

TEST REPORT

Application No.: SZEM2012012515CR
Applicant: Harman International Industries, Inc.
Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Manufacturer: Harman International Industries, Inc.
Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States
Factory:
 1. Risuntek Inc
 2. Risun Vietnam Co., Ltd.
 3. RISUNTEK VIETNAM CO., Ltd.
Address of Factory:
 1. JiuWei Industrial Zone, Qishi Town, Dongguan City Guangdong, China
 2. Lo CN 05, Van Trung Industiral Park, Viet Yen District, Bac Giang Province, Vietnam
 3. Lot CN04, Dong Van IV Industrial Zone, Nhat Tuu Commune, Kim Bang District, Ha Nam Province, Vietnam

Equipment Under Test (EUT):

EUT Name: BLUETOOTH HEADSET
Model No.: VIBE100TWS, WAVE100TWS ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: JBL
FCC ID: APIJBLV100TWS
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-12-07
Date of Test: 2020-12-09 to 2020-12-23
Date of Issue: 2020-12-23

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
 EMC Laboratory Manager



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020-12-23		Original

Authorized for issue by:			
			
		<hr/> Benson Wang/Project Engineer	
			
		<hr/> Eric Fu/Reviewer	



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2 Test Summary

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

Declaration of EUT Family Grouping:

Model No.: VIBE100TWS, WAVE100TWS

Only the model VIBE100TWS was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name.



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4 General Information

4.1 Details of E.U.T.

Battery:	Left earbuds: Li-Ion Polymer Battery 3.7V 45mAh (Charged by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 45mAh (Charged by travel case) travel case with backup battery: Li-Ion Polymer Battery 3.7V 550mAh (Charged by Type-C port)
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Bluetooth Version:	V5.0 Dual mode
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	Left earbuds: -3.92dBi; Right earbuds: -3.62dBi

4.2 Cable

Cable	Length	Shielding	Core
Type-C cable	27cm	Unshielded	Non-Core

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.



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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.

- **VCCI**

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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5 Equipment List

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	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
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

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
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13



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Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
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Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

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 earbuds: -3.92dBi & Right earbuds: -3.62dBi

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(a)(1),(g),(h)

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.

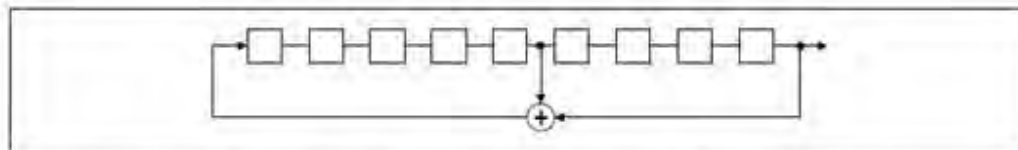
- > Number of shift register stages: 9
- > Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

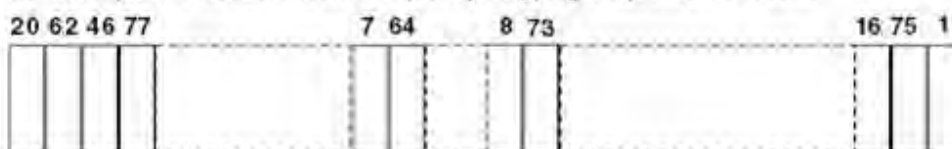


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Linear Feedback Shift Register for Generation of the PRBS sequence

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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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	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: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_non-Hop mode(Left earbuds)_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	07	TX_non-Hop mode(Right earbuds)_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.

