

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100044102

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# TEST REPORT

**Application No.:** FYCR2211000441ET(SGS SZ No.: T52210320116EM)

Applicant: SCX DESIGN

Address of Applicant: 44 rue de la Jonquière Paris 75017 France

Manufacturer: SCX DESIGN

Address of Manufacturer: 44 rue de la Jonquière Paris 75017 France

**Equipment Under Test (EUT):** 

**EUT Name:** EARBUDS FREEDOMER

Item No.:32512Shipment Order No:7166532Country of OriginChinaCountry of Distribution:US

**FCC ID:** 2A2OH-E1930L

Standard(s): 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2022-11-04

**Date of Test:** 2022-11-10 to 2022-11-22

**Date of Issue:** 2022-11-23

Test Result: Pass\*

Winkey Wang

Winkey Wang

EMC Technical Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier Ren						
01		2022-11-23		Original			

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWarg	
	Winkey Wang/Reviewer	



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# 2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement		N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power		ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass		
Carrier Frequencies Separation		ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass		
Hopping Channel Number		ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Dwell Time		ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		

#### Remark:

According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the left and right earbuds. Therefore, only the data of the right earbuds is kept in the report.



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Left earbuds: Rechargeable Battery 3.7V 50mAh(Charged by travel case)
	Right earbuds: Rechargeable Battery 3.7V 50mAh(Charged by travel case)
	Travel case with backup battery: Rechargeable Battery 3.7V, 400mAh ,1.48Wh (Charged by Type-C port).
Cable(s):	Type-C USB cable:50cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3(classic)
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PCB Antenna
Antenna Gain:	3.3dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.		
The EUT has been tested as an independent unit.					

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.8dB
20dB Bandwidth	± 0.3%
Carrier Frequencies Separation	± 0.3%
Hopping Channel Number	± 0.3%
Dwell Time	± 0.3%
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None





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# 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Carrier Frequencies Separation						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	

Hopping Channel Number						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	



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Dwell Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Spurious Emissions					
Equipment Manufacturer Model No. Inventory No. Cal Date Cal				Cal Due Date	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Coaxial Cable CCS		N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	I Schwarzbeck		SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer KEYSIGH		N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	Coaxial Cable CCS		SEM035-03	2022/5/16	2023/5/15
Pre-amplifier TST PASS		LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier TST PASS		LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11	
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11	



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# 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

### 6.1.2 Conclusion

#### Standard Requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.3dBi.

Antenna location: Refer to internal photo.





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# 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

#### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping



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frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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# 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)
Test Method: ANSI C63.10 (2013) Section 7.8.5

### Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850 1 for frequency hopping systems and digital modular	

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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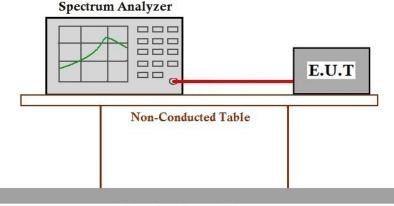


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### 7.1.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)
Test Method: ANSI C63.10 (2013) Section 7.8.7

### 7.2.1 E.U.T. Operation

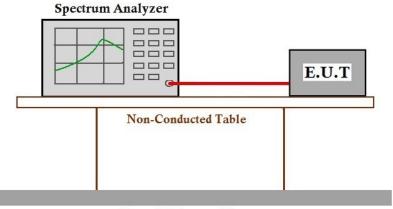
Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.3 Carrier Frequencies Separation

47 CFR Part 15, Subpart C 15.247a(1) Test Requirement Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

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.

### 7.3.1 E.U.T. Operation

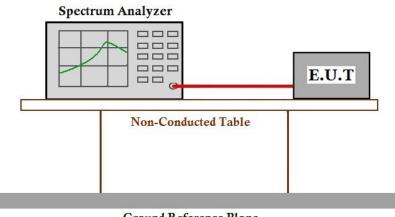
Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.3.4 Measurement Procedure and Data

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### 7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
000 000	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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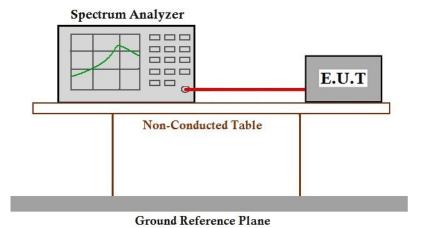


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### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

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### 7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit				
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)				
902-926	0.4S within a 10S period(20dB bandwidth≥250kHz)				
0400 0480 5	0.4S within a period of 0.4S multiplied by the number				
2400-2483.5	of hopping channels				
5725-5850	0.4S within a 30S period				

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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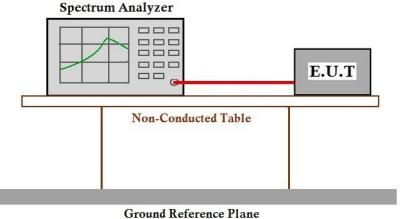


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### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

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### 7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test 01 Pi/4DQF		TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						



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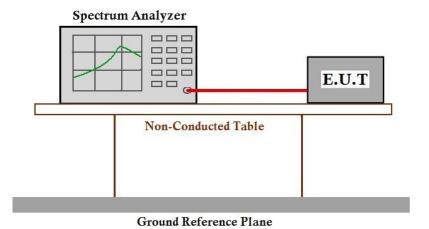


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### 7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

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

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

	···								
Pre-scan / Final test	Mode Code	Description							
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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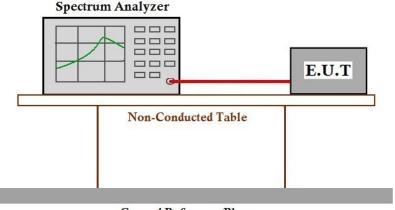


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### 7.7.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement 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
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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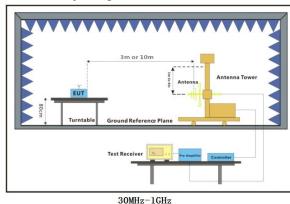


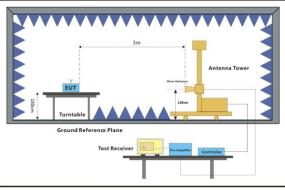
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### 7.8.3 Test Setup Diagram





Above 1GHz

#### 7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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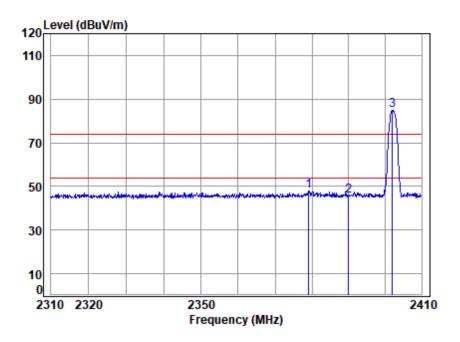


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET

Mode : 2402 Band edge

Note : BT

1 2

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	2379.150	5.05	27.13	32.50	48.12	47.80	74.00	-26.20	peak	
2	2390.000	5.05	27.16	32.50	45.99	45.70	74.00	-28.30	peak	
;	2402.000	5.06	27.18	32.50	84.92	84.66	74.00	10.66	peak	



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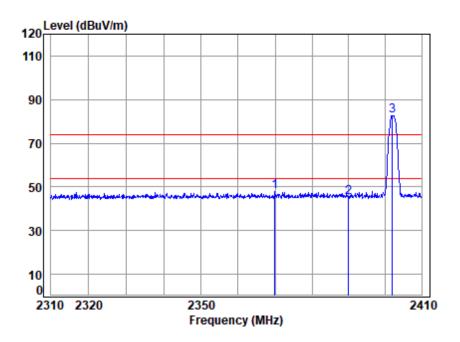


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00441ET

Mode : 2402 Band edge

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2369.892	5.04	27.11	32.50	48.34	47.99	74.00	-26.01	peak
2	2390.000	5.05	27.16	32.50	45.43	45.14	74.00	-28.86	peak
3	2402.000	5.06	27.18	32.50	82.88	82.62	74.00	8.62	peak



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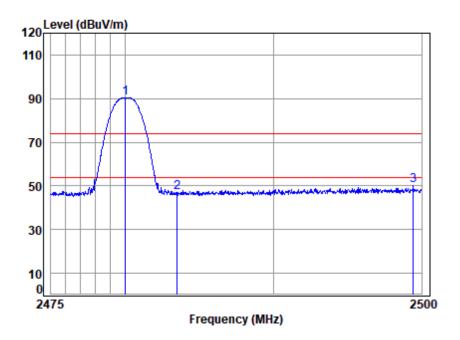


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET

Mode : 2480 Band edge

Note : BT

1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500	5.12	27.36	32.50	46.96	46.94	74.00	-27.06	peak
2499 447	5.13	27.40	32.50	50.20	50.23	74.00	-23.77	neak



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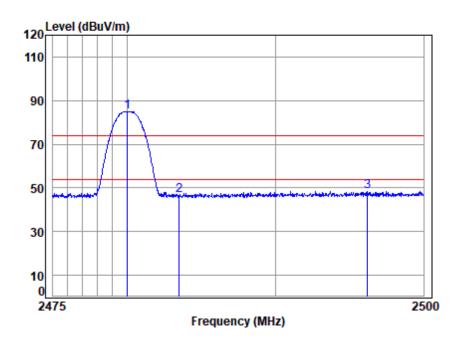


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00441ET

Mode : 2480 Band edge

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	5.12	27.36	32.50	84.92	84.90	74.00	10.90	peak
2	2483.500	5.12	27.36	32.50	46.65	46.63	74.00	-27.37	peak
3	2496.209	5.13	27.39	32.50	48.49	48.51	74.00	-25.49	peak



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### 7.9 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement 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	
88-216	150	3	
216-960	200	3	
960-1000	500	3	

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description			
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.			



