

Report No.: SZEM201001024601

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TEST REPORT

Application No.: SZEM2010010246CR

Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.

Address of Applicant: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.

Address of Manufacturer: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

Factory: TCL Technoly Electronics (Huizhou) Co., Ltd.

Address of Factory: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang

Dong Province, P.R. China

Equipment Under Test (EUT):

EUT Name: realme Buds Air Pro

Model No.: RMA210
Trade mark: realme

FCC ID: 2AUYFRMA210

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

Date of Receipt: 2020-10-14

Date of Test: 2020-10-15 to 2020-10-21

Date of Issue: 2020-10-22

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Leny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2020-10-22		Original				

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen/Project Engineer	
	EvicFu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass		
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass		
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Dwell Time	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	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:	Left earphone: Rechargeable battery DC 3.7V 0.159Wh		
	Right earphone: Rechargeable battery DC 3.7V 0.159Wh		
Bluetooth Version:	V5.0 Dual mode		
Operation Frequency:	2402MHz to 2480MHz		
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK		
Number of Channels:	79		
Channel Spacing:	1MHz		
Antenna Type:	LDS Antenna		
Antenna Gain:	Left earphone and Right earphone: -0.5dBi		

4.2 Cable

Cable	Length	Shielding	Core
Type-c cable	16.5cm	Unshielded	Non-Core

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10-8
Hopping Channel Number	± 7.25 x 10-8
Dwell Time	± 0.37%
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20



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Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Radiated Emissions which fall in the restricted bands					
Equipment	Equipment Manufacturer Model No		Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Llawa Autawa	Cabusamehaals	DDLIA 0470	CEM002 45	2017-10-17	2020-10-16
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-10-15	2023-10-14
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Llawa Austanaa	Calauranek a alı	DD114 0470	OFM000 45	2017-10-17	2020-10-16
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-10-15	2023-10-14
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-25	2021-09-24
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247

Limit:

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 Left earphone and Right earphone: -0.5dBi

Antenna location: Refer to Internal photos.



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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

Limit:

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:



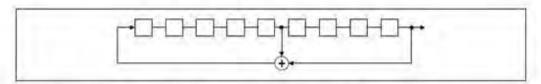
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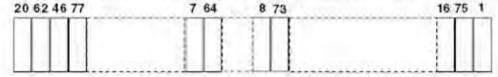
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Linear Feedback Shift Register for Generation of the PRBS sequence

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 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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Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247 **Test Requirement** 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 modulation		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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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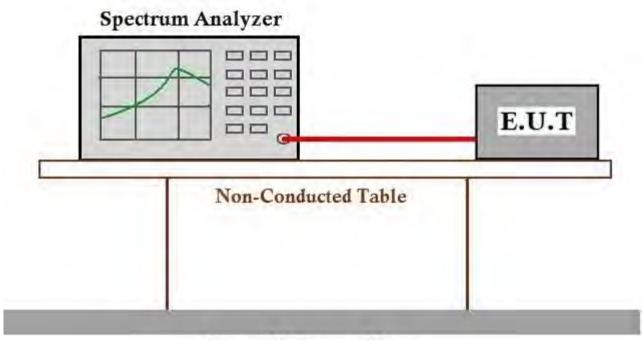
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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.2 20dB Bandwidth

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

7.2.1 E.U.T. Operation

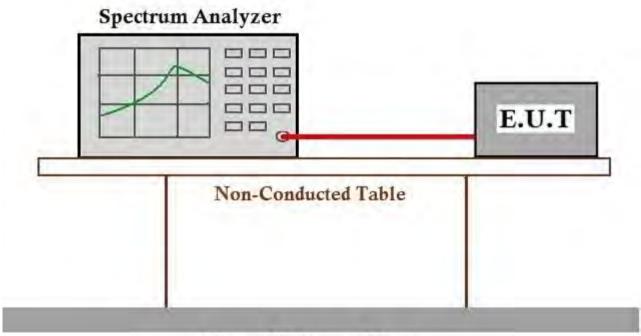
Operating Environment:

Temperature: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

	· · · · · · · · · · · · · · · · · · ·				
Pre-scan / Final test	Mode Code	Description			
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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 15.247 Test Requirement Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.3.1 E.U.T. Operation

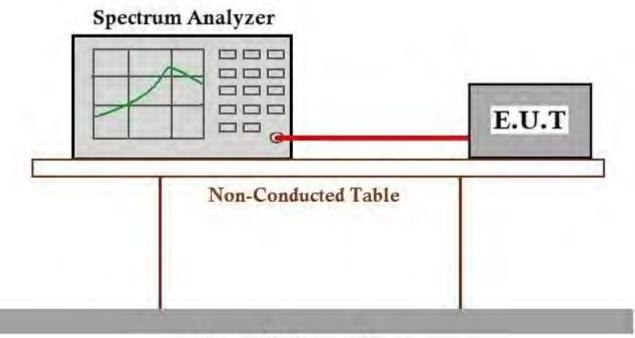
Operating Environment:

Temperature: 23.5 °C Atmospheric Pressure: 1010 mbar Humidity: 55.2 % RH

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	02	TX_Hop mode(Left earphone)_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.				
Final test	03	TX_Hop mode(Right earphone)_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



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7.3.4 Measurement Procedure and Data

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7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
002.020	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: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

7.4.2 Test mode Description					
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX_Hop mode(Left earphone)_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.			
Final test	03	TX_Hop mode(Right earphone)_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.			

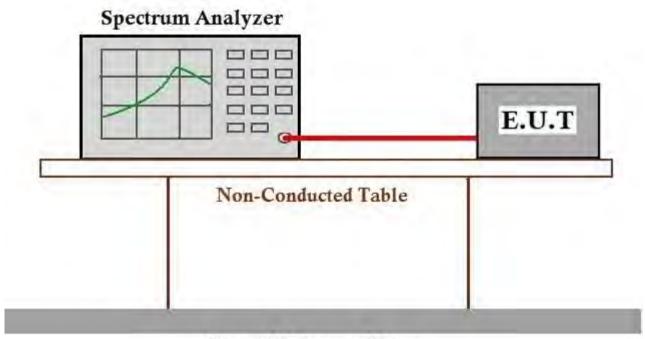




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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.5 Dwell Time

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

Limit:

Frequency(MHz)	Limit		
002 029	0.4S within a 20S period(20dB bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)		
0400 0400 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: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

7.0.2 1 CSt W	.040 20	oon palon
Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode(Left earphone)_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.
Final test	03	TX_Hop mode(Right earphone)_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.

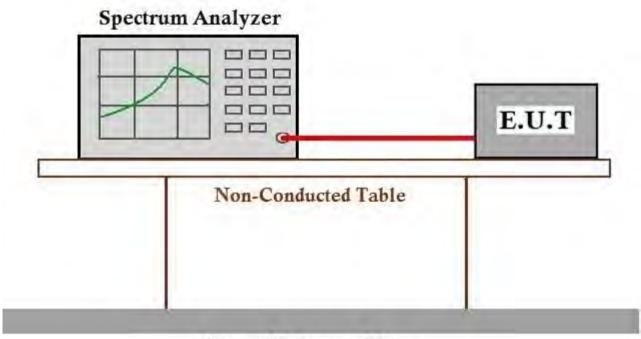




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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247 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: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan /	Mode	
Final test	Code	Description
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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	02	TX_Hop mode(Left earphone)_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.
Final test	03	TX_Hop mode(Right earphone)_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.



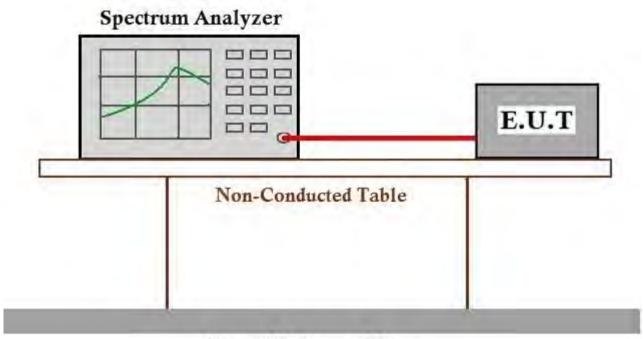
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247 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: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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.



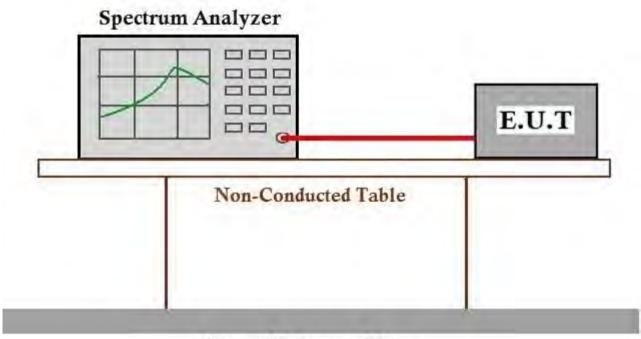
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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.247 **Test Requirement** Test Method: ANSI C63.10 (2013) Section 6.10.5

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: 22.1 °C Humidity: 54.2 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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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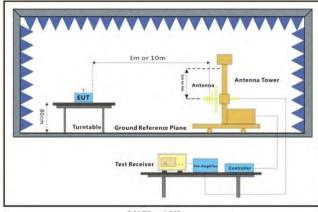
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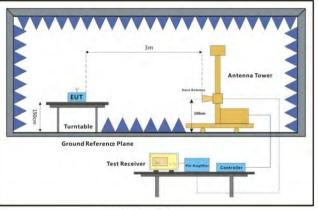


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7.8.3 Test Setup Diagram





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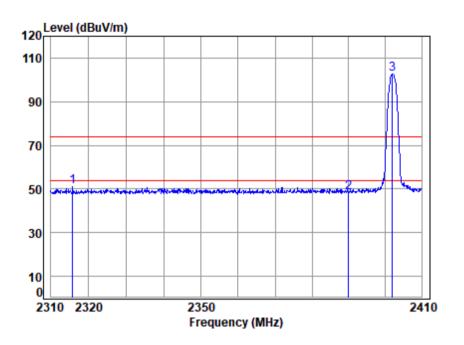
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR

Mode : 2402 Band edge

Note : BT-I

0.0		_								
		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	2315.783	4.22	28.39	40.94	59.23	50.90	74.00	-23.10	peak	
2	2390.000	4.34	28.52	40.97	56.58	48.47	74.00	-25.53	peak	
3 *	2402.000	4.36	28.54	40.98	110.62	102.54	74.00	28.54	peak	



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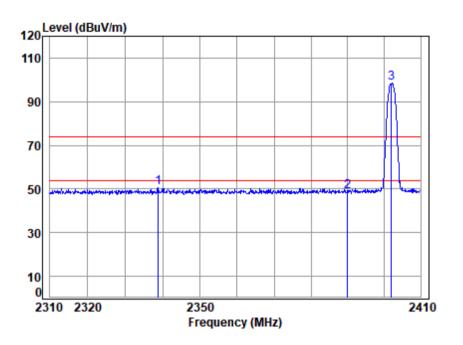
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 10246CR

Mode : 2402 Band edge

Note : BT-L

> 1 2 3

		_								
		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		
L	2338.862	4.26	28.43	40.95	58.90	50.64	74.00	-23.36	peak	
)	2390.000	4.34	28.52	40.97	56.97	48.86	74.00	-25.14	peak	
3	* 2402.000	4.36	28.54	40.98	106.42	98.34	74.00	24 34	neak	



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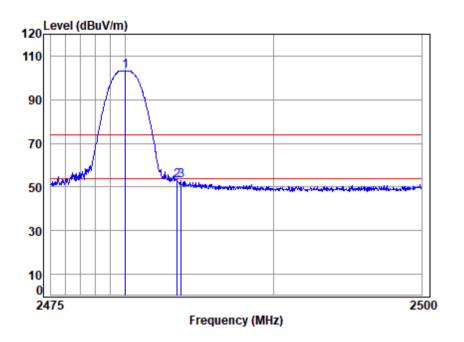
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR

Mode : 2480 Band edge

Note : BT-L

		_								
		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	4.49	28.67	41.01	111.13	103.28	74.00	29.28	peak	
2	2483.500	4.49	28.67	41.01	60.82	52.97	74.00	-21.03	peak	
3	2483.746	4.49	28.67	41.01	60.74	52.89	74.00	-21.11	Peak	



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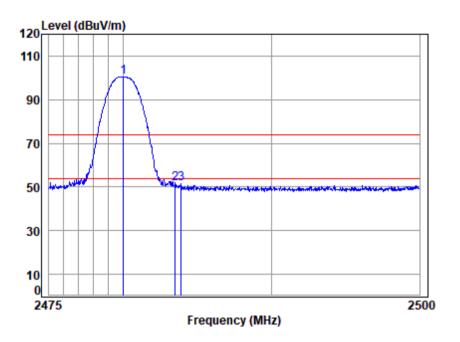
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR

Mode : 2480 Band edge

· RT-I Note

> 1 2 3

_		_								
		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		
*	2480.000	4.49	28.67	41.01	108.15	100.30	74.00	26.30	peak	
	2483.500	4.49	28.67	41.01	59.62	51.77	74.00	-22.23	peak	
	2483.896	4.49	28.67	41.01	59.23	51.38	74.00	-22.62	peak	



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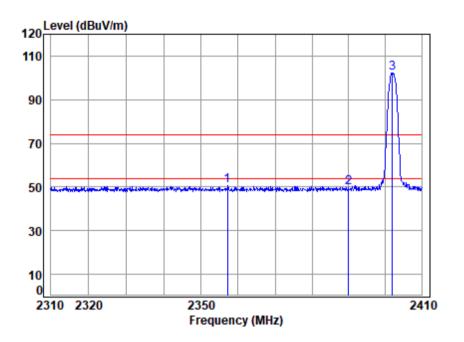
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR

Mode : 2402 Band edge

Note : BT-R

		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	2357.172	4.29	28.46	40.96	58.85	50.64	74.00	-23.36	peak	
2	2390.000	4.34	28.52	40.97	57.88	49.77	74.00	-24.23	peak	
3 *	2402.000	4.36	28.54	40.98	110.21	102.13	74.00	28.13	peak	



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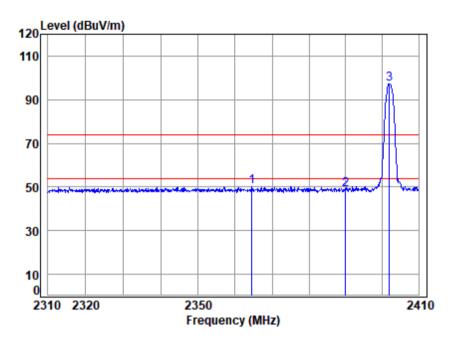
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Report No.: SZEM201001024601

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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR

Mode : 2402 Band edge

· RT-R Note

> 1 2 3

_		13								
		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		
L	2364.575	4.30	28.48	40.96	58.58	50.40	74.00	-23.60	Peak	
2	2390.000	4.34	28.52	40.97	57.04	48.93	74.00	-25.07	peak	
*	2402.000	4.36	28.54	40.98	105.42	97.34	74.00	23.34	peak	



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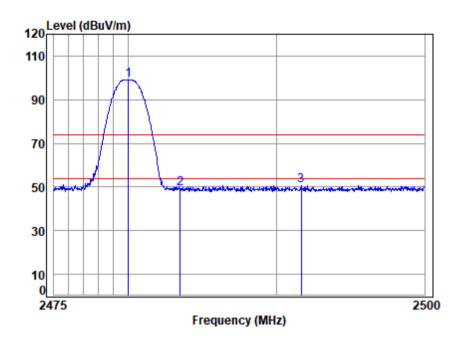
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR

Mode : 2480 Band edge

Note : BT-R

> 1 2 3

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500	4.49	28.67	41.01	56.98	49.13	74.00	-24.87	peak
2491.647	4.51	28.69	41.01	58.58	50.77	74.00	-23.23	peak



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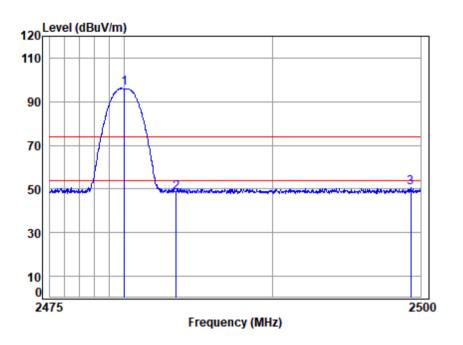
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 10246CR

Mode : 2480 Band edge

Note : BT-R

		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	4.49	28.67	41.01	103.95	96.10	74.00	22.10	peak
2	2483.500	4.49	28.67	41.01	56.33	48.48	74.00	-25.52	peak
3	2499.347	4.52	28.70	41.02	58.53	50.73	74.00	-23.27	peak



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7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

11012 1001 11000 2000 11010 11										
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX_non-Hop mode(Left earphone)_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_non-Hop mode(Right earphone)_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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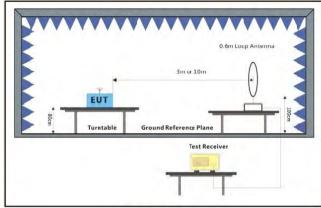
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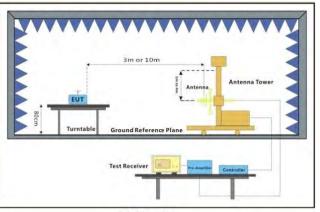


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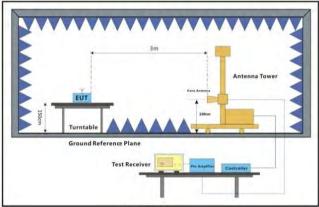
7.9.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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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. 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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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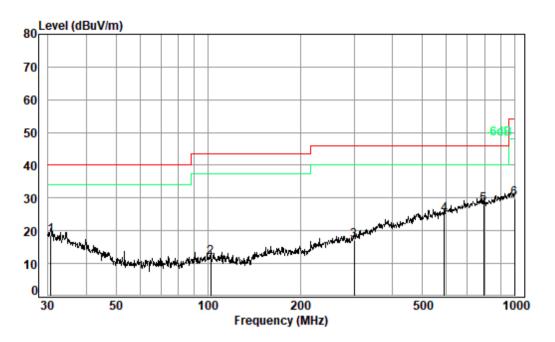
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Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 10246CR

Test 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	
4	20.64	0.61	22 54	27 72	22.22	10 (1	40.00	24 20	OD
1	30.64	0.61	22.51	27.73	23.22	18.61	40.00	-21.39	QР
2	102.00	1.10	13.94	27.60	24.40	11.84	43.50	-31.66	QP
3	299.32	2.00	19.05	26.87	22.93	17.11	46.00	-28.89	QP
4	590.97	2.68	25.62	28.10	24.71	24.91	46.00	-21.09	QP
5 pp	793.40	3.28	27.83	27.74	24.67	28.04	46.00	-17.96	QP
6	1000.00	3.60	29.80	26.66	23.06	29.80	54.00	-24.20	QP



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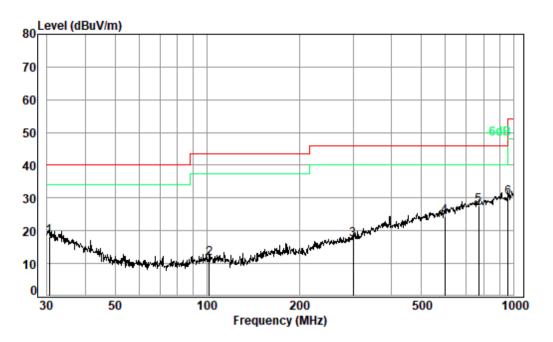
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 10246CR

Test Mode: 00

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
_										
1	30.53	0.61	22.59	27.73	22.84	18.31	40.00	-21.69	QP	
2	101.64	1.10	13.95	27.60	24.09	11.54	43.50	-31.96	QP	
3	299.32	2.00	19.05	26.87	23.03	17.21	46.00	-28.79	QP	
4	597.22	2.69	25.74	28.12	24.17	24.48	46.00	-21.52	QP	
5	771.45	3.19	28.02	27.78	24.10	27.53	46.00	-18.47	QP	
6 pp	958.79	3.56	29.48	26.86	23.99	30.17	46.00	-15.83	OP	



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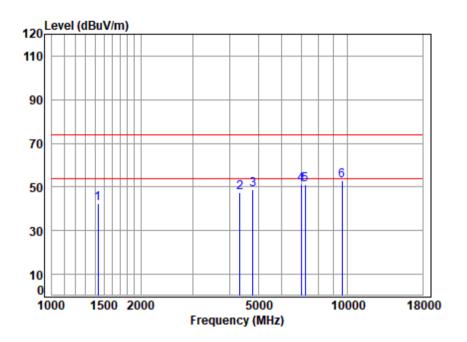
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2402 TX SE

