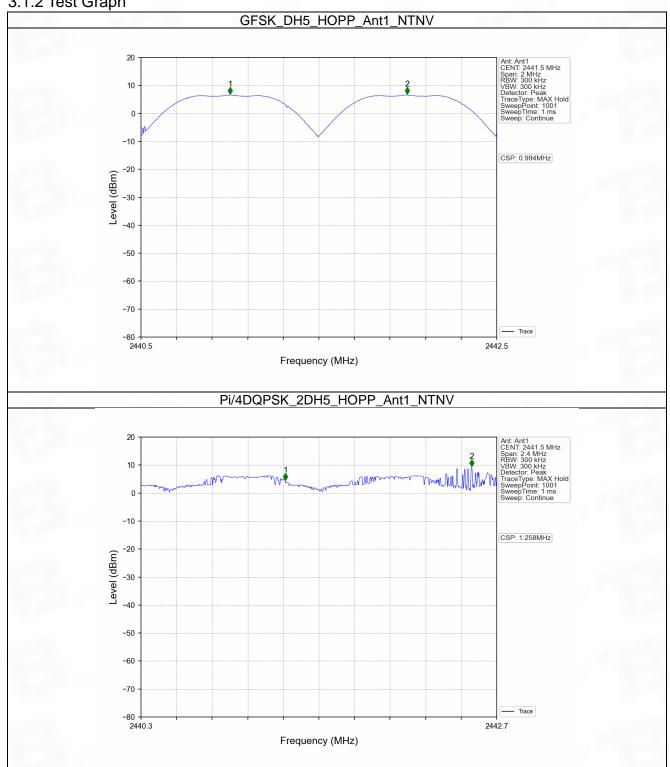
# 3. Carrier Frequency Separation

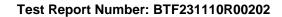
## 3.1 Ant1

Ant1									
Mode	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Verdict		
	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)	verdict		
GFSK	SISO	HOPP	DH5	0.994	0.852	>=0.852	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.258	1.285	>=0.857	Pass		
8DPSK	SISO	HOPP	3DH5	1.001	1.296	>=0.864	Pass		

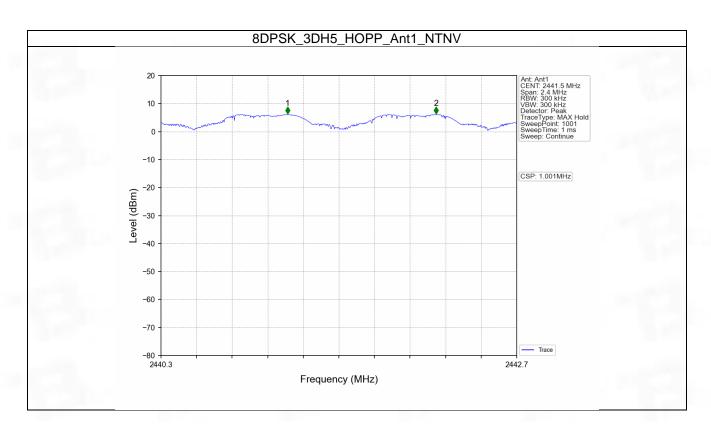


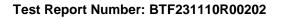










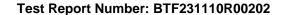




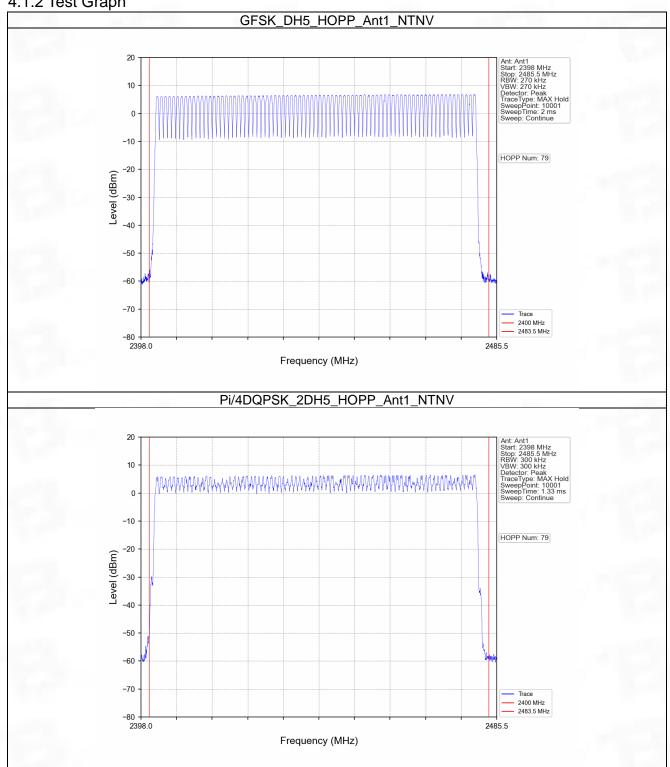
# 4. Number of Hopping Frequencies

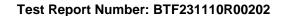
## 4.1 HoppNum

Mode	TX Frequency		Packet	Packet Num of Hopping Frequencies			
Mode	Type	(MHz)	Type	ANT1 Limit		Verdict	
GFSK	SISO	HOPP	DH5	79	>=15	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass	
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass	