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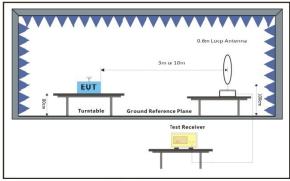


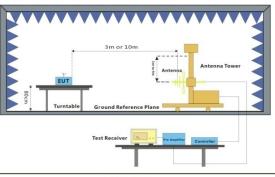
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### 7.9.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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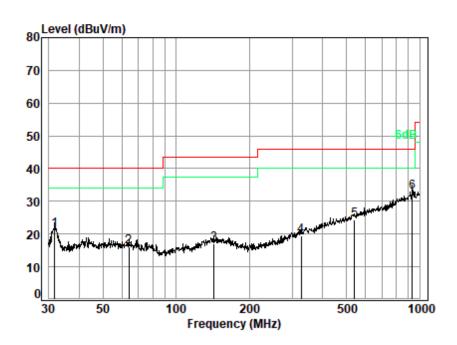


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET

Mode : 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.620	0.20	15.33	25.90	31.80	21.43	40.00	-18.57	QP
2	63.983	0.26	16.62	25.84	25.20	16.24	40.00	-23.76	QP
3	143.326	0.95	17.44	25.57	24.23	17.05	43.50	-26.45	QP
4	326.740	1.29	19.43	25.31	24.13	19.54	46.00	-26.46	QP
5	541.373	1.78	23.72	26.55	25.33	24.28	46.00	-21.72	QP
6	935.546	2.23	29.22	26.32	27.86	32.99	46.00	-13.01	QP



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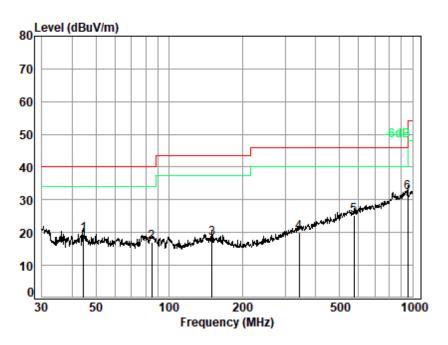


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00441ET

Mode : 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	44.431	0.23	17.29	25.87	27.71	19.36	40.00	-20.64	QP
2	84.999	0.59	13.88	25.81	28.28	16.94	40.00	-23.06	QP
3	150.011	0.91	17.43	25.54	25.50	18.30	43.50	-25.20	QP
4	341.979	1.44	19.80	25.42	24.11	19.93	46.00	-26.07	QP
5	574.626	2.07	23.87	26.69	25.99	25.24	46.00	-20.76	QP
6	955.438	2.26	29.30	26.28	27.07	32.35	46.00	-13.65	OP



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### 7.10 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

### 7.10.1 E.U.T. Operation

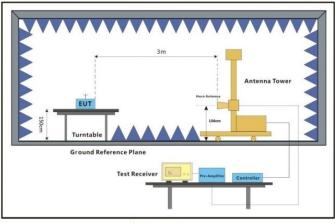
Operating Environment:

Temperature: 22.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.10.3 Test Setup Diagram



Above 1GHz



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#### 7.10.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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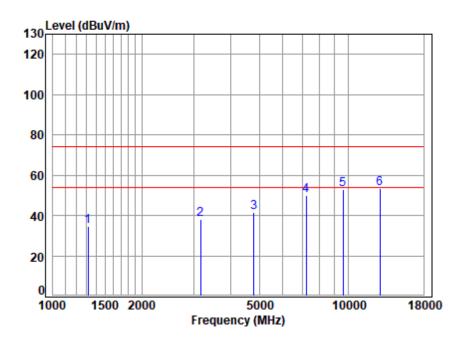


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET Mode : 2402 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						-ID- 3//	-ID- 3//		
	MHz	dB	aB/m	dB	abuv	abuv/m	abuv/m	dB	
1	1315.985	3.41	24.24	52.74	59.51	34.42	74.00	-39.58	peak
2	3168.500	6.17	28.64	53.04	56.34	38.11	74.00	-35.89	Peak
3	4804.000	7.98	30.94	53.05	55.77	41.64	74.00	-32.36	peak
4	7206.000	8.29	36.05	53.52	59.33	50.15	74.00	-23.85	peak
5	9608.000	11.41	37.53	53.58	57.32	52.68	74.00	-21.32	peak
6	12798.240	12.47	39.72	54.16	55.16	53.19	74.00	-20.81	Peak



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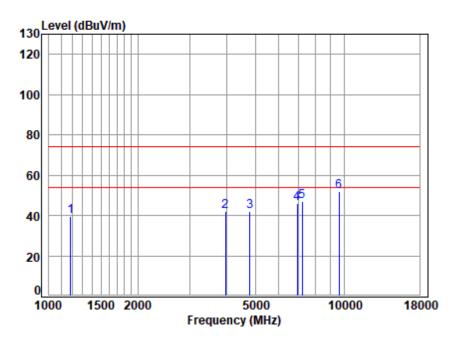


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00441ET Mode : 2402 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.11	24.28	52.65	64.90	39.64	74.00	-34.36	peak
2	3958.309	7.45	29.44	52.81	58.18	42.26	74.00	-31.74	peak
3	4804.000	7.98	30.94	53.05	56.02	41.89	74.00	-32.11	peak
4	6934.778	8.13	35.65	53.46	55.59	45.91	74.00	-28.09	peak
5	7206.000	8.29	36.05	53.52	55.92	46.74	74.00	-27.26	peak
6	9608.000	11.41	37.53	53.58	56.59	51.95	74.00	-22.05	peak



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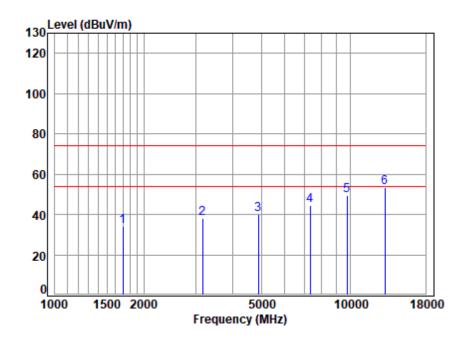


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET Mode : 2441 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.20	25.01	52.96	57.84	34.09	74.00	-39.91	peak
2	3168.500	6.17	28.64	53.04	56.50	38.27	74.00	-35.73	Peak
3	4882.000	8.11	31.13	53.07	54.02	40.19	74.00	-33.81	peak
4	7323.000	8.35	36.19	53.53	53.59	44.60	74.00	-29.40	peak
5	9764.000	11.29	37.88	53.43	53.46	49.20	74.00	-24.80	peak
6	13097,620	12.41	39.88	54.16	55.33	53.46	74.00	-20.54	Peak



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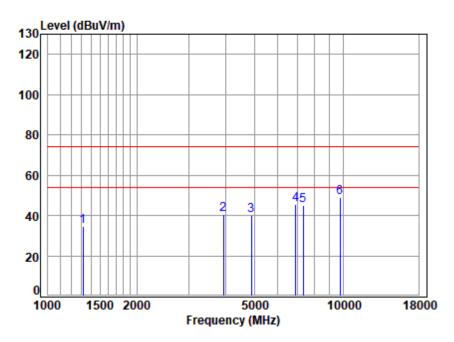


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00441ET Mode : 2441 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
_	4345 005	2.44		F0 74	F0 60	24.52	74.00	20.47	
1	1315.985	3.41	24.24	52./4	59.62	34.53	/4.00	-39.4/	peak
2	3935.493	7.43	29.40	52.82	56.69	40.70	74.00	-33.30	peak
3	4882.000	8.11	31.13	53.07	54.10	40.27	74.00	-33.73	peak
4	6894.806	8.09	35.55	53.43	55.11	45.32	74.00	-28.68	peak
5	7323.000	8.35	36.19	53.53	54.20	45.21	74.00	-28.79	peak
6	9764 000	11 29	37 88	53 43	53 30	49 94	74 99	-24 96	neak



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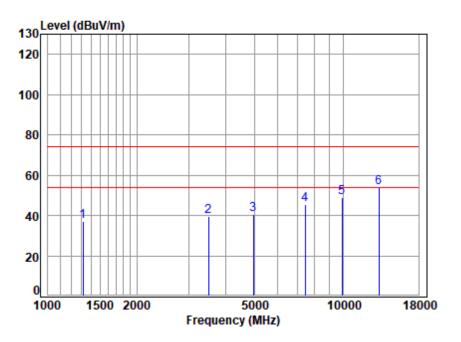


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00441ET Mode : 2480 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	dB	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1	1315.985	3.41	24.24	52.74	62.28	37.19	74.00	-36.81	peak
2	3505.809	7.00	28.71	52.94	56.83	39.60	74.00	-34.40	peak
3	4960.000	8.24	31.31	53.09	54.21	40.67	74.00	-33.33	peak
4	7440.000	8.40	36.33	53.55	54.14	45.32	74.00	-28.68	peak
5	9920.000	11.18	38.22	53.28	52.80	48.92	74.00	-25.08	peak
6	13211.690	12.32	40.09	54.11	55.60	53.90	74.00	-20.10	Peak



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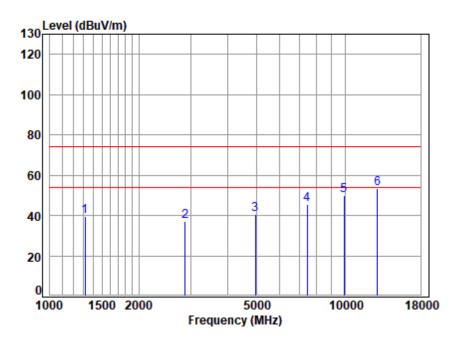


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00441ET Mode : 2480 TX RSE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	3.41	24.24	52.74	64.66	39.57	74.00	-34.43	peak
2	2871.934	5.58	28.31	53.10	56.07	36.86	74.00	-37.14	Peak
3	4960.000	8.24	31.31	53.09	54.24	40.70	74.00	-33.30	peak
4	7440.000	8.40	36.33	53.55	54.26	45.44	74.00	-28.56	peak
5	9920.000	11.18	38.22	53.28	54.03	50.15	74.00	-23.85	peak
6	12872 440	12 48	39 71	54 18	55 18	53 19	74 99	-20 81	Peak



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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000441ET

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2211000441ET



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# 10 Appendix

1. Bandwidth

1.1 OBW

#### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)  Result	Verdict
	7.	2402	DH5	1	0.901	Pass
GFSK	SISO	2441	DH5	1	0.926	Pass
		2480	DH5	1	0.938	Pass
		2402	2DH5	1	1.191	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.203	Pass
		2480	2DH5	1	1.208	Pass
		2402	3DH5	1	1.180	Pass
8DPSK	SISO	2441	3DH5	1	1.189	Pass
		2480	3DH5	1	1.199	Pass



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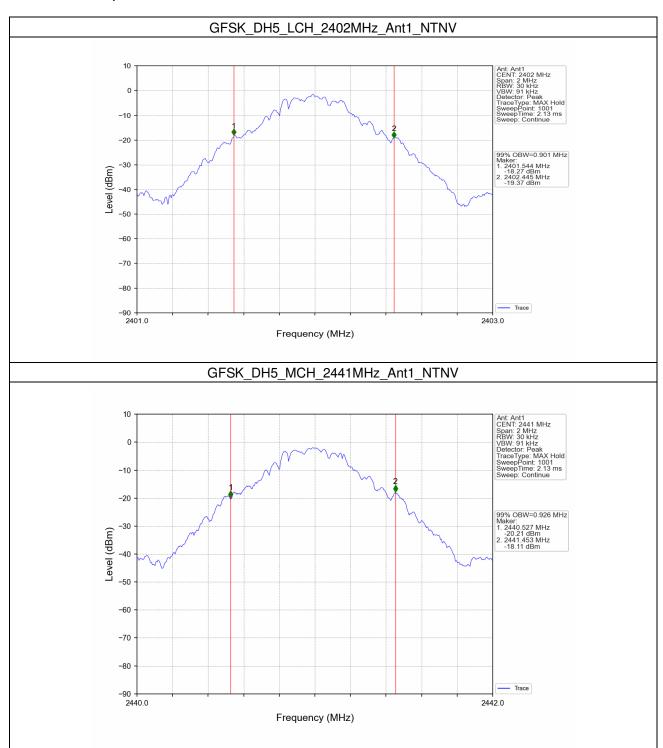