Note : BT-L

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1435.189	3.16	25.56	40.46	54.37	42.63	74.00	-31.37	peak
2	4341.886	6.61	33.33	42.43	49.84	47.35	74.00	-26.65	peak
3	4804.000	7.10	33.97	42.77	50.46	48.76	74.00	-25.24	peak
4	6974.982	8.53	35.89	41.70	48.40	51.12	74.00	-22.88	peak
5	7206.000	8.74	36.07	41.58	48.10	51.33	74.00	-22.67	peak
6	9608.000	10.81	37.67	38.57	42.93	52.84	74.00	-21.16	peak



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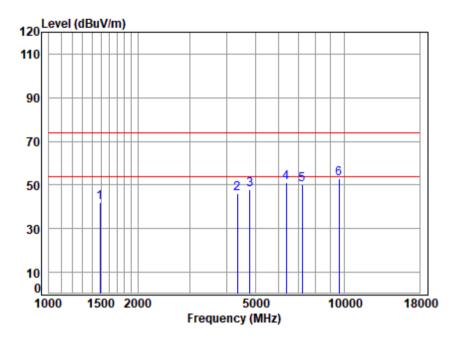
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2402 TX SE

Note : BT-L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1490.142	3.25	25.76	40.50	53.66	42.17	74.00	-31.83	peak
2	4354.454	6.63	33.35	42.44	48.69	46.23	74.00	-27.77	peak
3	4804.000	7.10	33.97	42.77	49.74	48.04	74.00	-25.96	peak
4	6377.195	8.28	35.48	42.02	49.45	51.19	74.00	-22.81	peak
5	7206.000	8.74	36.07	41.58	47.10	50.33	74.00	-23.67	peak
6	9608.000	10.81	37.67	38.57	43.07	52.98	74.00	-21.02	peak



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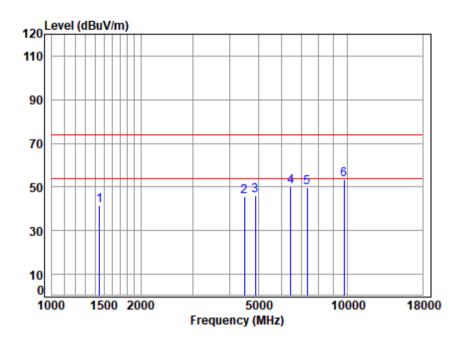
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2441 TX SE

Note : BT-L

		_								
		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		
	4447 600	2.40	25 64	40.47	F2 47	44 40	74.00	20.54		
1	1447.688	3.18	25.61	40.47	53.1/	41.49	74.00	-32.51	peak	
2	4495.125	6.76	33.59	42.55	47.64	45.44	74.00	-28.56	peak	
3	4882.000	7.18	34.06	42.82	47.50	45.92	74.00	-28.08	peak	
4	6451.353	8.28	35.55	41.98	48.50	50.35	74.00	-23.65	peak	
5	7323.000	8.85	36.16	41.52	46.04	49.53	74.00	-24.47	peak	
6	9764.000	10.76	37.76	38.34	43.23	53.41	74.00	-20.59	peak	



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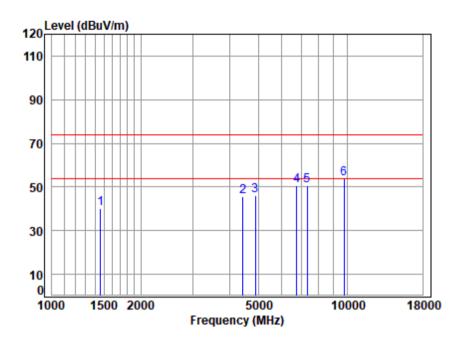
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2441 TX SE

Note : BT-L

		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	1460.295	3.20	25.65	40.48	51.86	40.23	74.00	-33.77	peak
2	4443.453	6.71	33.50	42.51	47.78	45.48	74.00	-28.52	peak
3	4882.000	7.18	34.06	42.82	47.82	46.24	74.00	-27.76	peak
4	6737.207	8.41	35.75	41.82	48.13	50.47	74.00	-23.53	peak
5	7323.000	8.85	36.16	41.52	47.35	50.84	74.00	-23.16	peak
6	9764.000	10.76	37.76	38.34	43.59	53.77	74.00	-20.23	peak



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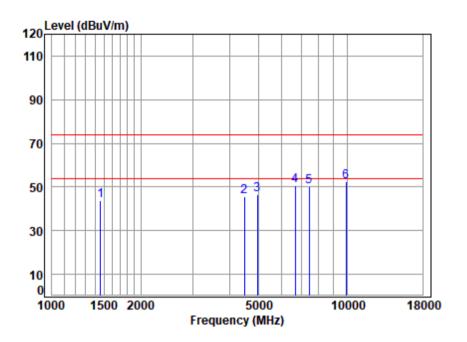
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2480 TX SE

Note : BT-L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	3.20	25.65	40.48	55.53	43.90	74.00	-30.10	peak
2	4495.125	6.76	33.59	42.55	47.87	45.67	74.00	-28.33	peak
3	4960.000	7.26	34.15	42.87	48.10	46.64	74.00	-27.36	peak
4	6679.040	8.38	35.71	41.85	48.35	50.59	74.00	-23.41	peak
5	7440.000	8.96	36.25	41.46	46.52	50.27	74.00	-23.73	peak
6	9920.000	10.71	37.85	38.12	42.22	52.66	74.00	-21.34	peak



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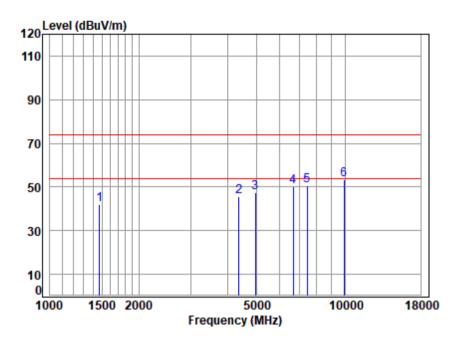
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2480 TX SE

Note : BT-L

		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	1473.013	3.22	25.70	40.49	53.71	42.14	74.00	-31.86	peak
2	4367.058	6.64	33.37	42.45	47.95	45.51	74.00	-28.49	peak
3	4960.000	7.26	34.15	42.87	49.11	47.65	74.00	-26.35	peak
4	6679.040	8.38	35.71	41.85	47.80	50.04	74.00	-23.96	peak
5	7440.000	8.96	36.25	41.46	46.76	50.51	74.00	-23.49	peak
6	9920.000	10.71	37.85	38.12	42.76	53.20	74.00	-20.80	peak



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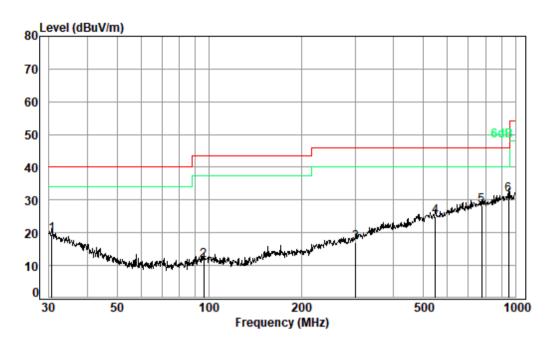
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Test Mode: 01; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 10246CR

Test Mode: 01

		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	30.64	0.61	22.51	27.73	23.93	19.32	40.00	-20.68	QP
2	96.10	1.18	13.80	27.61	24.17	11.54	43.50	-31.96	QP
3	300.37	2.00	19.11	26.87	22.81	17.05	46.00	-28.95	QP
4	547.10	2.60	25.07	27.96	25.28	24.99	46.00	-21.01	QP
5	776.88	3.21	28.07	27.77	24.65	28.16	46.00	-17.84	QP
6 рр	948.76	3.55	29.33	26.91	25.57	31.54	46.00	-14.46	QP



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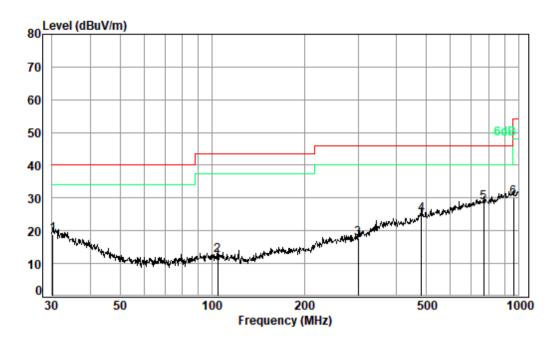
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Test Mode: 01; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 10246CR

Test Mode: 01

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	0.60	22.84	27.73	23.29	19.00	40.00	-21.00	QP
2	104.17								_
3	299.32	2.00	19.05	26.87	23.51	17.69	46.00	-28.31	QP
4	482.22	2.47	24.30	27.73	25.99	25.03	46.00	-20.97	QP
5 pp									_
6	965.54	3.57	29.50	26.83	23.87	30.11	54.00	-23.89	OP



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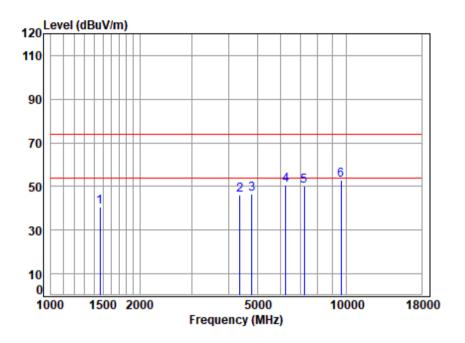
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2402 TX SE

Note : BT-R

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1464.522	3.21	25.67	40.48	52.10	40.50	74.00	-33.50	peak	
2	4367.058	6.64	33.37	42.45	48.43	45.99	74.00	-28.01	peak	
3	4804.000	7.10	33.97	42.77	48.27	46.57	74.00	-27.43	peak	
4	6249.464	8.27	35.35	42.09	49.04	50.57	74.00	-23.43	peak	
5	7206.000	8.74	36.07	41.58	47.11	50.34	74.00	-23.66	peak	
6	9608.000	10.81	37.67	38.57	43.22	53.13	74.00	-20.87	peak	



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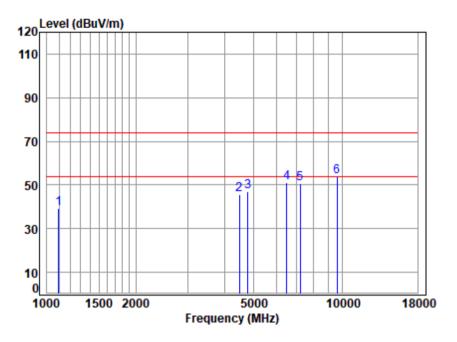
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2402 TX SE

Note : BT-R

		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	1096.904	2.57	24.10	40.19	52.57	39.05	74.00	-34.95	peak	
2	4495.125	6.76	33.59	42.55	47.70	45.50	74.00	-28.50	peak	
3	4804.000	7.10	33.97	42.77	48.50	46.80	74.00	-27.20	peak	
4	6488.754	8.28	35.59	41.96	48.99	50.90	74.00	-23.10	peak	
5	7206.000	8.74	36.07	41.58	47.51	50.74	74.00	-23.26	peak	
6	9608.000	10.81	37.67	38.57	43.85	53.76	74.00	-20.24	peak	



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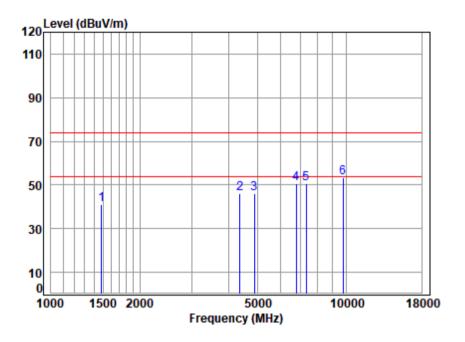
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2441 TX SE

Note : BT-R

	Freq			Preamp Factor			Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1481.553	3.23	25.73	40.49	52.49	40.96	74.00	-33.04	peak
2	4367.058	6.64	33.37	42.45	48.52	46.08	74.00	-27.92	peak
3	4882.000	7.18	34.06	42.82	47.79	46.21	74.00	-27.79	peak
4	6776.265	8.43	35.77	41.80	48.31	50.71	74.00	-23.29	peak
5	7323.000	8.85	36.16	41.52	47.24	50.73	74.00	-23.27	peak
6	9764.000	10.76	37.76	38.34	43.29	53.47	74.00	-20.53	peak



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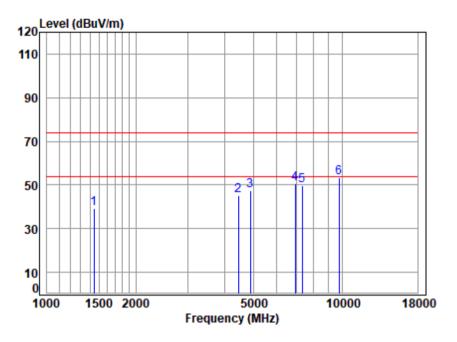
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2441 TX SE

: BT-R Note

		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	1443.509	3.17	25.59	40.47	51.08	39.37	74.00	-34.63	peak
2	4456.315	6.72	33.53	42.52	47.53	45.26	74.00	-28.74	peak
3	4882.000	7.18	34.06	42.82	49.07	47.49	74.00	-26.51	peak
4	6934.778	8.51	35.86	41.72	47.78	50.43	74.00	-23.57	peak
5	7323.000	8.85	36.16	41.52	46.28	49.77	74.00	-24.23	peak
6	9764.000	10.76	37.76	38.34	43.24	53.42	74.00	-20.58	peak



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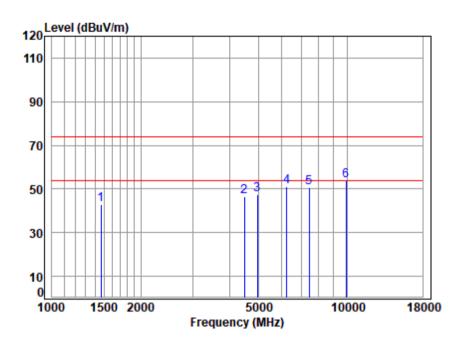
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 10246CR Mode : 2480 TX SE

Note : BT-R

		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	1464.522	3.21	25.67	40.48	54.41	42.81	74.00	-31.19	peak
2	4495.125	6.76	33.59	42.55	48.53	46.33	74.00	-27.67	peak
3	4960.000	7.26	34.15	42.87	48.72	47.26	74.00	-26.74	peak
4	6249.464	8.27	35.35	42.09	49.42	50.95	74.00	-23.05	peak
5	7440.000	8.96	36.25	41.46	46.82	50.57	74.00	-23.43	peak
6	9920.000	10.71	37.85	38.12	43.19	53.63	74.00	-20.37	peak



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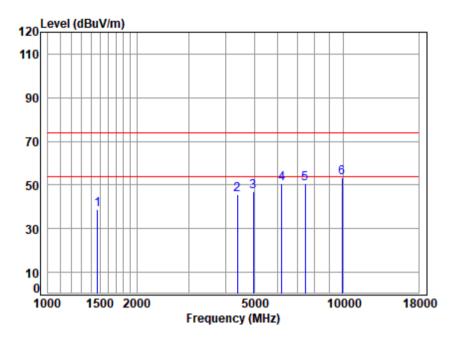
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 10246CR Mode : 2480 TX SE

Note : BT-R

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1473.013	3.22	25.70	40.49	50.38	38.81	74.00	-35.19	peak
2	4379.699	6.65	33.39	42.46	48.20	45.78	74.00	-28.22	peak
3	4960.000	7.26	34.15	42.87	48.27	46.81	74.00	-27.19	peak
4	6195.508	8.27	35.30	42.12	49.05	50.50	74.00	-23.50	peak
5	7440.000	8.96	36.25	41.46	46.75	50.50	74.00	-23.50	peak
6	9920.000	10.71	37.85	38.12	43.04	53.48	74.00	-20.52	peak



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Test Setup Photo 8

Please Refer to external and internal photos for details.

EUT Constructional Details (EUT Photos) 9

Please refer to setup photos.



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10 Appendix

Appendix for 15.247-Left earphone

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth Test Result (MHz)	Verdict
	2402	SISO	1	1.050	PASS
GFSK	2441	SISO	1	1.046	PASS
	2480	SISO	1	1.039	PASS
	2402	SISO	1	1.188	PASS
Pi/4DQPSK	2441	SISO	1	1.186	PASS
	2480	SISO	1	1.232	PASS
	2402	SISO	1	1.205	PASS
8DPSK	2441	SISO	1	1.208	PASS
	2480	SISO	1	1.251	PASS



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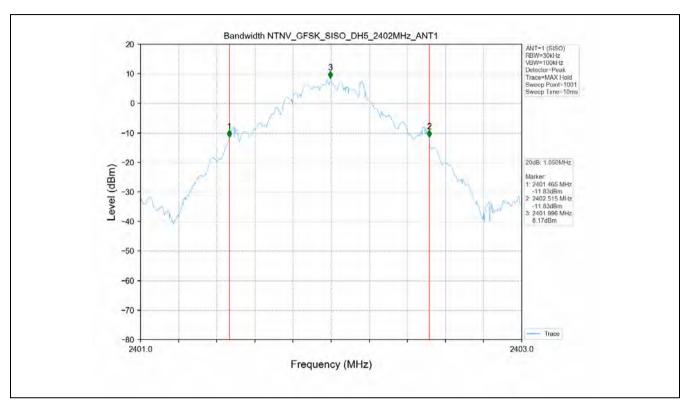
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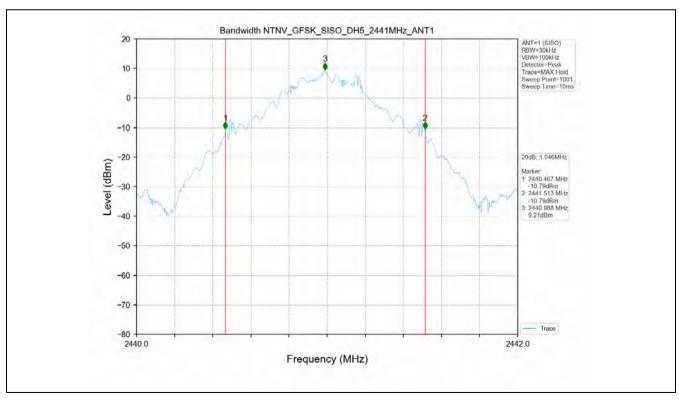


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1.2 Test Graph - 20dB Bandwidth