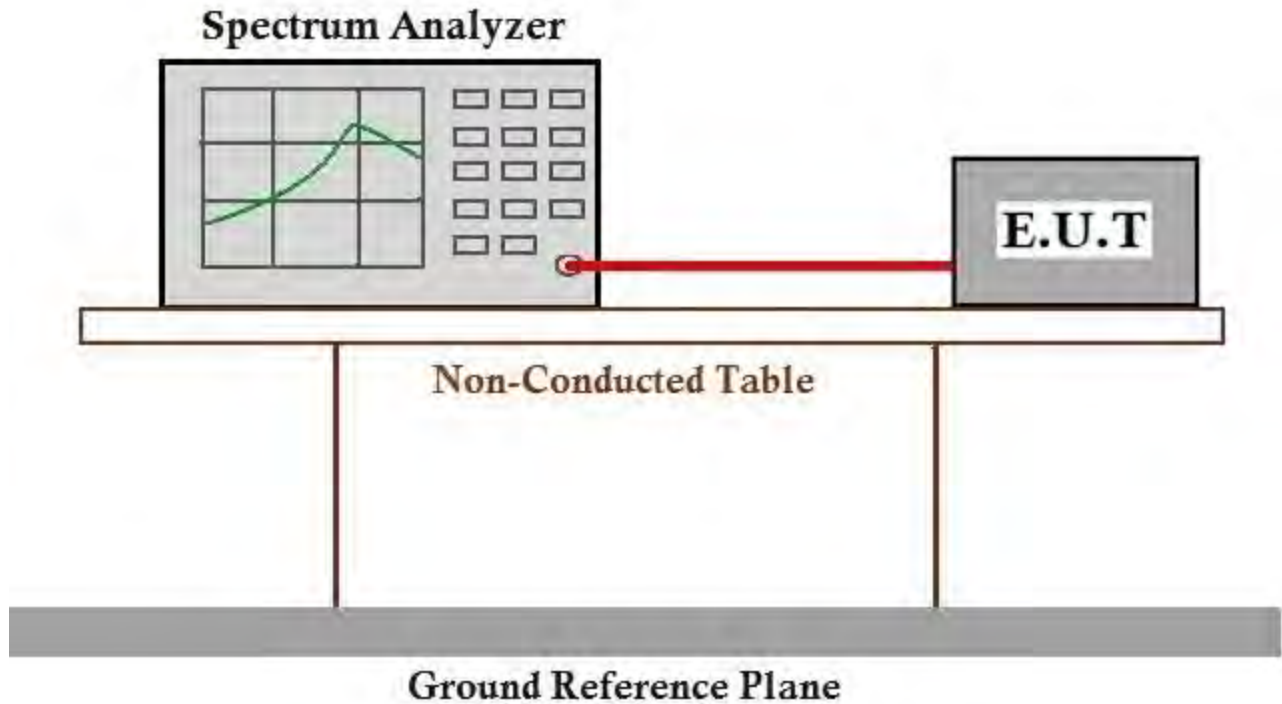


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.2 20dB Bandwidth

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

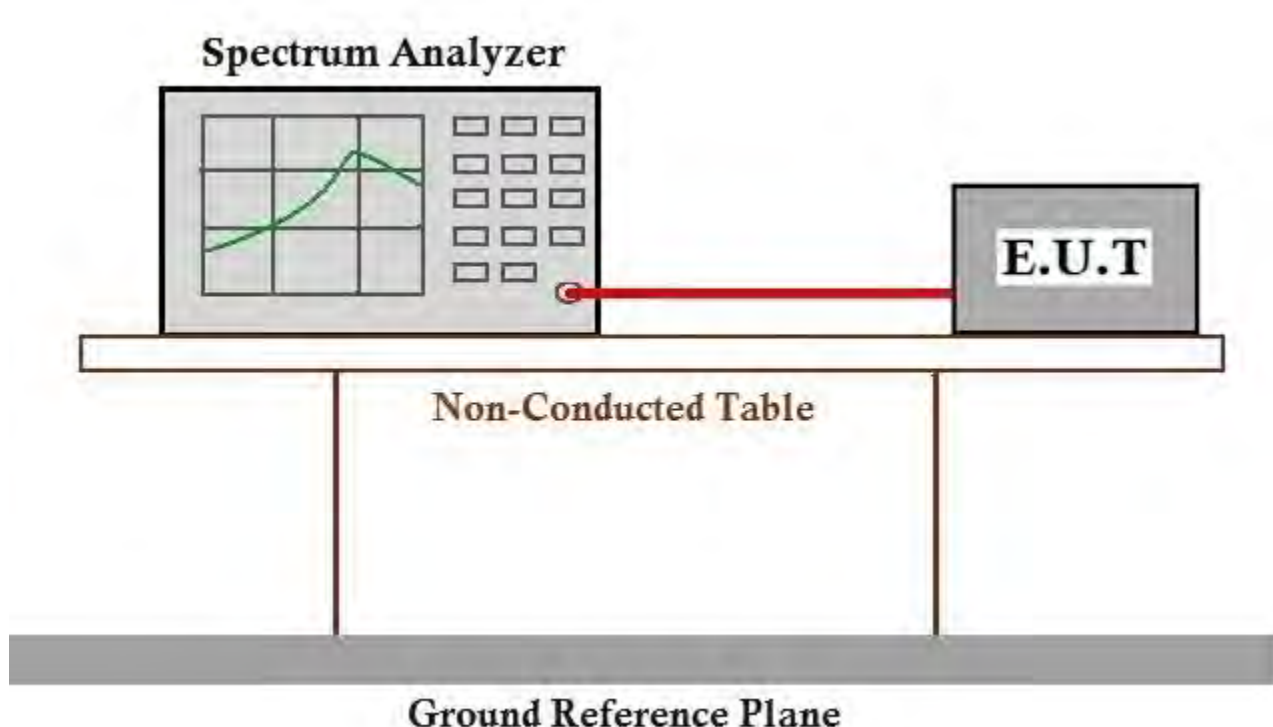
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_non-Hop mode(Left earbuds)_ 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	07	TX_non-Hop mode(Right earbuds)_ 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



7.2.4 Measurement Procedure and Data

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7.3 Carrier Frequencies Separation

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

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

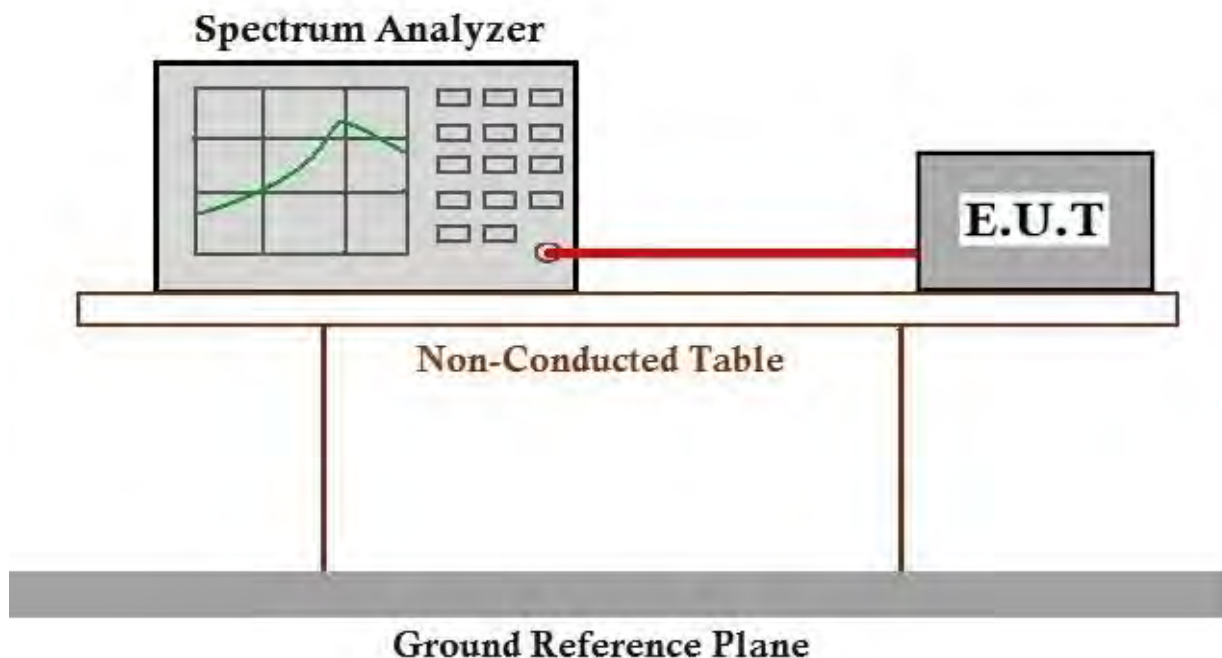
Operating Environment:

Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode(Left earbuds)_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	06	TX_Hop mode(Right earbuds)_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



7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.4 Hopping Channel Number

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode(Left earbuds)_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	06	TX_Hop mode(Right earbuds)_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.