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#### 1.1.2 Test Graph





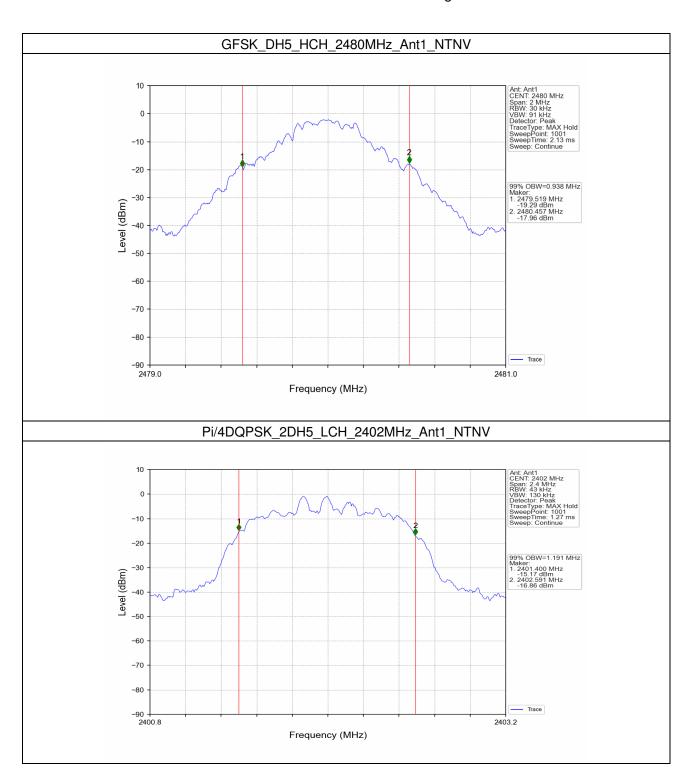
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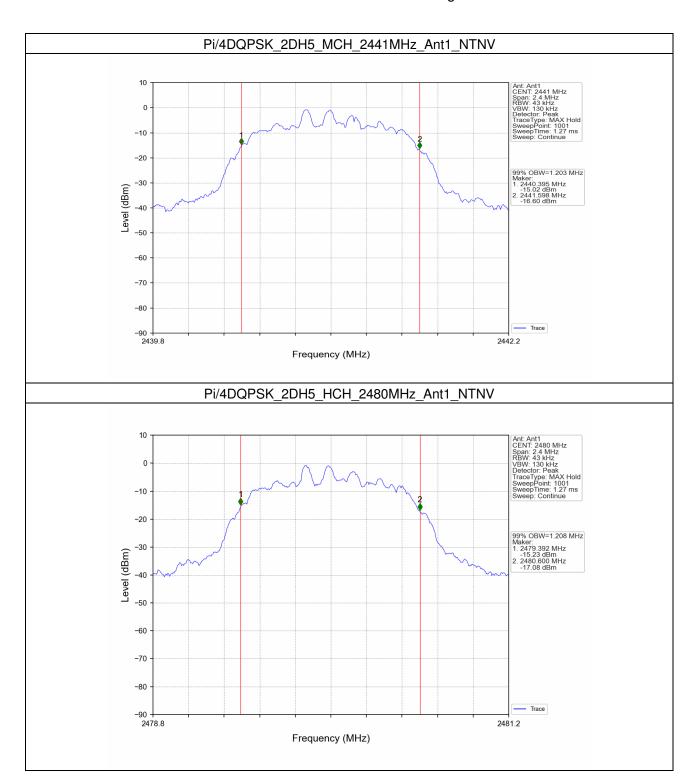
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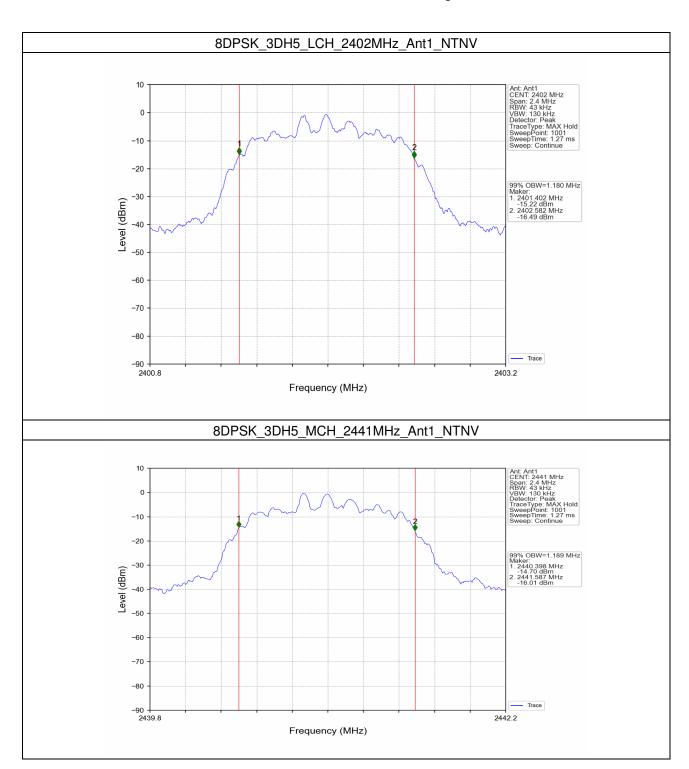
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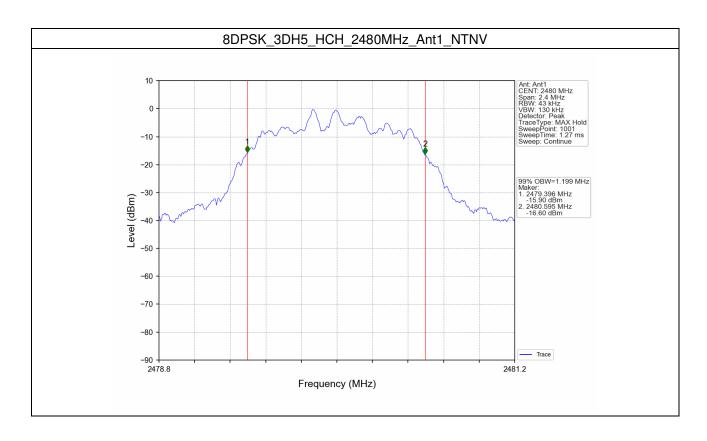
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#### 1.2 20dB BW

#### 1.2.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	Type	AINI	Result	verdict
		2402	DH5	1	1.022	Pass
GFSK	SISO	2441	DH5	1	1.040	Pass
		2480	DH5	1	1.059	Pass
		2402	2DH5	1	1.334	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.340	Pass
		2480	2DH5	1	1.344	Pass
		2402	3DH5	1	1.328	Pass
8DPSK	SISO	2441	3DH5	1	1.328	Pass
		2480	3DH5	1	1.321	Pass



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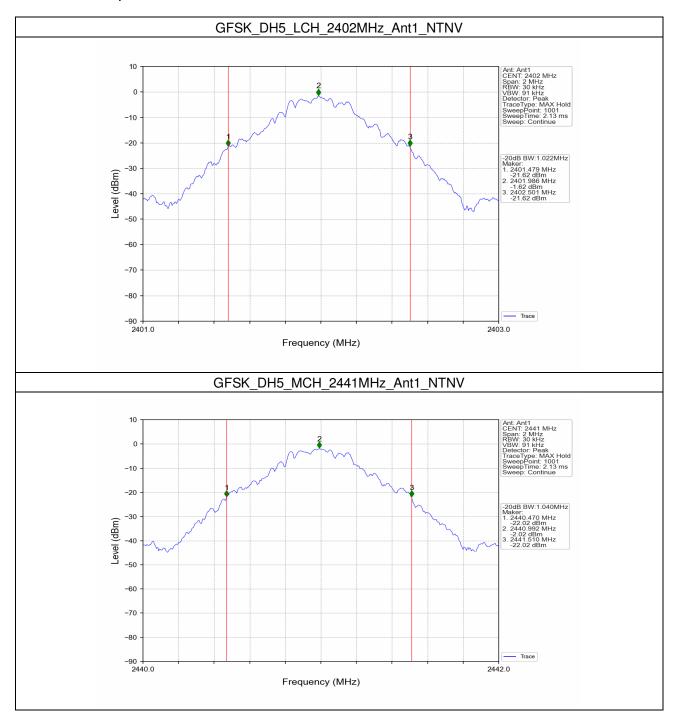