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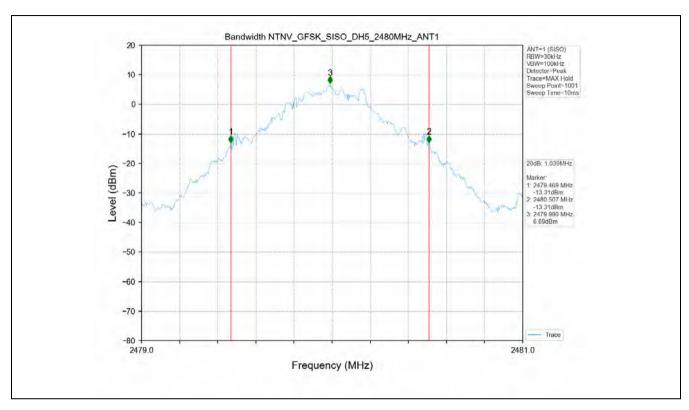
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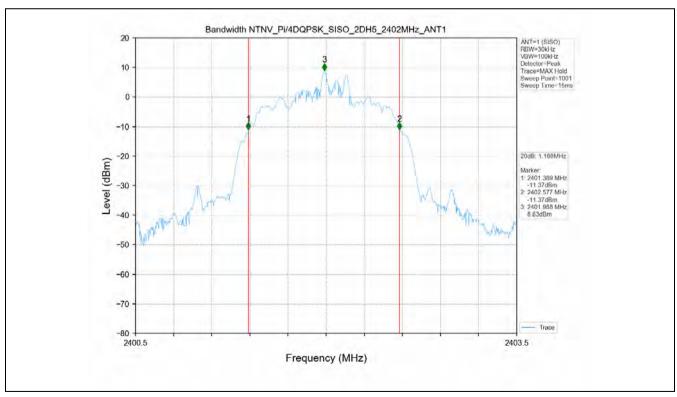
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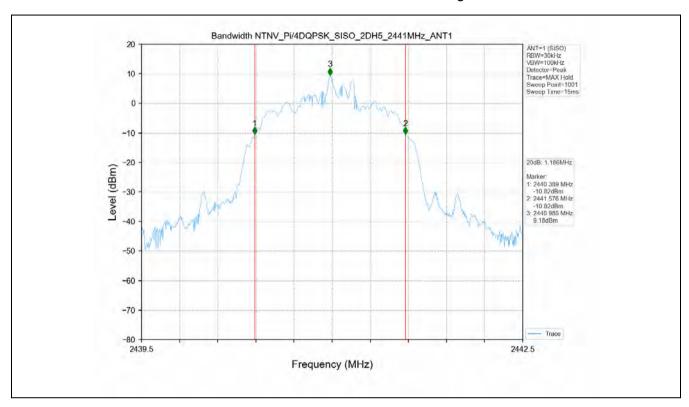
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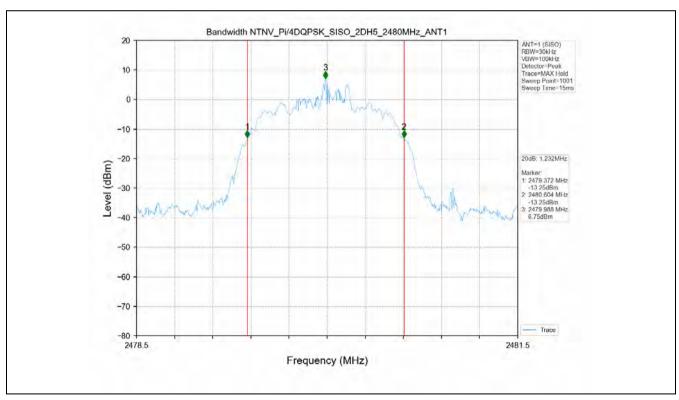
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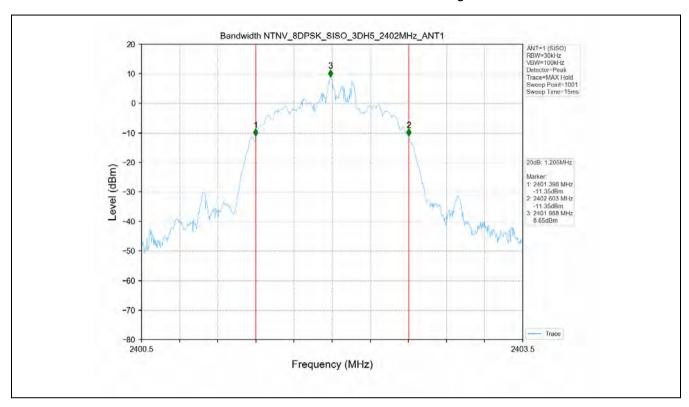
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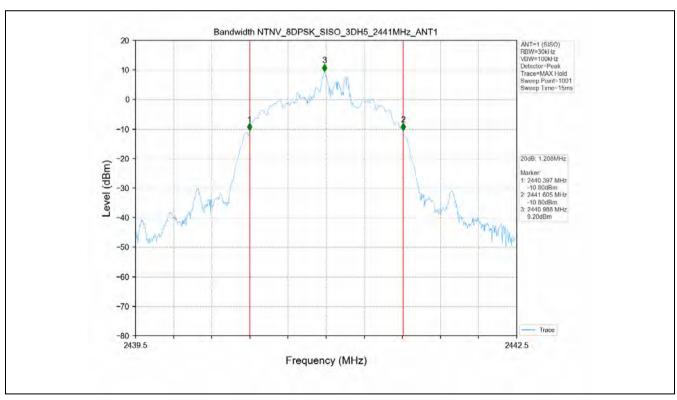
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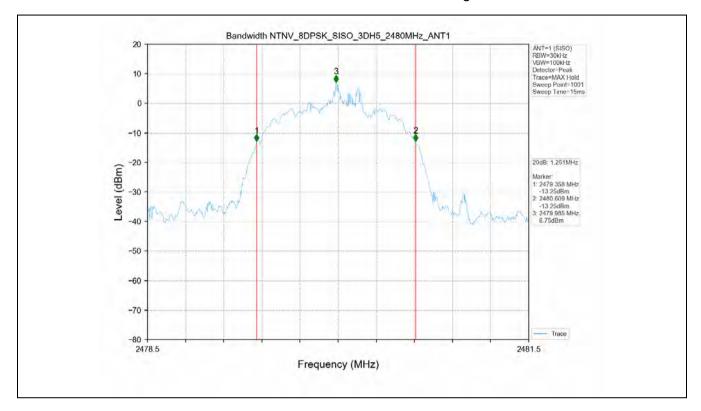
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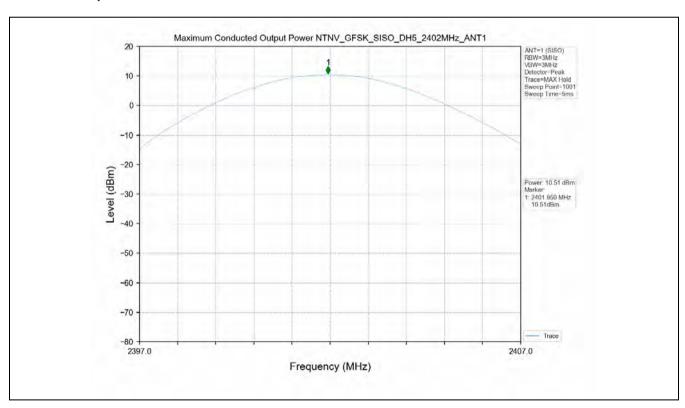
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	10.51	20.97	PASS
GFSK	2441	SISO	11.04	20.97	PASS
	2480	SISO	8.41	20.97	PASS
	2402	SISO	10.49	20.97	PASS
Pi/4DQPSK	2441	SISO	11.02	20.97	PASS
	2480	SISO	8.43	20.97	PASS
	2402	SISO	10.51	20.97	PASS
8DPSK	2441	SISO	11.08	20.97	PASS
	2480	SISO	8.43	20.97	PASS

2.2 Test Graph





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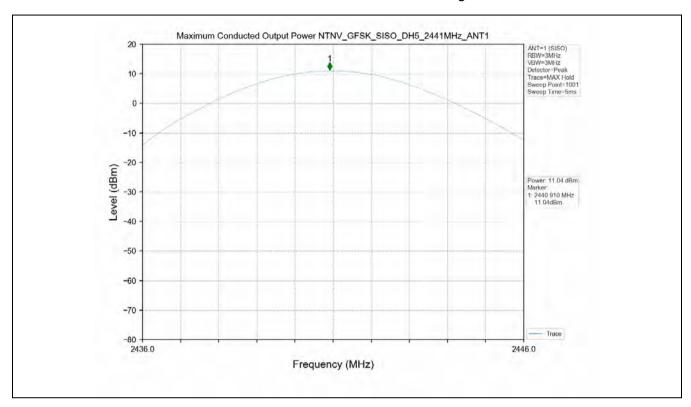
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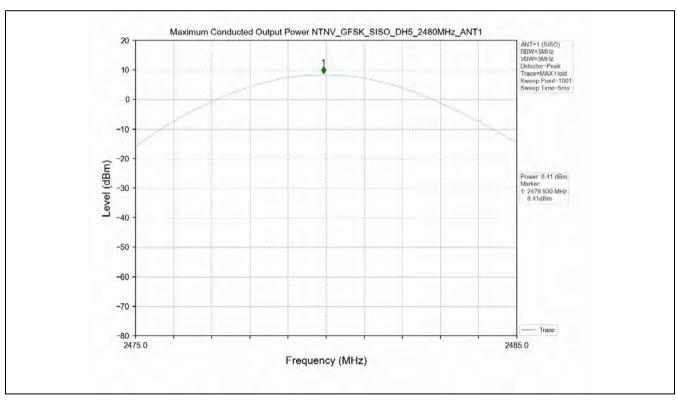
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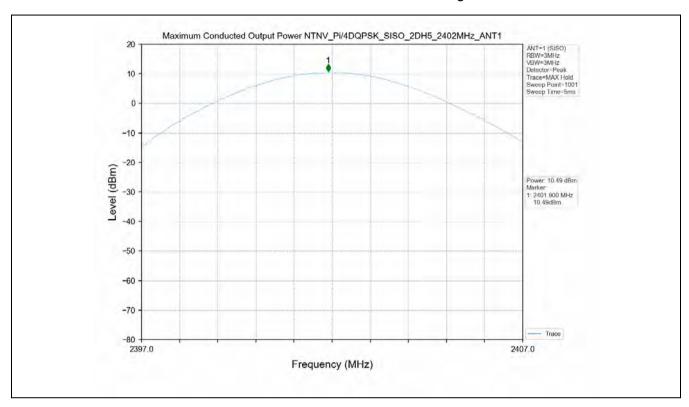
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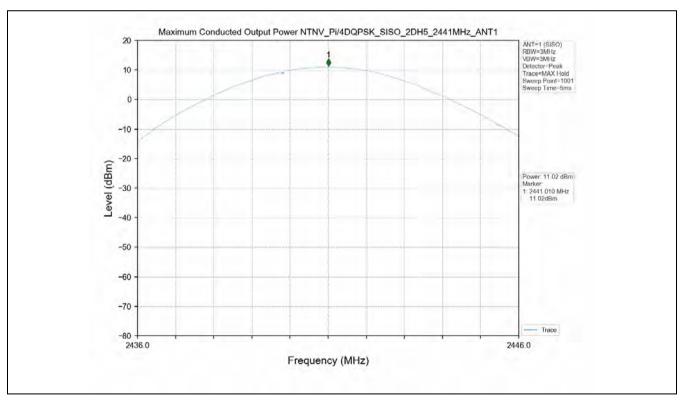
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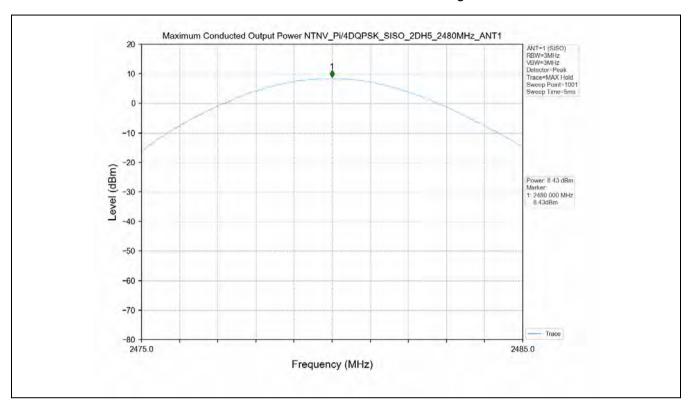
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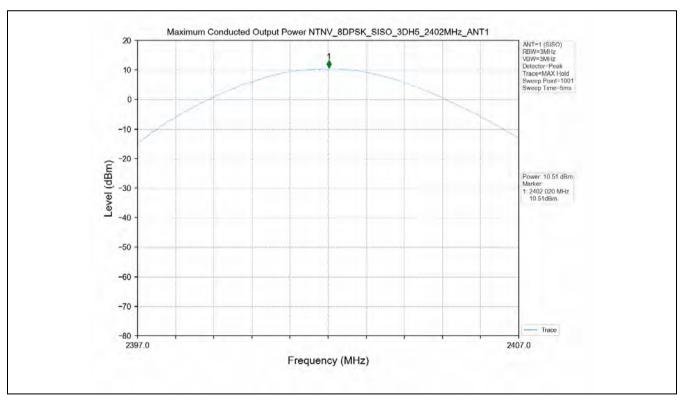
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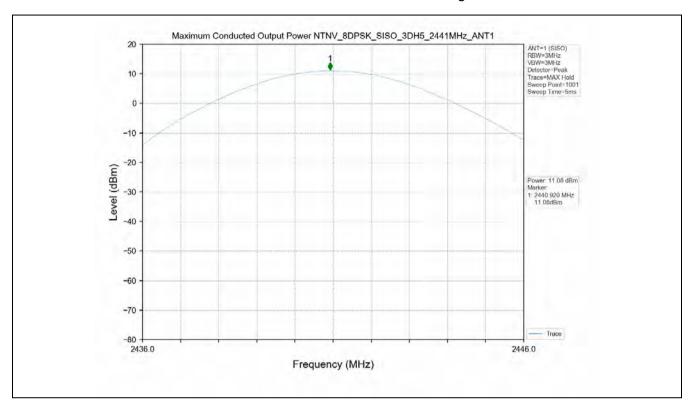
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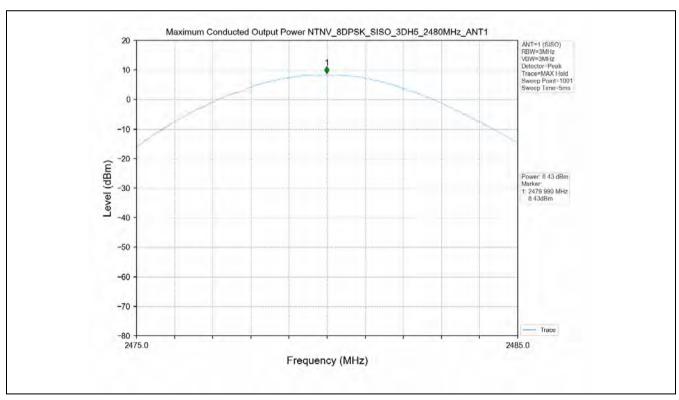
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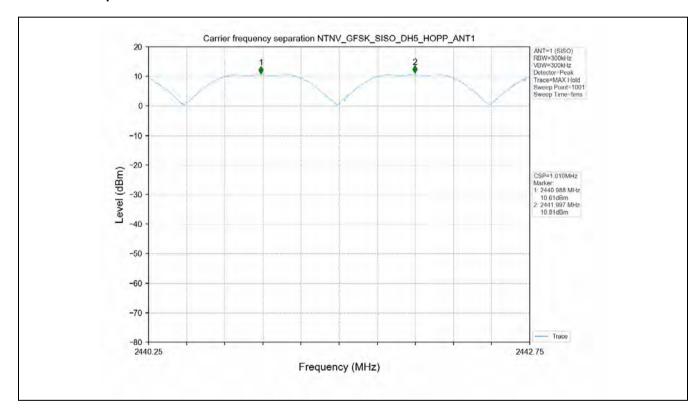
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.010	1.050	≥0.700	PASS
Pi/4DQPSK	SISO	1	1.014	1.232	≥0.821	PASS
8DPSK	SISO	1	1.002	1.251	≥0.834	PASS

3.2 Test Graph





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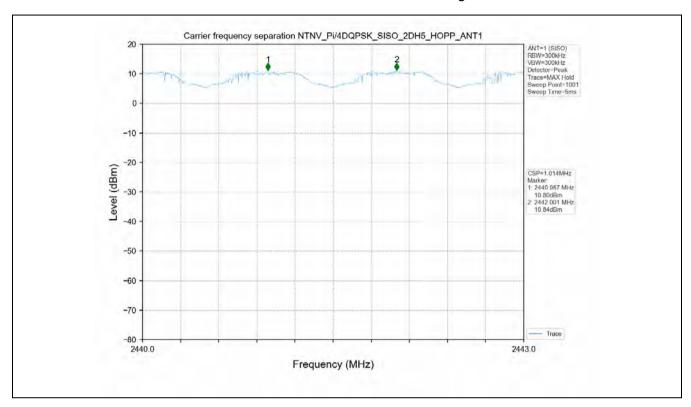
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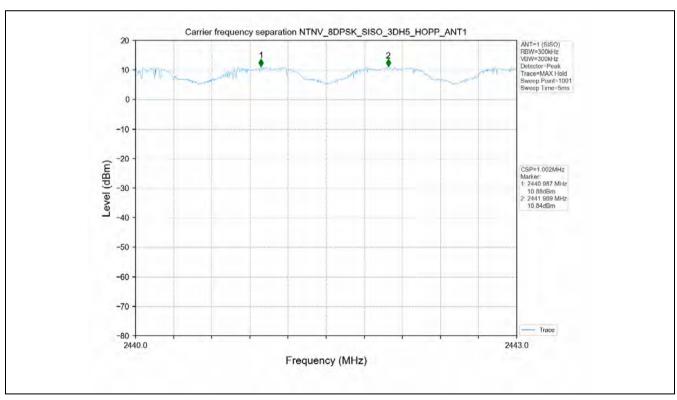
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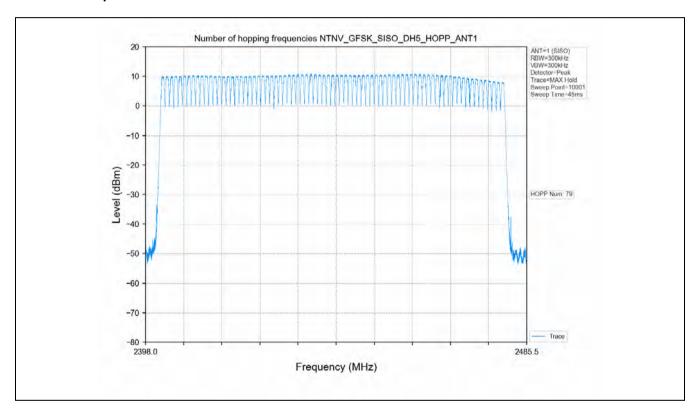
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4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph





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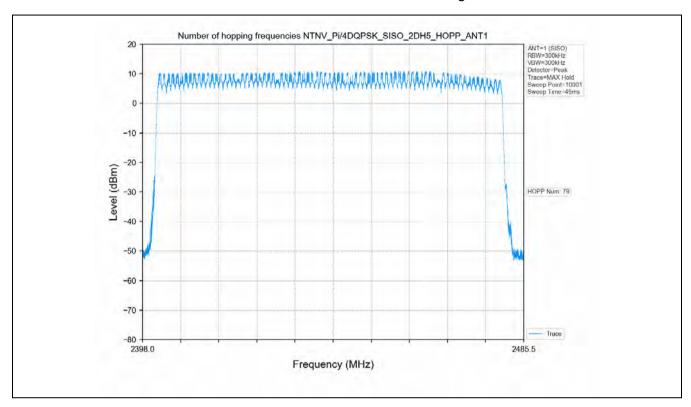
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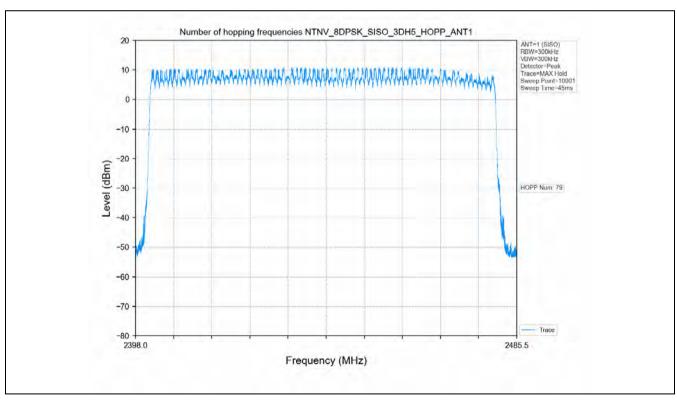
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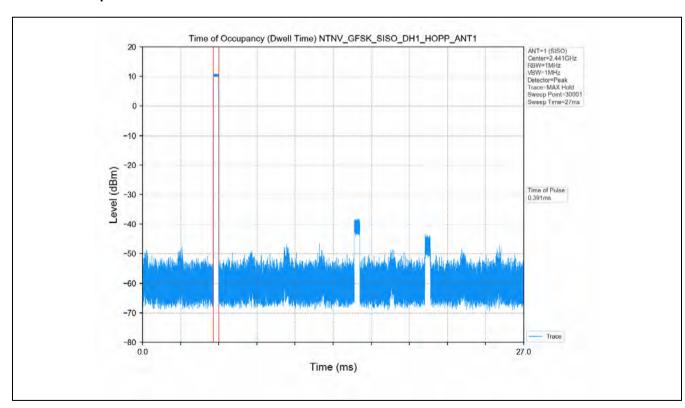
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANI	Duration of Single Pulse (ms)	ation	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.391	31.6	168	65.688	≤400	PASS
	DH3	SISO	1	1.646	31.6	119	195.874	≤400	PASS
	DH5	SISO	1	2.899	31.6	78	226.122	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.405	31.6	160	64.800	≤400	PASS
	2DH3	SISO	1	1.655	31.6	109	180.395	≤400	PASS
	2DH5	SISO	1	2.903	31.6	83	240.949	≤400	PASS
8DPSK	3DH1	SISO	1	0.405	31.6	164	66.420	≤400	PASS
	3DH3	SISO	1	1.656	31.6	111	183.816	≤400	PASS
	3DH5	SISO	1	2.907	31.6	85	247.095	≤400	PASS

