

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

Report No.: FYCR221100045802

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TEST REPORT

Application No.: FYCR2211000458AT

Applicant: Cosonic Intelligent Technologies Co.,Ltd.

Address of Applicant: 5th Floor,1st Building,No.6 South Industry Road Songshan Lake Hi-tech

Industrial Development Zone Dongguan 523808 China

Manufacturer: Cosonic Intelligent Technologies Co.,Ltd.

Address of Manufacturer: 5th Floor,1st Building,No.6 South Industry Road Songshan Lake Hi-tech

Industrial Development Zone Dongguan 523808 China

Factory: Cosonic Intelligent Technologies Co.,Ltd.

Address of Factory: 5th Floor,1st Building,No.6 South Industry Road Songshan Lake Hi-tech

Industrial Development Zone Dongguan 523808 China

Equipment Under Test (EUT):

EUT Name: ONN. BONE CONDUCTION HP

Model No.: 100094794

Trade Mark: onn.

FCC ID: 2ALVK-ONN94794

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

Date of Receipt: 2022-11-15

Date of Test: 2022-11-17 to 2022-11-19

Date of Issue: 2022-11-23

Test Result: Pass*

Winkey Wang

Winkey Wang

EMC Technical Manager



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



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

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	-
	WinkeyWang	
	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	



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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery:DC 3.85V 150mAh 0.578Wh(Charging by USB port)
Cable(s):	USB cable:36cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Chip Antenna
Antenna Gain:	2.71dBi

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)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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 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



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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	MXE EMI receiver Agilent		SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	Pre-amplifier HP		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	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23	
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	

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 2.71dBi.

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 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.

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: ≤20.97dBm

7.1.1 E.U.T. Operation

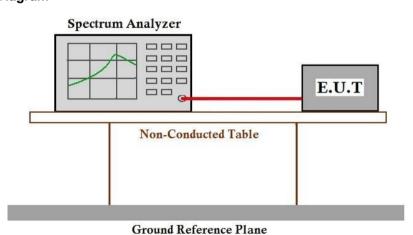
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % 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.				

7.1.3 Test Setup Diagram



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

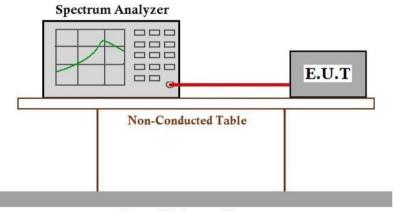
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	Till Tool Meda 2000 plant				
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

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

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

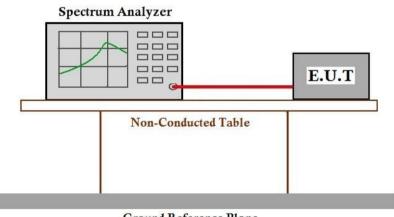
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % 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)				
202 202	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

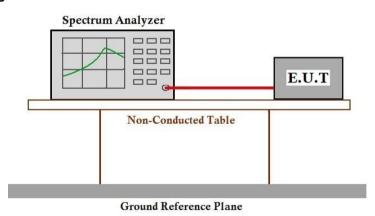
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % 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.

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
002.020	0.4S within a 20S period(20dB bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400 2402 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

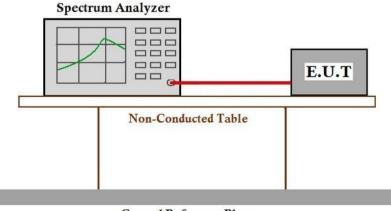
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % 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.

7.5.3 Test Setup Diagram



Ground Reference Plane



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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: 23.4 °C Humidity: 43.8 % 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	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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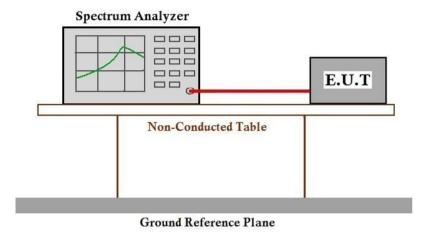


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7.6.3 Test Setup Diagram



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

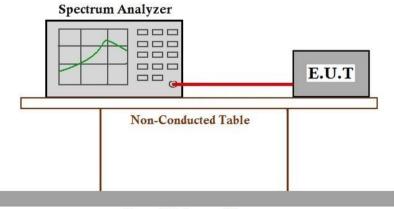
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	<u>-</u> 1001000 2001. p 0						
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.					

7.7.3 Test Setup Diagram



Ground Reference Plane



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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: 23.4 °C Humidity: 43.8 % 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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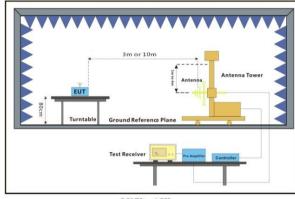


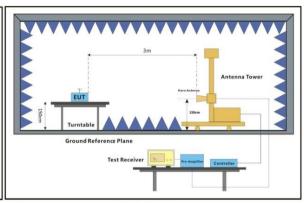
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7.8.3 Test Setup Diagram





30MHz-1GHz

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 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 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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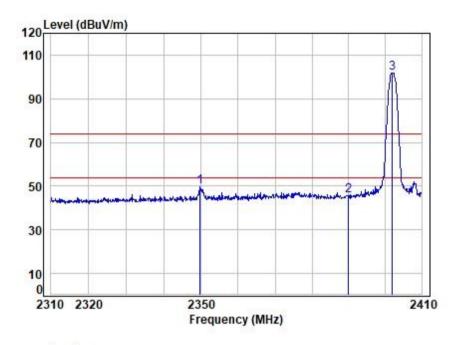


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

Mode : 2402 Band edge

Note : BT

	Freq			2.77	Read Level			Over Limit	Remark
2		MHz dB	dB/m dB	dBuV	dBuV/m	dBuV/m	dB	2	
1	2349.791	5.02	27.07	32.50	50.11	49.70	74.00	-24.30	peak
2						45.55			
3 .	2402.000	5.06	27.18	32.50	102.10	101.84	74.00	27.84	peak



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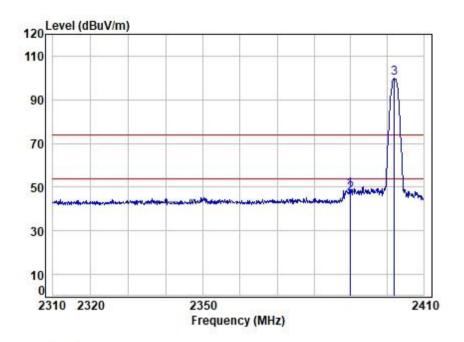


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



: chamber Site

Condition: 3m VERTICAL

Job No : 00458AT

Mode : 2402 Band edge

: BT Note

	Freq			Preamp Factor			Limit Line		
8	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	2389.761	5.05	27.16	32.50	49.32	49.03	74.00	-24.97	peak
2	2390.000	5.05	27.16	32.50	47.32	47.03	74.00	-26.97	peak
3	2402 000	5.06	27.18	32.50	99.98	99.72	74 99	25.72	neak



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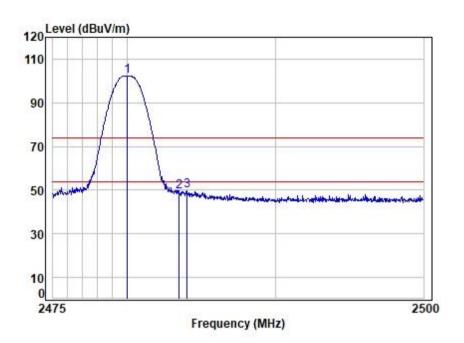


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

Mode : 2480 Band edge

Note : BT

		Freq				Read Level			Over Limit	Remark
	2		dB	dB dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	2
1		2480.000	5.12	27.36	32.50	102.45	102.43	74.00	28.43	peak
2		2483.500	5.12	27.36	32.50	49.46	49.44	74.00	-24.56	peak
3		2484.021	5.12	27.37	32.50	49.79	49.78	74.00	-24.22	peak



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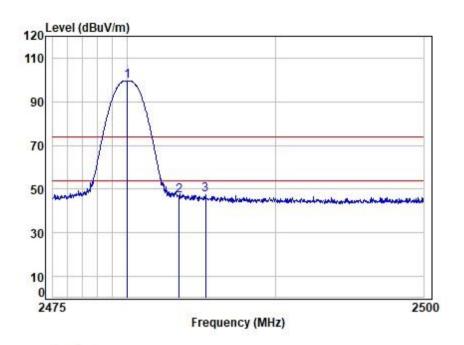


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00458AT

Mode : 2480 Band edge

Note : BT

		Freq		Factor	Factor	Level	Level			Remark
	3		MHz dB							
1		2480.000	5.12	27.36	32.50	99.67	99.65	74.00	25.65	peak
2		2483.500	5.12	27.36	32.50	47.03	47.01	74.00	-26.99	peak
3		2485.270	5.12	27.37	32.50	47.41	47.40	74.00	-26.60	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: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

	iona root mode poolingiion						
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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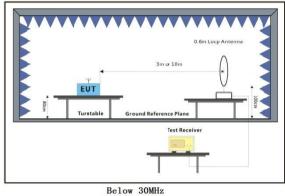


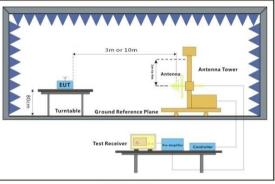
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7.9.3 Test Setup Diagram





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 meter semi-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 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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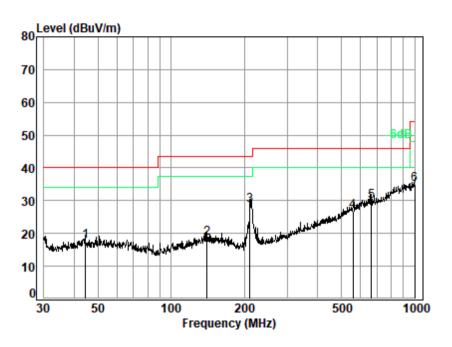


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

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	26.01	25.99	17.50	40.00	-22.50	QP
2	140.342	0.97	17.44	25.54	25.59	18.46	43.50	-25.04	QP
3	210.786	0.73	15.55	25.46	37.73	28.55	43.50	-14.95	QP
4	558.730	1.93	23.92	25.19	26.21	26.87	46.00	-19.13	QP
5	665.804	1.98	25.42	24.71	27.18	29.87	46.00	-16.13	QP
6	1000.000	2.89	29.28	24.00	26.89	35.06	54.00	-18.94	OP



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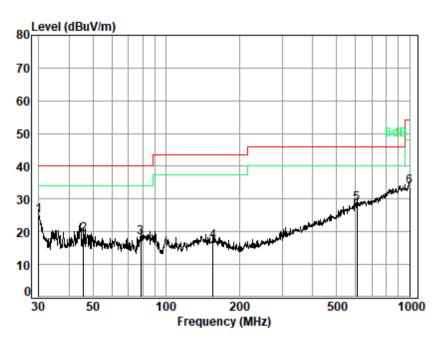