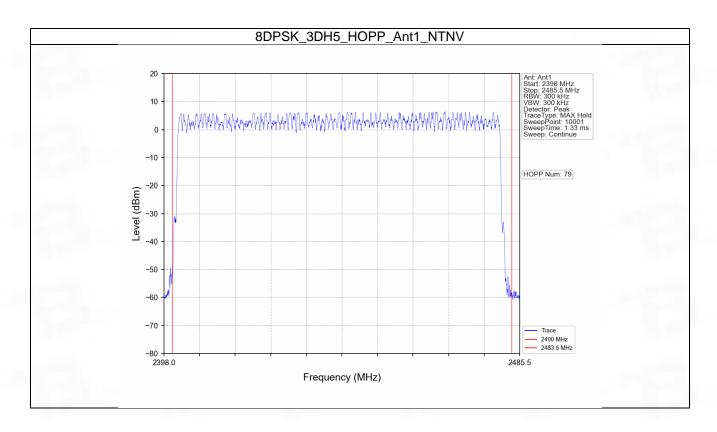


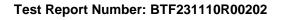










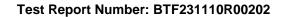




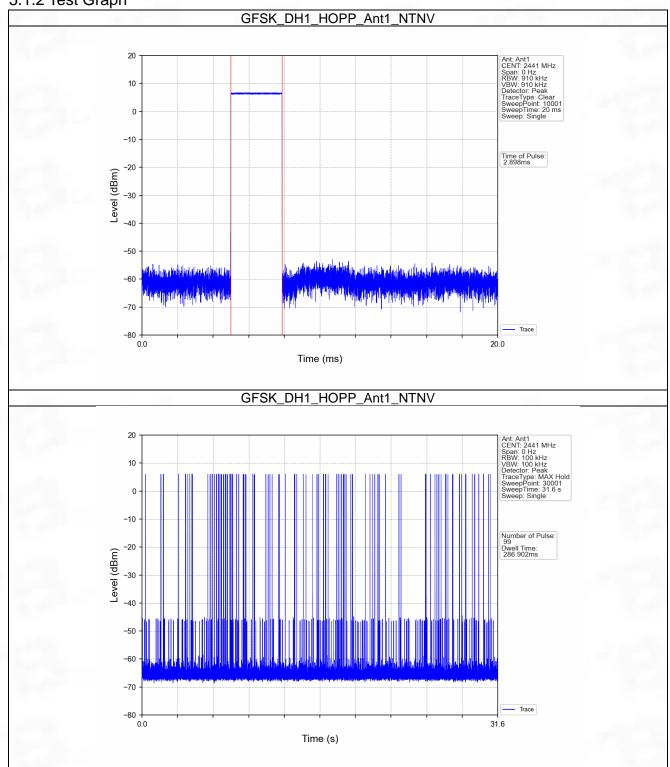
# 5. Time of Occupancy (Dwell Time)

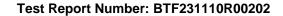
## 5.1 Ant1

Ant1										
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	()hearvation	Dwell Time (ms)	Limit (ms)	Verdict	
GFSK SIS			DH1	2.898	31.600	99	286.902	<=400	Pass	
	SISO	HOPP	DH3	1.650	31.600	166	273.900	<=400	Pass	
			DH5	2.898	31.600	103	298.494	<=400	Pass	
		ISO HOPP	2DH1	0.402	31.600	320	128.640	<=400	Pass	
Pi/4DQPSK	SISO		2DH3	1.640	31.600	161	264.040	<=400	Pass	
			2DH5	2.902	31.600	107	310.514	<=400	Pass	
8DPSK		60 НОРР	3DH1	0.402	31.600	320	128.640	<=400	Pass	
	SISO		3DH3	1.638	31.600	156	255.528	<=400	Pass	
			3DH5	2.904	31.600	109	316.536	<=400	Pass	