5.2 Test Graph





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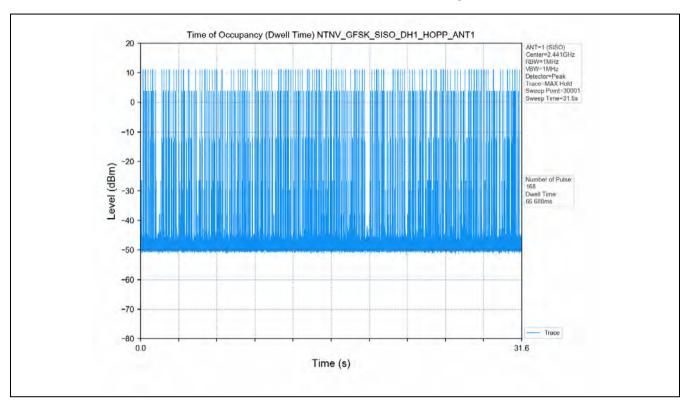
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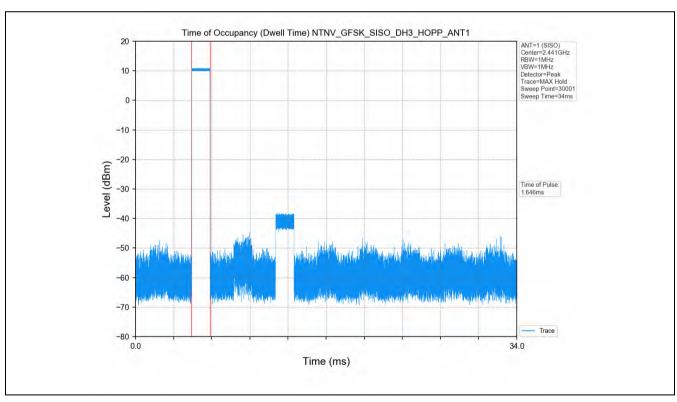
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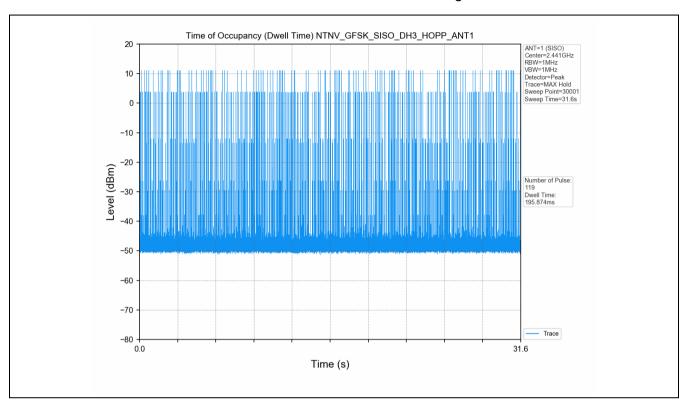
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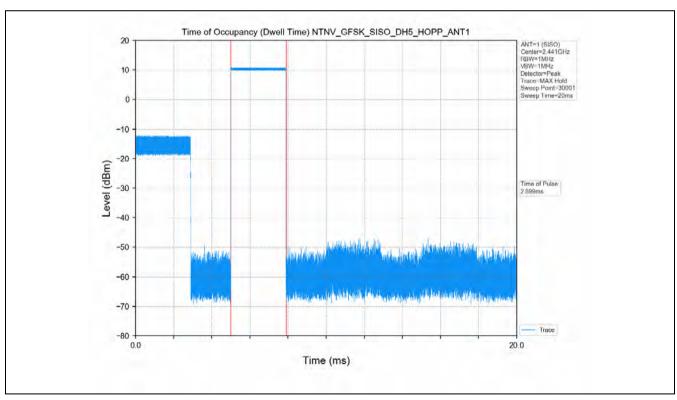
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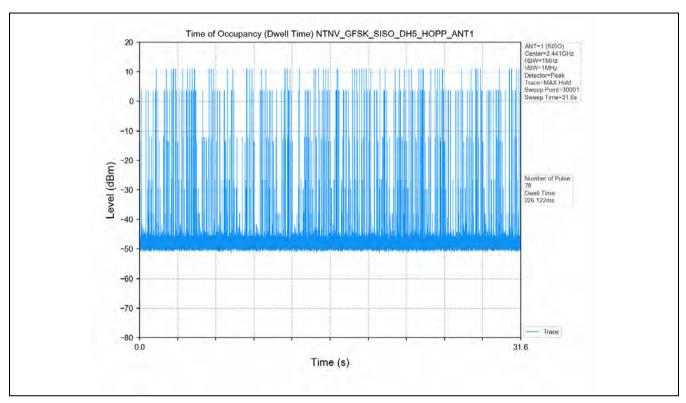
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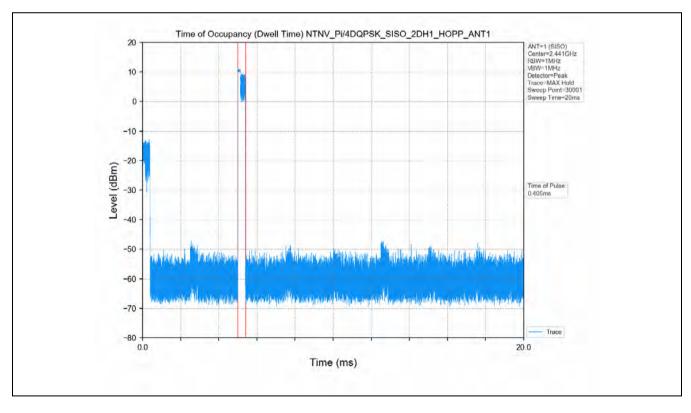
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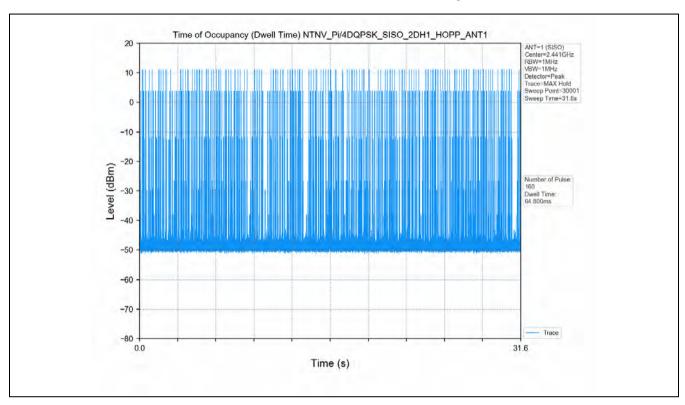
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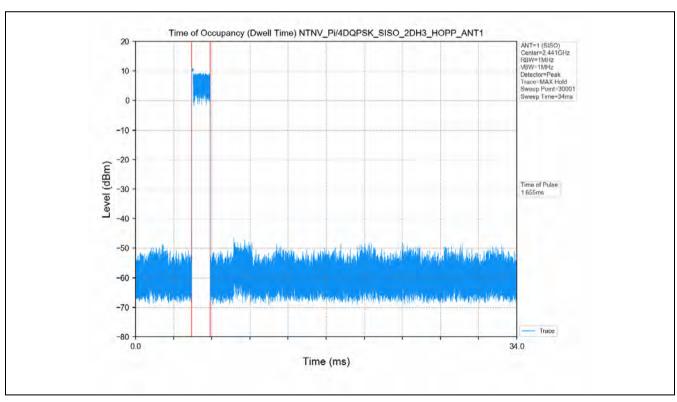
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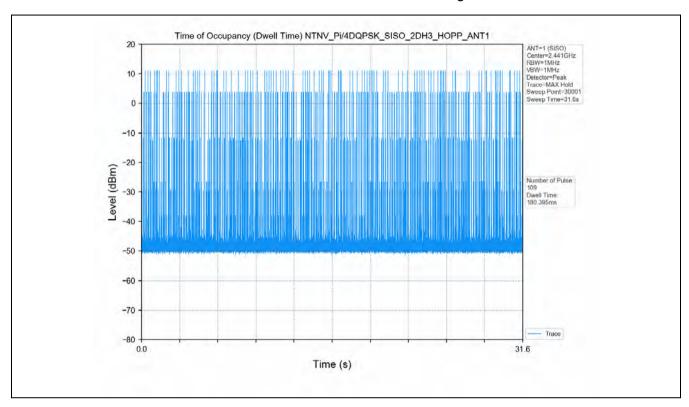
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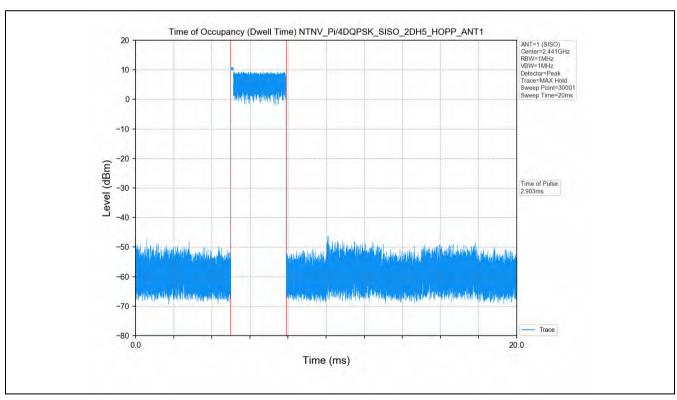
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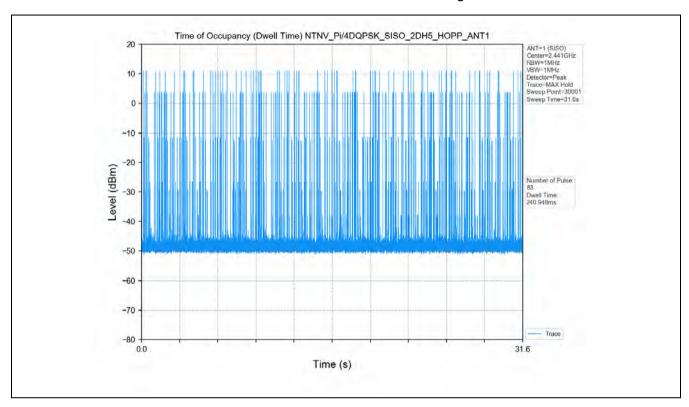
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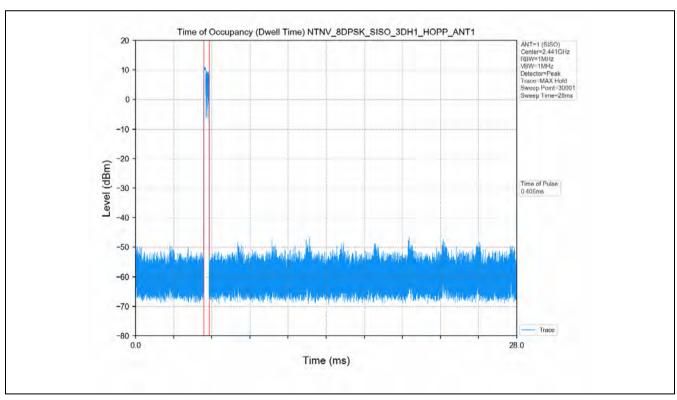
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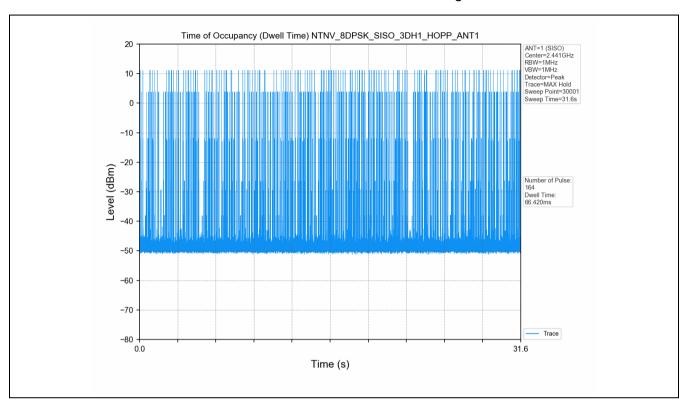
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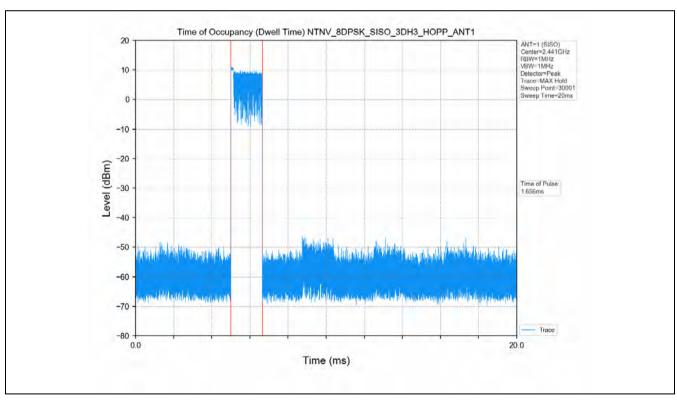
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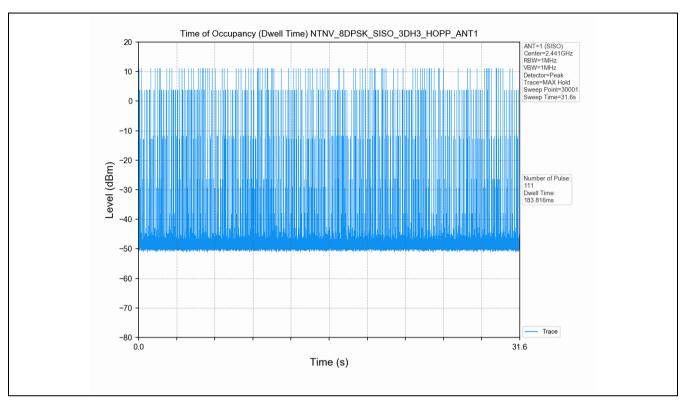
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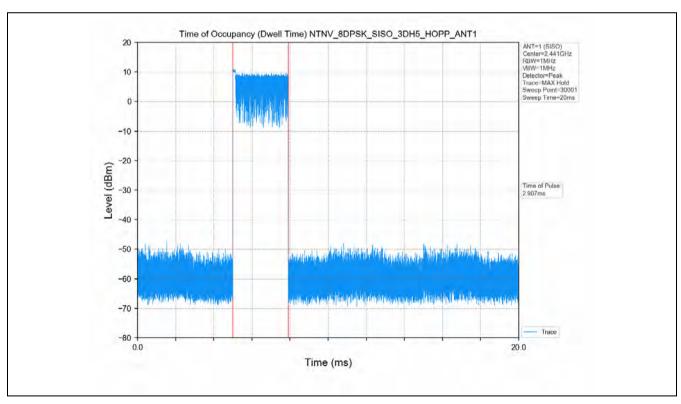
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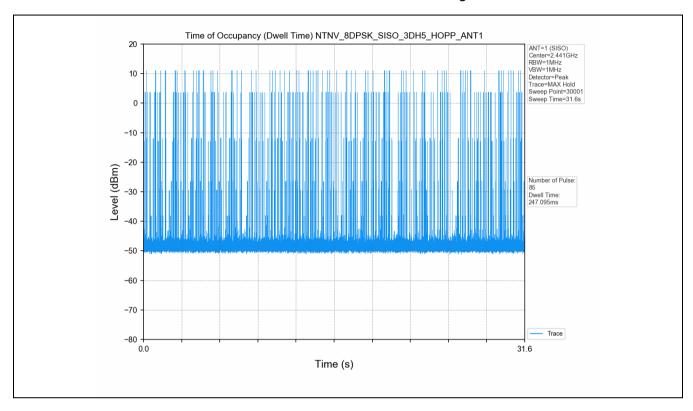
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-9.57	PASS
OFOK	2441	SISO	1	Refer to test graph	-9.57	PASS
GFSK	2480	SISO	1	Refer to test graph	-9.57	PASS
	Hopping	SISO	1	Refer to test graph	-9.57	PASS
	2402	SISO	1	Refer to test graph	-9.75	PASS
D://DODCK	2441	SISO	1	Refer to test graph	-9.75	PASS
Pi/4DQPSK	2480	SISO	1	Refer to test graph	-9.75	PASS
	Hopping	SISO	1	Refer to test graph	-9.75	PASS
	2402	SISO	1	Refer to test graph	-9.56	PASS
8DPSK	2441	SISO	1	Refer to test graph	-9.56	PASS
	2480	SISO	1	Refer to test graph	-9.56	PASS
	Hopping	SISO	1	Refer to test graph	-9.56	PASS



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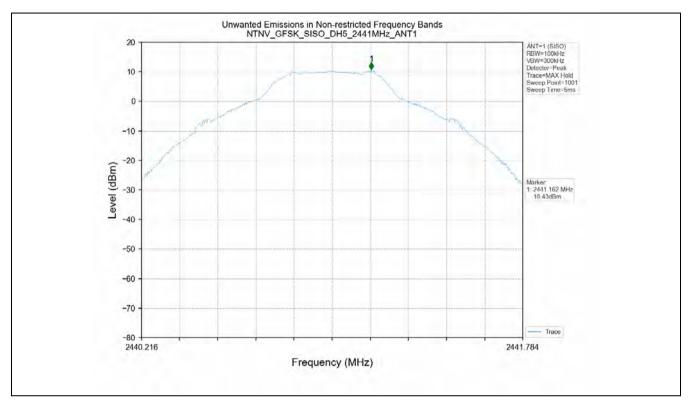
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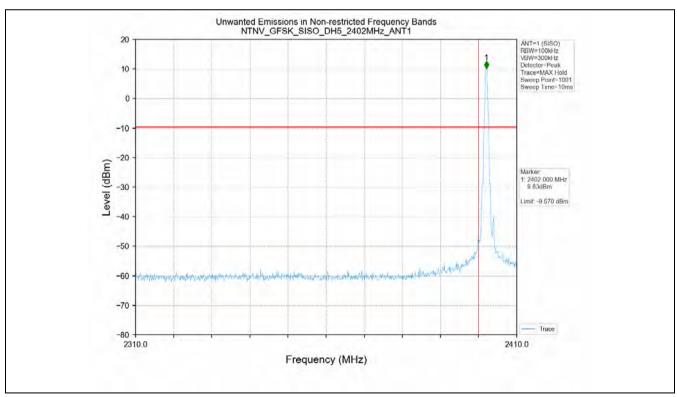