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00458AT

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	30.000	0.20	16.39	26.03	34.35	24.91	40.00	-15.09	QP
2	45.695	0.23	17.27	26.01	27.60	19.09	40.00	-20.91	QP
3	78.689	0.45	14.49	25.81	29.20	18.33	40.00	-21.67	QP
4	155.910	0.87	17.30	25.52	24.48	17.13	43.50	-26.37	QP
5	607.787	2.24	24.48	24.96	26.79	28.55	46.00	-17.45	QP
6	1000.000	2.89	29.28	24.00	25.65	33.82	54.00	-20.18	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

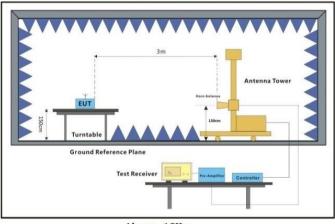
Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % 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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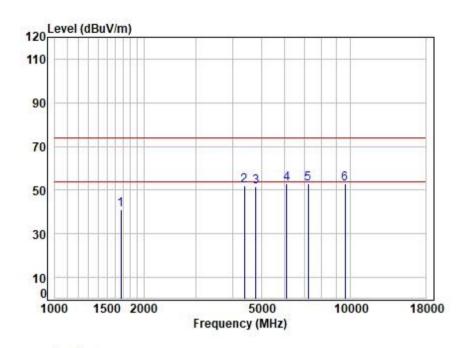


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

Mode : 2402 TX RSE

: BT

	Freq				Preamp Factor		Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1672.779	4.14	24.95	52.95	64.97	41.11	74.00	-32.89	peak	
2	4392.376	7.47	30.06	52.93	67.55	52.15	74.00	-21.85	peak	
3	4804.000	7.98	30.94	53.05	65.68	51.55	74.00	-22.45	peak	
4	6106.616	7.65	32.88	52.88	65.12	52.77	74.00	-21.23	peak	
5	7206.000	8.29	36.05	53.52	62.23	53.05	74.00	-20.95	peak	
6	9608 000	11 41	37 53	53 58	57 70	53 06	74 99	-20 94	neak	



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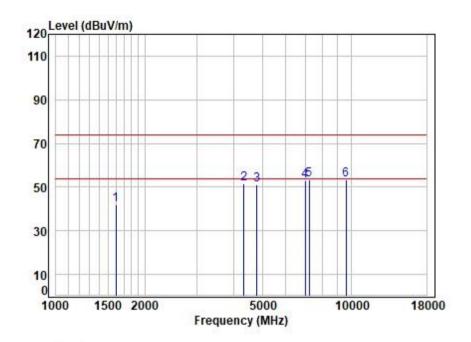


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00458AT Mode : 2402 TX RSE

: BT

	. 01								
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1597.181	3.98	24.79	52.91	65.98	41.84	74.00	-32.16	peak
2	4329.354	7.48	29.97	52.91	66.95	51.49	74.00	-22.51	peak
3	4804.000	7.98	30.94	53.05	65.31	51.18	74.00	-22.82	peak
4	6995.172	8.19	35.79	53.50	62.32	52.80	74.00	-21.20	peak
5	7206.000	8.29	36.05	53.52	62.51	53.33	74.00	-20.67	peak
6	9608 000	11 41	37 53	53 58	58 10	53 46	74 99	-20 54	neak



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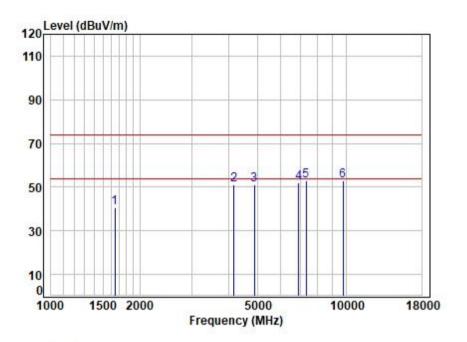


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

Mode : 2441 TX RSE

: BT

	Freq			Preamp Factor		Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1648.778	4.09	24.90	52.93	64.39	40.45	74.00	-33.55	peak
2	4169.698	7.48	29.75	52.86	66.72	51.09	74.00	-22.91	peak
3	4882.000	8.11	31.13	53.07	64.83	51.00	74.00	-23.00	peak
4	6894.806	8.09	35.55	53.43	61.81	52.02	74.00	-21.98	peak
5	7323.000	8.35	36.19	53.53	62.10	53.11	74.00	-20.89	peak
6	9764 999	11 29	37 88	53 43	57 21	52 95	74 99	-21 05	neak



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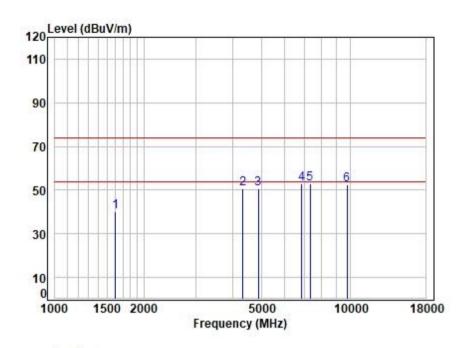


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Mode : 2441 TX RSE

: 00458AT

oue : 2441 17

Job No

: BT

	Freq			Preamp Factor			Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1606.441	4.00	24.81	52.91	64.05	39.95	74.00	-34.05	peak
2	4341.886	7.48	29.99	52.91	66.22	50.78	74.00	-23.22	peak
3	4882.000	8.11	31.13	53.07	64.31	50.48	74.00	-23.52	peak
4	6855.063	8.05	35.46	53.40	62.65	52.76	74.00	-21.24	peak
5	7323.000	8.35	36.19	53.53	61.85	52.86	74.00	-21.14	peak
6	9764.000	11.29	37.88	53.43	56.88	52.62	74.00	-21.38	peak



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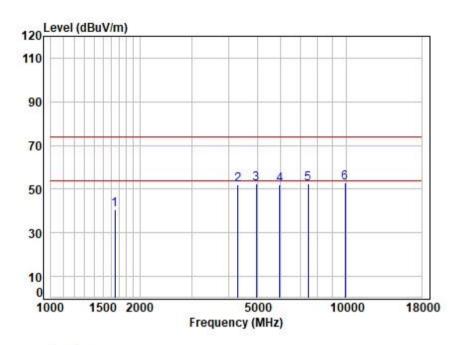


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00458AT

Mode : 2480 TX RSE

: BT

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1648.778	4.09	24.90	52.93	64.62	40.68	74.00	-33.32	peak
2	4304.400	7.48	29.94	52.90	67.41	51.93	74.00	-22.07	peak
3	4960.000	8.24	31.31	53.09	65.88	52.34	74.00	-21.66	peak
4	5949.811	7.70	32.42	52.81	64.61	51.92	74.00	-22.08	peak
5	7440.000	8.40	36.33	53.55	61.46	52.64	74.00	-21.36	peak
6	9920 000	11 18	38 22	53 28	56 90	53 02	74 99	-20 98	neak



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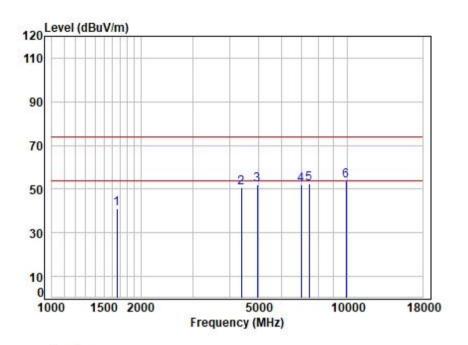


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 00458AT

Mode : 2480 TX RSE

: BT

	Freq			Preamp Factor			Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1663.137	4.12	24.93	52.94	65.03	41.14	74.00	-32.86	peak
2	4392.376	7.47	30.06	52.93	66.24	50.84	74.00	-23.16	peak
3	4960.000	8.24	31.31	53.09	65.40	51.86	74.00	-22.14	peak
4	6974.982	8.17	35.74	53.48	61.53	51.96	74.00	-22.04	peak
5	7440.000	8.40	36.33	53.55	61.25	52.43	74.00	-21.57	peak
6	9920 000	11 18	38 22	53 28	57 51	53 63	74 99	-20 37	neak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000458AT.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000458AT.



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10 Appendix

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency Packet (MHz) Packet ANT		ANT	99% Occupied Bandwidth (MHz)	Verdict	
	туре	(1711 12)	туре		Result		
		2402	DH5	1	0.960	Pass	
GFSK	SISO	2441	DH5	1	0.955	Pass	
		2480	DH5	1	0.957	Pass	
	SISO	2402	2DH5	1	1.152	Pass	
Pi/4DQPSK		2441	2DH5	1	1.157	Pass	
		2480	2DH5	1	1.157	Pass	
		2402	3DH5	1	1.160	Pass	
8DPSK	SISO	2441	3DH5	1	1.168	Pass	
		2480	3DH5	1	1.165	Pass	



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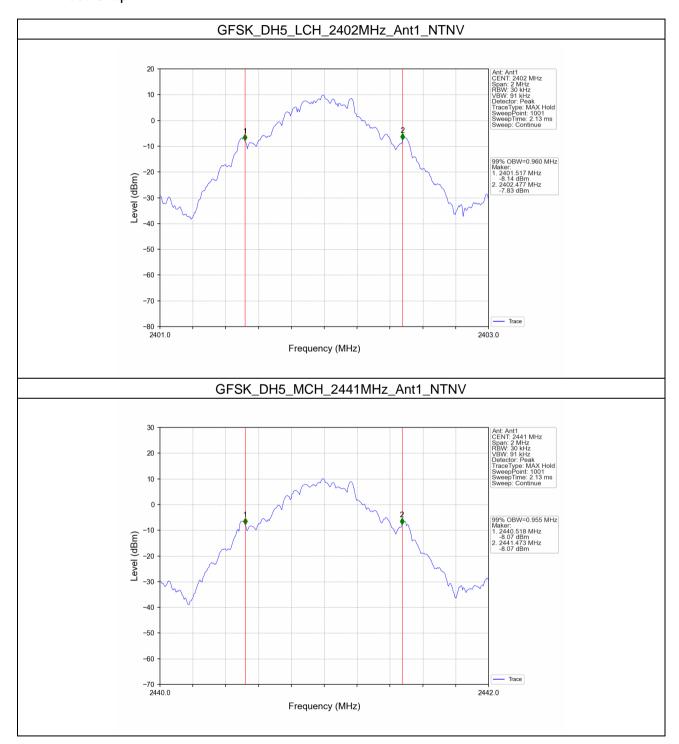