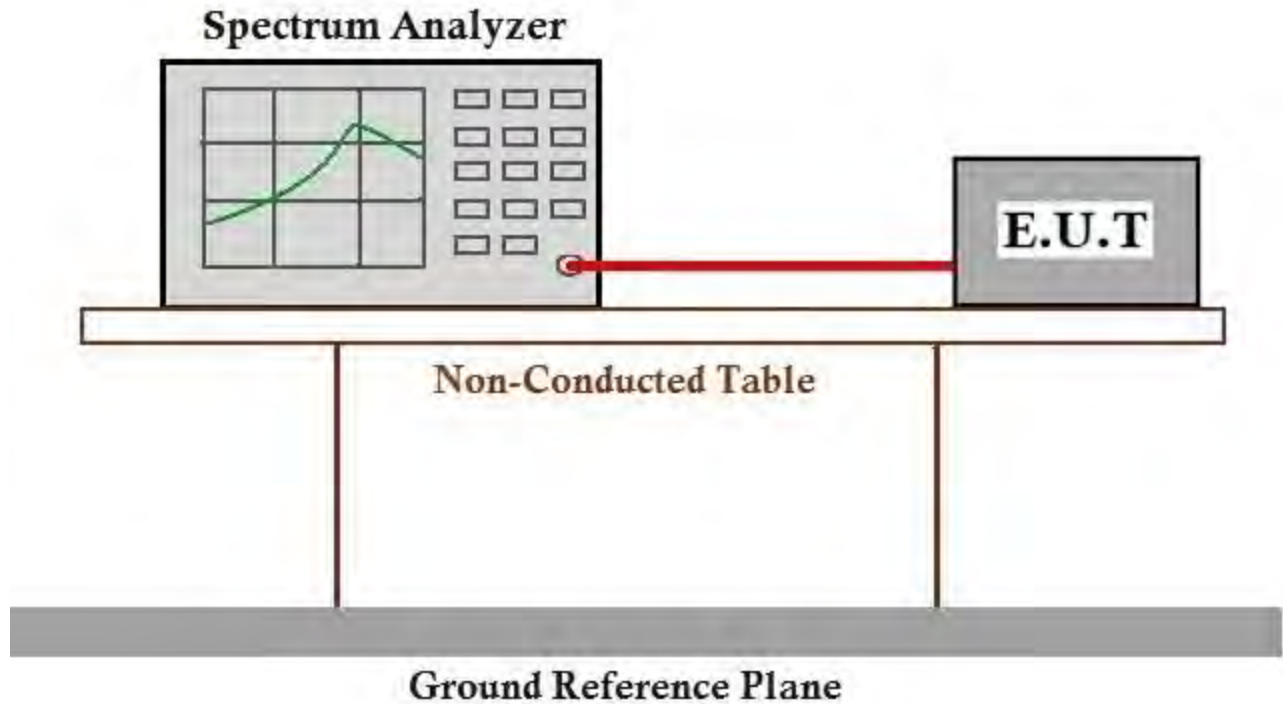


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7.4.3 Test Setup Diagram



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 15.247a(1)(iii)
 Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

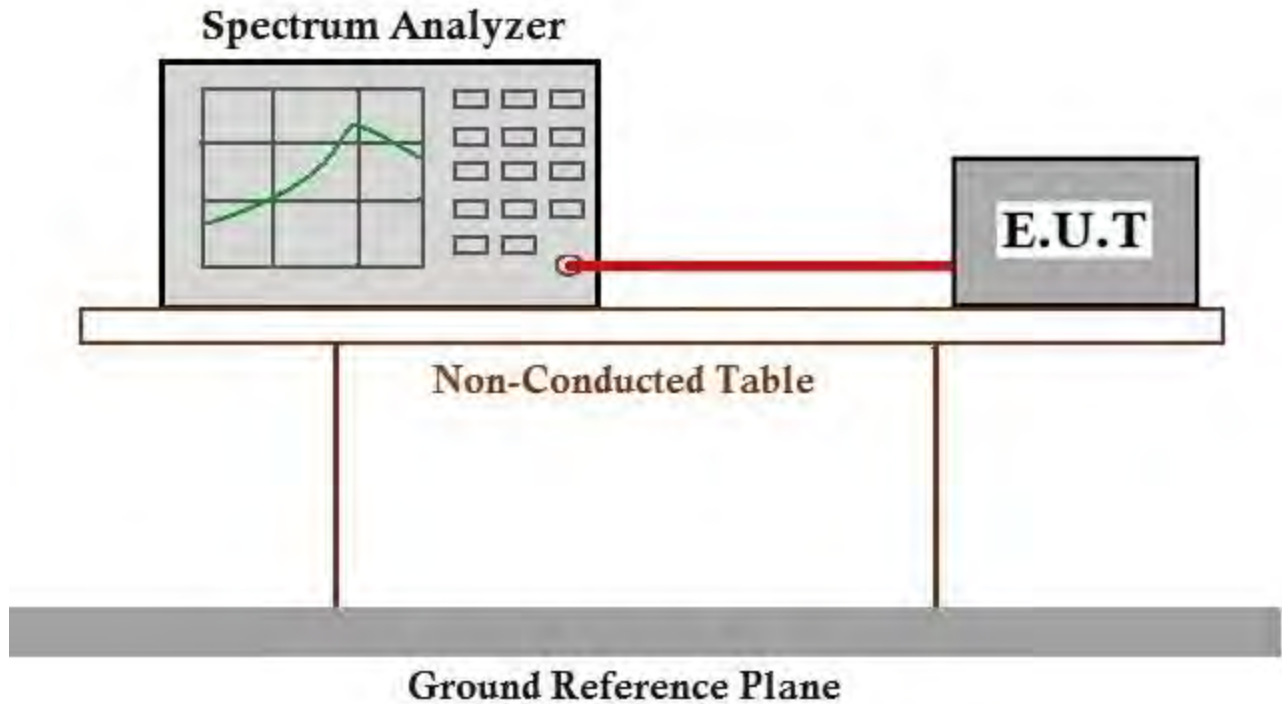
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode(Left earbuds)_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	06	TX_Hop mode(Right earbuds)_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



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(d)
 Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_Hop mode(Left earbuds)_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_non-Hop mode(Left earbuds)_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	06	TX_Hop mode(Right earbuds)_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	07	TX_non-Hop mode(Right earbuds)_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.