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6.2 Test Graph







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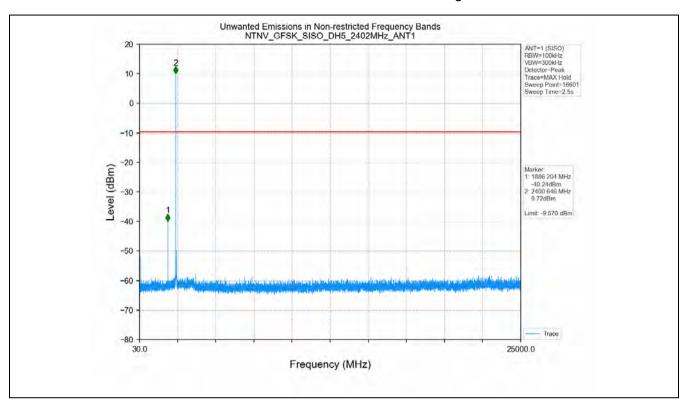
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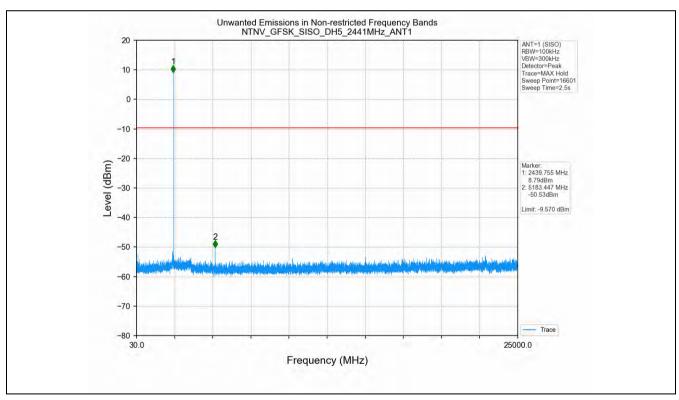
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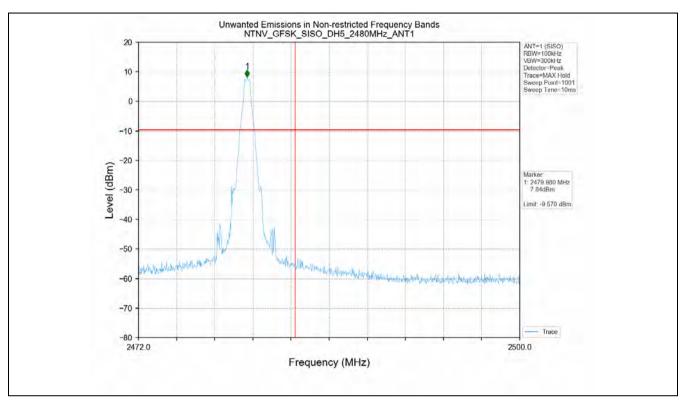
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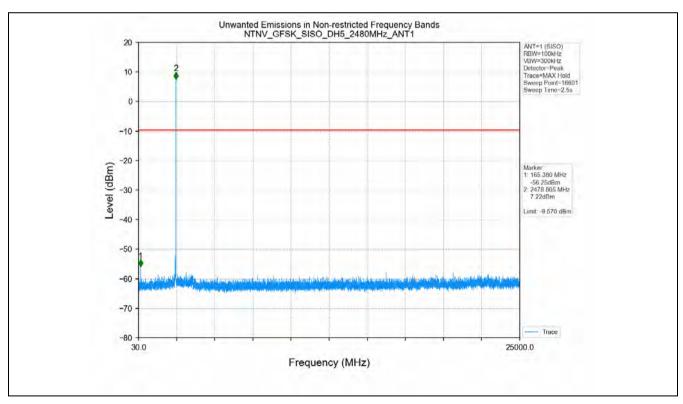
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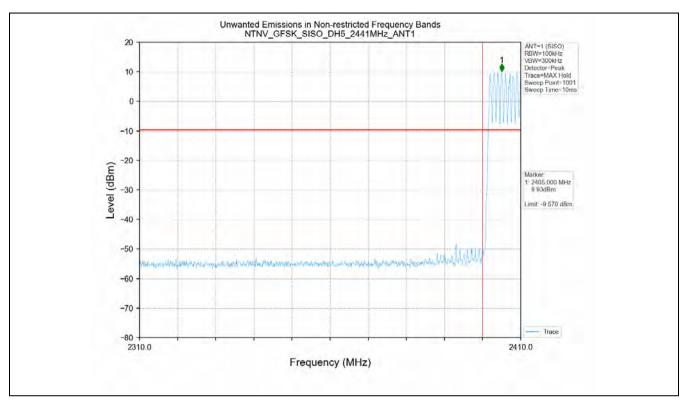
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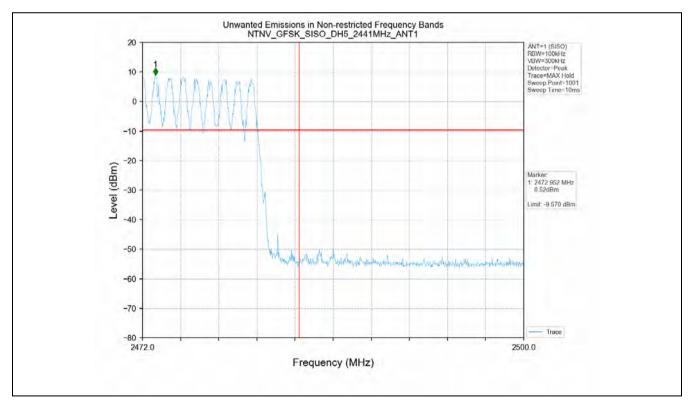
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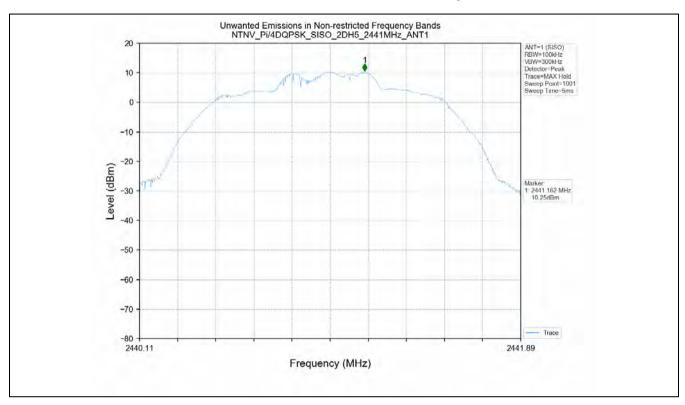
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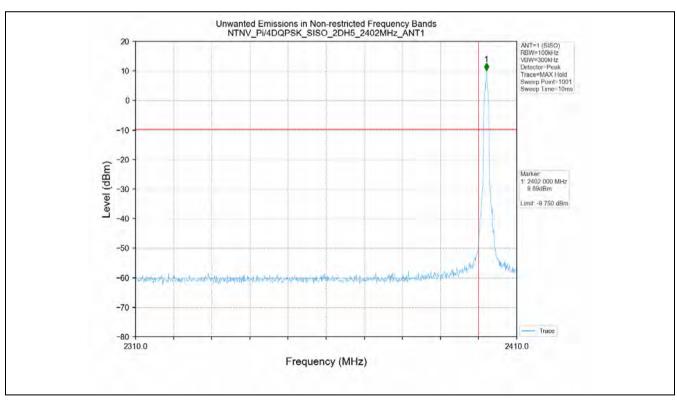
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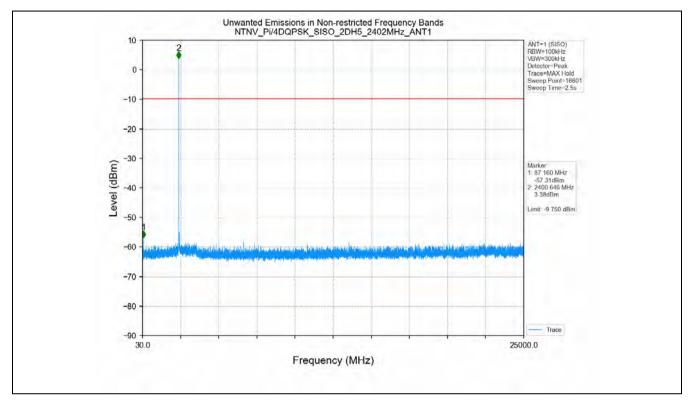
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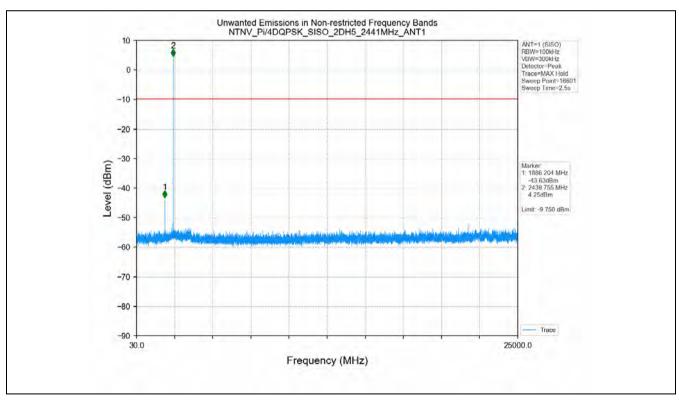
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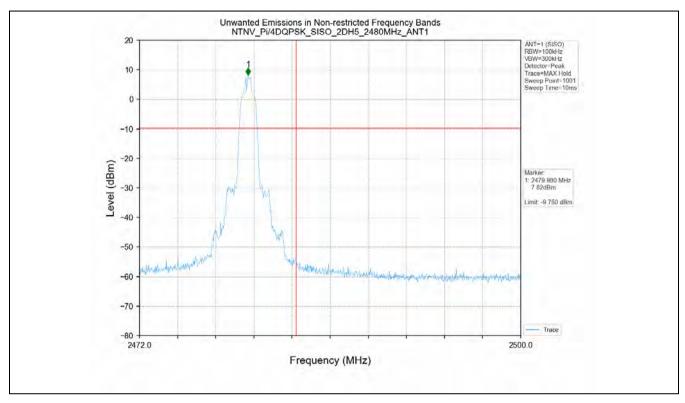
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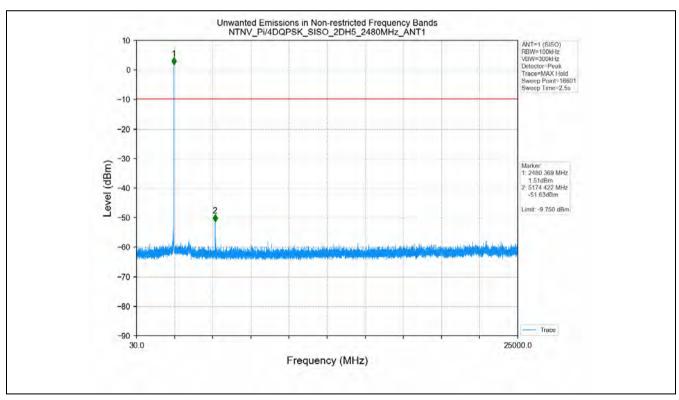
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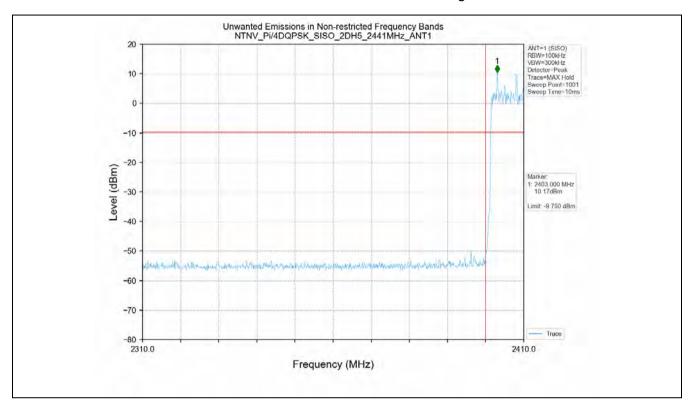
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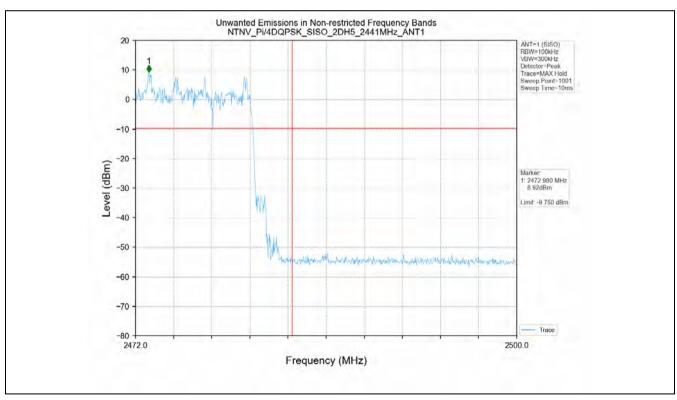
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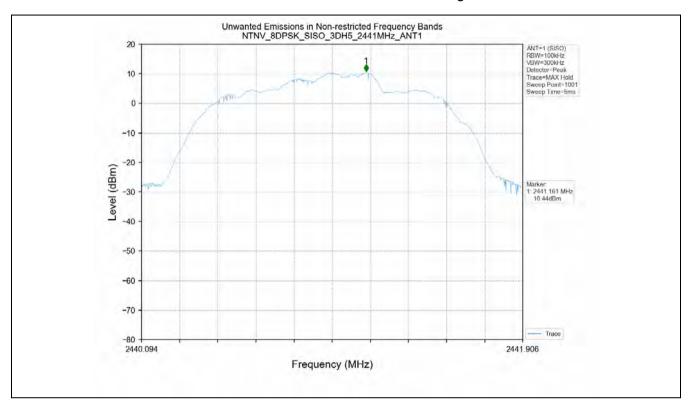
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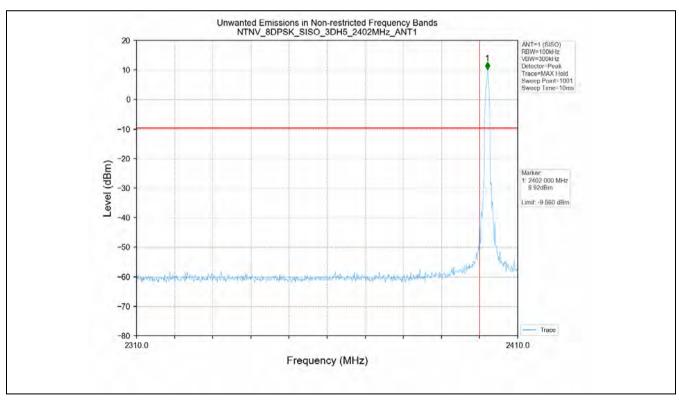
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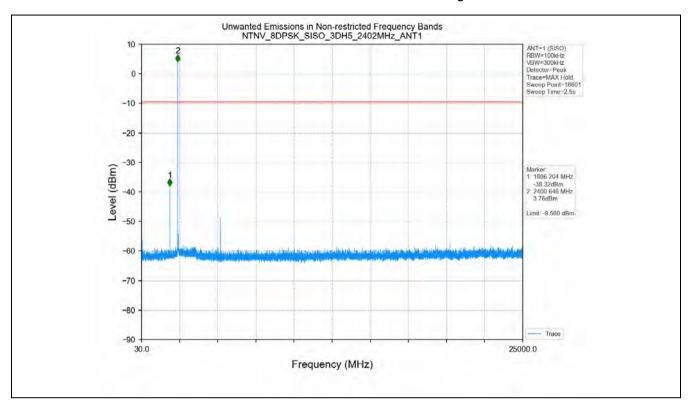
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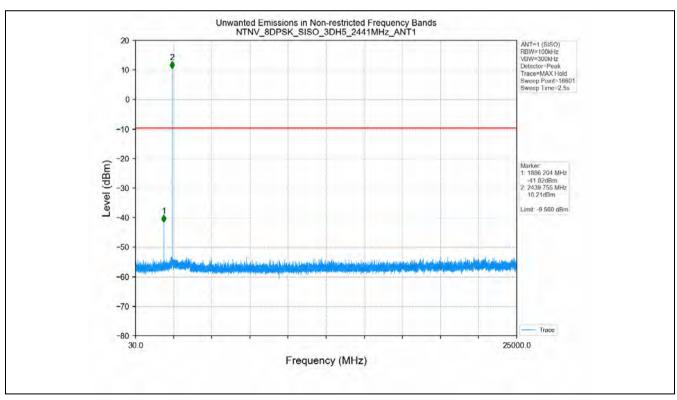
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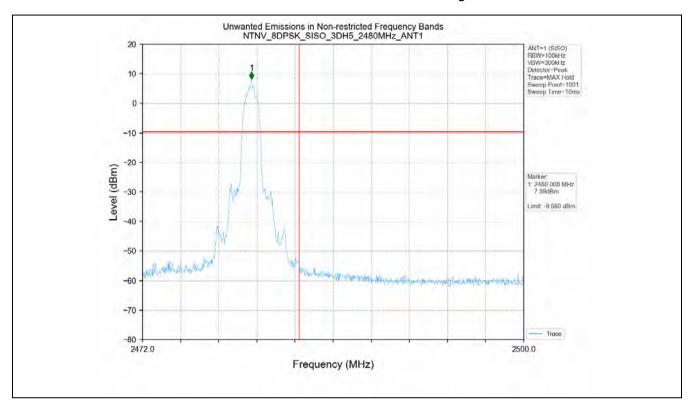
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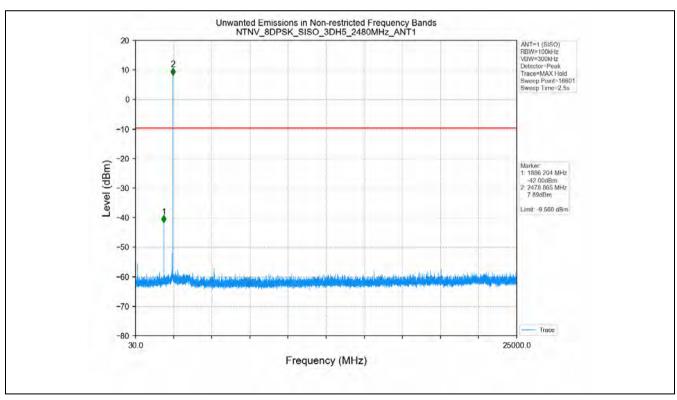
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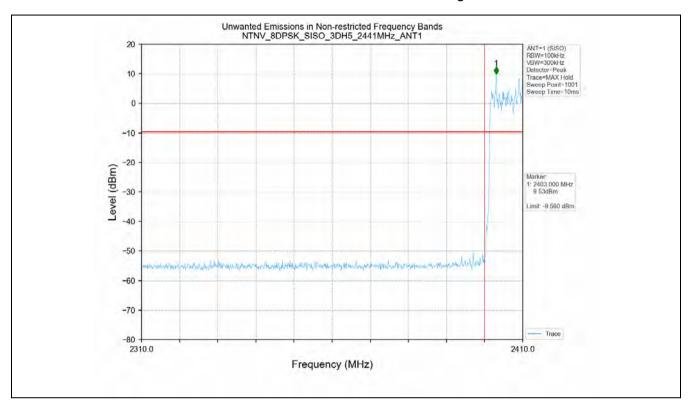
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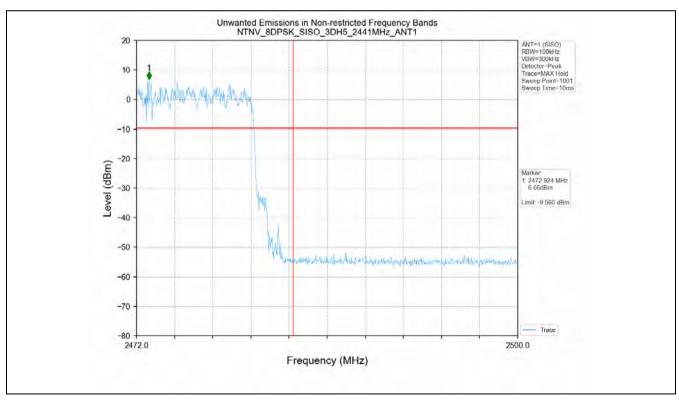
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Appendix for 15.247-Right earphone

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANIT NIA	20dB Bandwidth	Verdict
rest Mode			ANT No.	Test Result (MHz)	verdict
	2402	SISO	1	1.042	PASS
GFSK	2441	SISO	1	1.039	PASS
	2480	SISO	1	1.044	PASS
Pi/4DQPSK	2402	SISO	1	1.186	PASS
	2441	SISO	1	1.185	PASS
	2480	SISO	1	1.229	PASS
	2402	SISO	1	1.205	PASS
8DPSK	2441	SISO	1	1.202	PASS
	2480	SISO	1	1.250	PASS

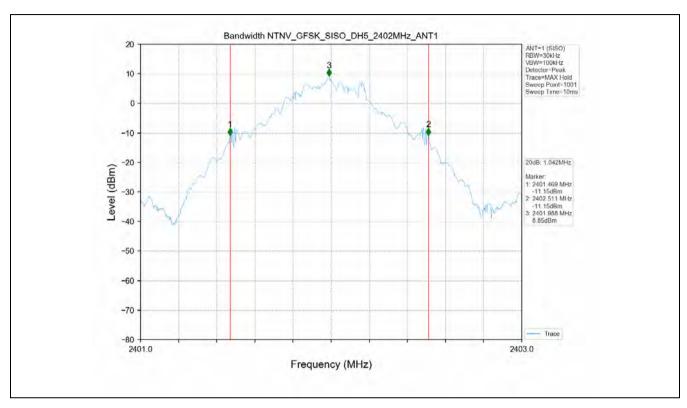


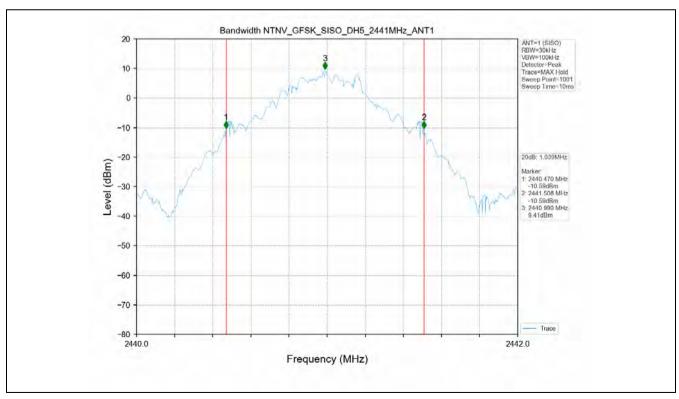


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1.2 Test Graph - 20dB Bandwidth