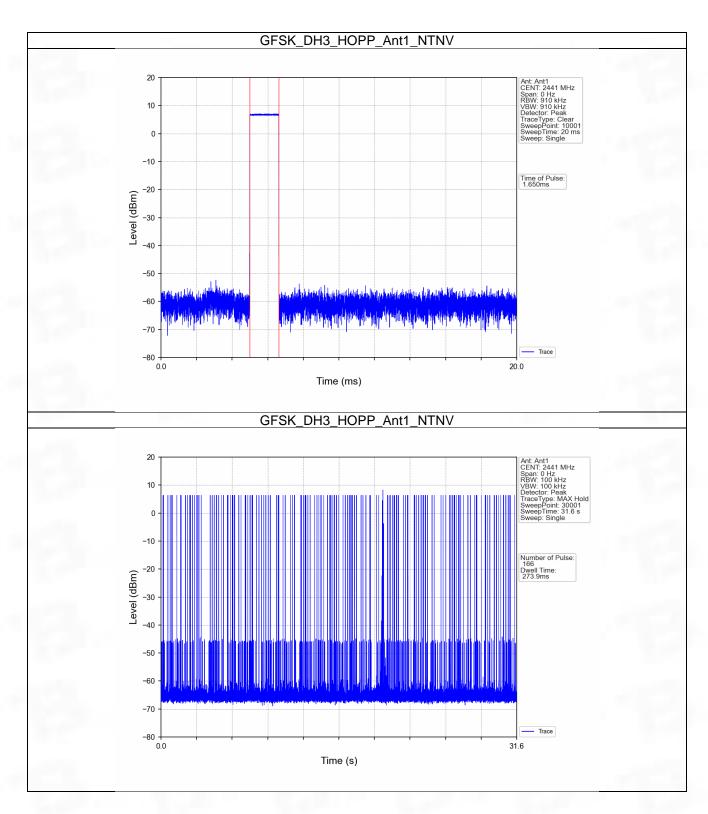


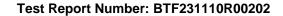




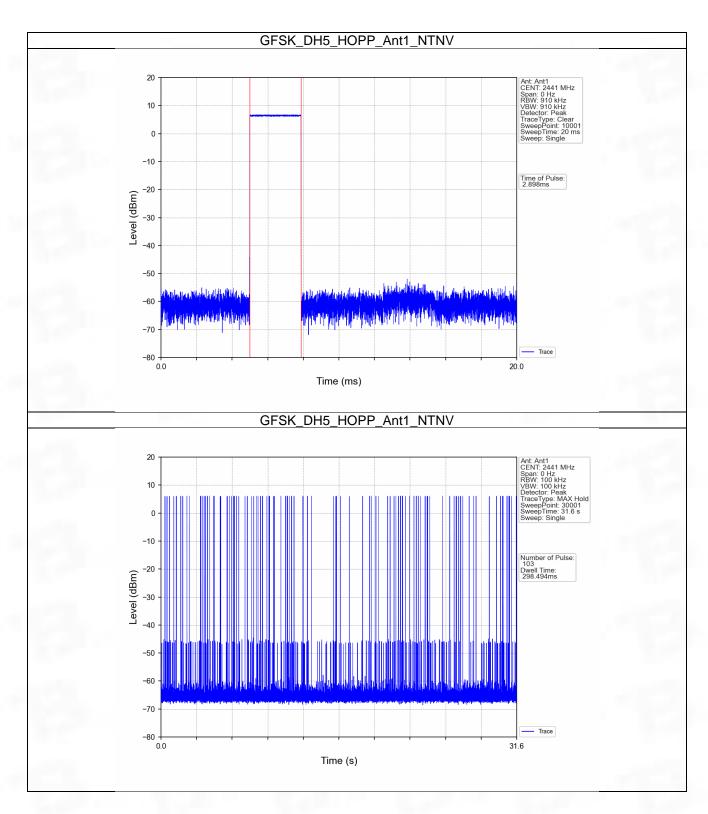


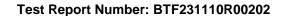




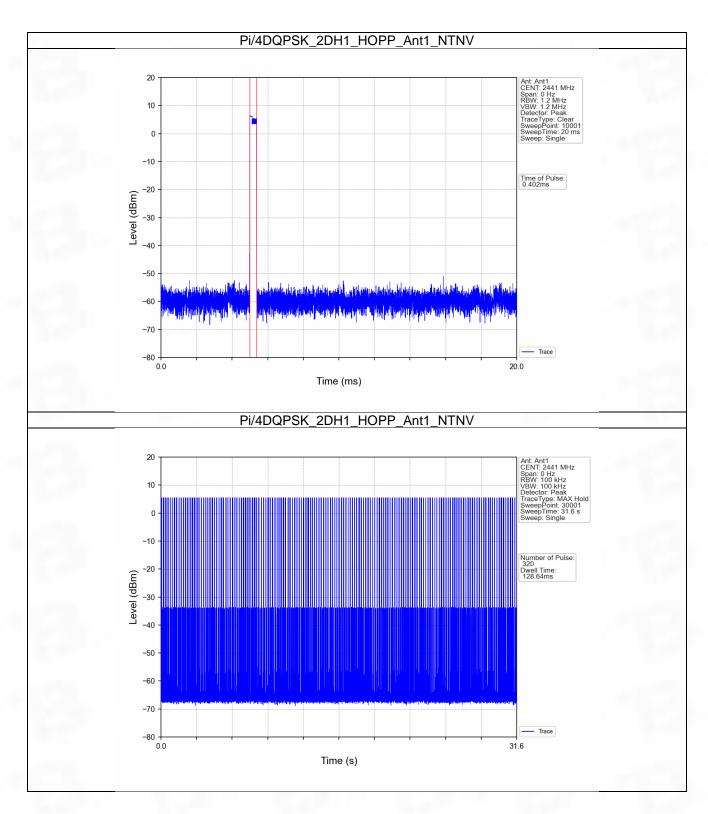


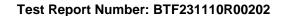




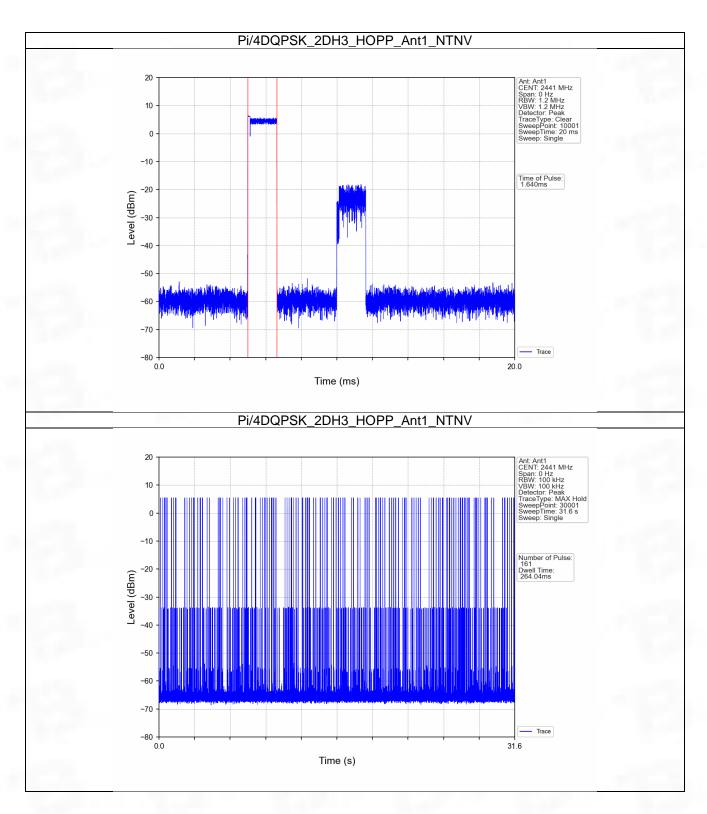


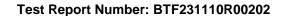




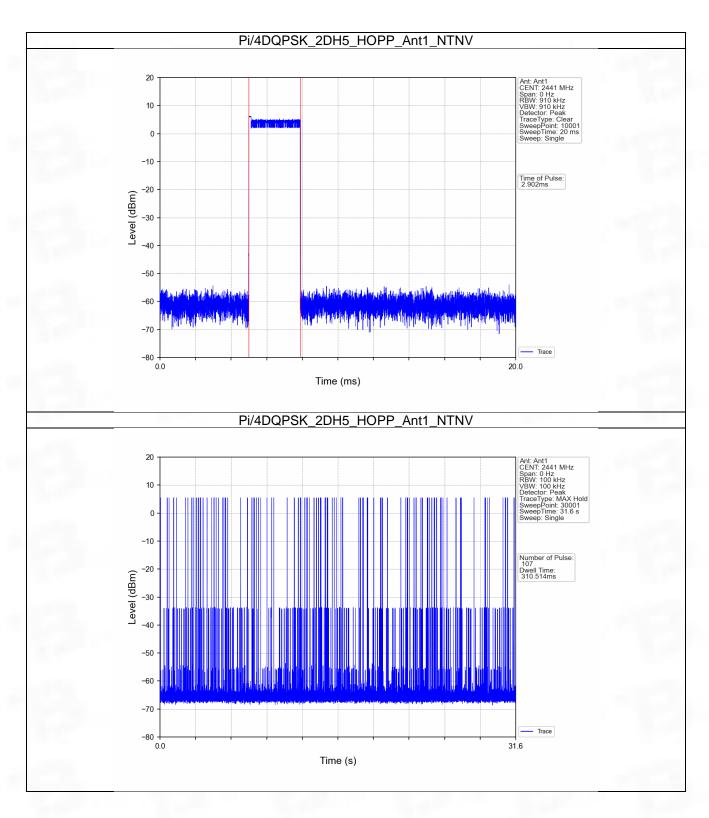




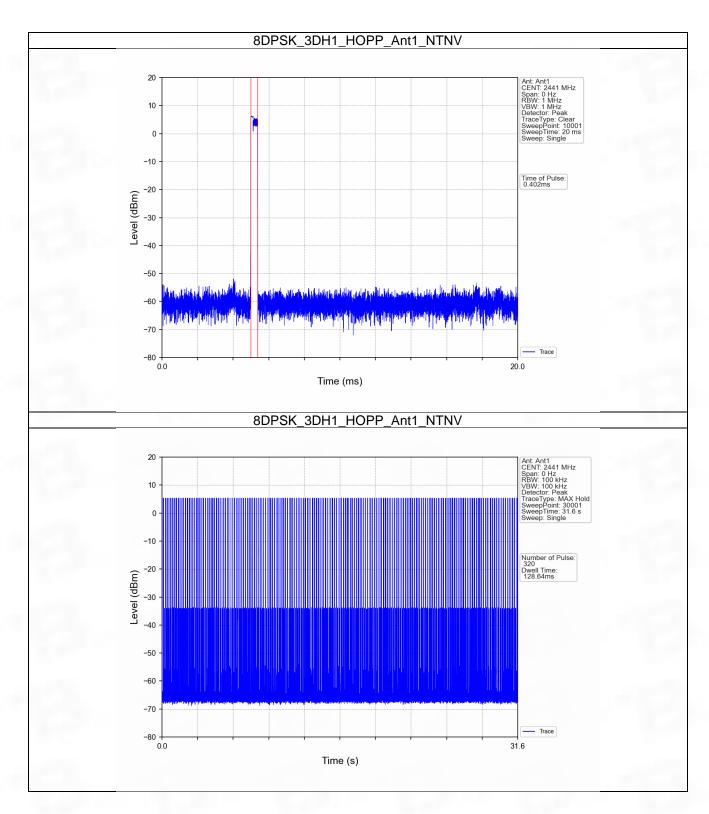


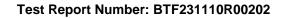




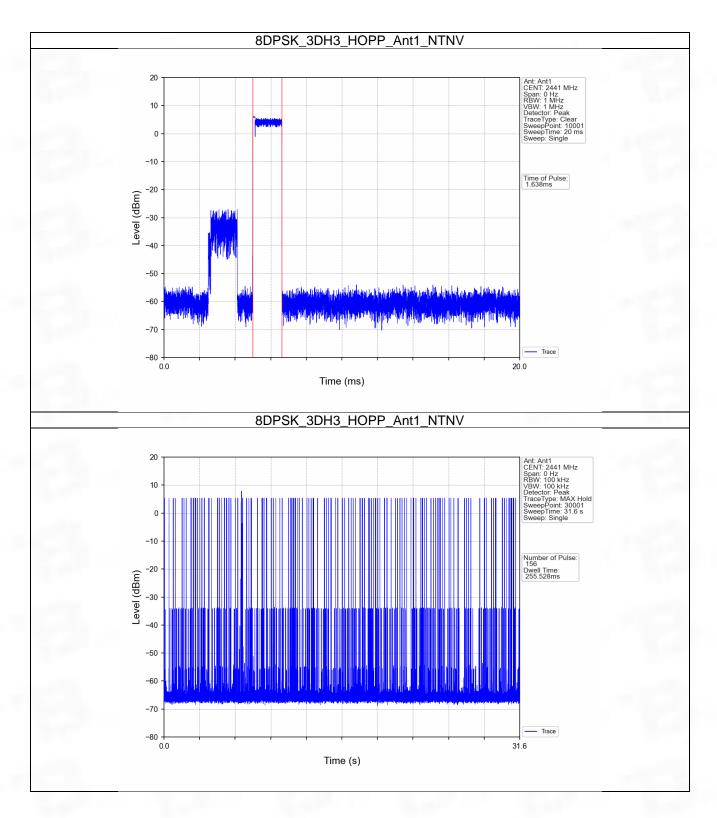


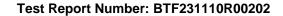




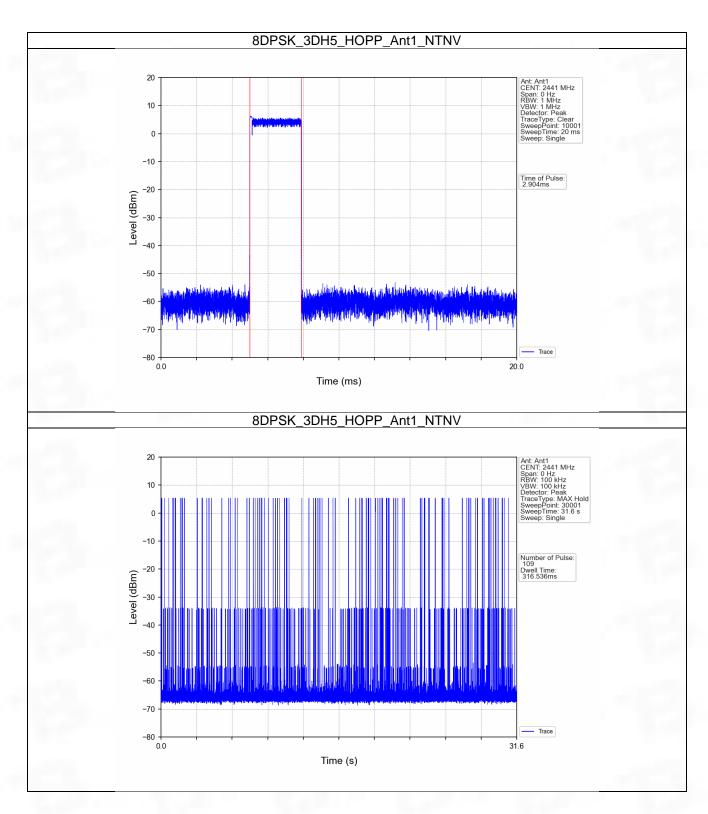