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#### 1.2.2 Test Graph





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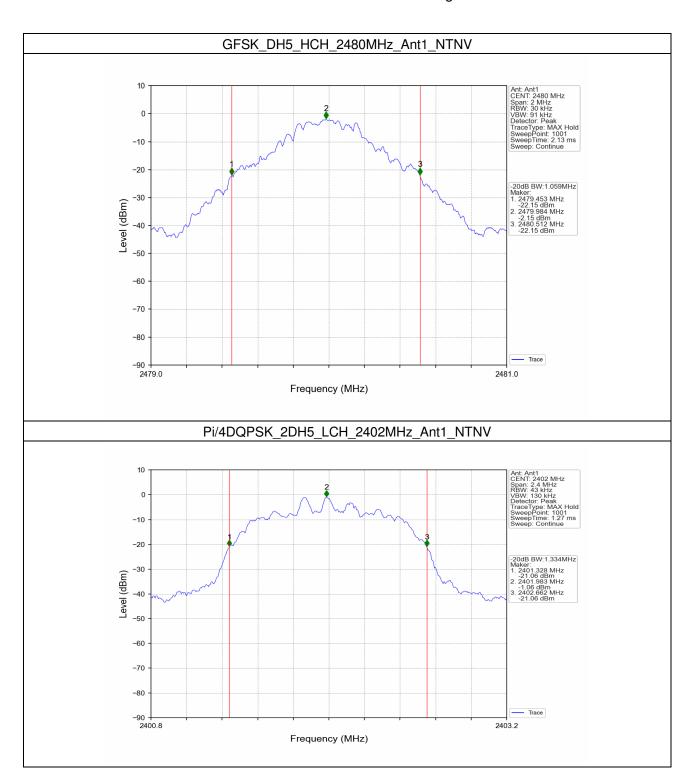
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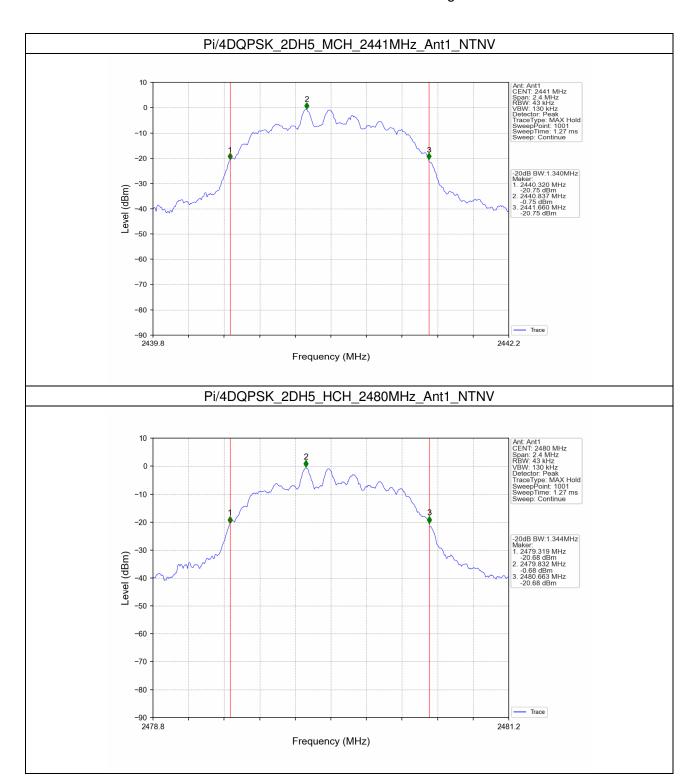
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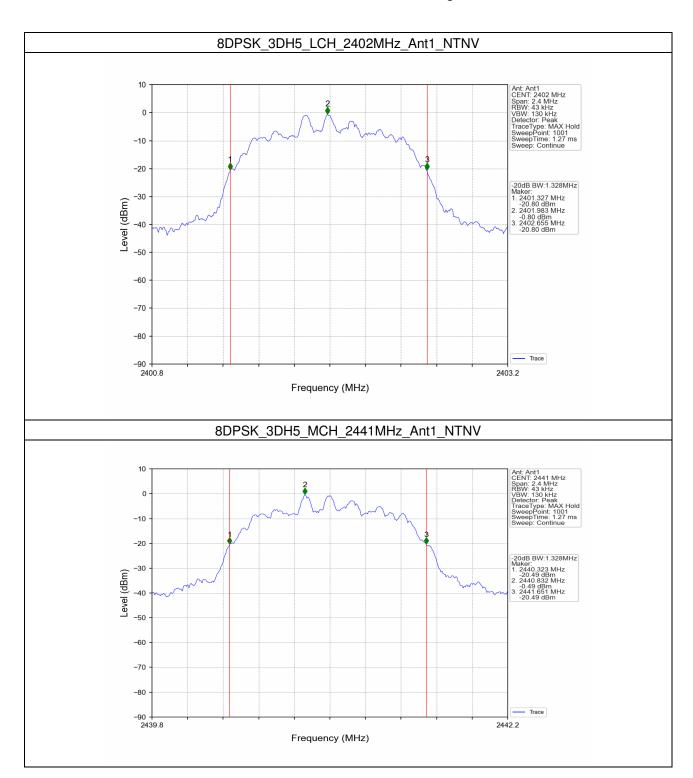
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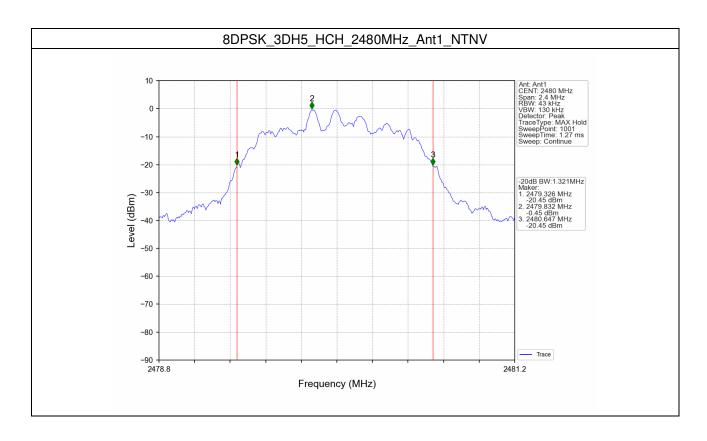
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#### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

Mada	TX	Frequency	Packet	Maximum Peak Conduc	ted Output Power (dBm)	Vordict					
Mode	Type	(MHz)	Type	ANT1	Limit	Verdict					
		2402	DH5	0.28	<=20.97	Pass					
GFSK	SISO	2441	DH5	0.49	<=20.97	Pass					
		2480	DH5	0.51	<=20.97	Pass					
		2402	2DH5	0.31	<=20.97	Pass					
Pi/4DQPSK	SISO	2441	2DH5	0.71	<=20.97	Pass					
		2480	2DH5	0.75	<=20.97	Pass					
		2402	3DH5	0.39	<=20.97	Pass					
8DPSK	SISO	2441	3DH5	0.70	<=20.97	Pass					
		2480	3DH5	0.81	<=20.97	Pass					
Note1: Anter	Note1: Antenna Gain: Ant1: 3.3dBi;										





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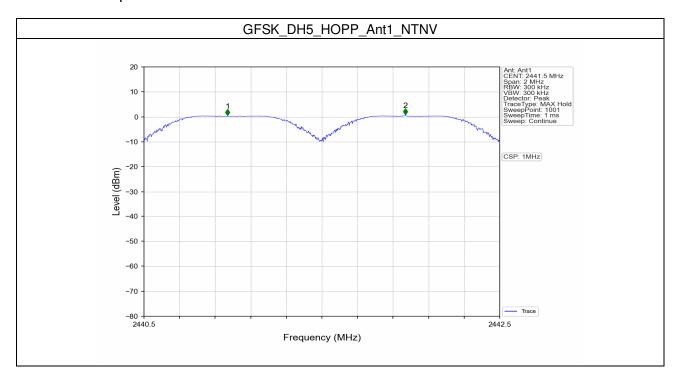
#### 3. Carrier Frequency Separation

#### 3.1 Ant1

#### 3.1.1 Test Result

	Ant1											
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict					
GFSK	SISO	HOPP	DH5	1.000	1.059	>=0.706	Pass					
Pi/4DQPSK	SISO	HOPP	2DH5	1.008	1.344	>=0.896	Pass					
8DPSK	SISO	HOPP	3DH5	1.001	1.328	>=0.885	Pass					

#### 3.1.2 Test Graph





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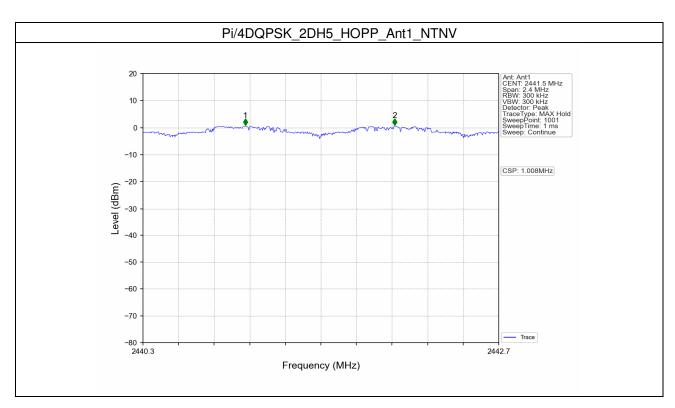
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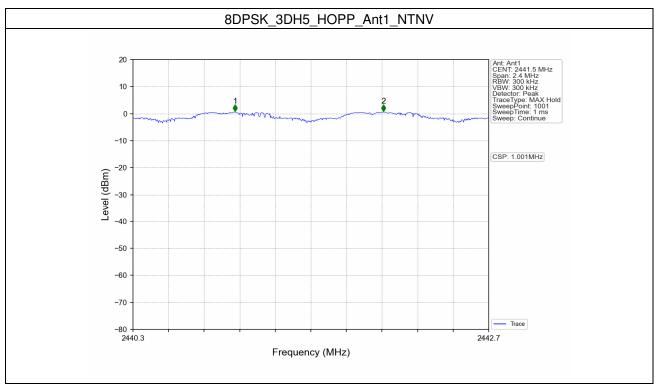


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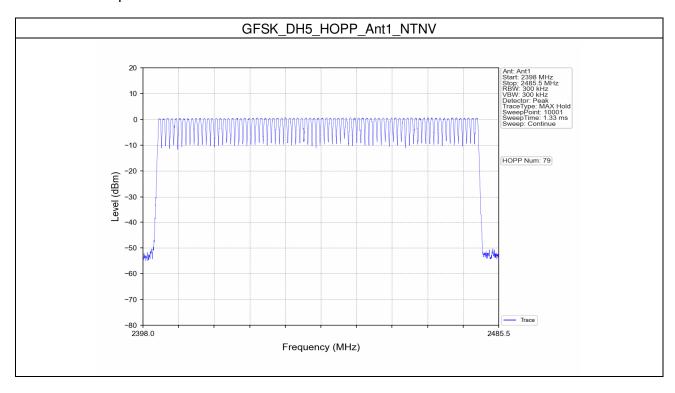
#### 4. Number of Hopping Frequencies

#### 4.1 HoppNum

#### 4.1.1 Test Result

Mada	TX	Frequency	Packet	Num of Hoppir	ng Frequencies	\/ordiot
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

#### 4.1.2 Test Graph





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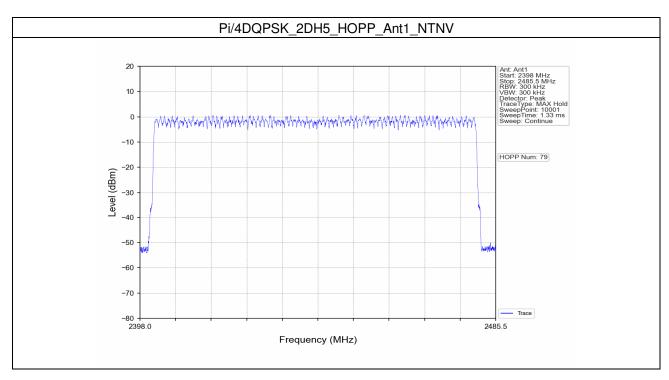
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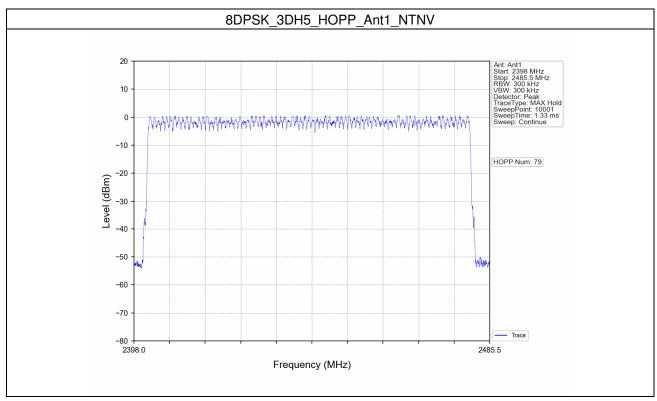


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## 5. Time of Occupancy (Dwell Time)