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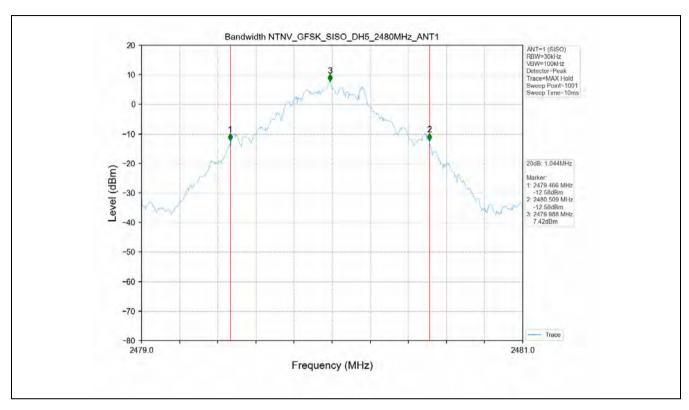
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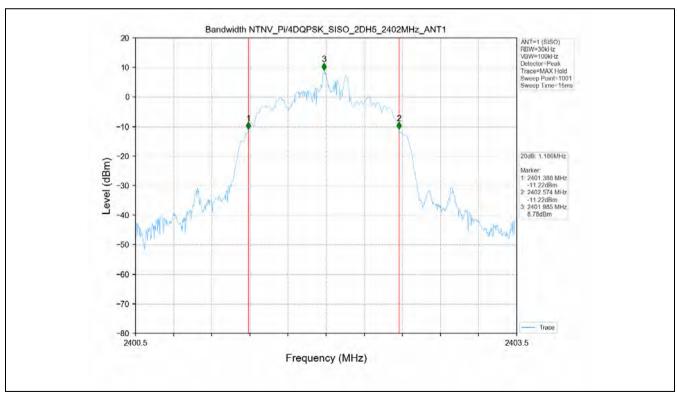
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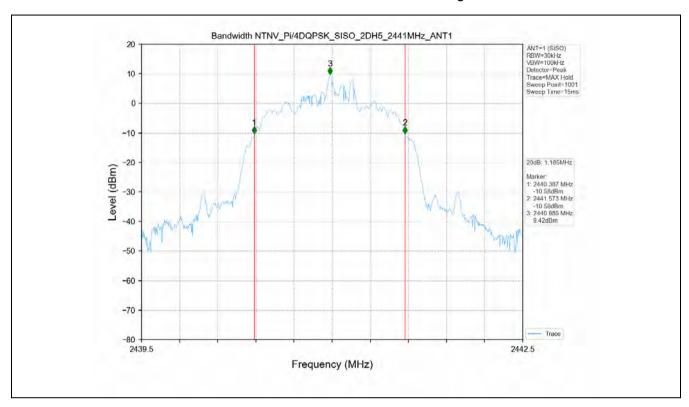
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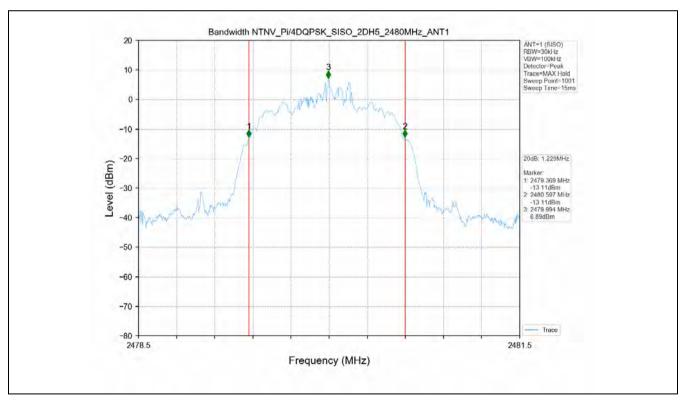
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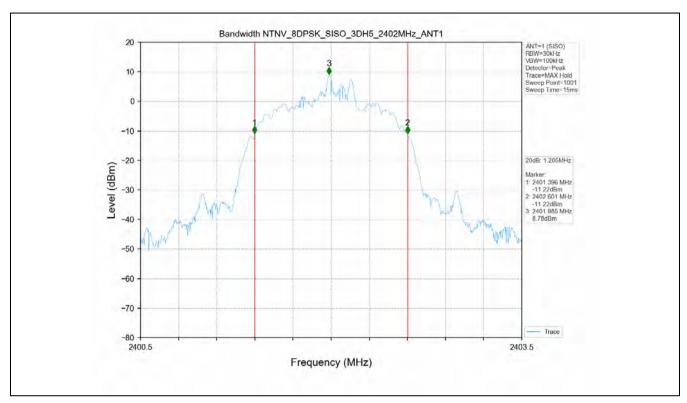
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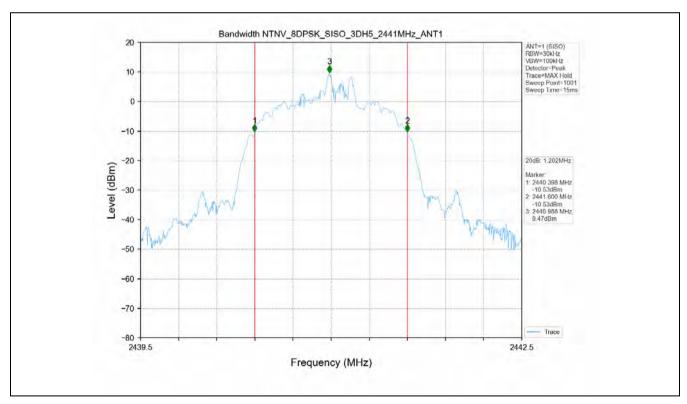
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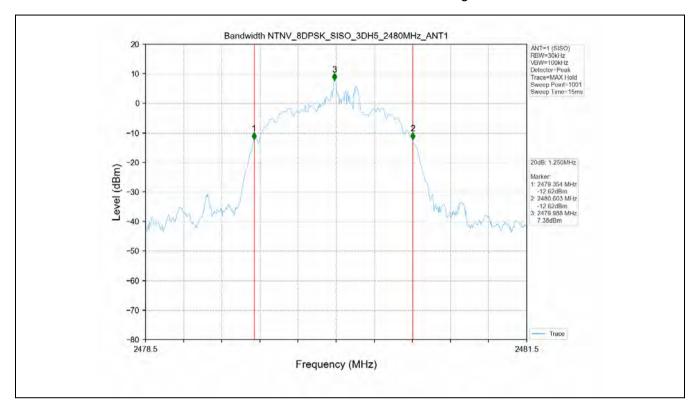
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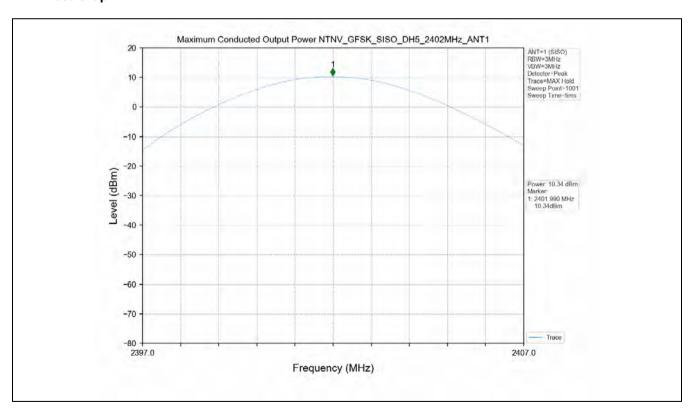
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(IVITZ)		Ant 1			
	2402	SISO	10.34	20.97	PASS	
GFSK	2441	SISO	10.91	20.97	PASS	
	2480	SISO	8.77	20.97	PASS	
	2402	SISO	10.30	20.97	PASS	
Pi/4DQPSK	2441	SISO	10.89	20.97	PASS	
	2480	SISO	8.78	20.97	PASS	
8DPSK	2402	SISO	10.29	20.97	PASS	
	2441	SISO	10.91	20.97	PASS	
	2480	SISO	8.78	20.97	PASS	

2.2 Test Graph





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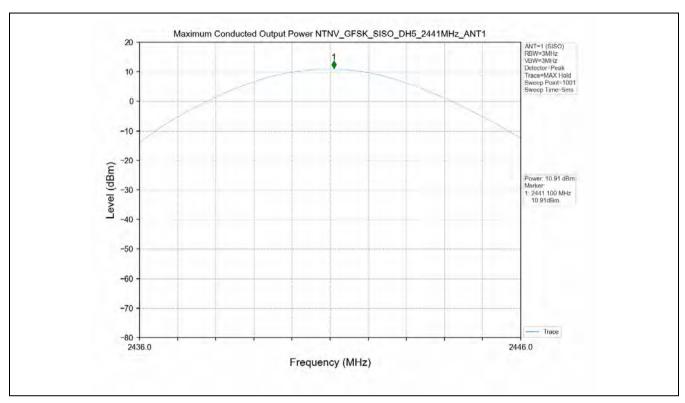
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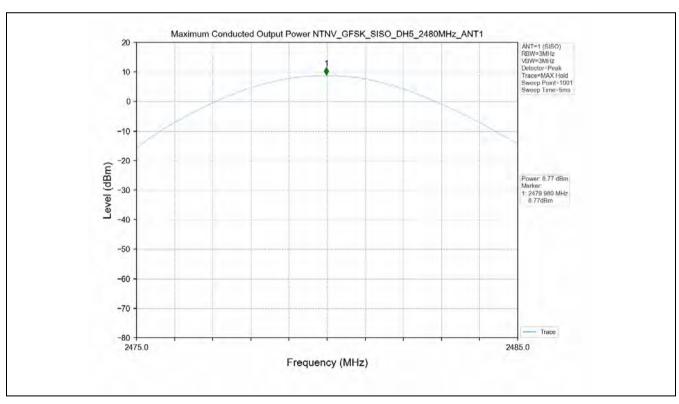
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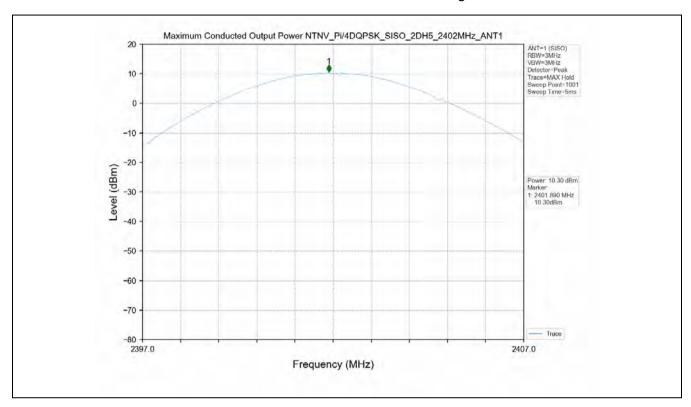
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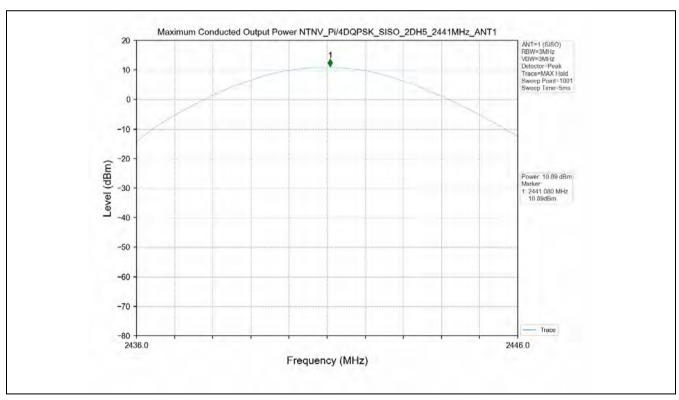
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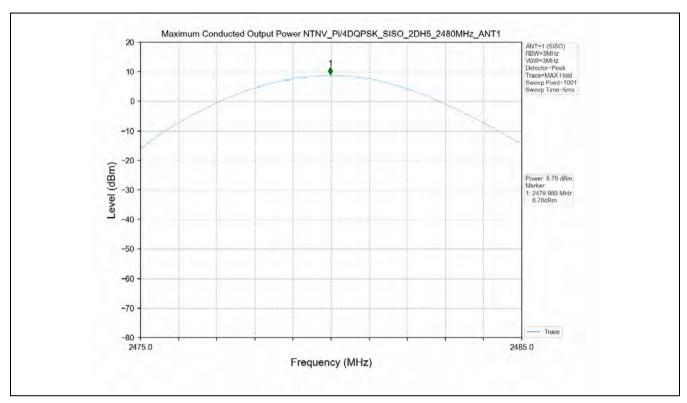
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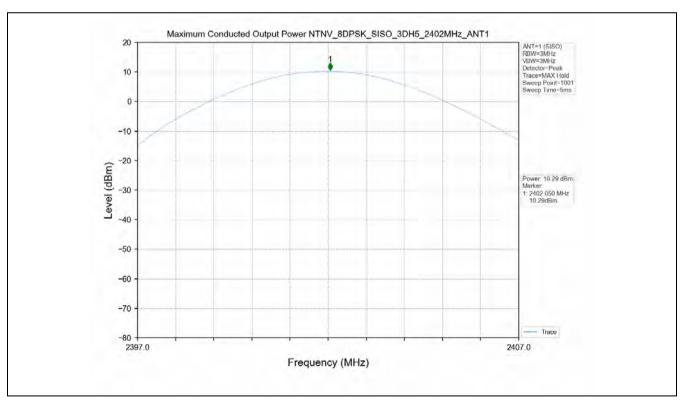
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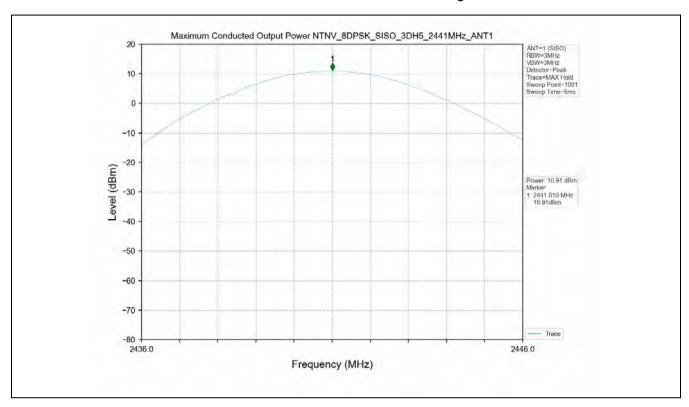
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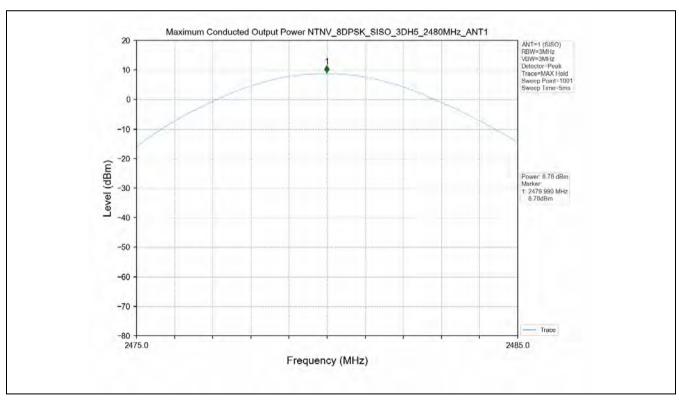
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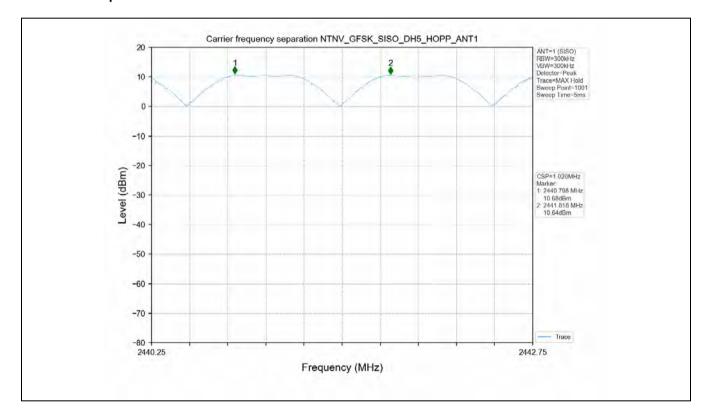
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3. Carrier frequency separation

3.1 Test Result

Test Mode	ТХ Туре	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.020	1.044	≥0.696	PASS
Pi/4DQPSK	SISO	1	1.008	1.229	≥0.819	PASS
8DPSK	SISO	1	1.011	1.250	≥0.833	PASS

3.2 Test Graph





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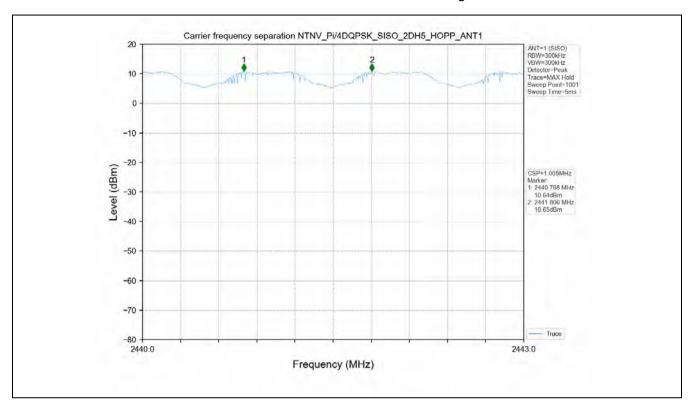
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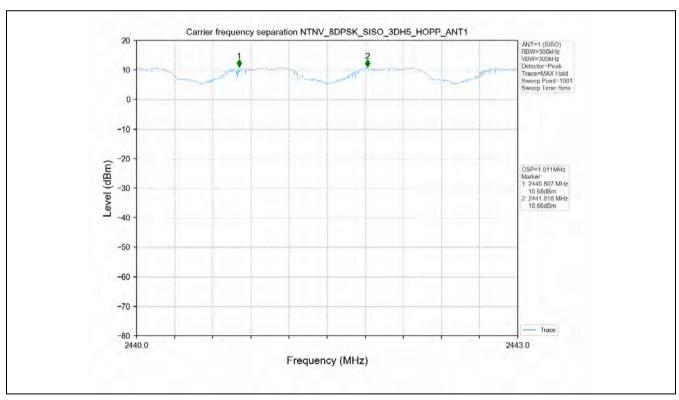
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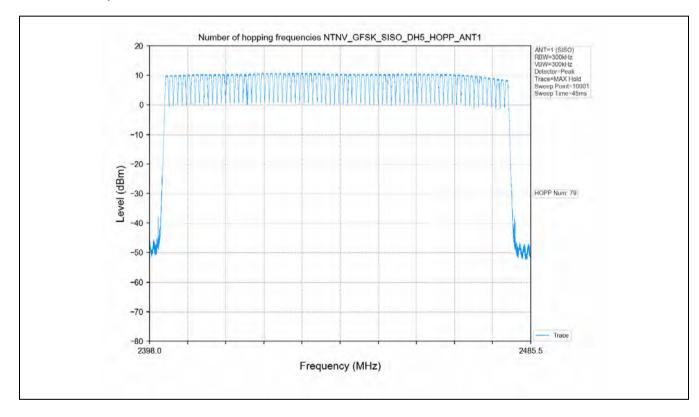
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4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type ANT No.		Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph





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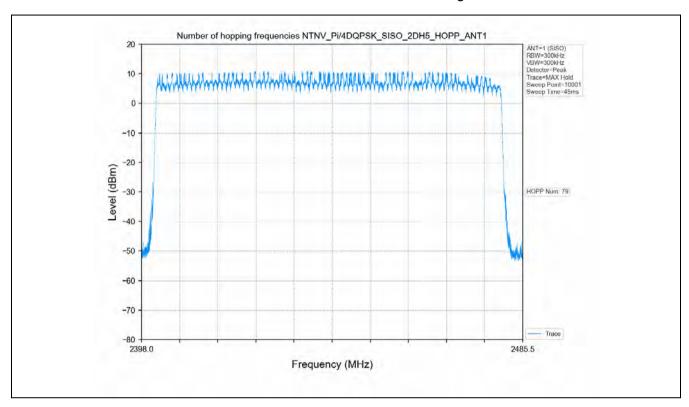
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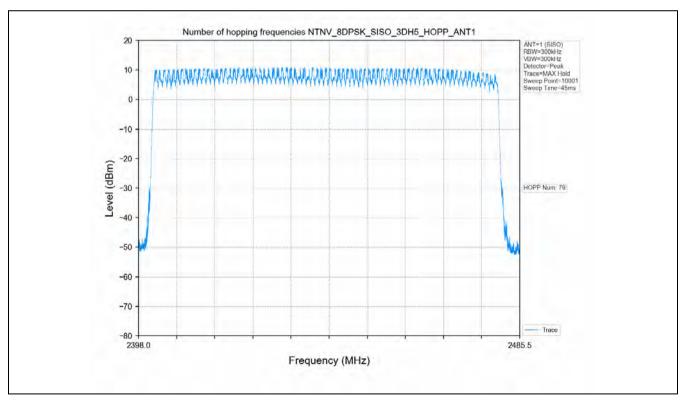
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5. Time of Occupancy (Dwell Time)