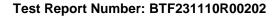














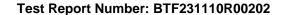
# 6. Unwanted Emissions In Non-restricted Frequency Bands

#### 6.1 Ref

#### 6.1.1 Test Result

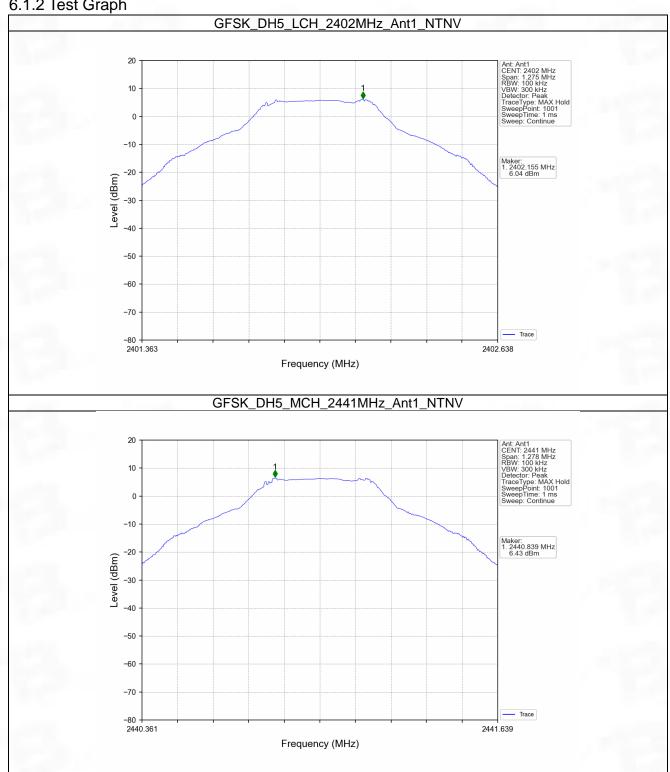
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK		2402	DH5	1	6.04
	SISO	2441	DH5	1	6.43
		2480	DH5	1	6.73
Pi/4DQPSK	SISO	2402	2DH5	1	5.84
		2441	2DH5	1	6.27
		2480	2DH5	1	6.49
8DPSK	SISO	2402	3DH5	1	5.46
		2441	3DH5	1	6.19
		2480	3DH5	1	6.26

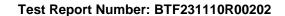
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