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1.1.2 Test Graph





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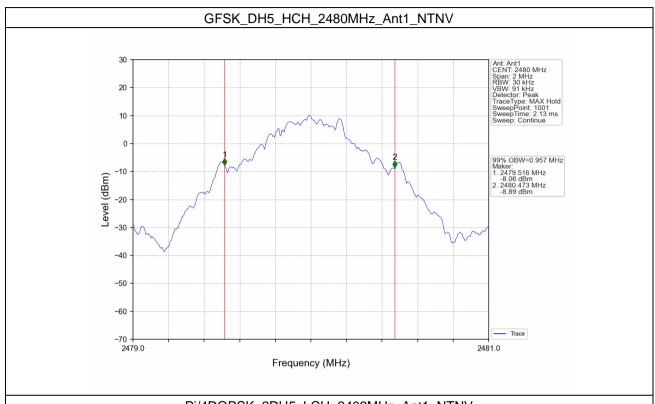
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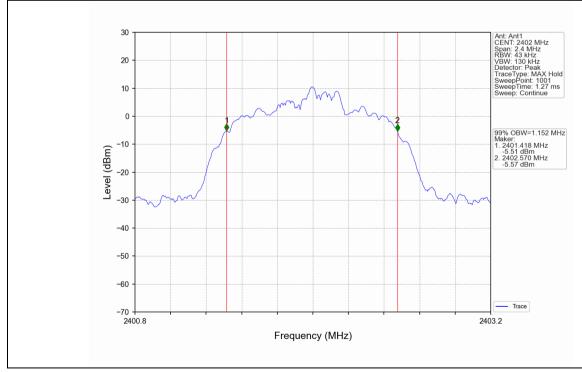
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV





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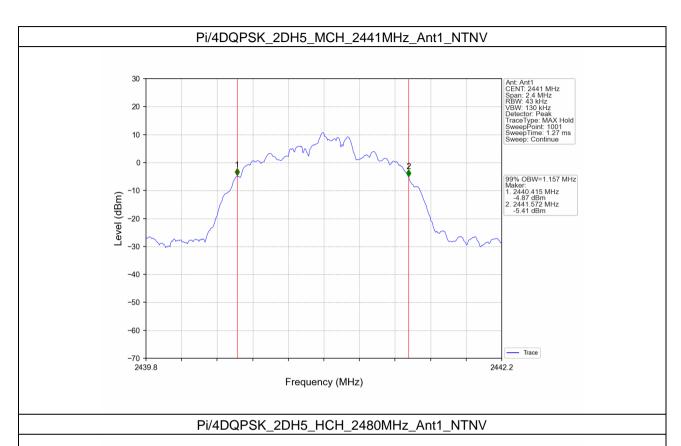
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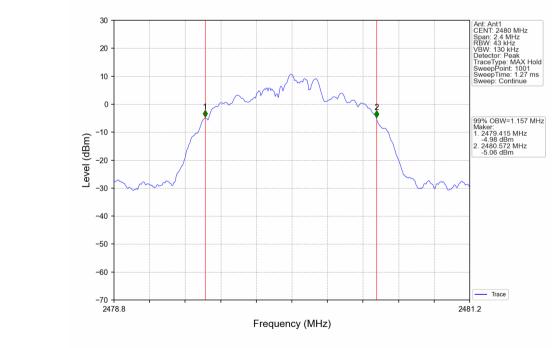


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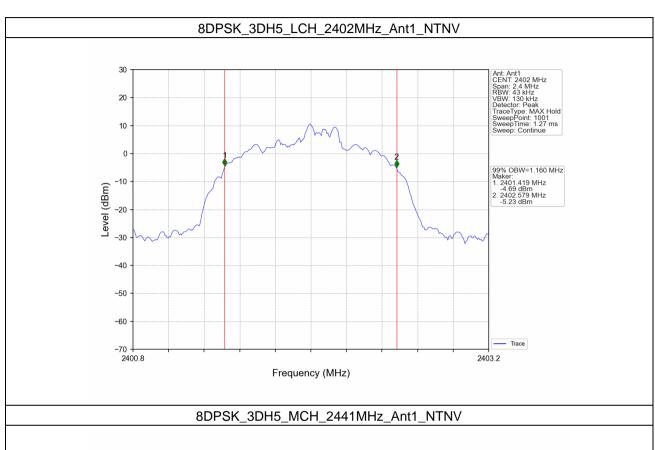
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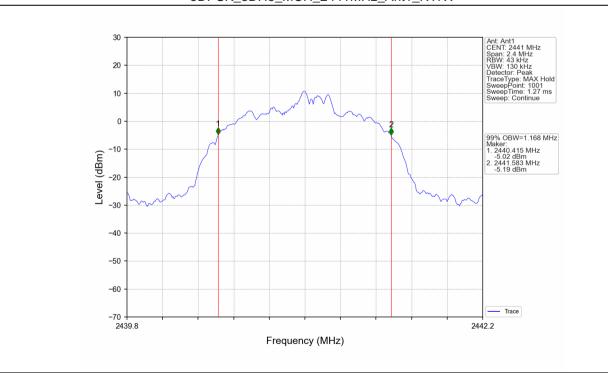


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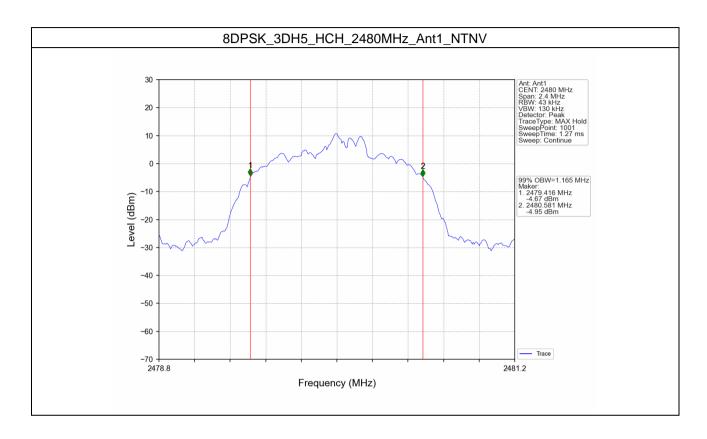
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1.2 20dB BW

1.2.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict	
Mode	Type	(MHz)	Type	AINI	Result	VOIGIOU	
		2402	DH5	1	1.049	Pass	
GFSK	SISO	2441	DH5	1	1.052	Pass	
		2480	DH5	1	1.052	Pass	
	SISO	2402	2DH5	1	1.261	Pass	
Pi/4DQPSK		2441	2DH5	1	1.268	Pass	
		2480	2DH5	1	1.272	Pass	
	SISO	2402	3DH5	1	1.286	Pass	
8DPSK		2441	3DH5	1	1.299	Pass	
		2480	3DH5	1	1.293	Pass	



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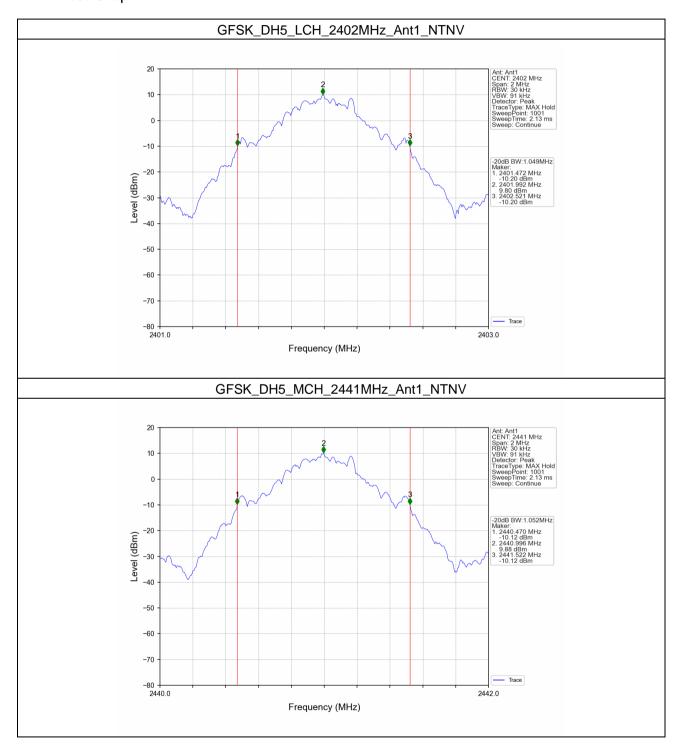


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1.2.2 Test Graph





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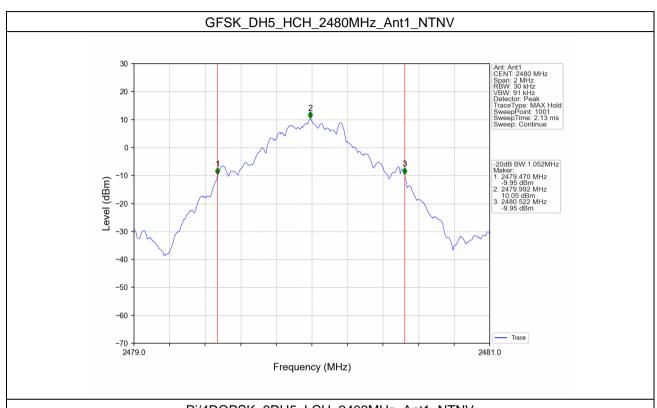
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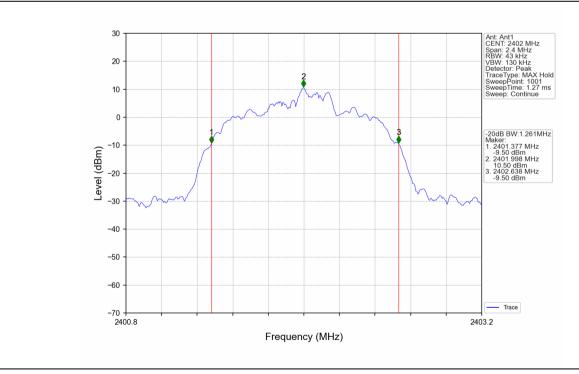
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV





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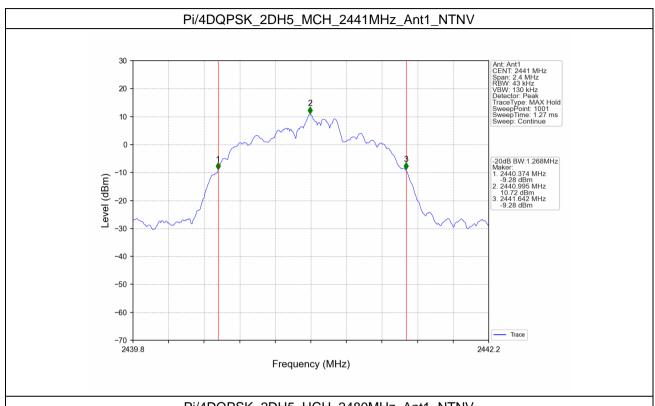
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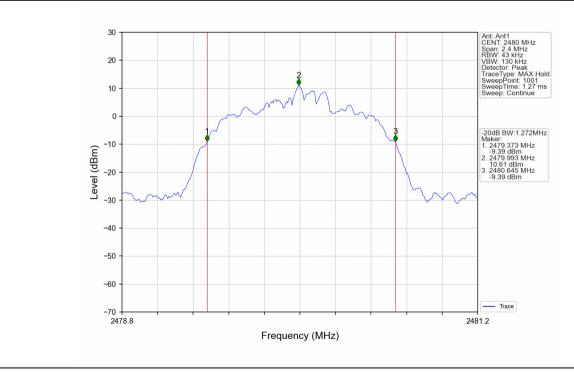
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV





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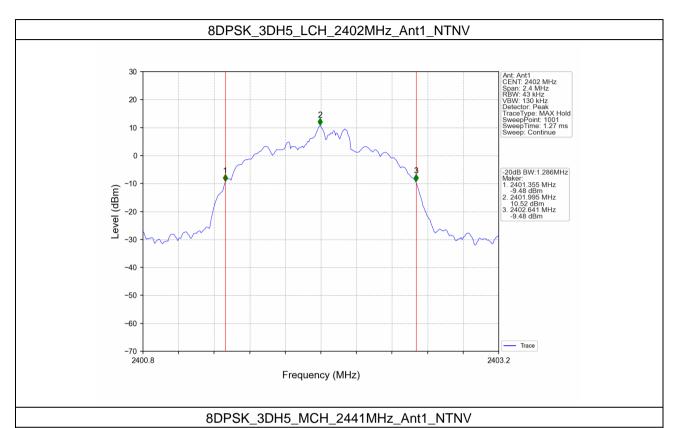
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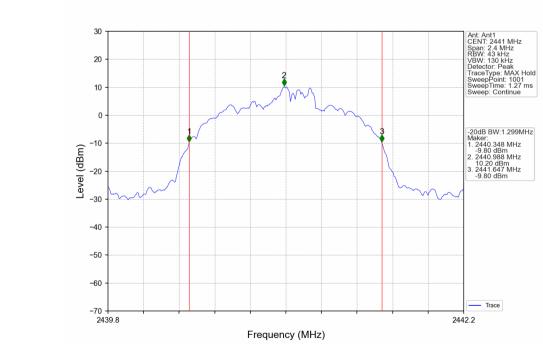


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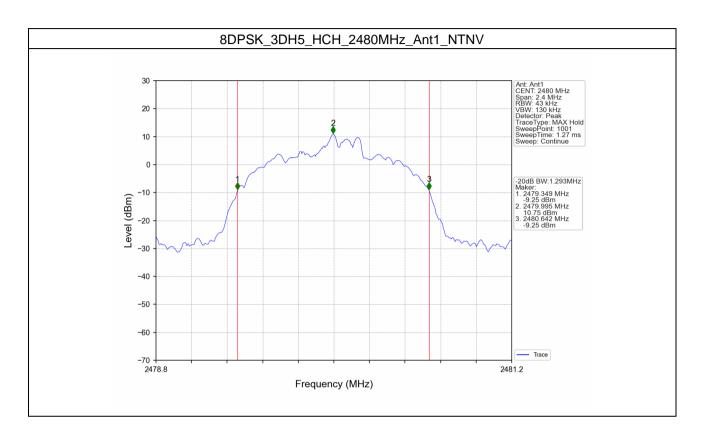
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX	Frequency	Packet Type	Maximum Peak Conduc	ted Output Power (dBm)	Vordict
Mode	Type	(MHz)		ANT1	Limit	Verdict
		2402	DH5	11.14	<=20.97	Pass
GFSK	SISO	2441	DH5	11.35	<=20.97	Pass
		2480	DH5	11.39	<=20.97	Pass
	SISO	2402	2DH5	11.05	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	11.26	<=20.97	Pass
		2480	2DH5	11.29	<=20.97	Pass
		2402	3DH5	11.06	<=20.97	Pass
8DPSK	SISO	2441	3DH5	11.27	<=20.97	Pass
		2480	3DH5	11.32	<=20.97	Pass
Note1: Anten	na Gain:	Ant1: 2.71dBi;	·			





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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	1.052	>=0.701	Pass						
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.272	>=0.848	Pass						
8DPSK	SISO	HOPP	3DH5	1.003	1.299	>=0.866	Pass						



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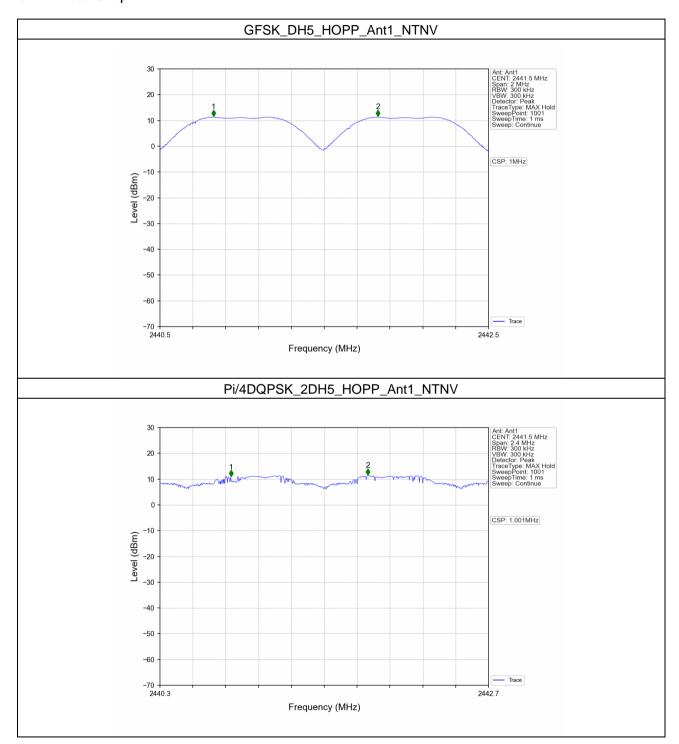


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3.1.2 Test Graph





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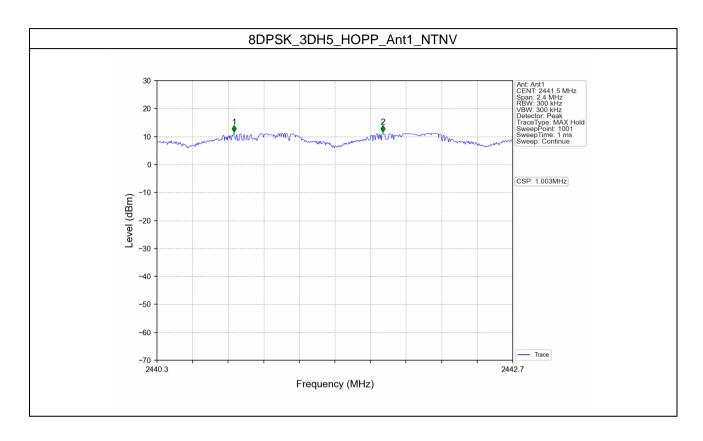
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX	Frequency	Packet	Num of Hoppir	\/ordiot		
Mode	Туре	(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	



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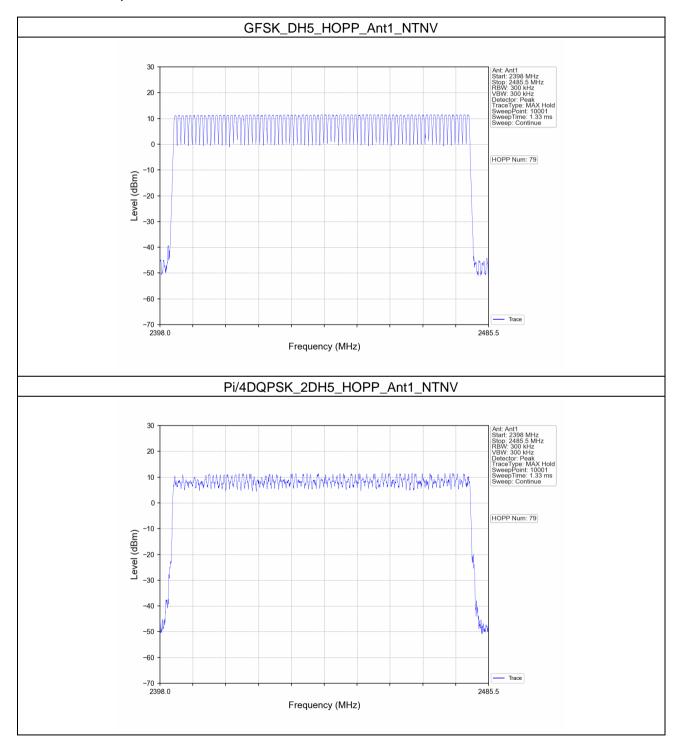


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4.1.2 Test Graph





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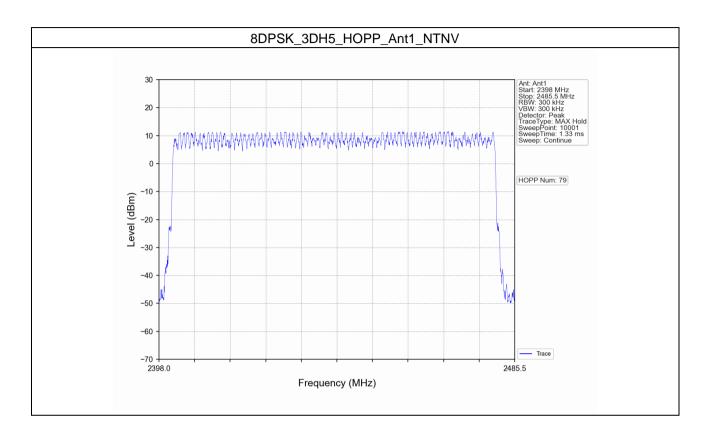
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5. Time of Occupancy (Dwell Time)

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	0.400	31.600	150	60.000	<=400	Pass
GFSK	SISO	HOPP	DH3	1.658	31.600	114	189.012	<=400	Pass
			DH5	2.906	31.600	86	249.916	<=400	Pass
	SISO	HOPP	2DH1	0.412	31.600	153	63.036	<=400	Pass
Pi/4DQPSK			2DH3	1.664	31.600	114	189.696	<=400	Pass
			2DH5	2.910	31.600	84	244.440	<=400	Pass
			3DH1	2.912	31.600	77	224.224	<=400	Pass
8DPSK	SISO	HOPP	3DH3	2.910	31.600	85	247.350	<=400	Pass
			3DH5	2.912	31.600	87	253.344	<=400	Pass