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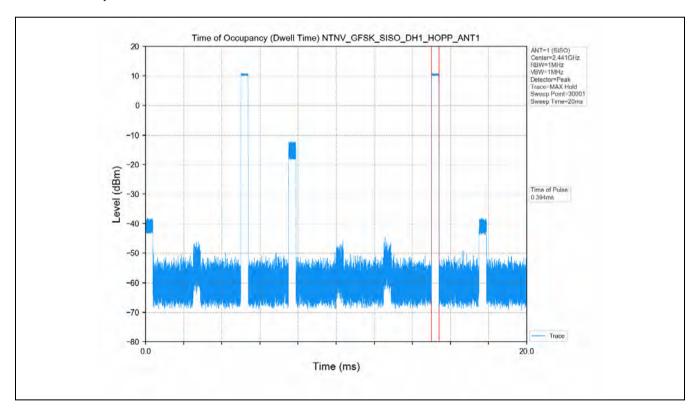
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5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	ation Period	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.394	31.6	168	66.192	≤400	PASS
	DH3	SISO	1	1.646	31.6	105	172.830	≤400	PASS
	DH5	SISO	1	2.893	31.6	85	245.905	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.403	31.6	157	63.271	≤400	PASS
	2DH3	SISO	1	1.654	31.6	106	175.324	≤400	PASS
	2DH5	SISO	1	2.904	31.6	79	229.416	≤400	PASS
8DPSK	3DH1	SISO	1	0.405	31.6	156	63.180	≤400	PASS
	3DH3	SISO	1	1.656	31.6	108	178.848	≤400	PASS
	3DH5	SISO	1	2.907	31.6	82	238.374	≤400	PASS

5.2 Test Graph





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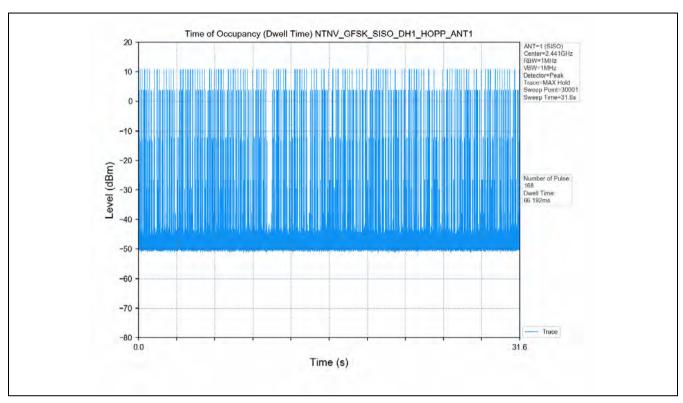
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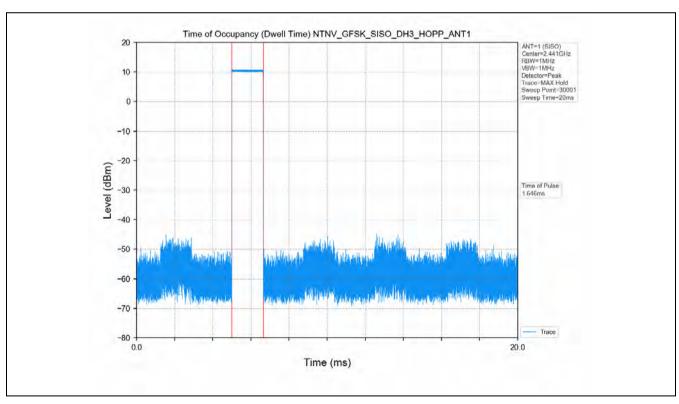
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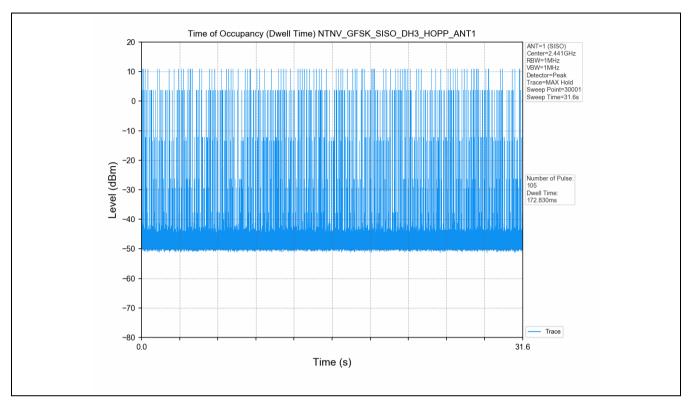
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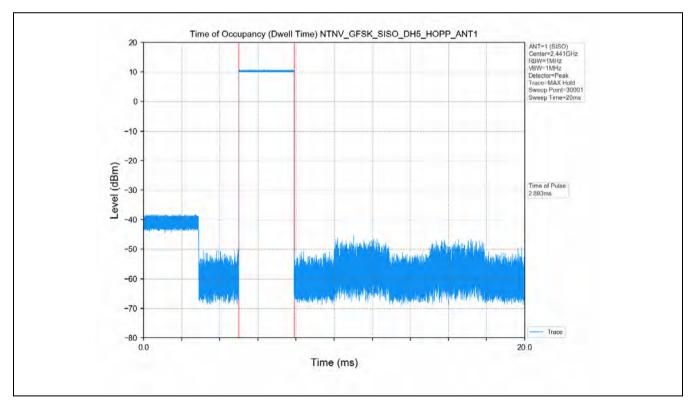
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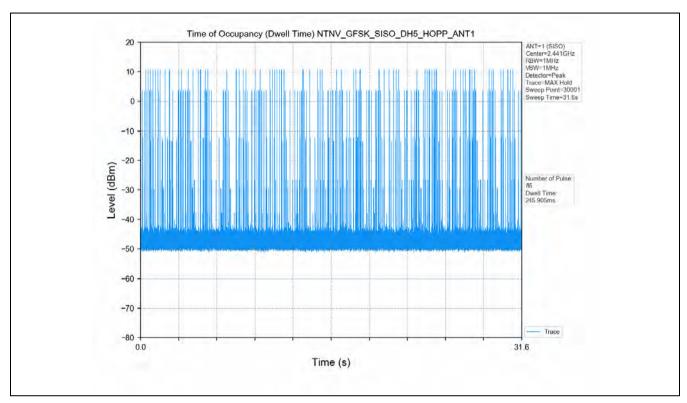
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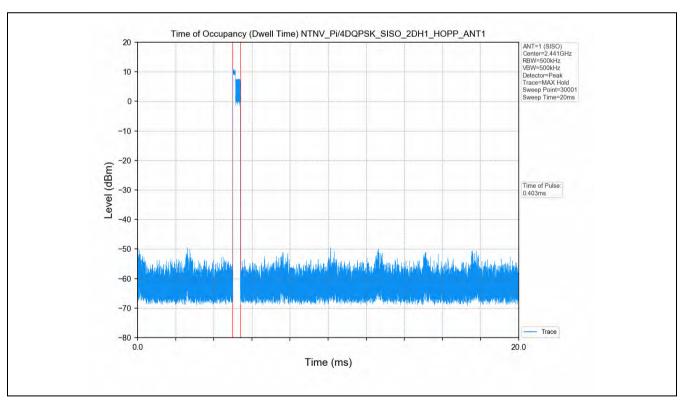
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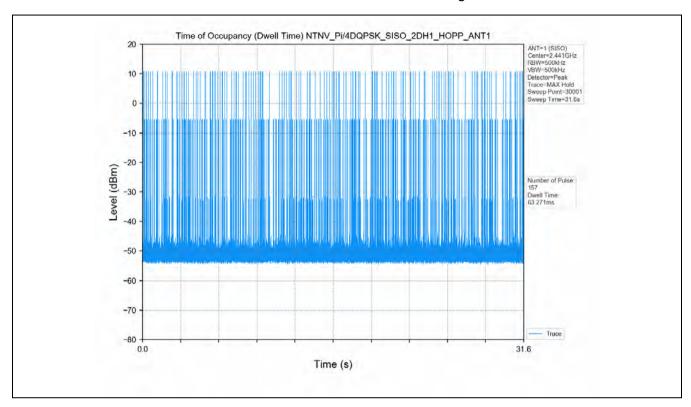
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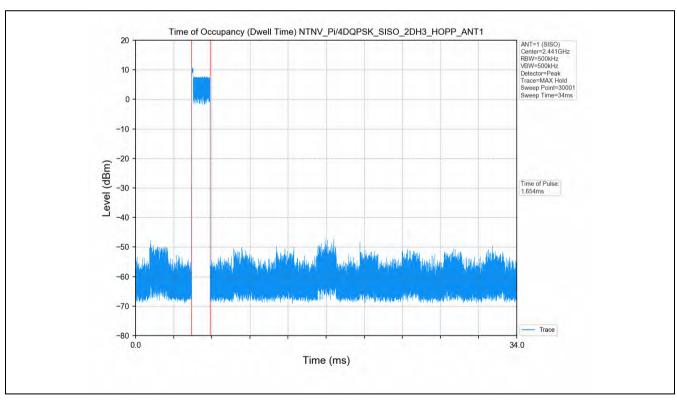
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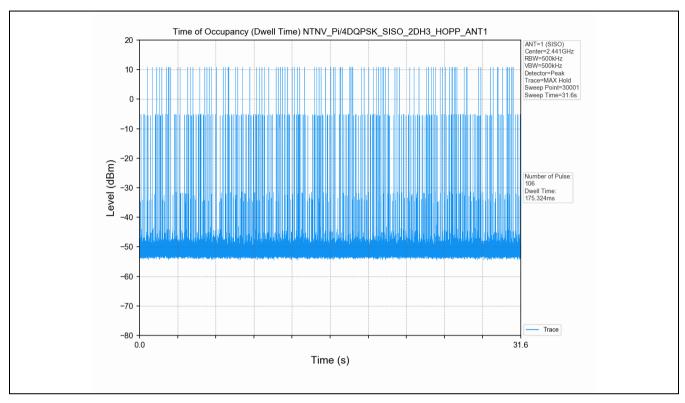
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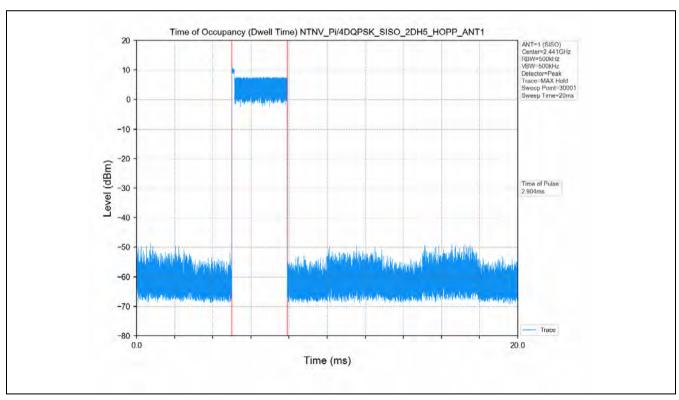
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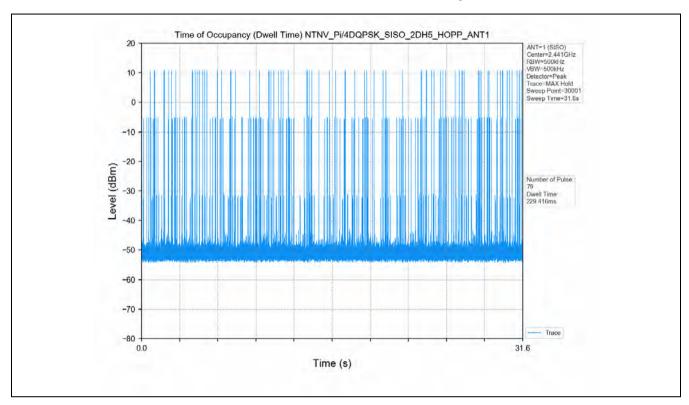
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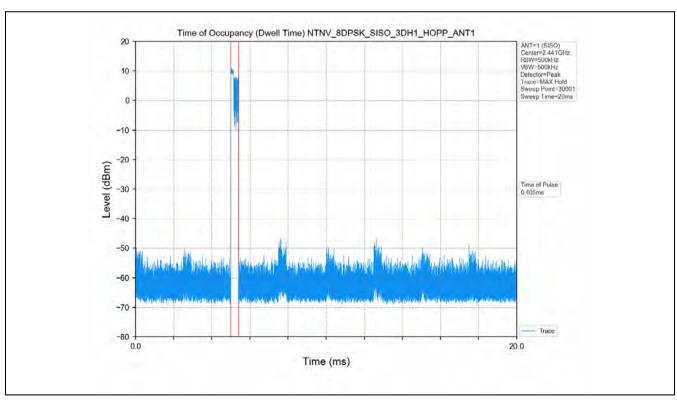
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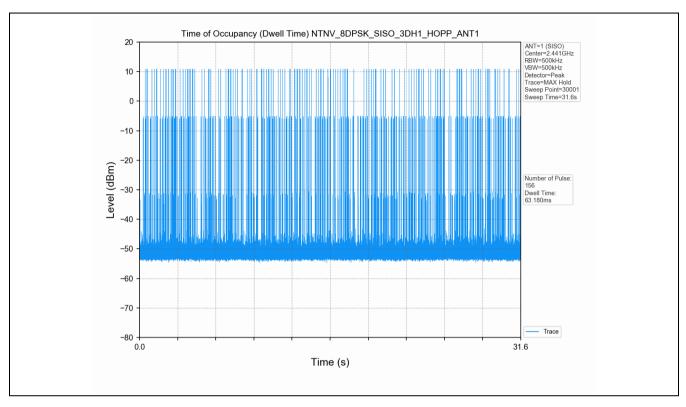
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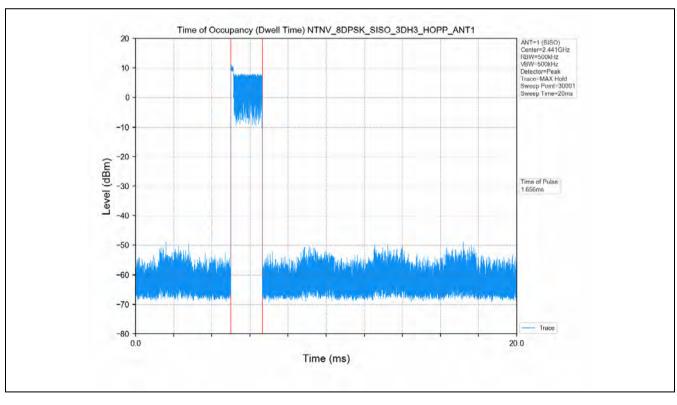
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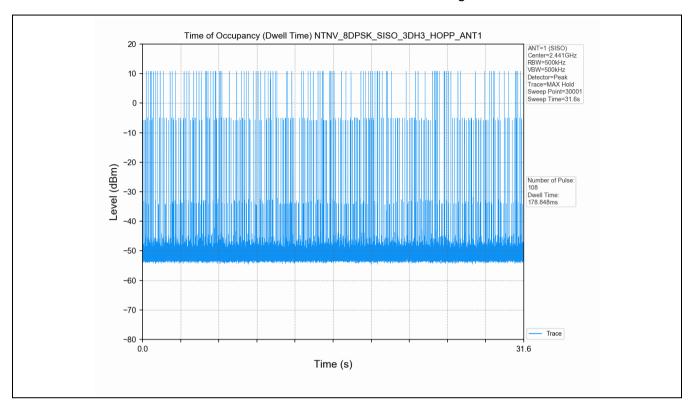
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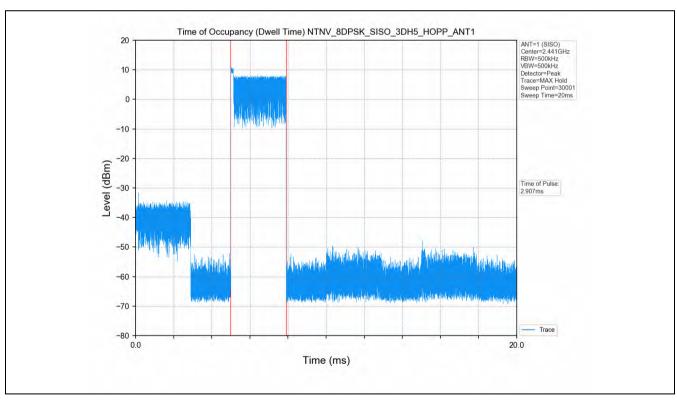
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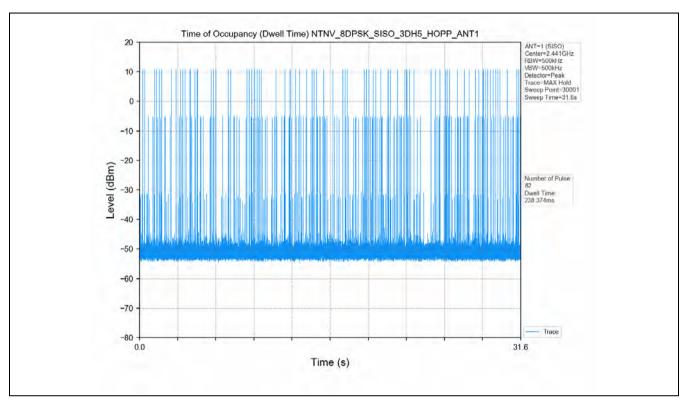
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-9.48	PASS
OFOK	2441	SISO	1	Refer to test graph	-9.48	PASS
GFSK	2480	SISO	1	Refer to test graph	-9.48	PASS
	Hopping	SISO	1	Refer to test graph	-9.48	PASS
	2402	SISO	1	Refer to test graph	-9.58	PASS
D://DODCK	2441	SISO	1	Refer to test graph	-9.58	PASS
Pi/4DQPSK	2480	SISO	1	Refer to test graph	-9.58	PASS
	Hopping	SISO	1	Refer to test graph	-9.58	PASS
	2402	SISO	1	Refer to test graph	-9.51	PASS
ODDOK	2441	SISO	1	Refer to test graph	-9.51	PASS
8DPSK	2480	SISO	1	Refer to test graph	-9.51	PASS
	Hopping	SISO	1	Refer to test graph	-9.51	PASS



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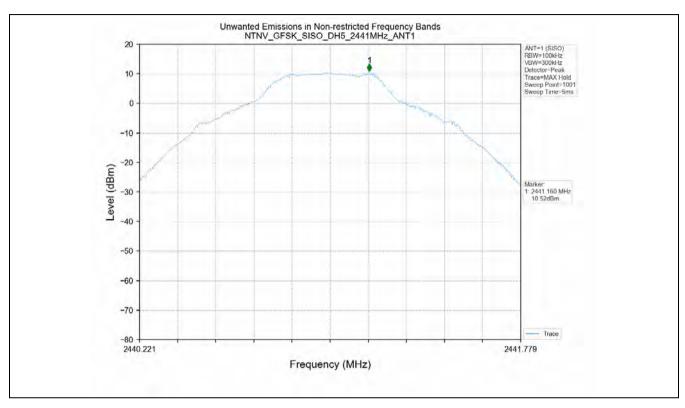
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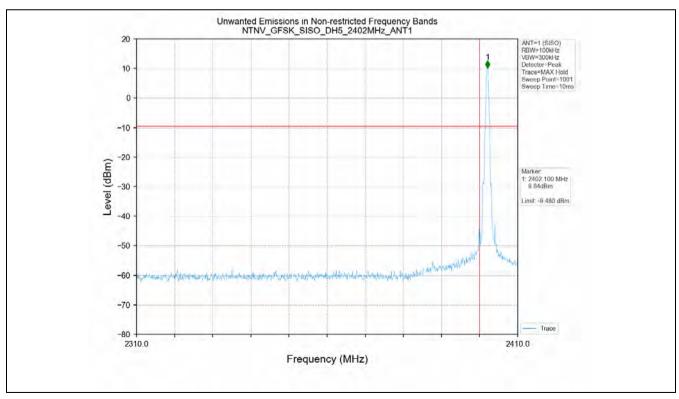