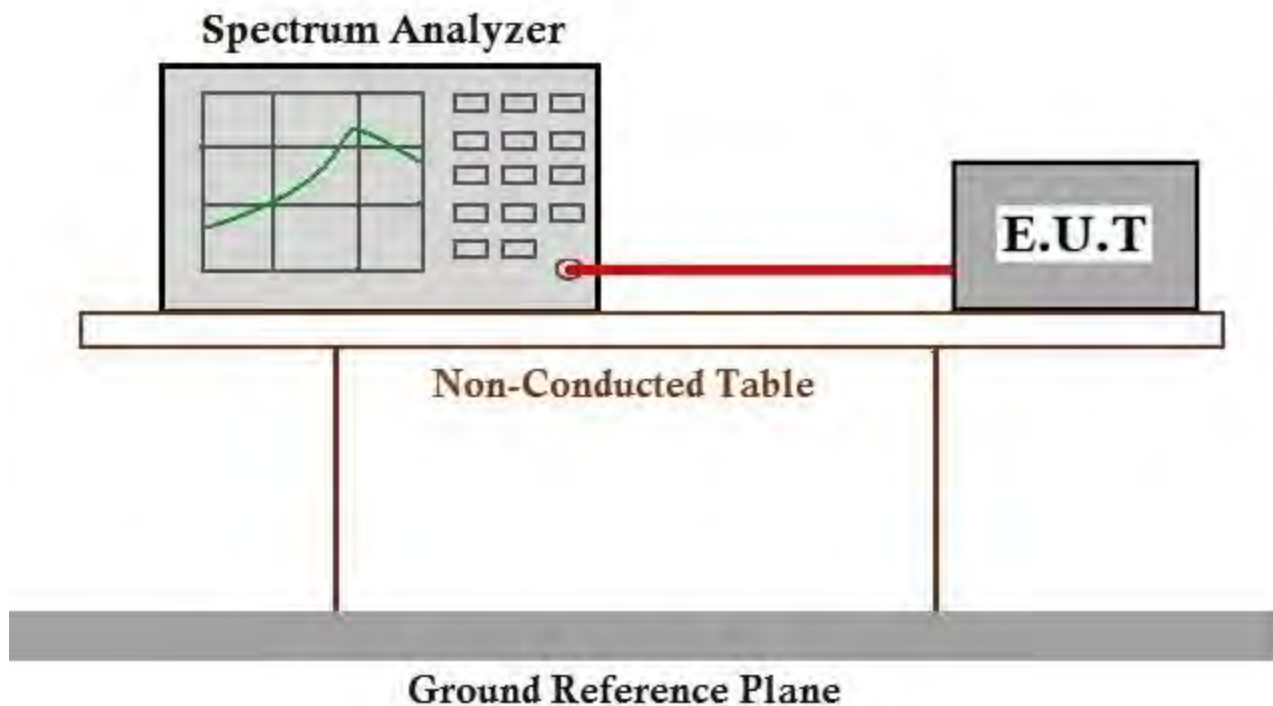


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.7 Conducted Spurious Emissions

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

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 33.2 % RH Atmospheric Pressure: 1010 mbar

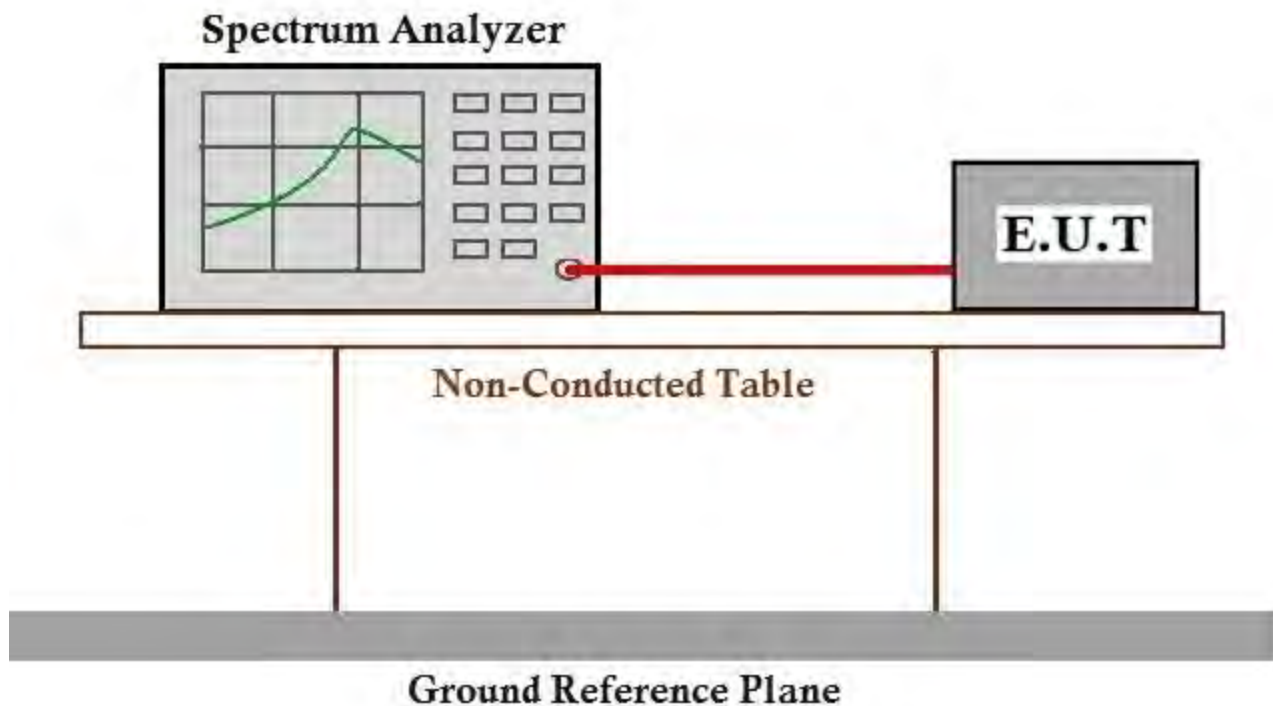
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_non-Hop mode(Left earbuds) 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	07	TX_non-Hop mode(Right earbuds) 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