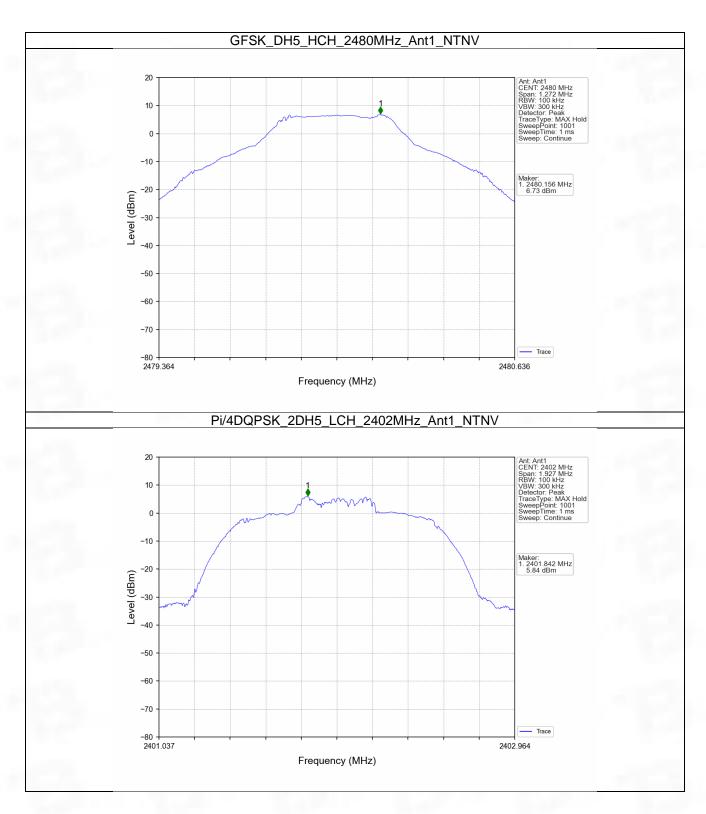


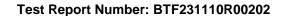
6.1.2 Test Graph



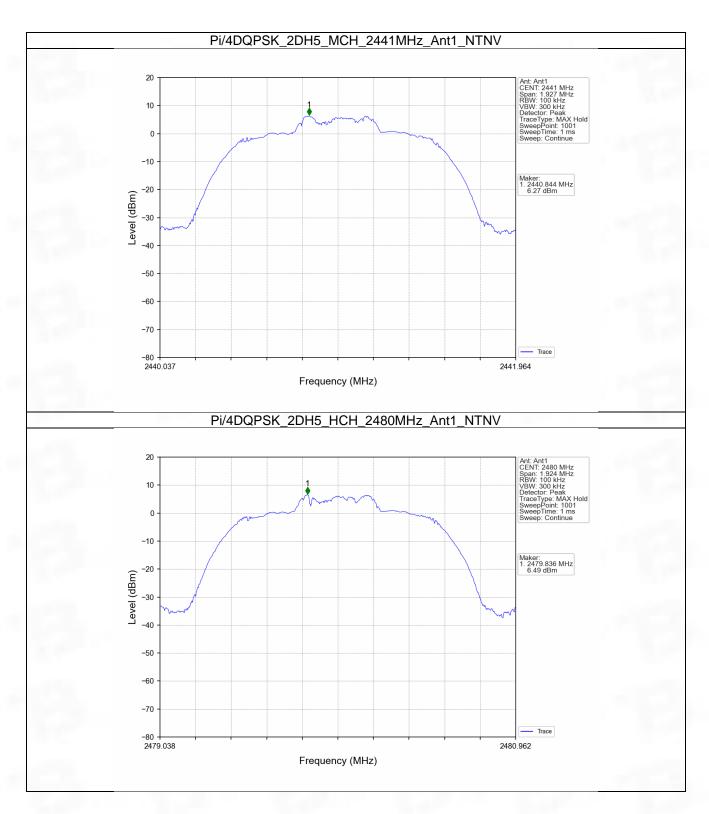


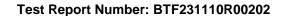




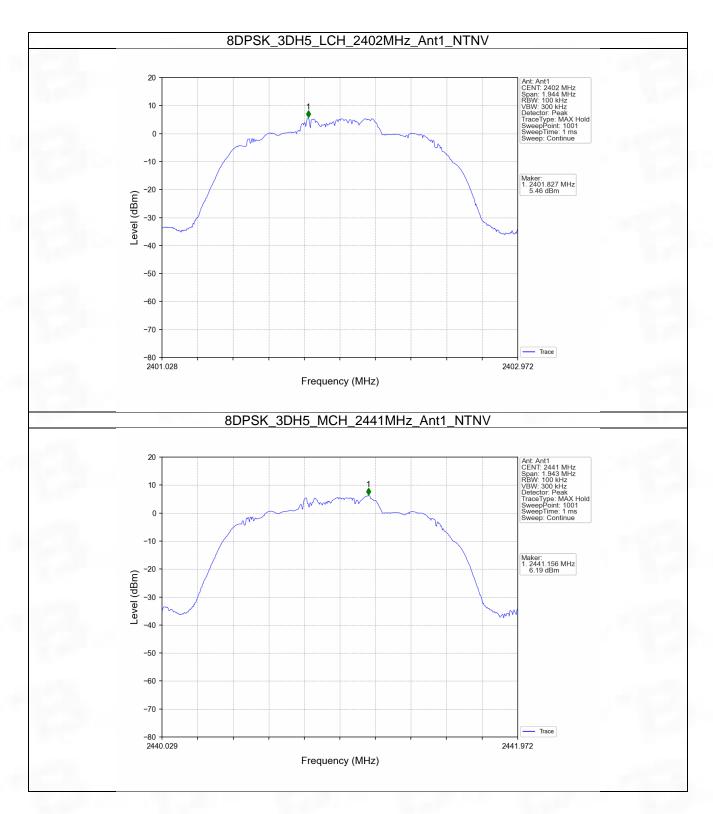


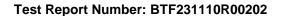




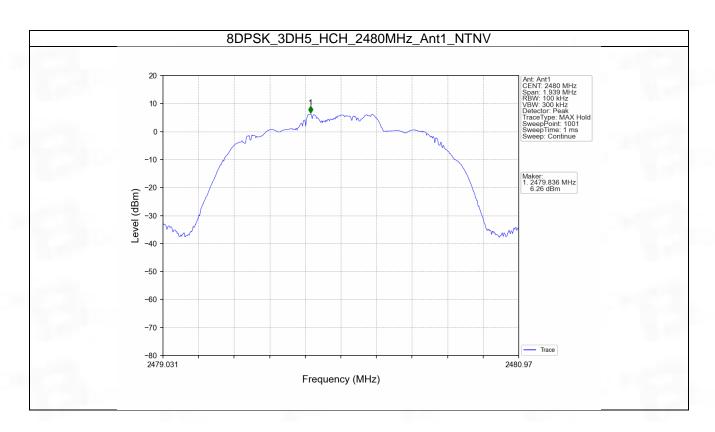


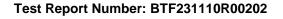












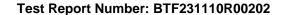


#### 6.2 CSE

#### 6.2.1 Test Result

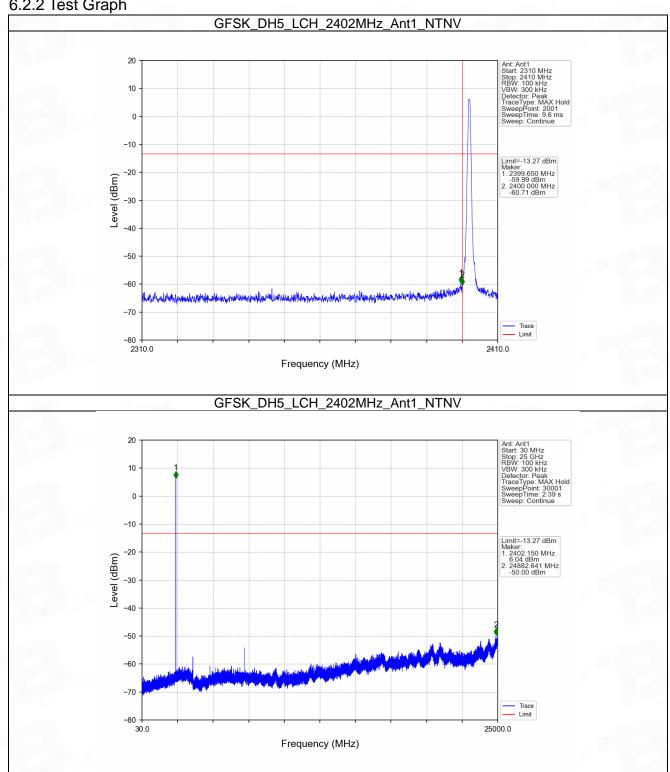
Mode TX Type	TX	Frequency	Packet	ANT	Level of Reference	Limit	Verdict
	Type	(MHz)	Type		(dBm)	(dBm)	
GFSK S		2402	DH5	1	6.73	-13.27	Pass
		2441	DH5	1	6.73	-13.27	Pass
	SISO	2480	DH5	1	6.73	-13.27	Pass
		HOPP	DH5	1	6.73	-13.27	Pass
					6.73	-13.27	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	6.49	-13.51	Pass
		2441	2DH5	1	6.49	-13.51	Pass
		2480	2DH5	1	6.49	-13.51	Pass
		НОРР	2DH5	1	6.49	-13.51	Pass
					6.49	-13.51	Pass
8DPSK	SISO	2402	3DH5	1	6.26	-13.74	Pass
		2441	3DH5	1	6.26	-13.74	Pass
		2480	3DH5	1	6.26	-13.74	Pass
		НОРР	3DH5	1	6.26	-13.74	Pass
					6.26	-13.74	Pass

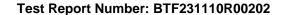
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