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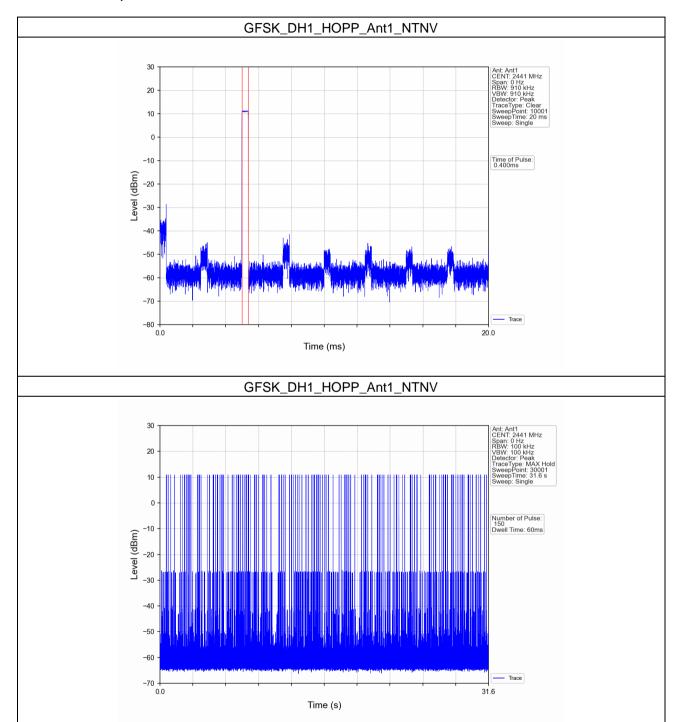


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5.1.2 Test Graph





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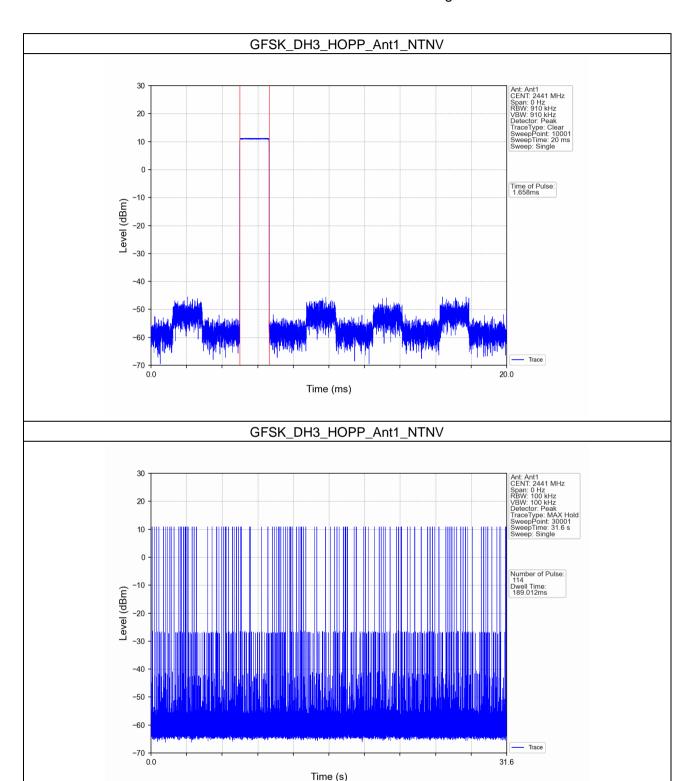
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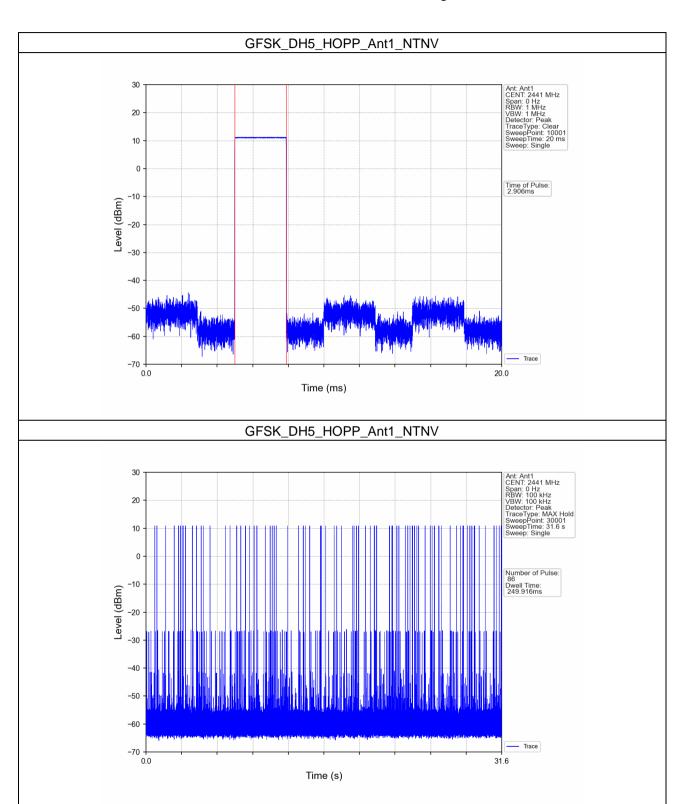
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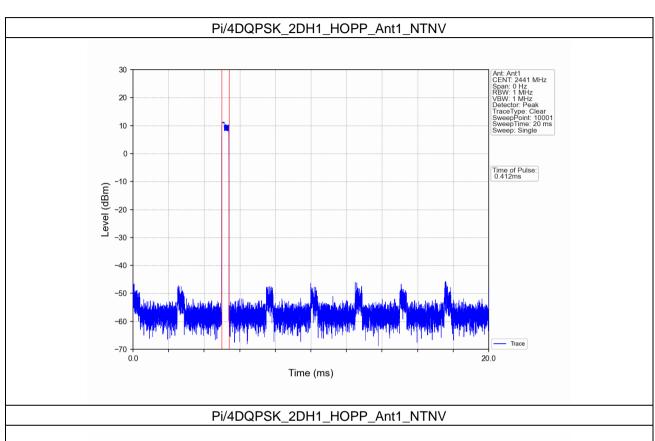
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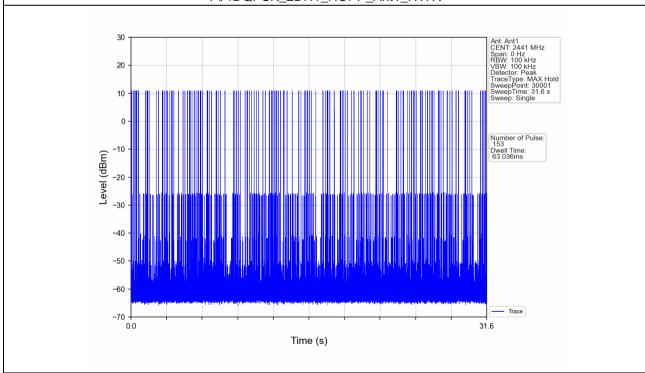


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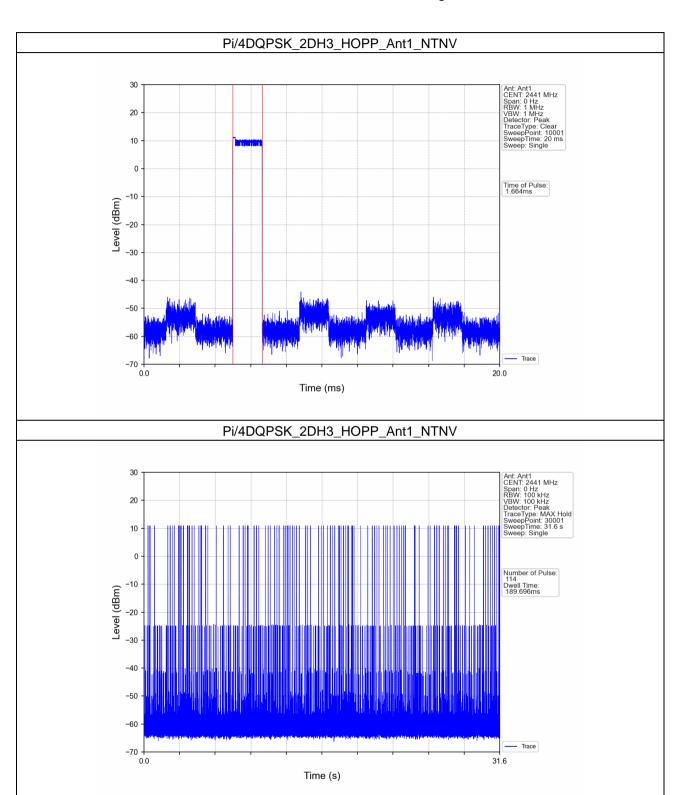
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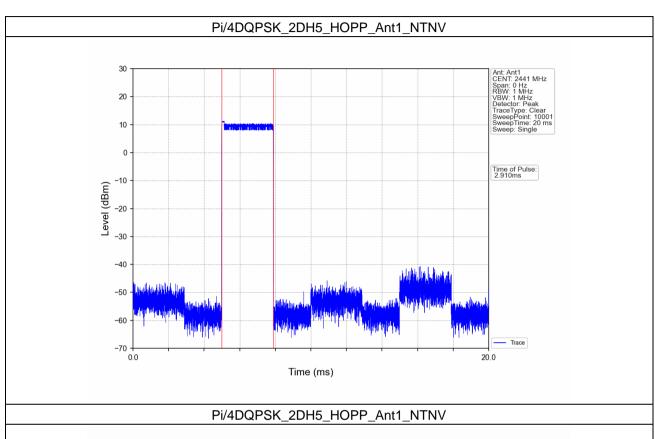
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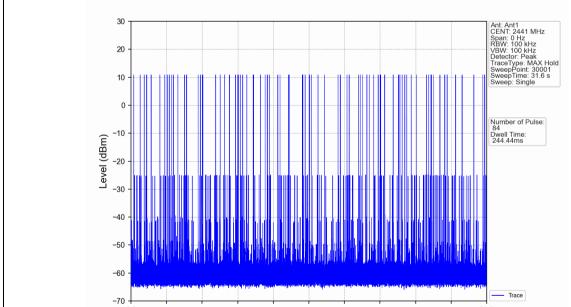


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Time (s)