7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions which fall in the restricted bands

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

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

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: 25.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

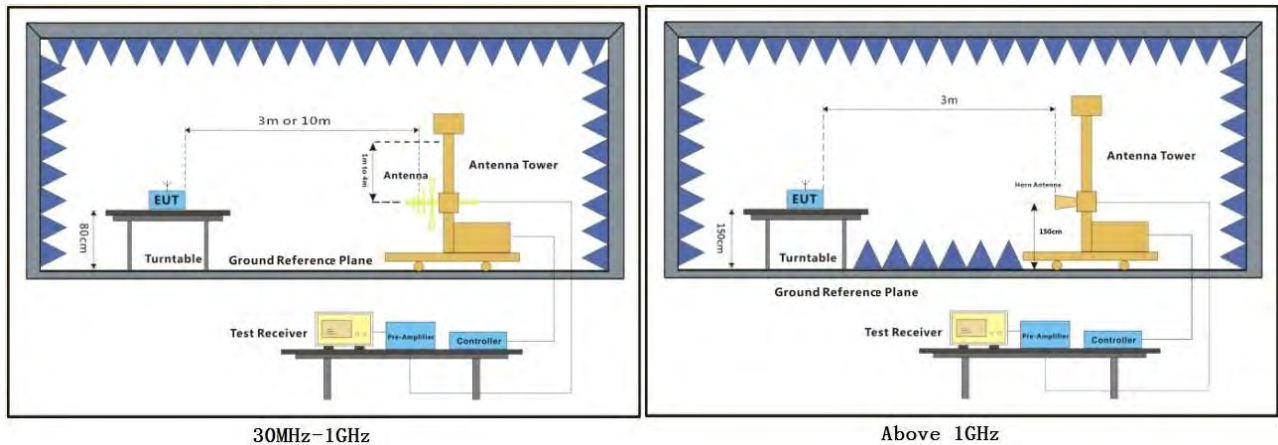
7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_non-Hop mode(Left earbuds)_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	07	TX_non-Hop mode(Right earbuds)_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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7.8.3 Test Setup Diagram



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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Duty cycle:

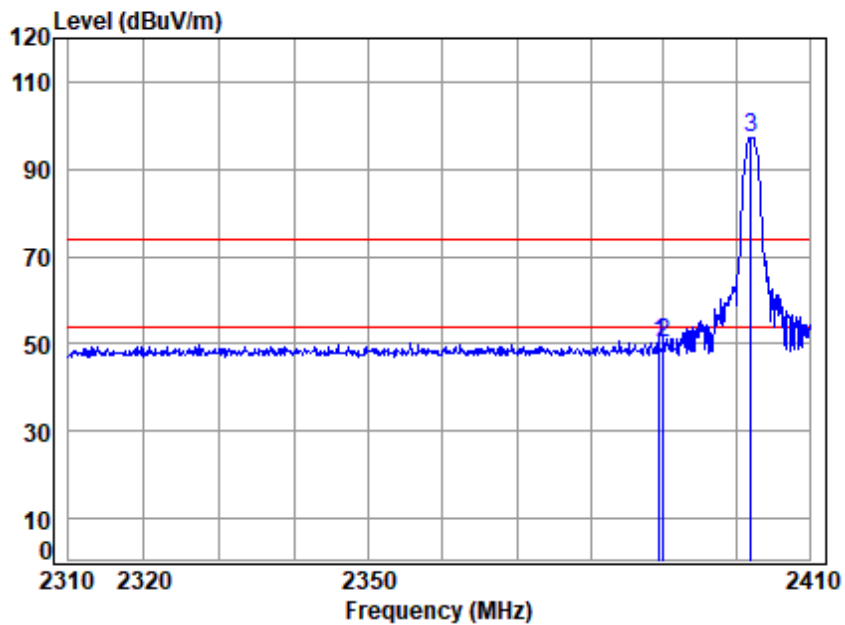


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Average value = Peak value – Duty factor

BT-Duty cycle			
Hopping num	On time(ms)	Duty cycle(%)	Duty factor
1	2.9	0.03	-30.75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



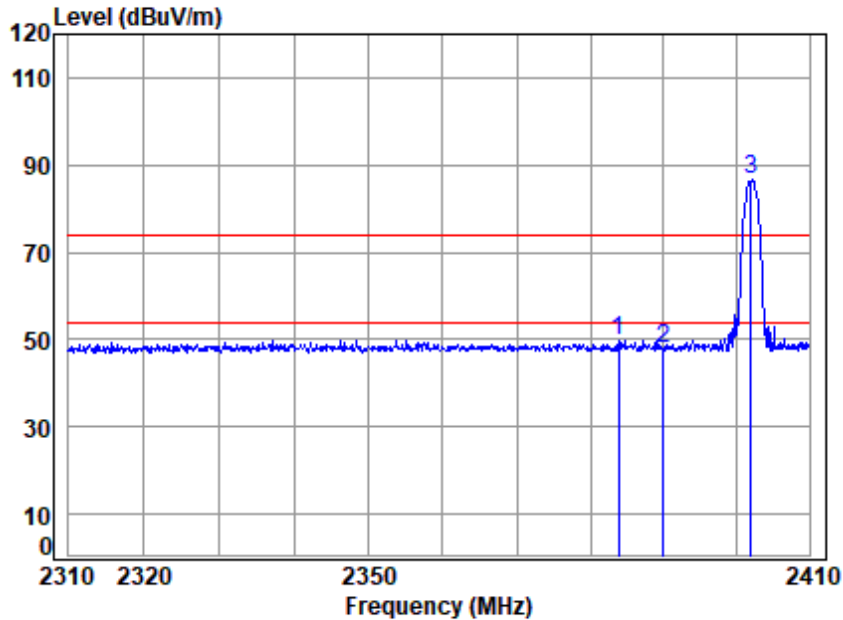
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2402 Band edge
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.356	4.34	28.52	40.97	58.27	50.16	74.00	-23.84	peak
2	2390.000	4.34	28.52	40.97	58.23	50.12	74.00	-23.88	peak
3 *	2402.000	4.36	28.54	40.98	105.41	97.33	74.00	23.33	peak