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6.2 Test Graph







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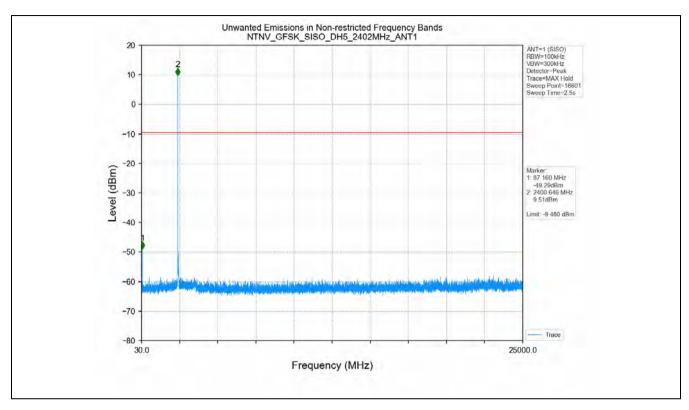
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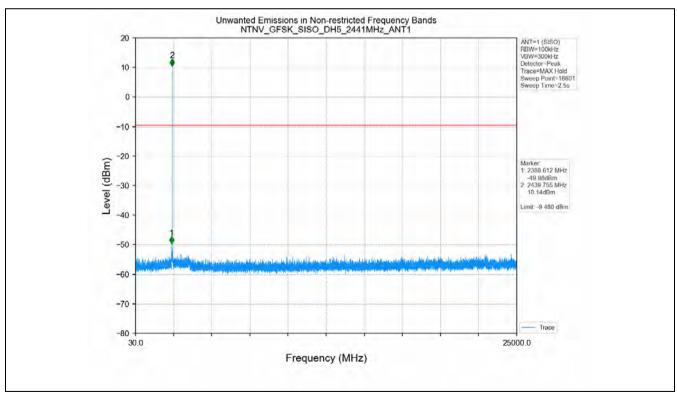
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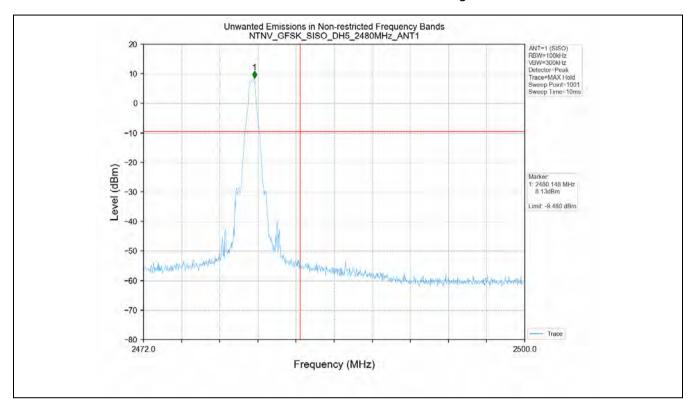
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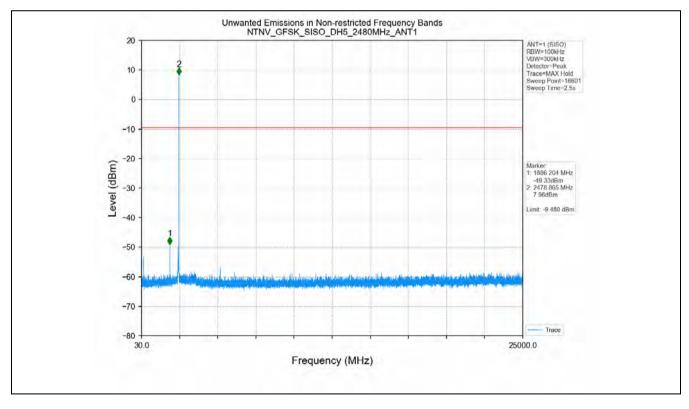
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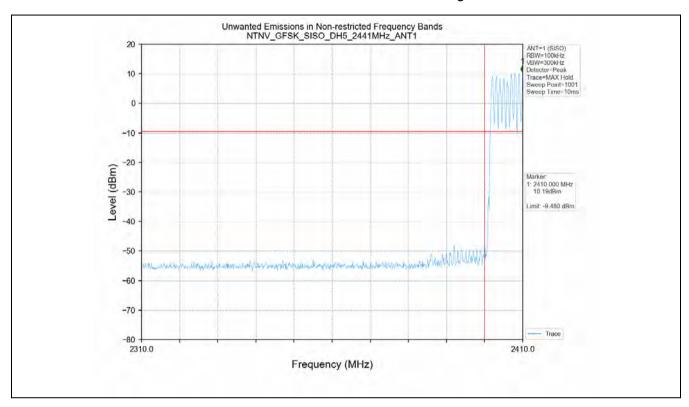
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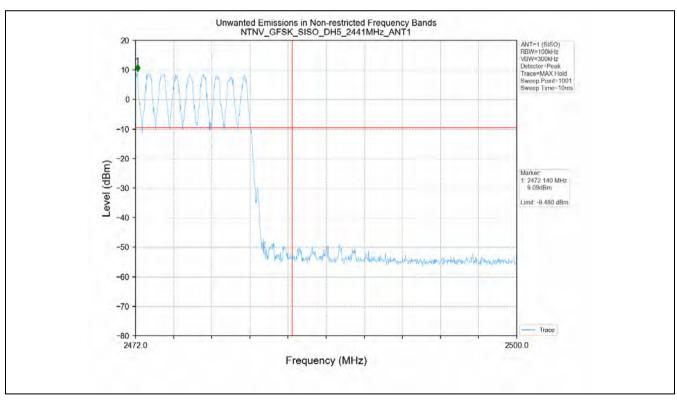
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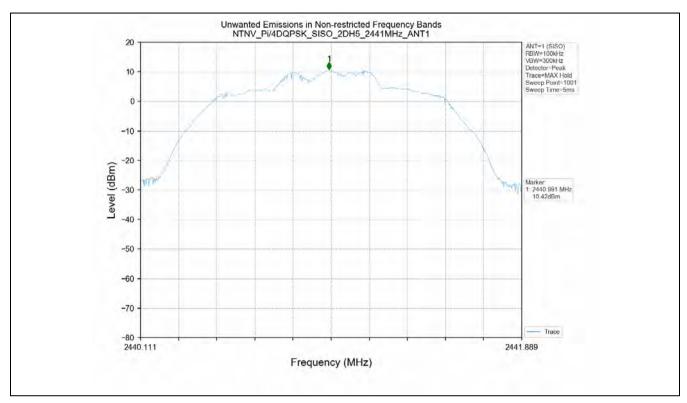
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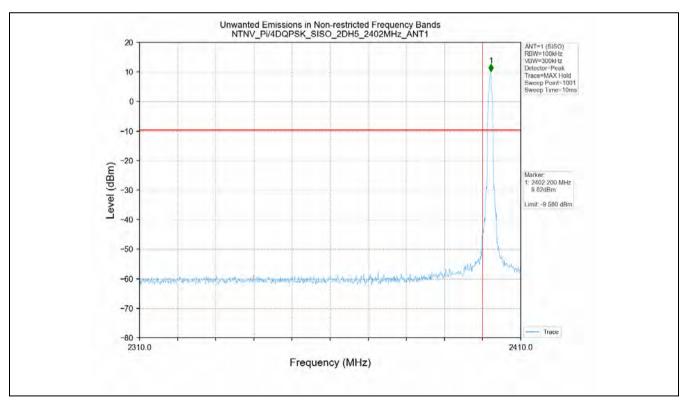
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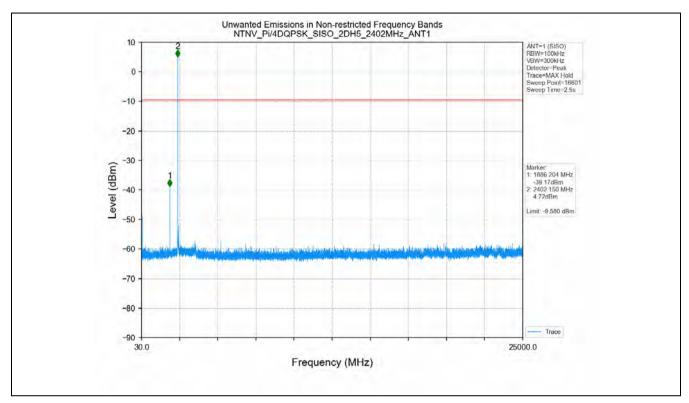
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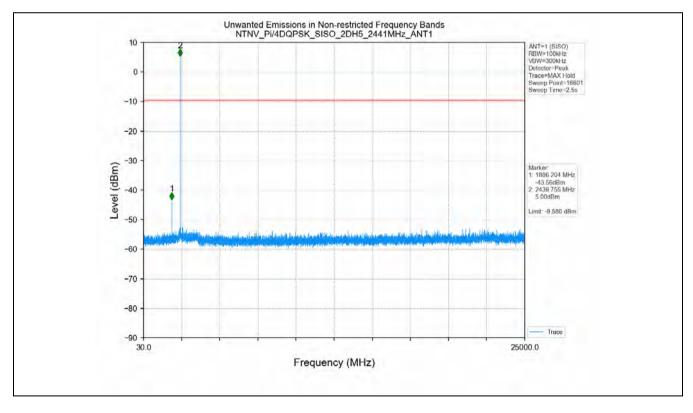
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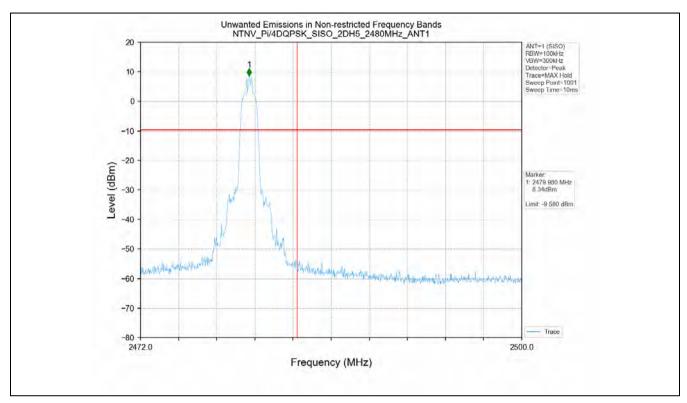
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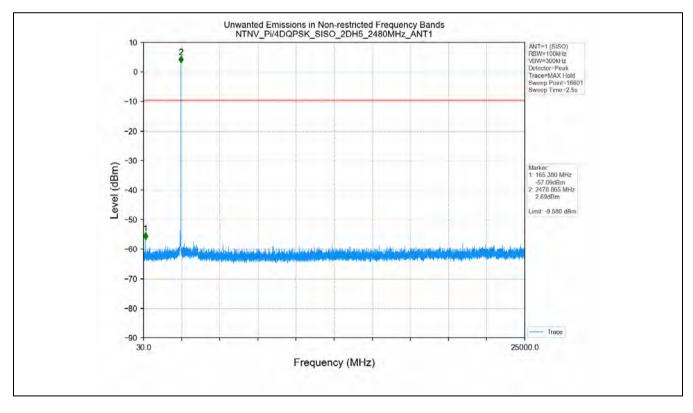
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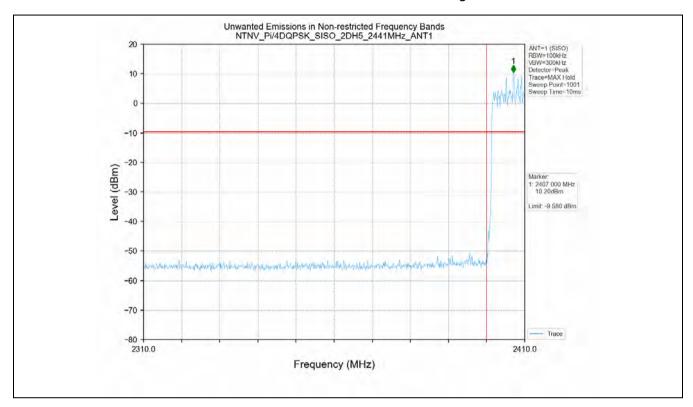
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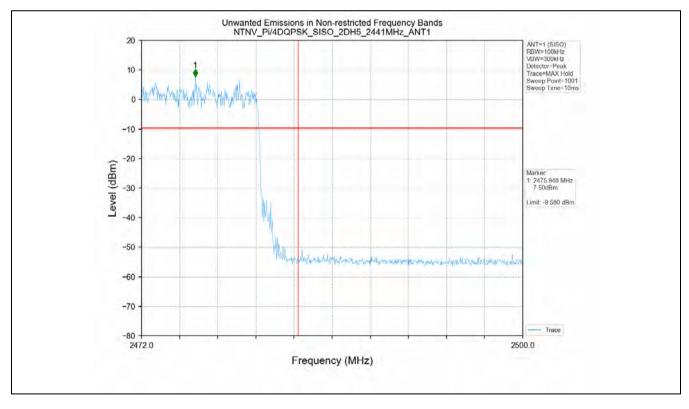
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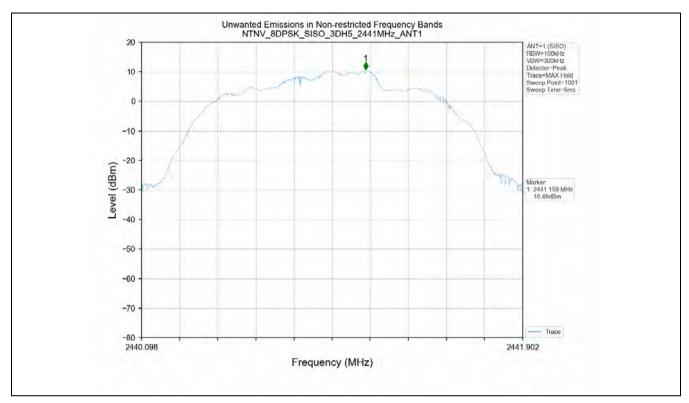
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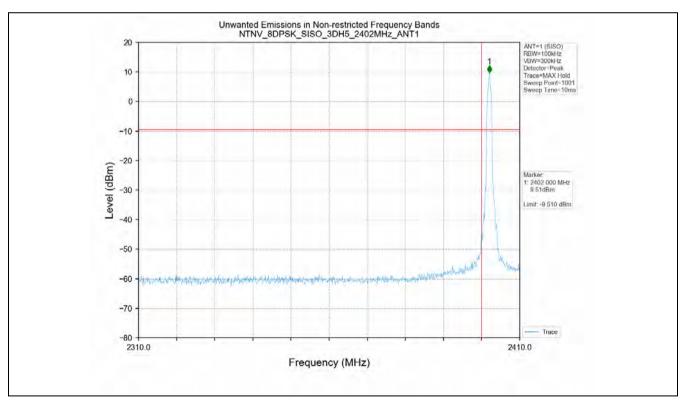
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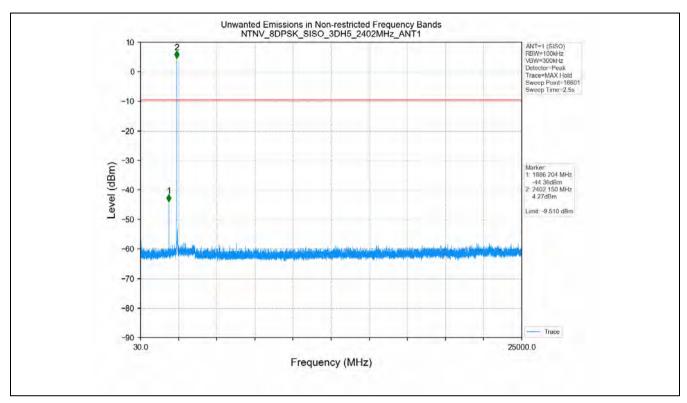
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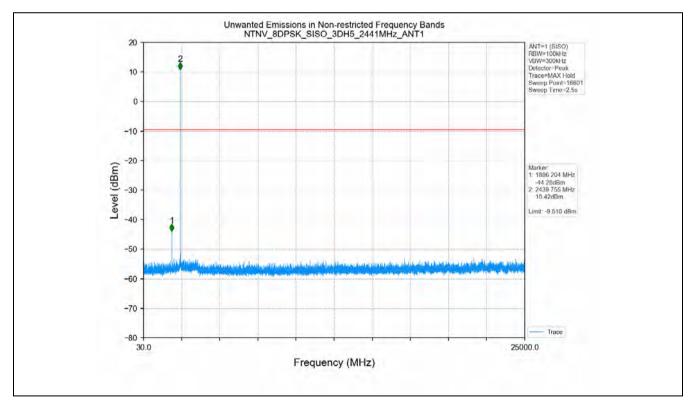
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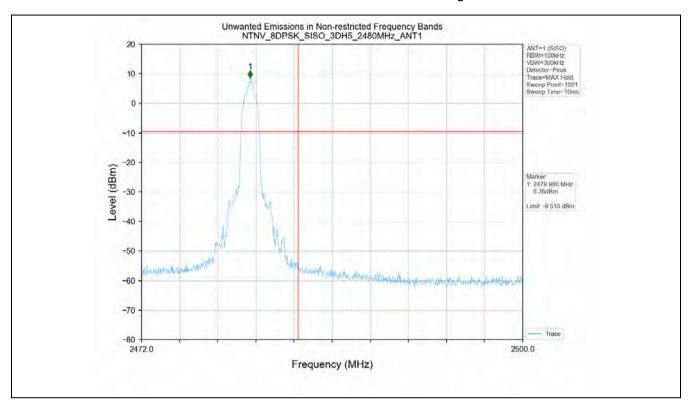
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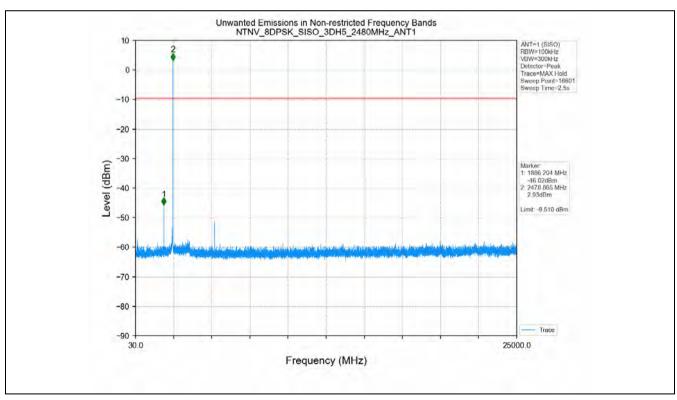
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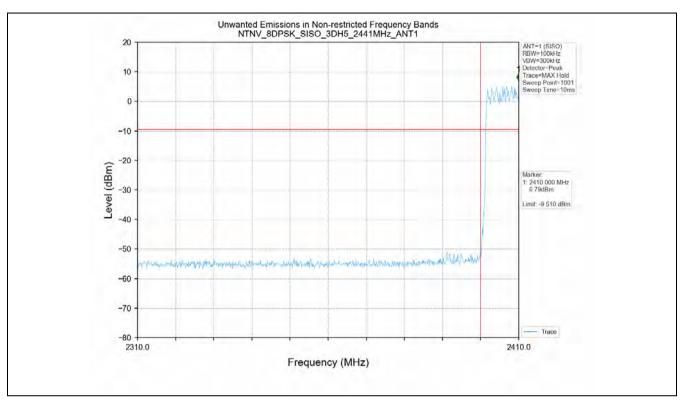
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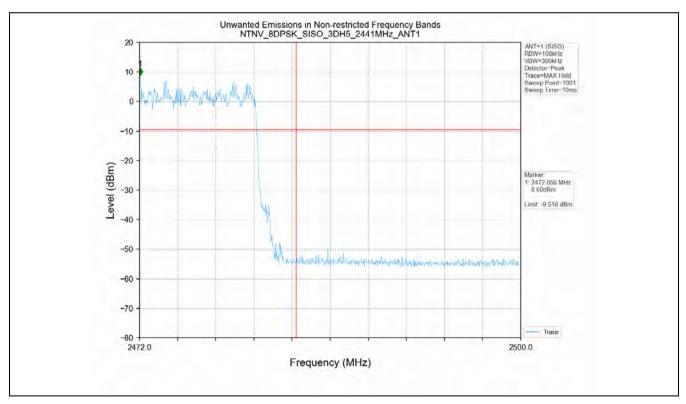
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