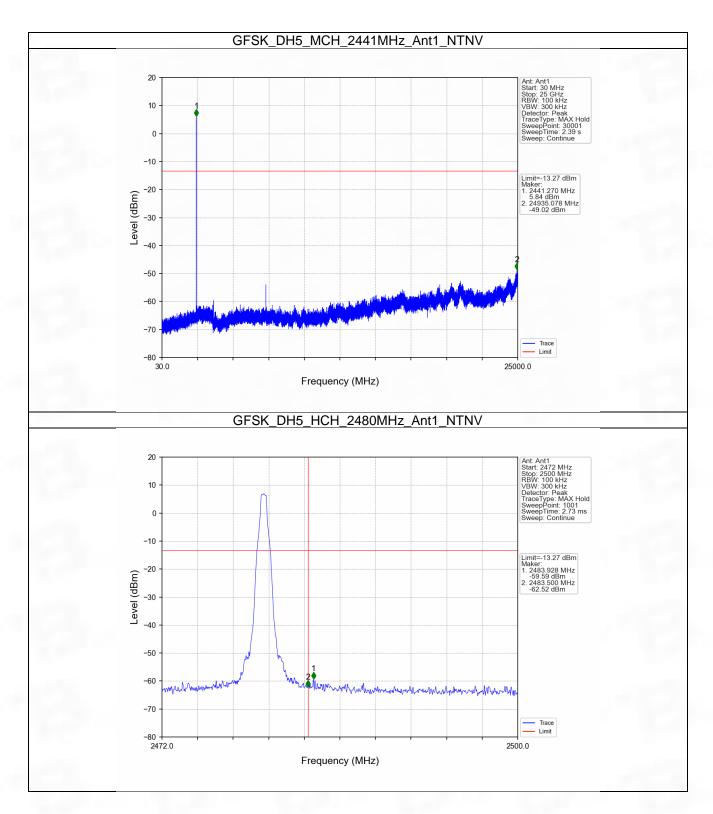


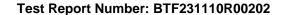
6.2.2 Test Graph



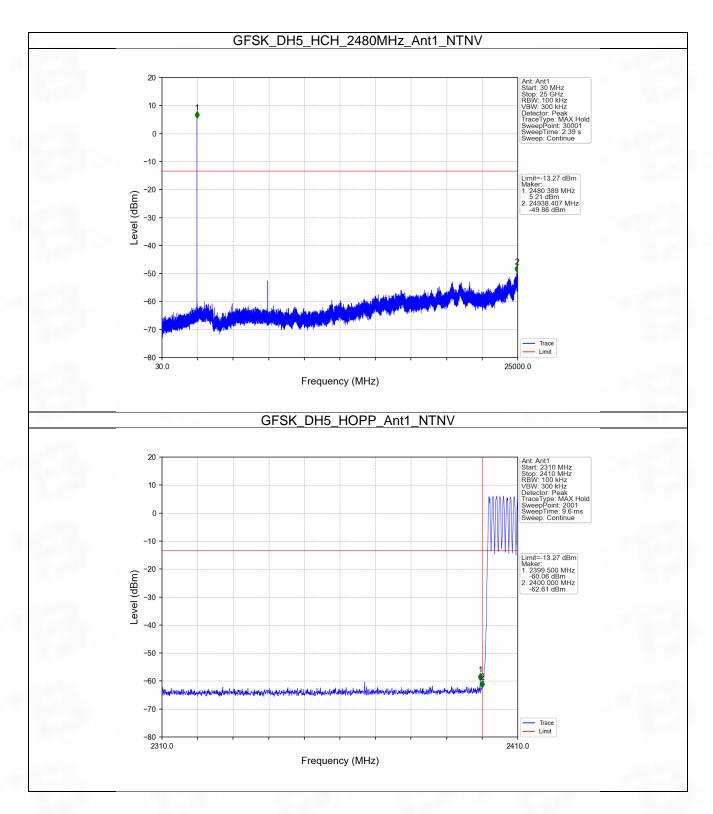


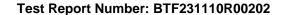




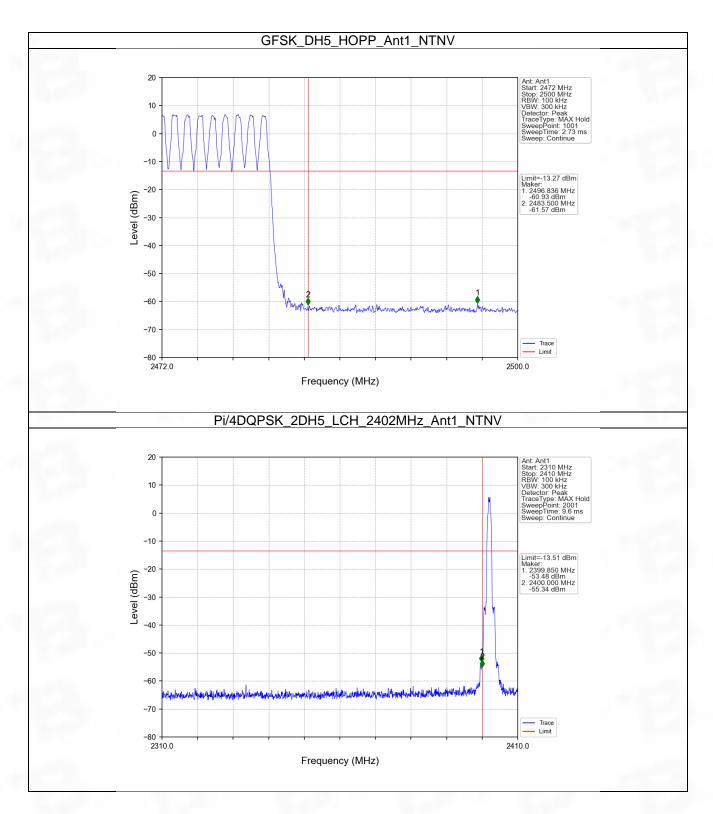


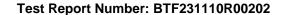




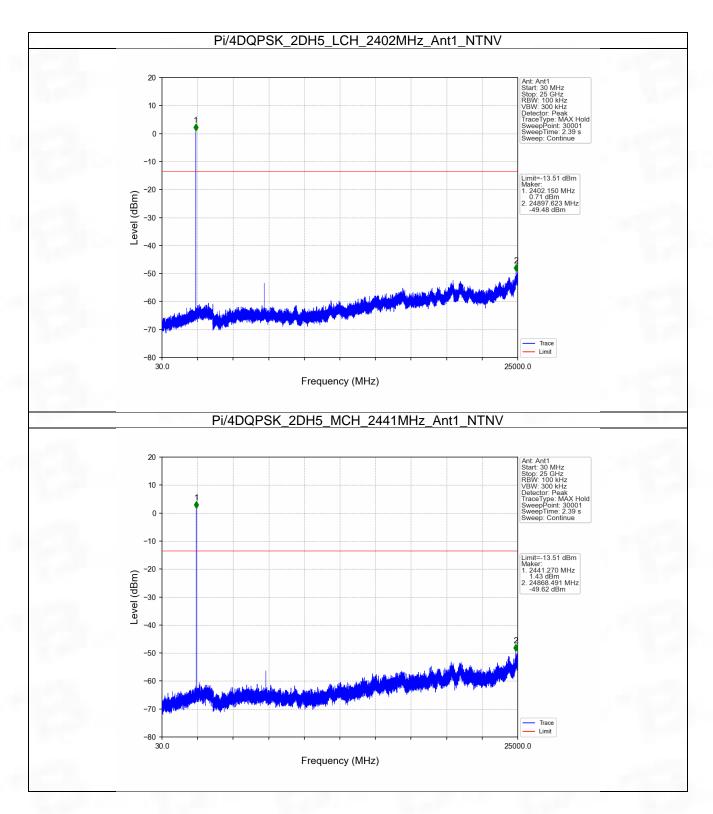


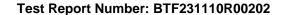