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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



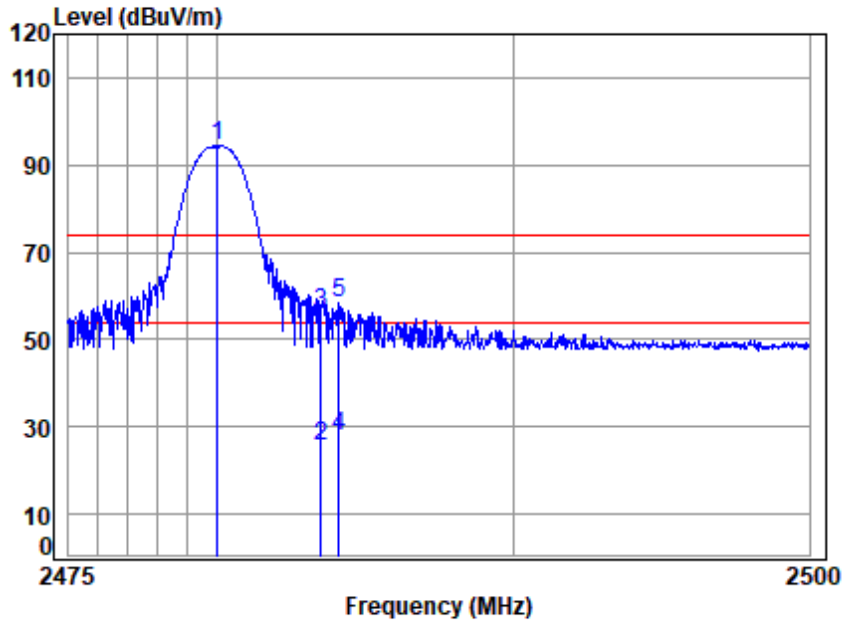
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2402 Band edge
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2383.894	4.33	28.51	40.97	57.88	49.75	74.00	-24.25	peak
2	2390.000	4.34	28.52	40.97	56.13	48.02	74.00	-25.98	peak
3 *	2402.000	4.36	28.54	40.98	94.56	86.48	74.00	12.48	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



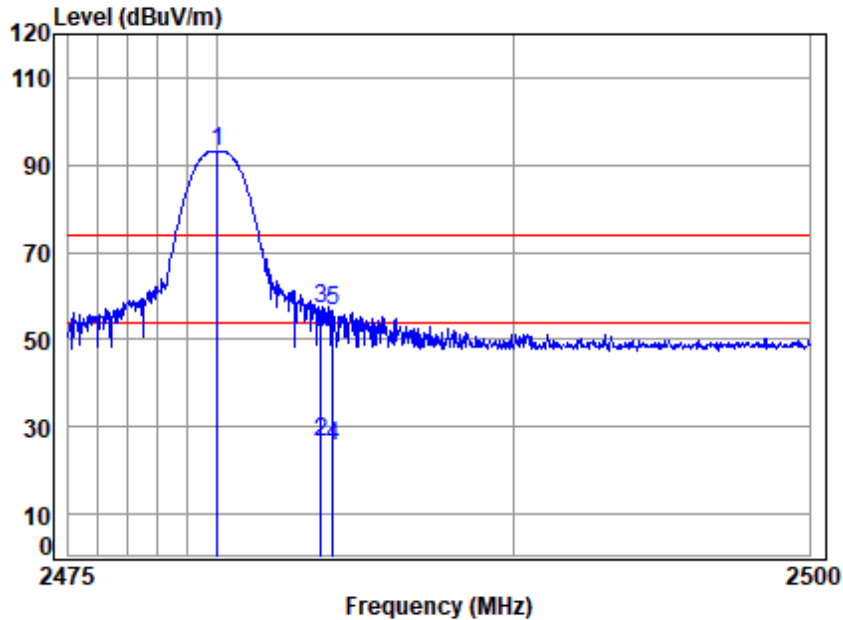
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2480 Band edge
 Note : BT L

	Cable	Ant	Preamp	Read	Limit	Over			
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	4.49	28.67	41.01	102.12	94.27	74.00	20.27	peak	
2	4.49	28.67	41.01	33.44	25.59	54.00	-28.41	Average	
3	4.49	28.67	41.01	64.19	56.34	74.00	-17.66	peak	
4	4.50	28.67	41.01	35.65	27.81	54.00	-26.19	Average	
5	4.50	28.67	41.01	66.40	58.56	74.00	-15.44	peak	



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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



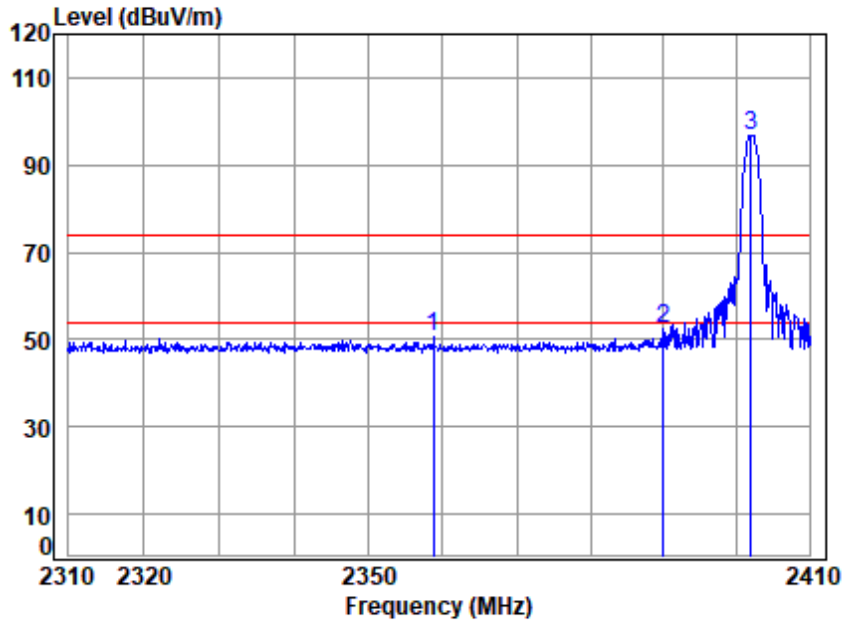
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2480 Band edge
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	101.13	93.28	74.00	19.28	peak
2	2483.500	4.49	28.67	41.01	34.15	26.30	54.00	-27.70	Average
3	2483.500	4.49	28.67	41.01	64.90	57.05	74.00	-16.95	peak
4	2483.896	4.49	28.67	41.01	33.62	25.77	54.00	-28.23	Average
5	2483.896	4.49	28.67	41.01	64.37	56.52	74.00	-17.48	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