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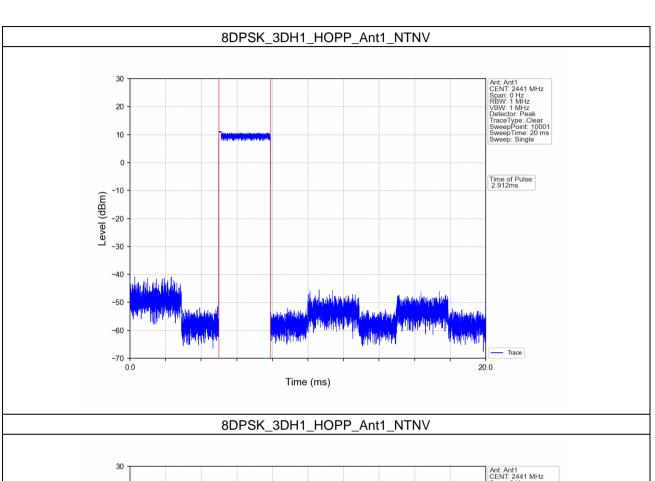
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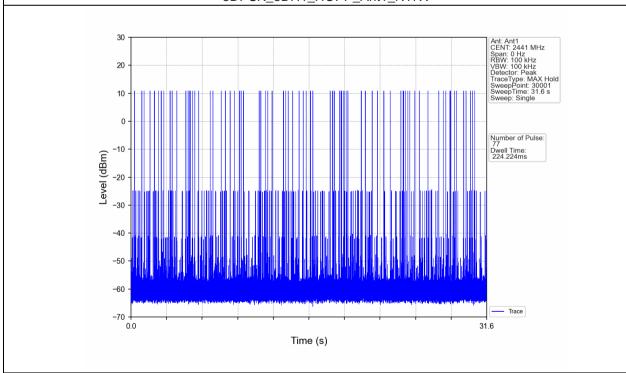


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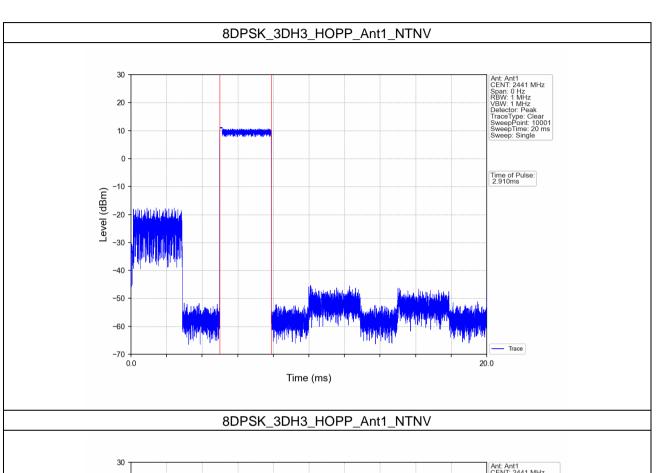
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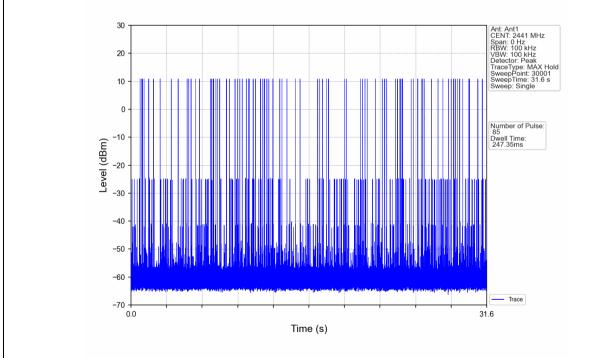


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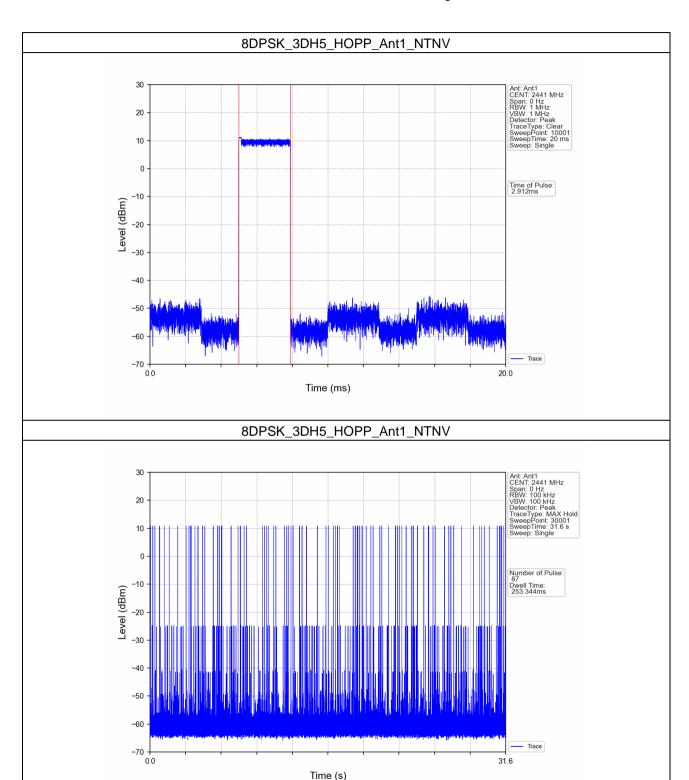
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	10.94
GFSK	SISO	2441	DH5	1	11.14
		2480	DH5	1	11.12
		2402	2DH5	1	10.72
Pi/4DQPSK	SISO	2441	2DH5	1	10.93
		2480	2DH5	1	10.90
		2402	3DH5	1	10.83
8DPSK	SISO	2441	3DH5	1	11.08
		2480	3DH5	1	11.00

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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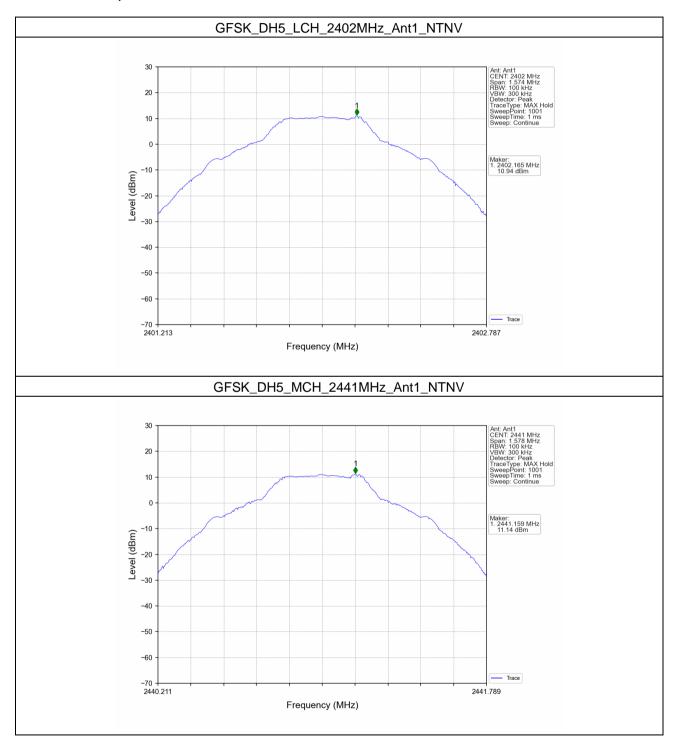


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6.1.2 Test Graph





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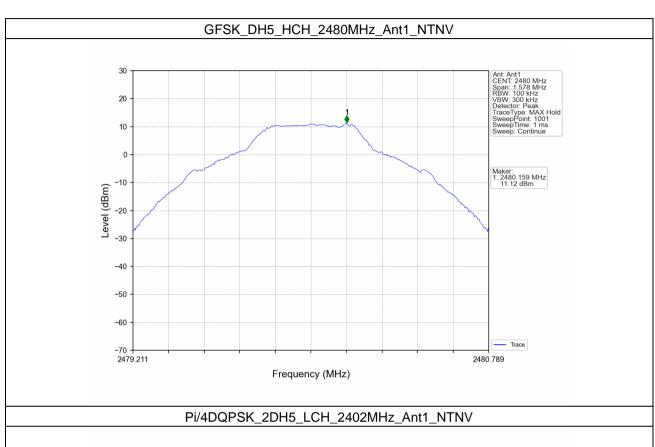
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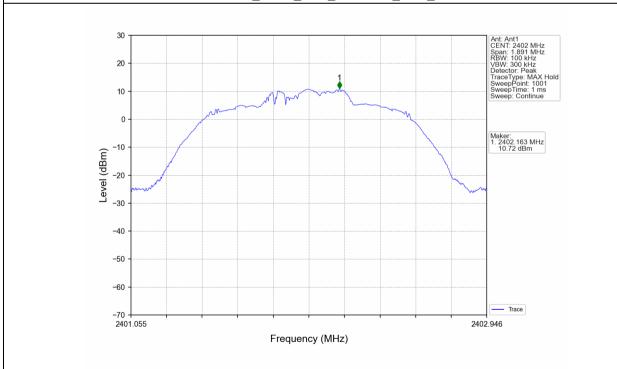


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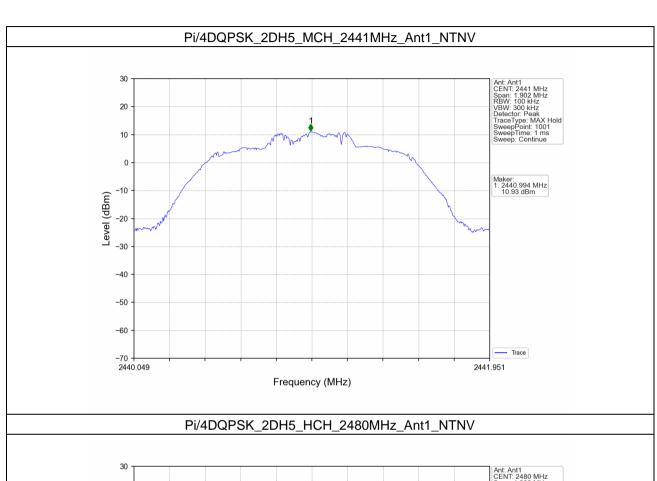
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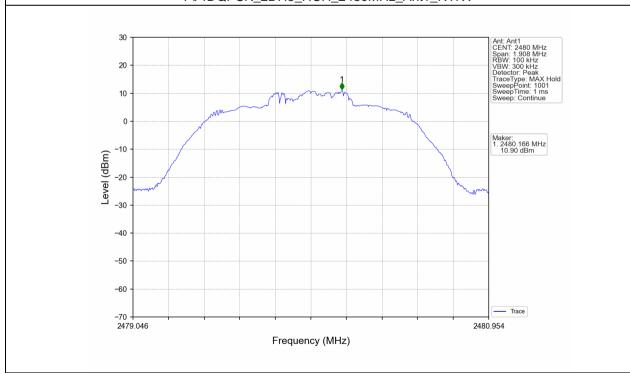