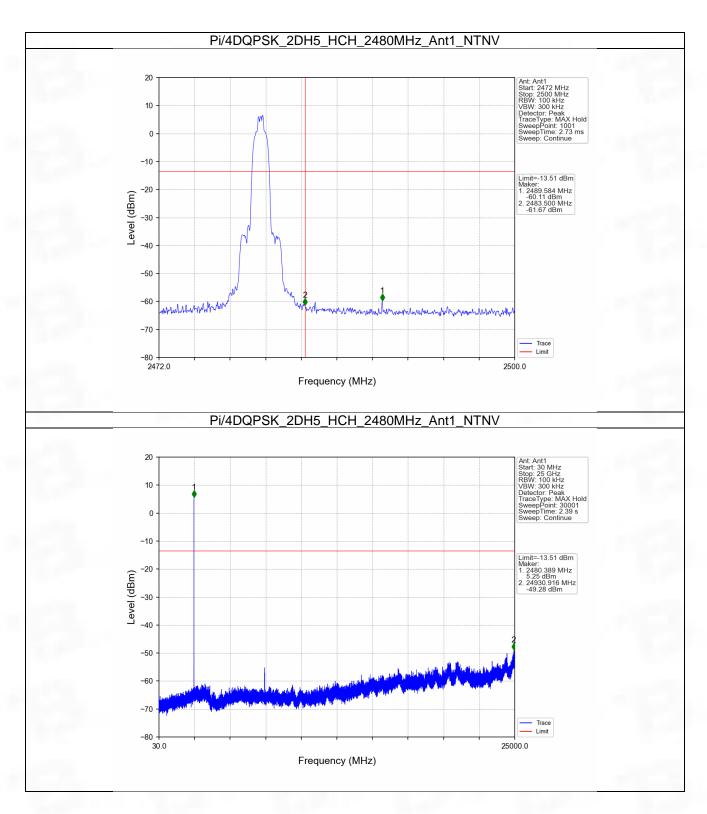


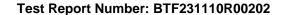




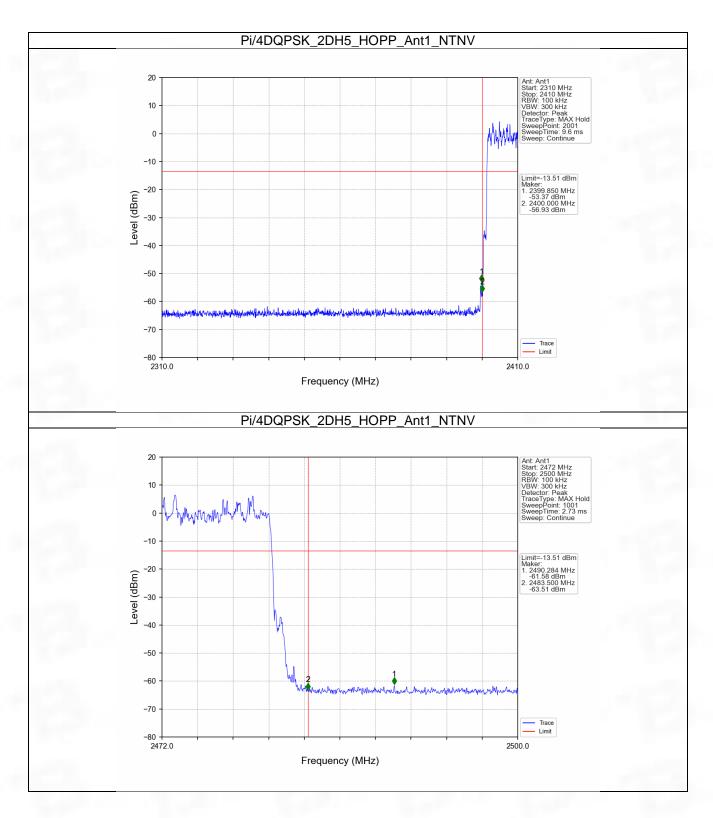


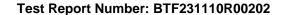




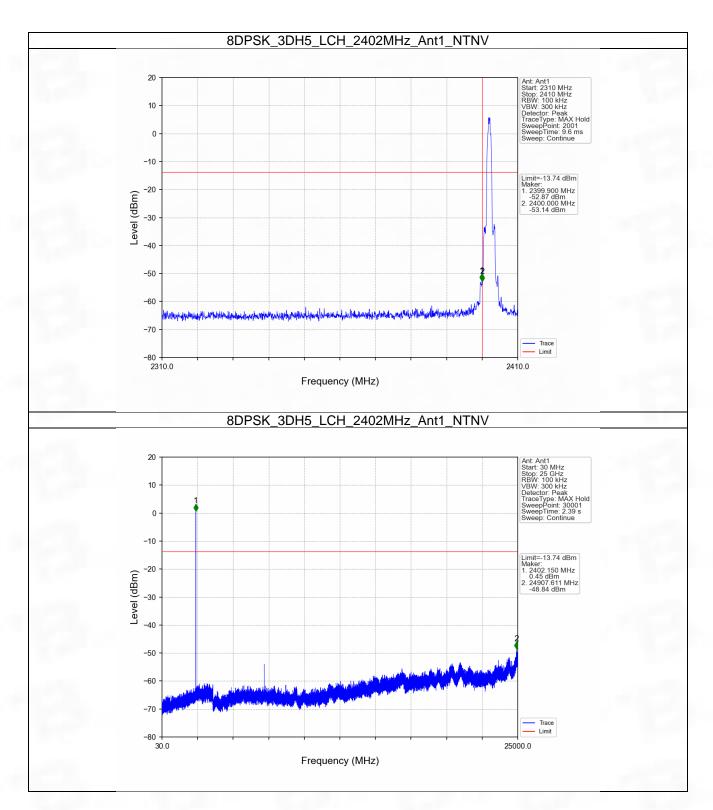




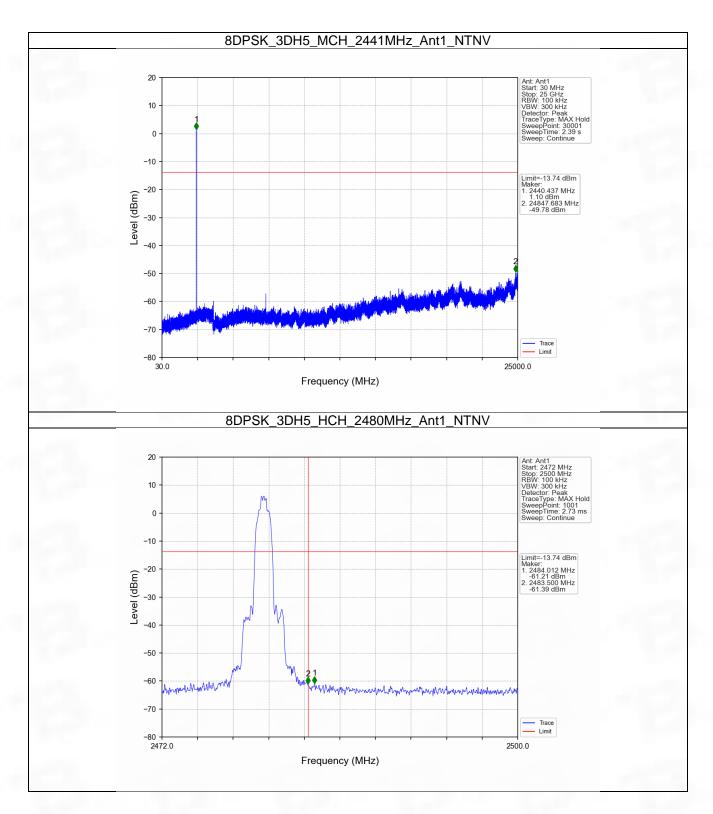


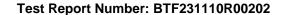




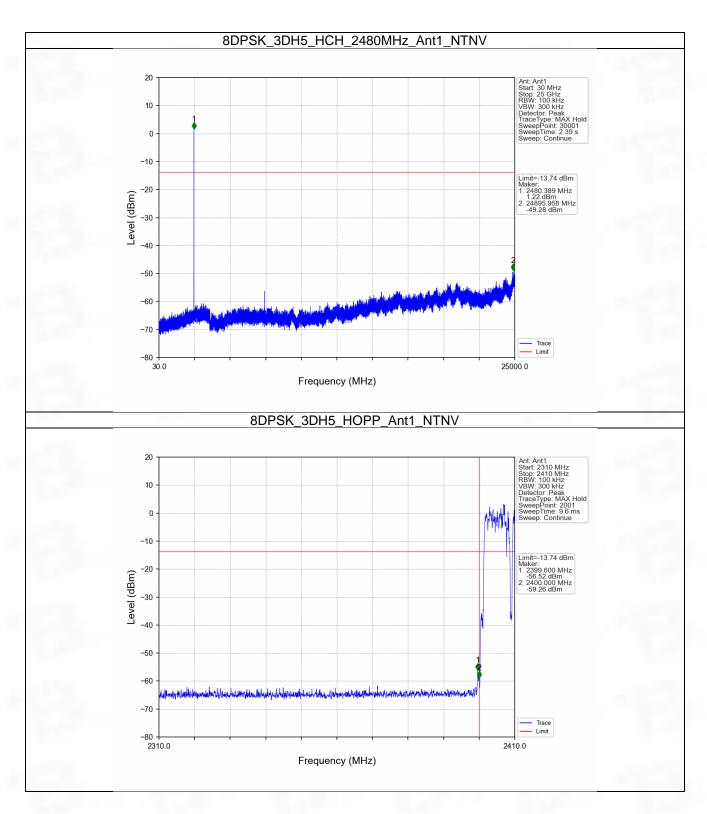


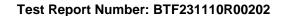




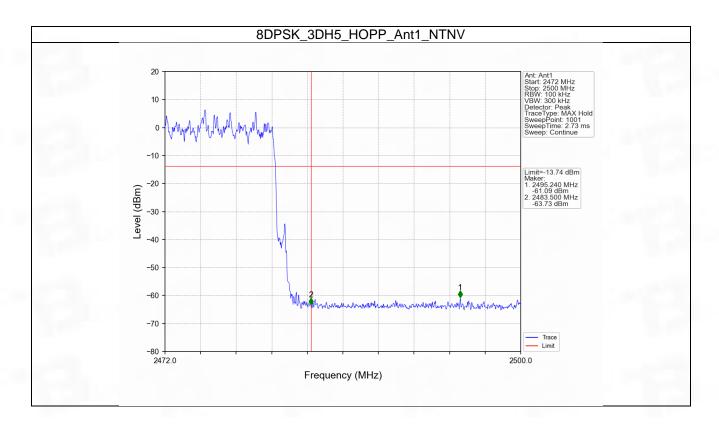


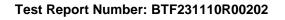












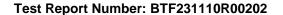


# 7. Form731

### 7.1 Form731

### 7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0031	4.94







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