5.1 Ant1

#### 5.1.1 Test Result

				,	Ant1				
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
			DH1	0.384	31.600	320	122.880	<=400	Pass
GFSK	SISO	HOPP	DH3	1.648	31.600	148	243.904	<=400	Pass
			DH5	2.896	31.600	116	335.936	<=400	Pass
	SISO	SO HOPP	2DH1	0.394	31.600	320	126.080	<=400	Pass
Pi/4DQPSK			2DH3	1.654	31.600	156	258.024	<=400	Pass
			2DH5	2.902	31.600	86	249.572	<=400	Pass
			3DH1	0.394	31.600	320	126.080	<=400	Pass
8DPSK	SISO	HOPP	3DH3	1.652	31.600	160	264.320	<=400	Pass
			3DH5	2.904	31.600	126	365.904	<=400	Pass



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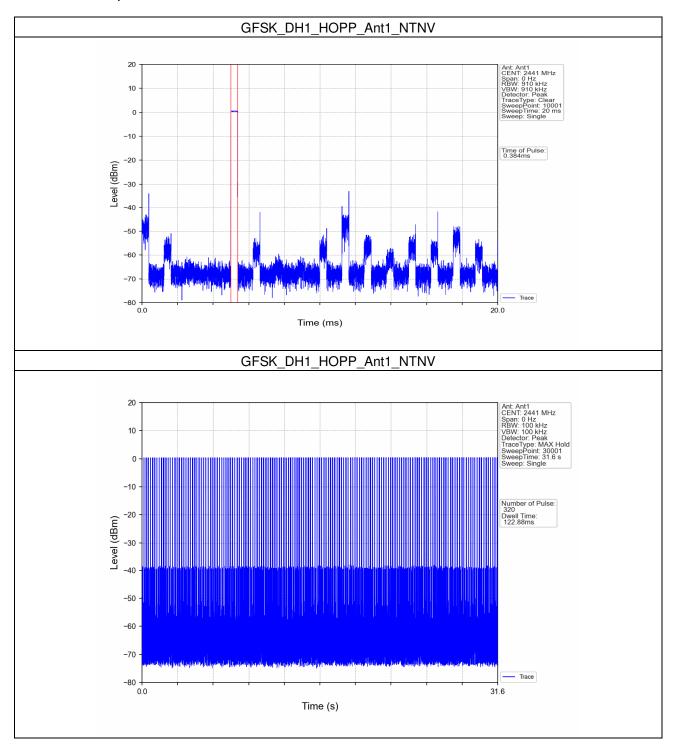


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#### 5.1.2 Test Graph





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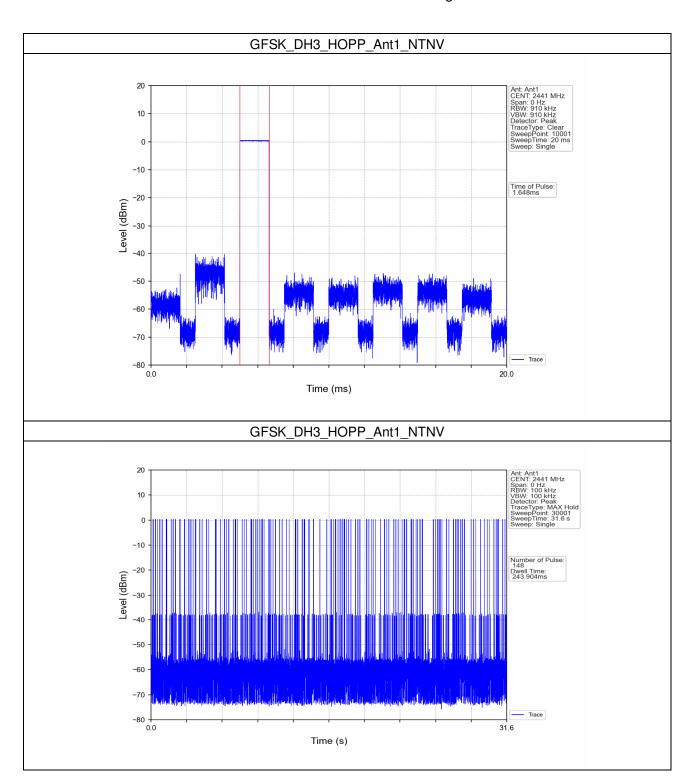
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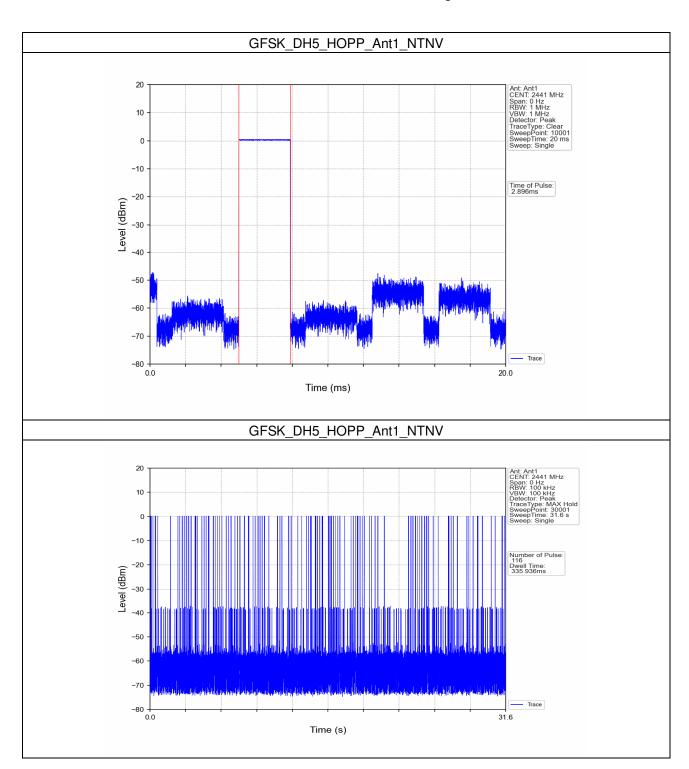
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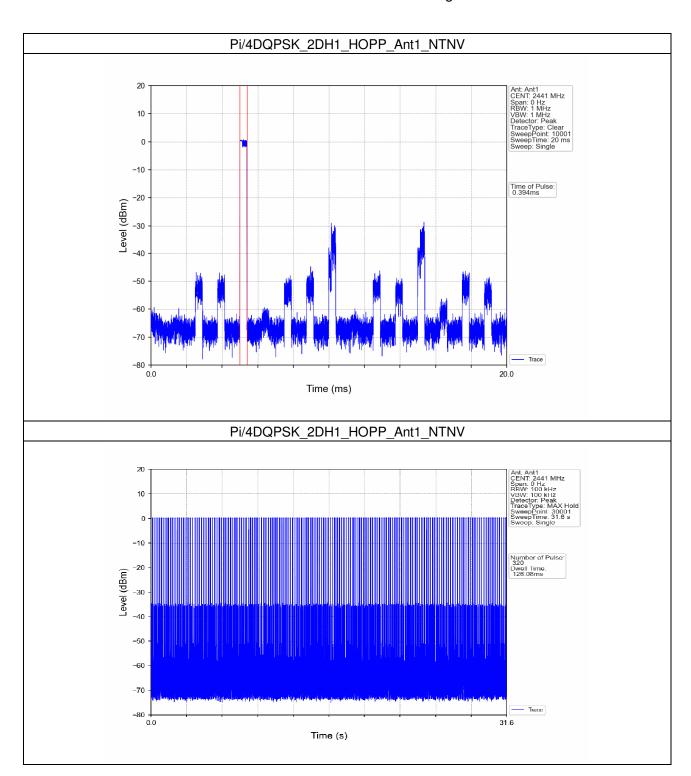
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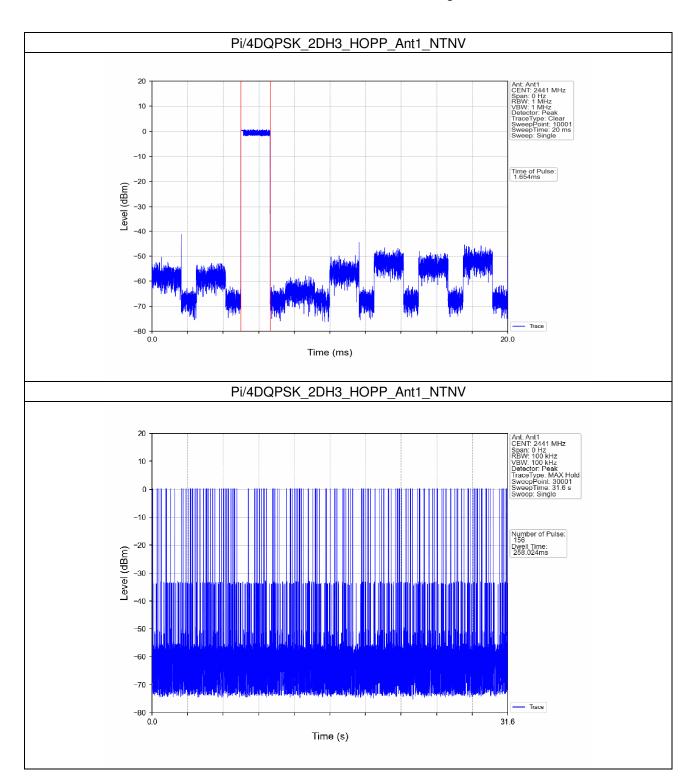
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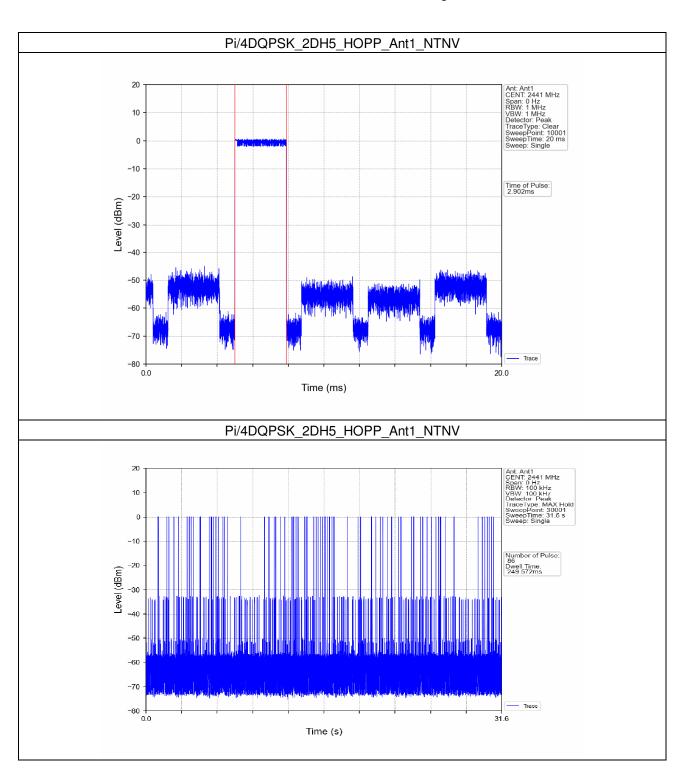
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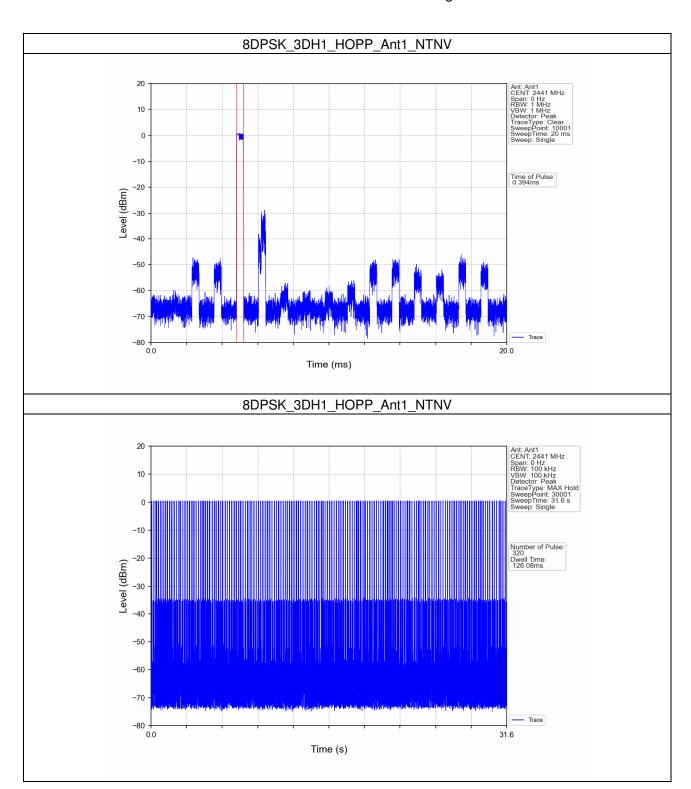
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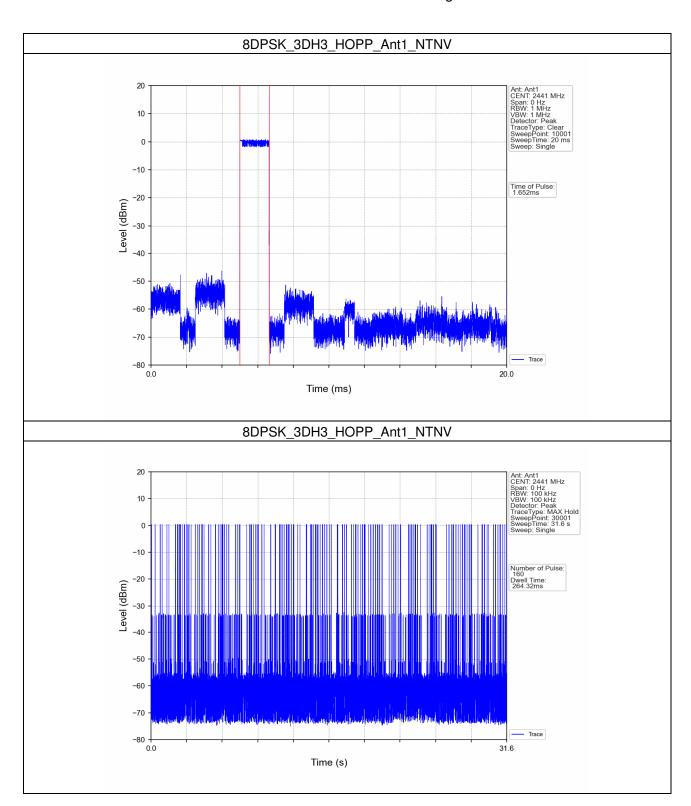
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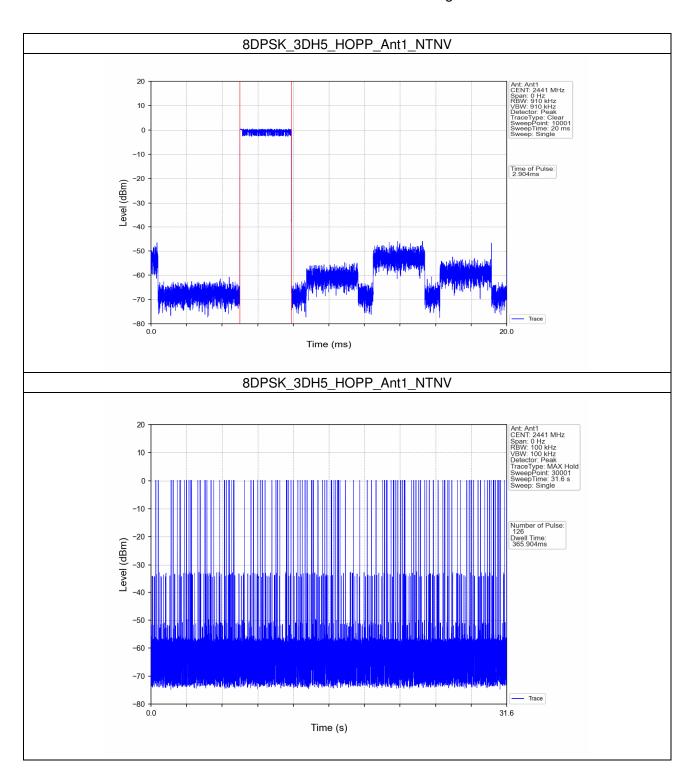
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#### 6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.09
		2441	DH5	1	0.30
		2480	DH5	1	0.31
Pi/4DQPSK	SISO	2402	2DH5	1	0.04
		2441	2DH5	1	0.34
		2480	2DH5	1	0.34
8DPSK	SISO	2402	3DH5	1	0.33
		2441	3DH5	1	0.64
		2480	3DH5	1	0.70