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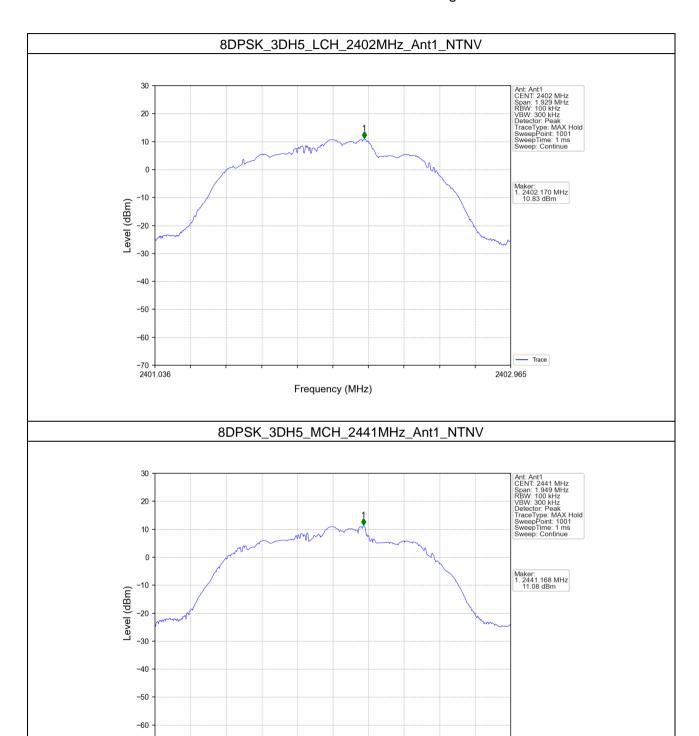
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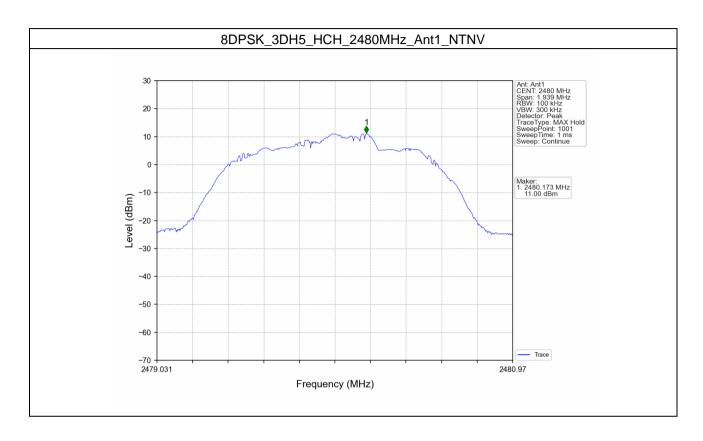
Frequency (MHz)



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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	11.14	-8.86	Pass
		2441	DH5	1	11.14	-8.86	Pass
		2480	DH5	1	11.14	-8.86	Pass
		HOPP	DH5	1	11.14	-8.86	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	10.93	-9.07	Pass
		2441	2DH5	1	10.93	-9.07	Pass
		2480	2DH5	1	10.93	-9.07	Pass
		HOPP	2DH5	1	10.93	-9.07	Pass
8DPSK	SISO	2402	3DH5	1	11.08	-8.92	Pass
		2441	3DH5	1	11.08	-8.92	Pass
		2480	3DH5	1	11.08	-8.92	Pass
		HOPP	3DH5	1	11.08	-8.92	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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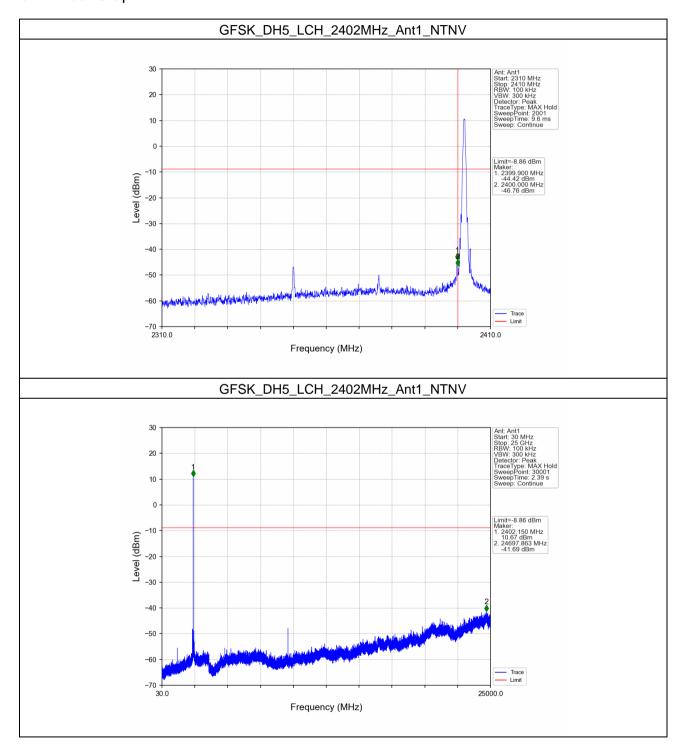


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6.2.2 Test Graph





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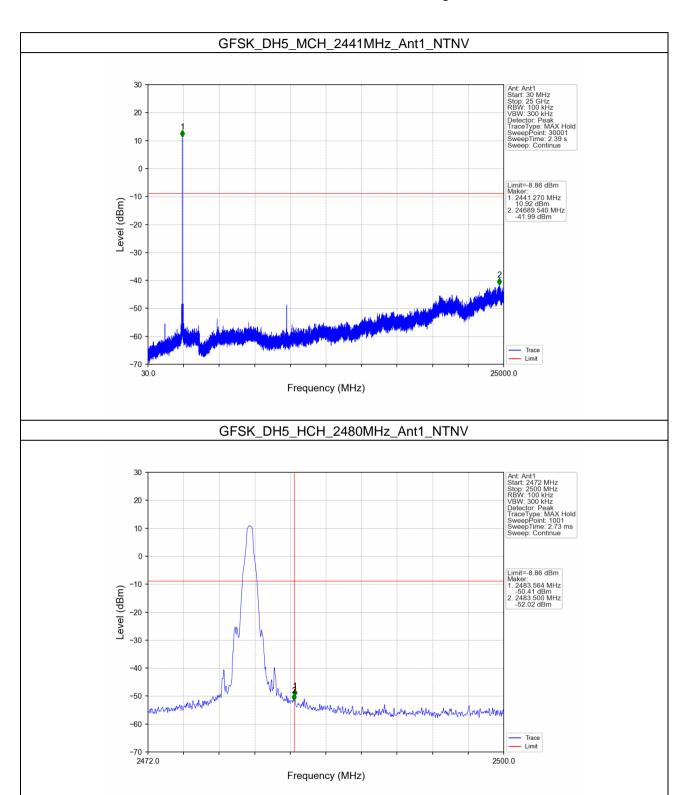
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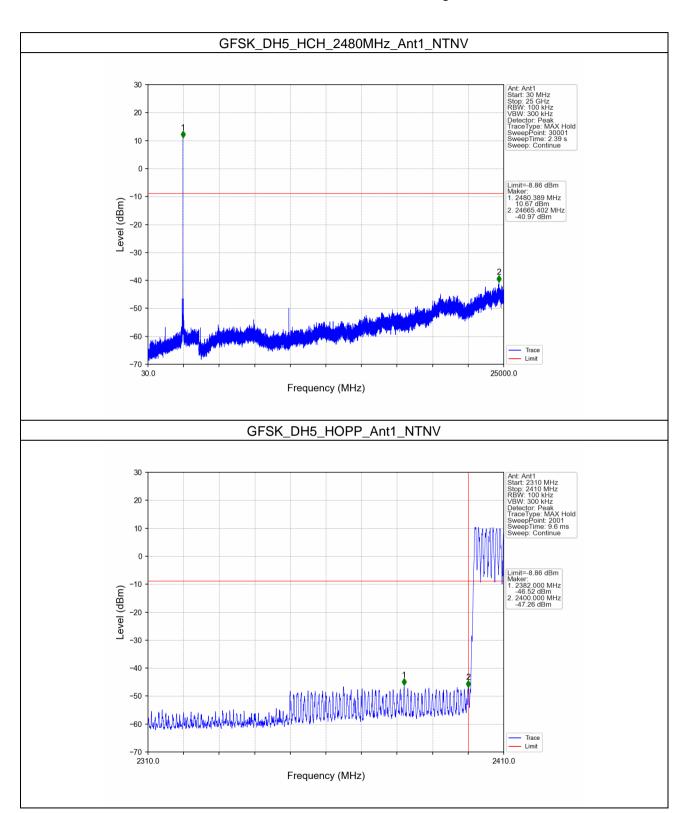
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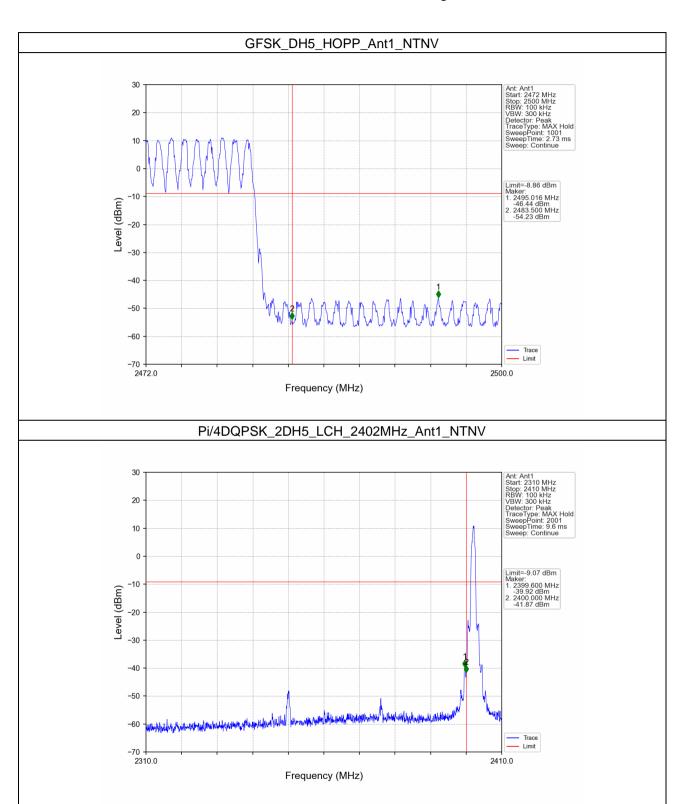
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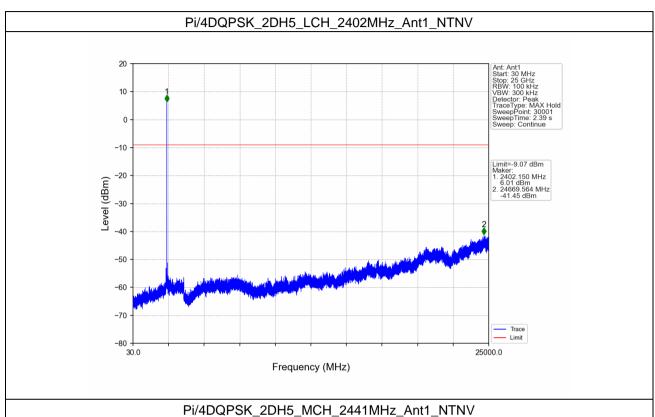
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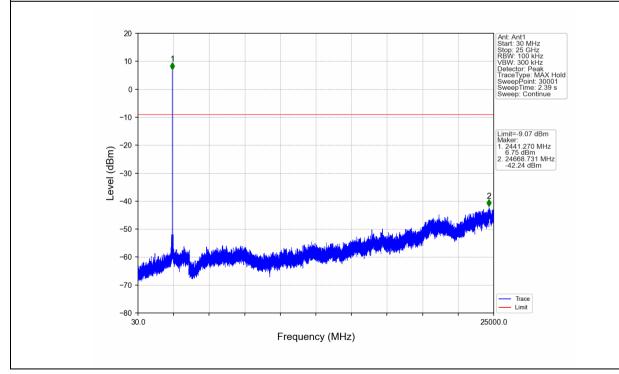