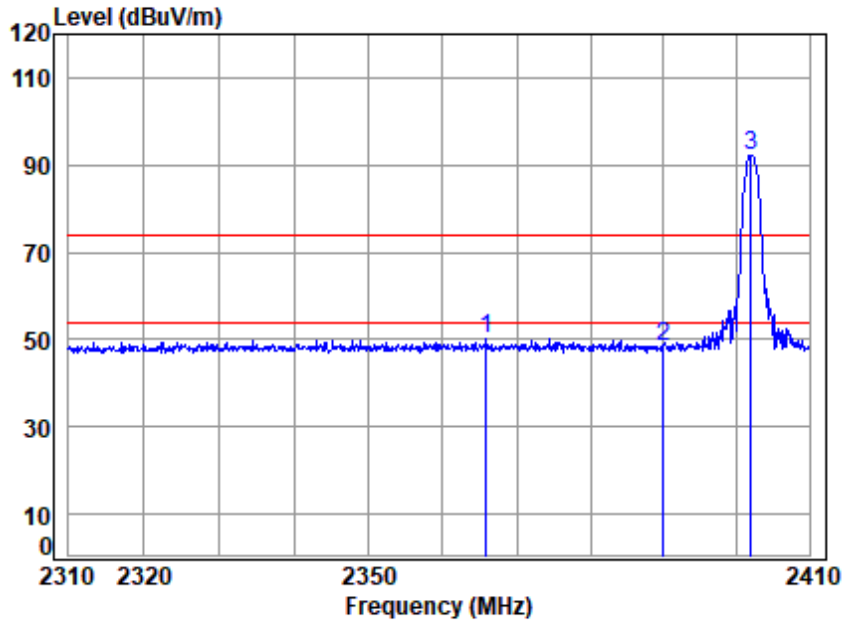
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2402 Band edge
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2358.771	4.29	28.47	40.96	58.70	50.50	74.00	-23.50 peak
2	2390.000	4.34	28.52	40.97	60.63	52.52	74.00	-21.48 peak
3 *	2402.000	4.36	28.54	40.98	104.92	96.84	74.00	22.84 peak



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



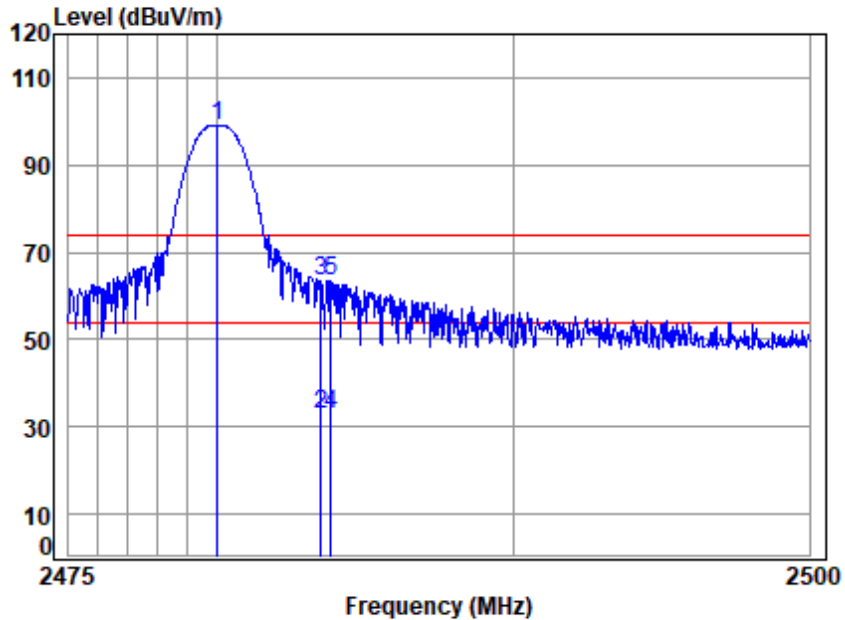
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2402 Band edge
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2365.878	4.31	28.48	40.96	58.28	50.11	74.00	-23.89 peak
2	2390.000	4.34	28.52	40.97	56.61	48.50	74.00	-25.50 peak
3 *	2402.000	4.36	28.54	40.98	100.20	92.12	74.00	18.12 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



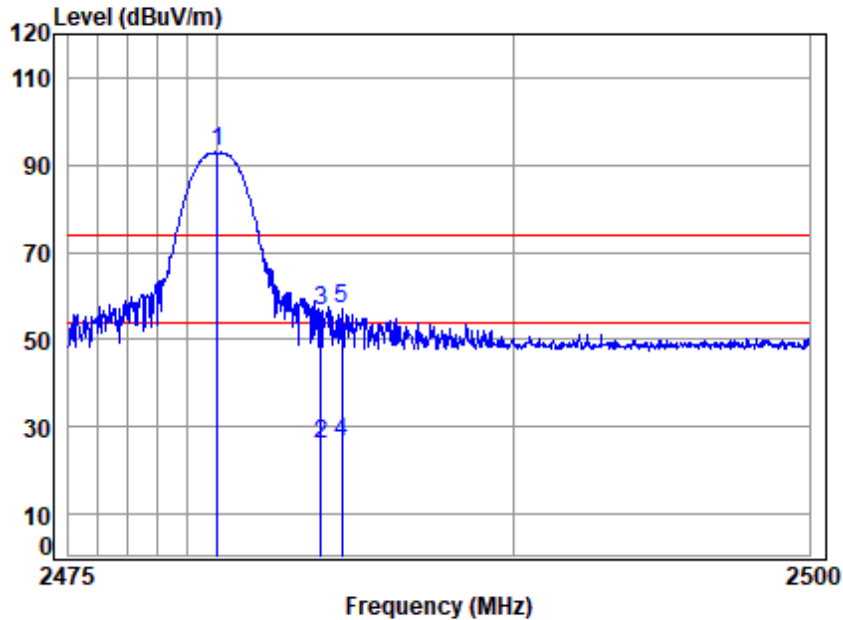
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2480 Band edge
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	107.06	99.21	74.00	25.21	peak
2	2483.500	4.49	28.67	41.01	40.52	32.67	54.00	-21.33	Average
3	2483.500	4.49	28.67	41.01	71.27	63.42	74.00	-10.58	peak
4	2483.821	4.49	28.67	41.01	40.49	32.64	54.00	-21.36	Average
5	2483.821	4.49	28.67	41.01	71.24	63.39	74.00	-10.61	peak