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.



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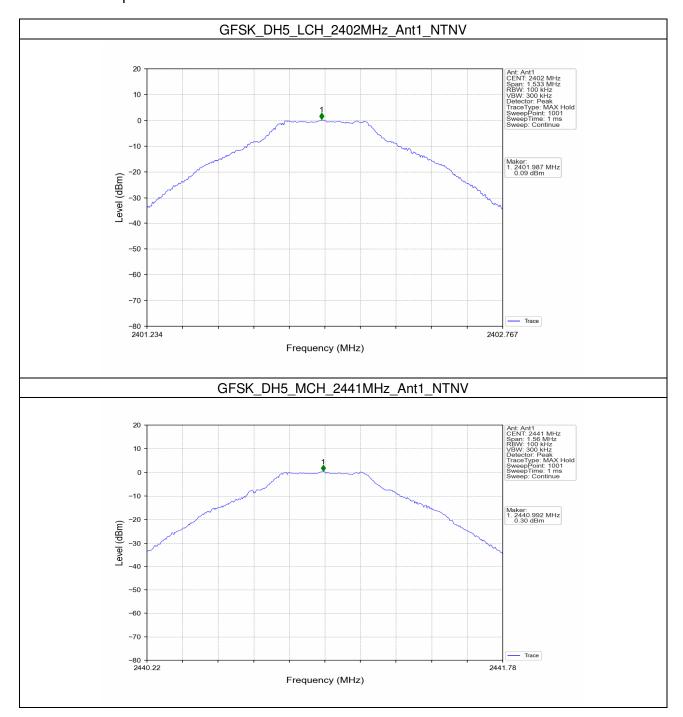


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#### 6.1.2 Test Graph





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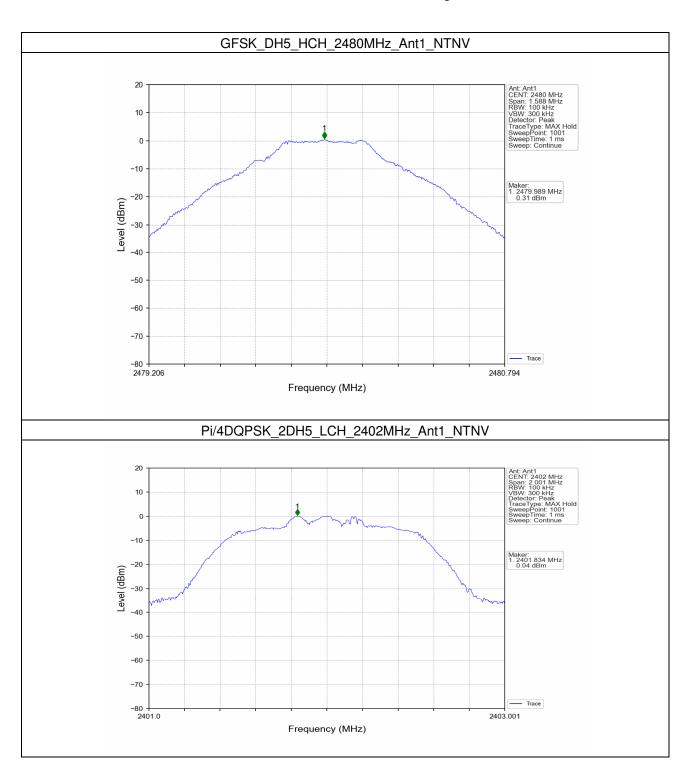
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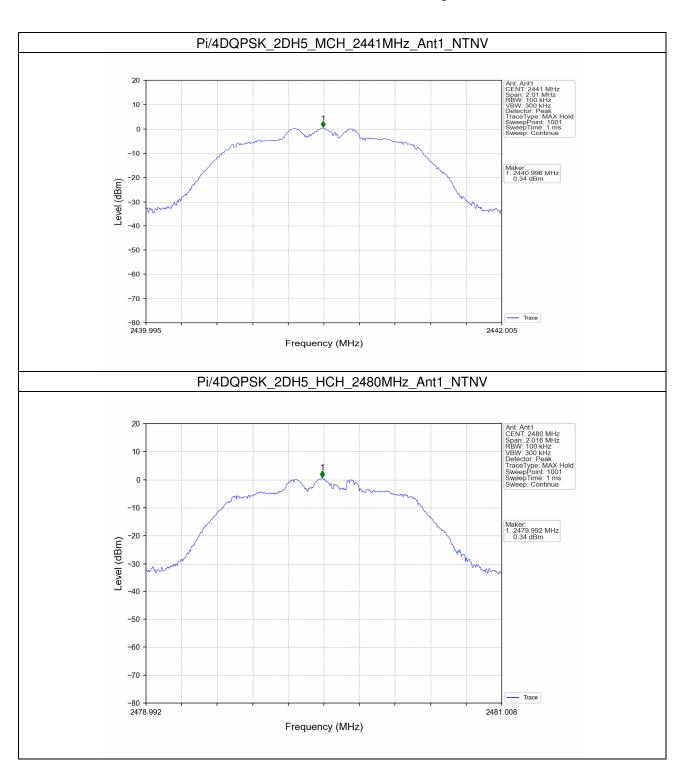
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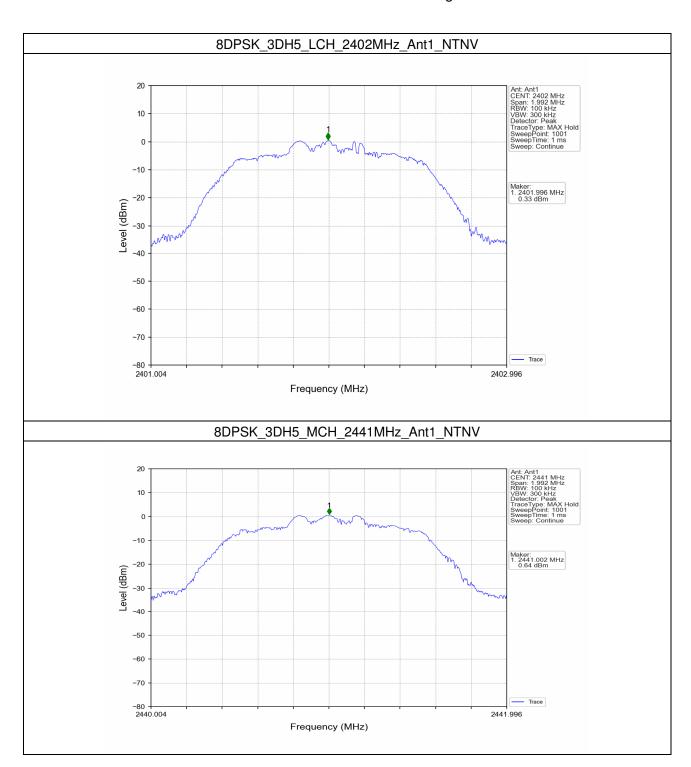
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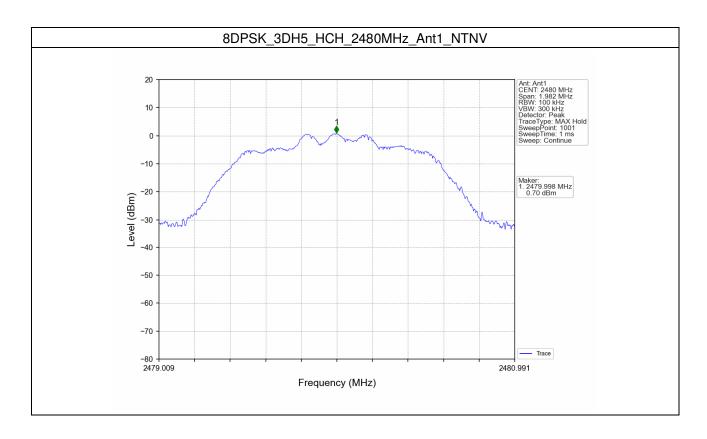
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#### 6.2 CSE

#### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.31	-19.69	Pass
		2441	DH5	1	0.31	-19.69	Pass
		2480	DH5	1	0.31	-19.69	Pass
		HOPP	DH5	1	0.31	-19.69	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.34	-19.66	Pass
		2441	2DH5	1	0.34	-19.66	Pass
		2480	2DH5	1	0.34	-19.66	Pass
		HOPP	2DH5	1	0.34	-19.66	Pass
8DPSK	SISO	2402	3DH5	1	0.70	-19.30	Pass
		2441	3DH5	1	0.70	-19.30	Pass
		2480	3DH5	1	0.70	-19.30	Pass
		HOPP	3DH5	1	0.70	-19.30	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.



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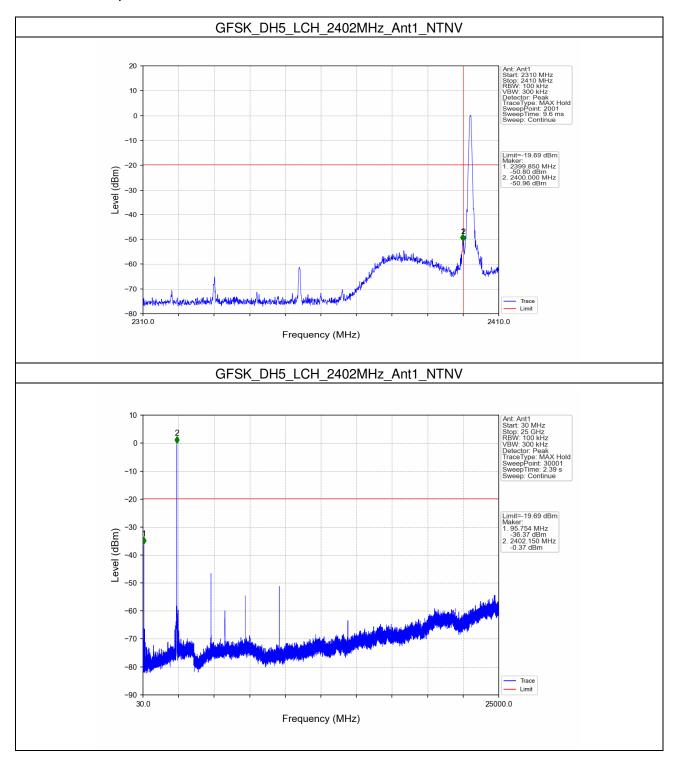