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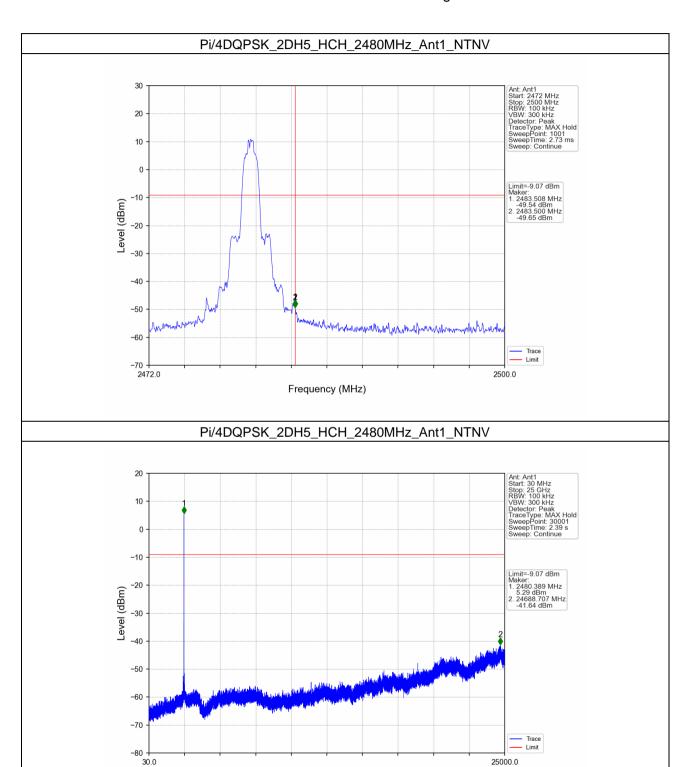
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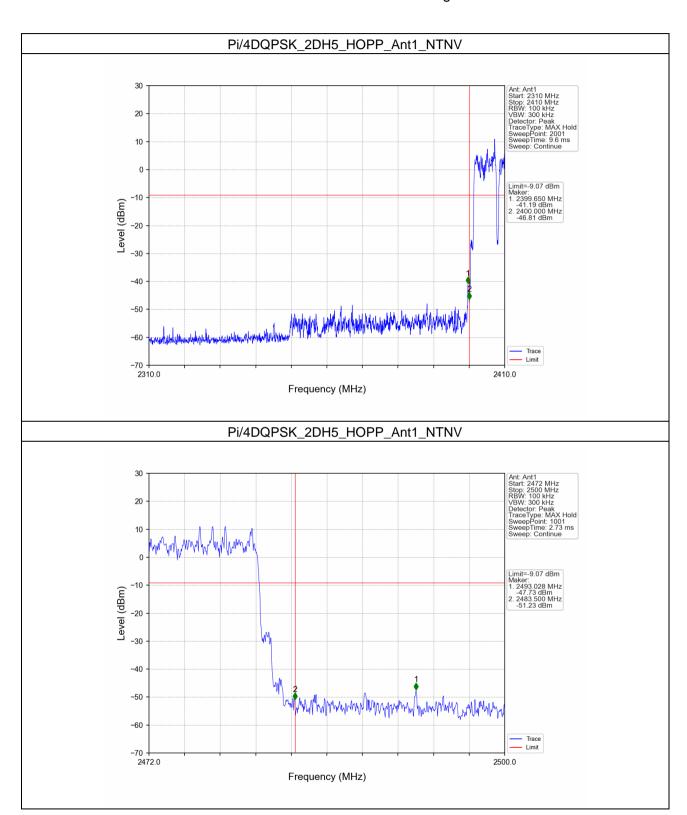
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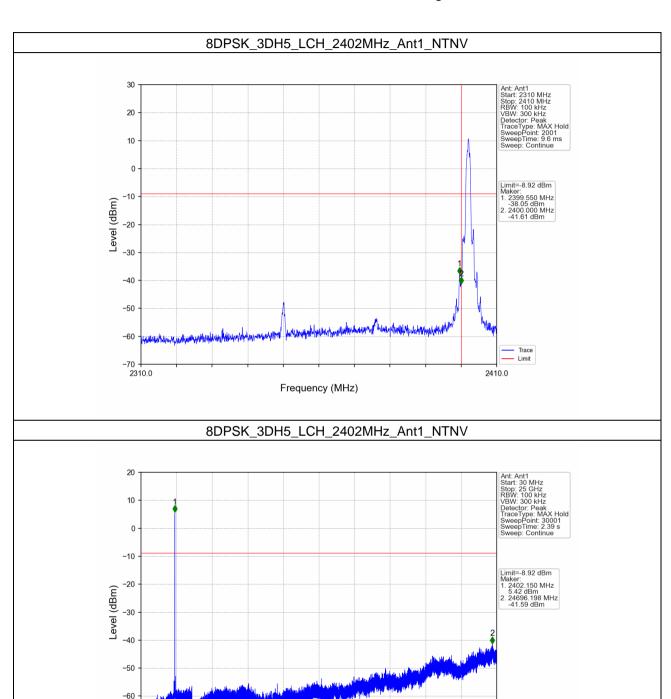
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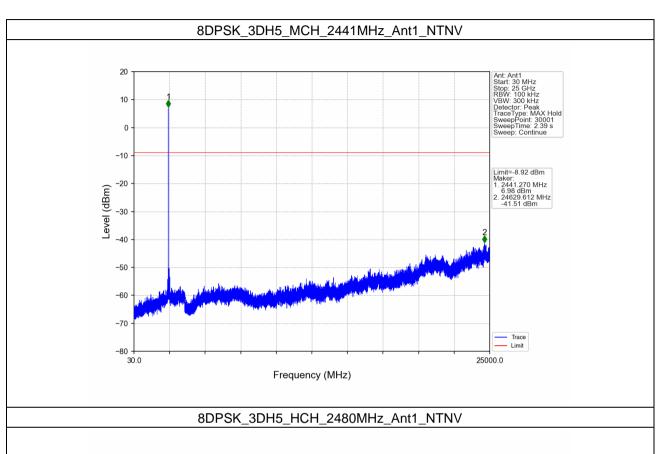
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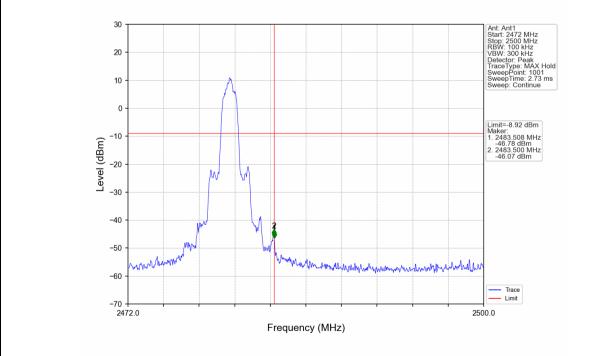


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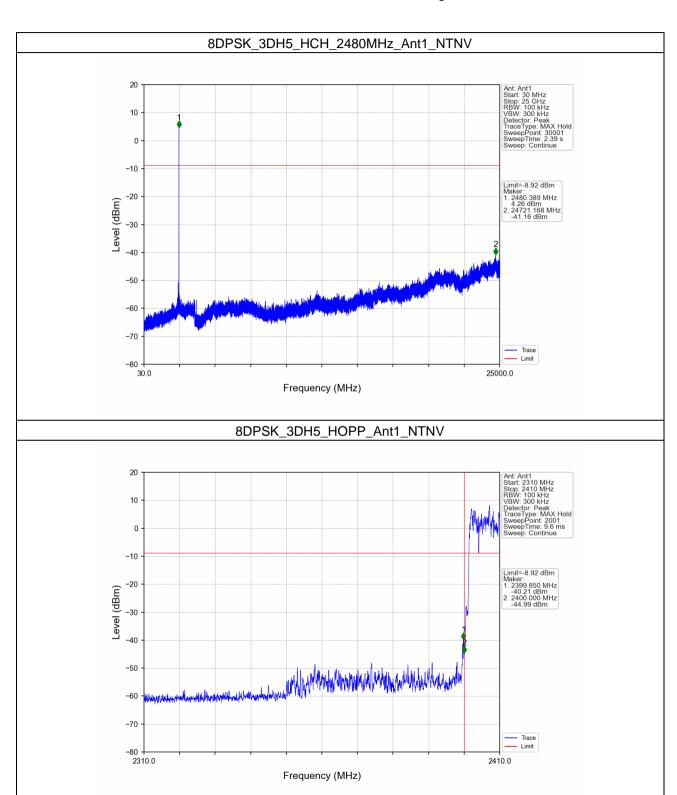
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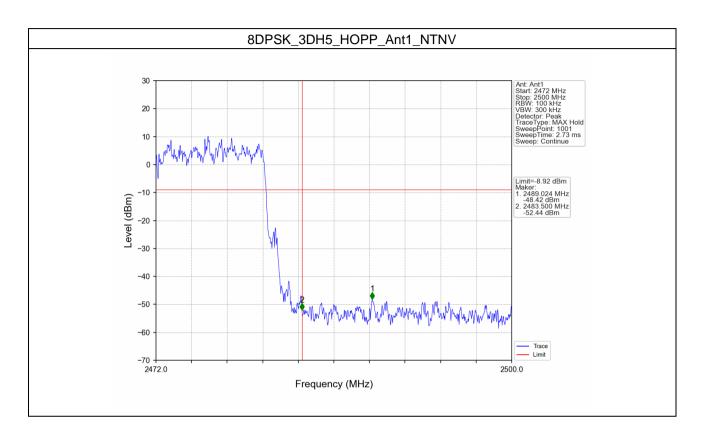
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