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#### 6.2.2 Test Graph





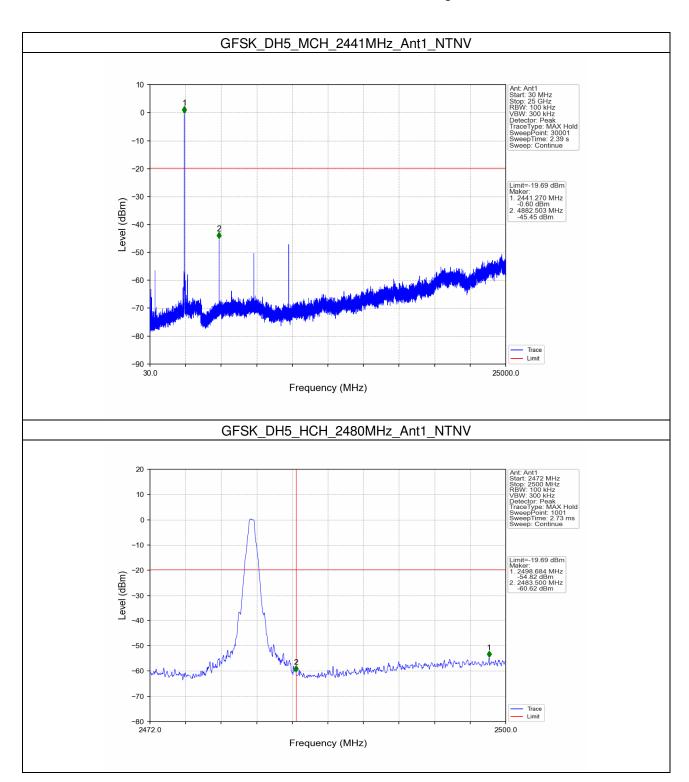
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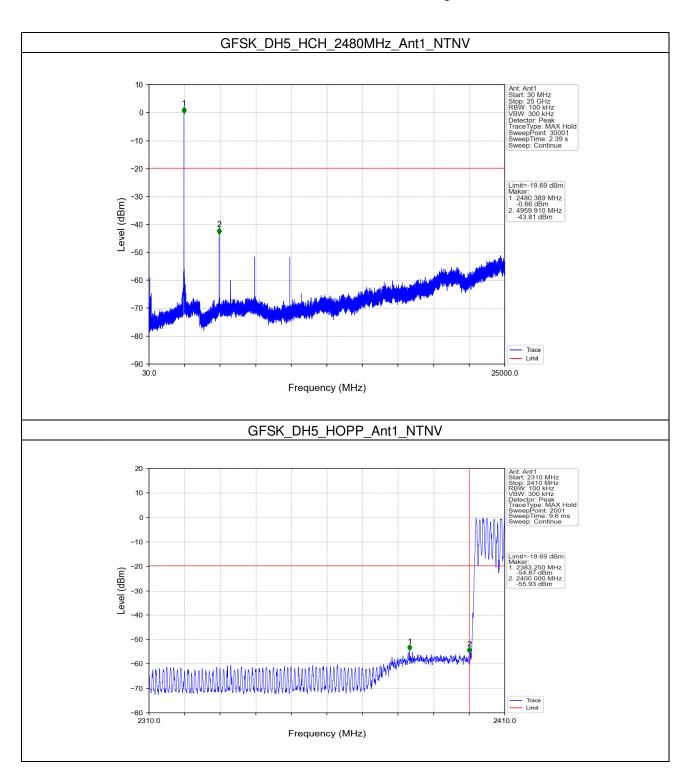
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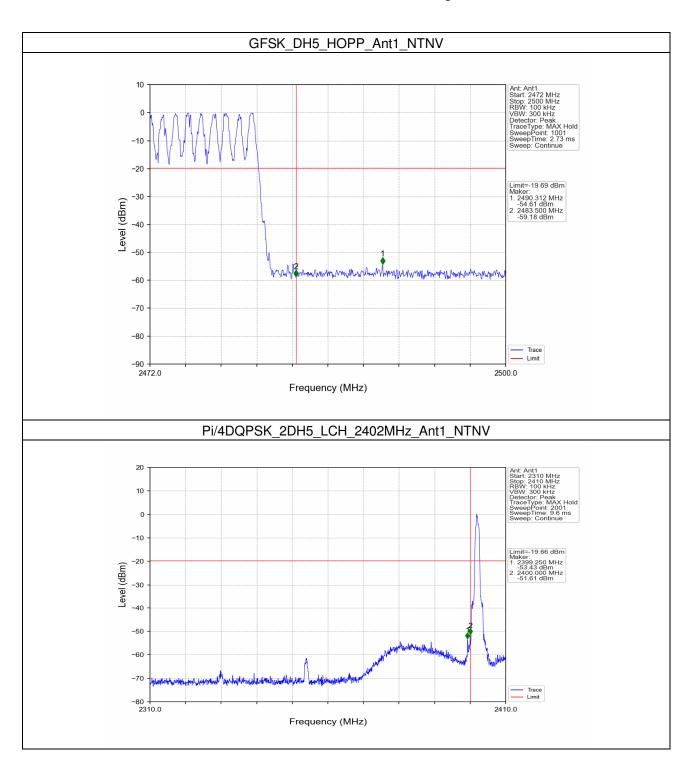
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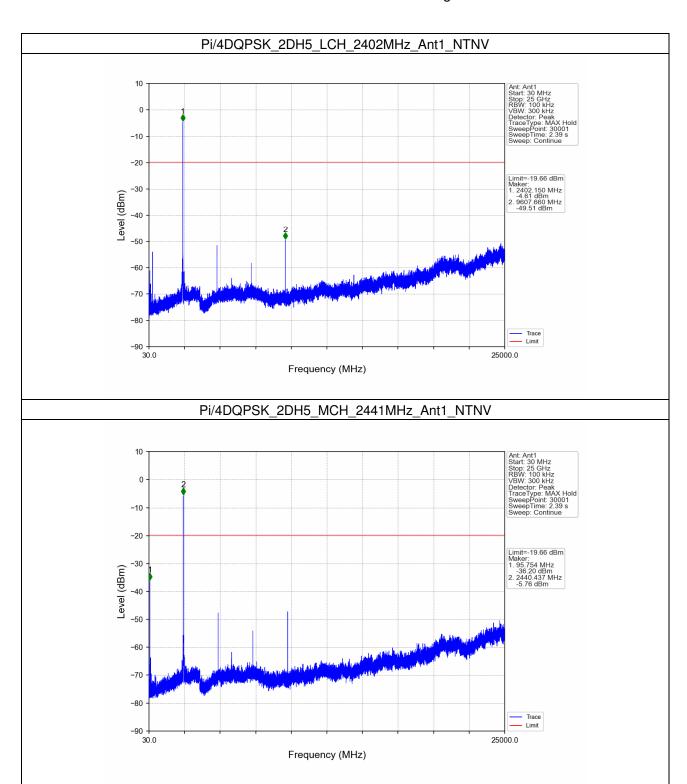
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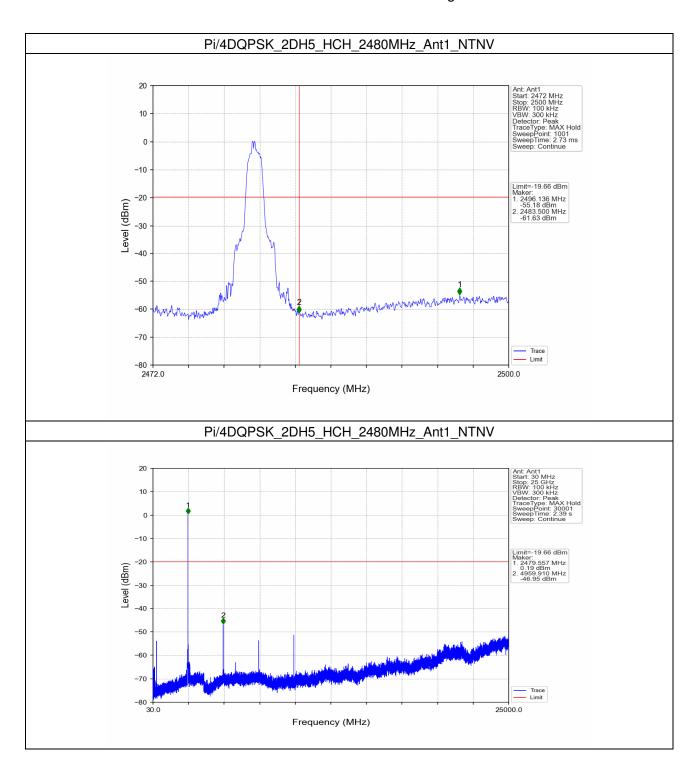
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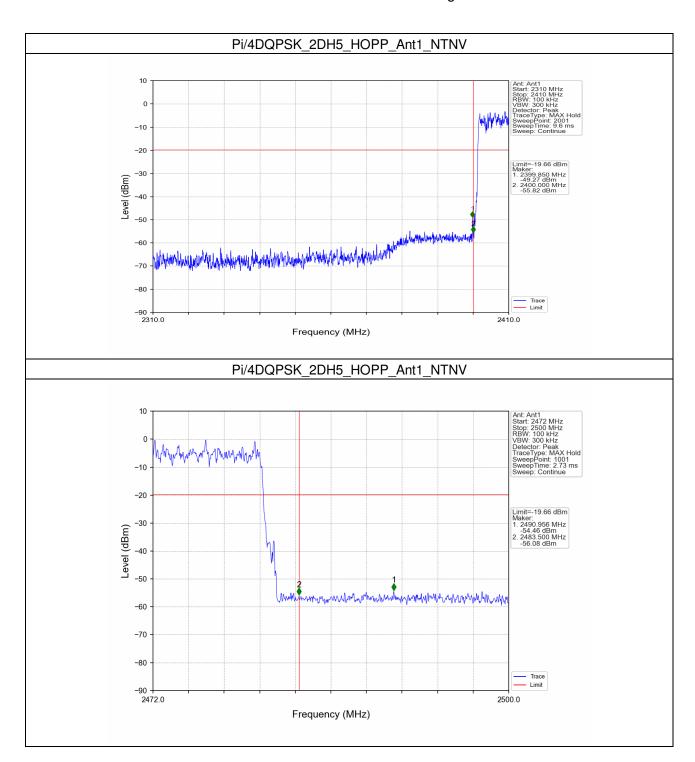
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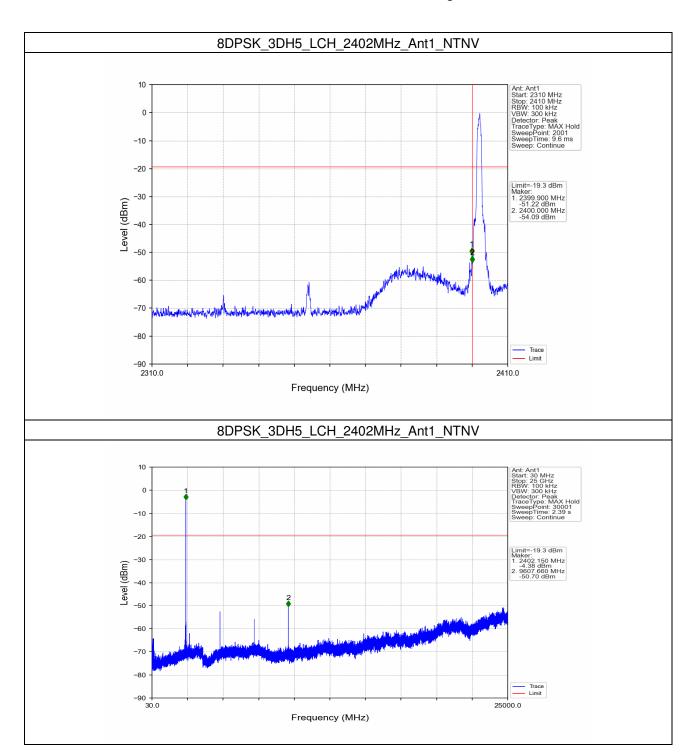
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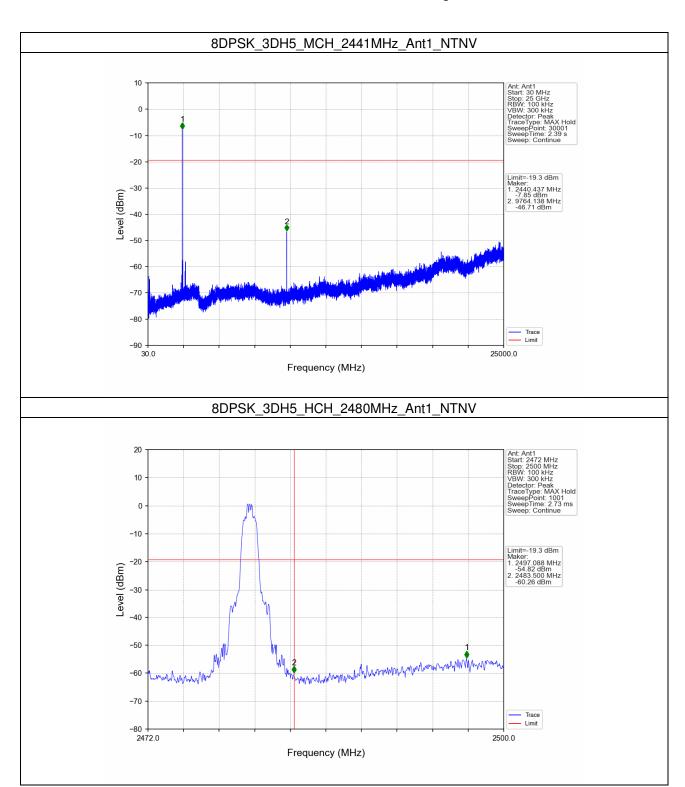
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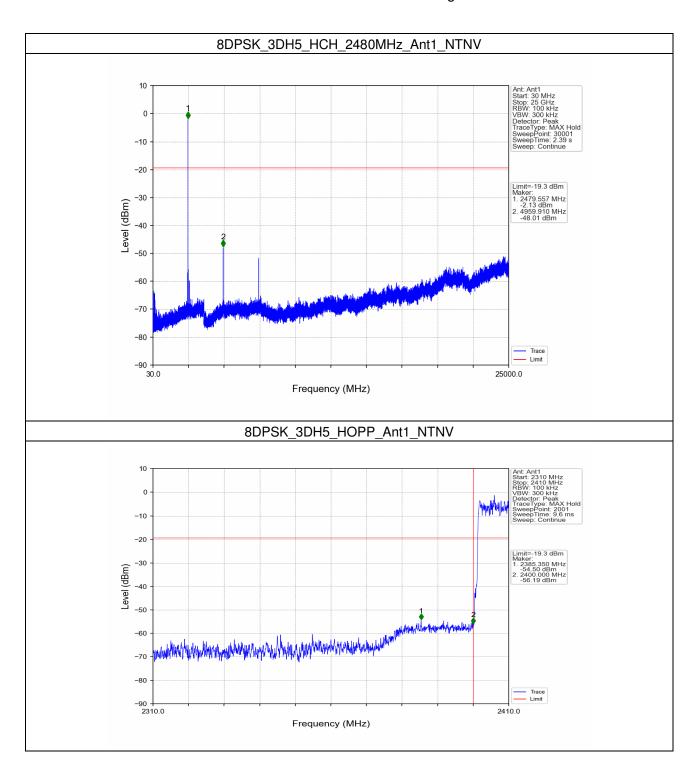
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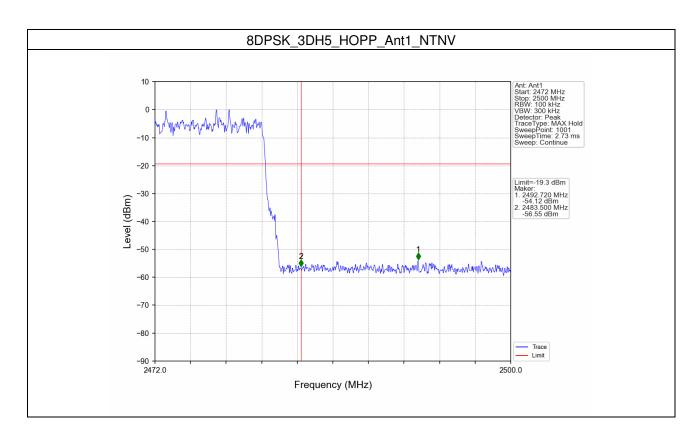
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