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2480 Band edge
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2480.000	4.49	28.67	41.01	100.71	92.86	74.00	18.86 peak
2	2483.500	4.49	28.67	41.01	33.88	26.03	74.00	-47.97 Average
3	2483.500	4.49	28.67	41.01	64.63	56.78	74.00	-17.22 peak
4	2484.196	4.50	28.67	41.01	34.22	26.38	54.00	-27.62 Average
5	2484.196	4.50	28.67	41.01	64.97	57.13	74.00	-16.87 peak



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7.9 Radiated Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 10m (Below 1GHz) and 3m (Above 1GHz)

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: 23.6 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

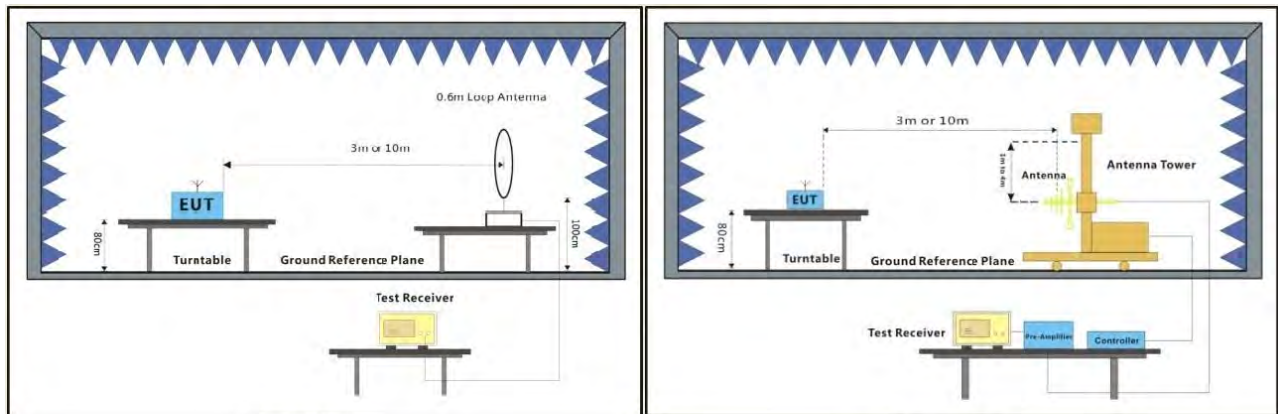
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_non-Hop mode(Left earbuds)_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	07	TX_non-Hop mode(Right earbuds)_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.



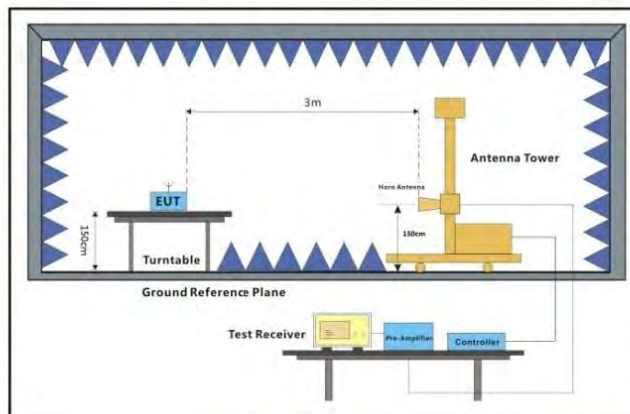
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7.9.3 Test Setup Diagram



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.

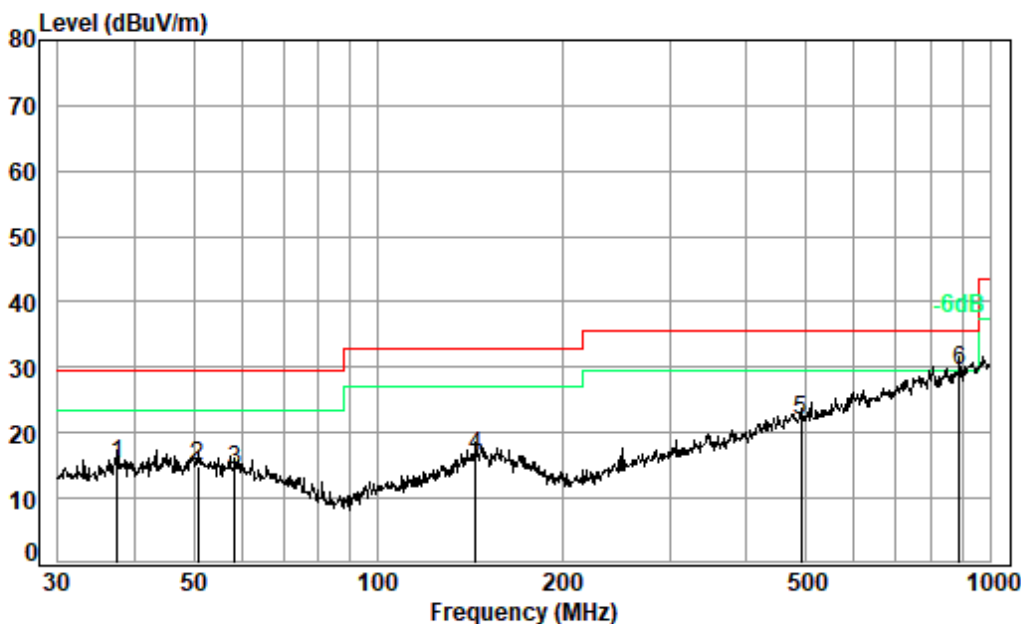
Remark:

- 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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Test Mode: 03; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 12515CR

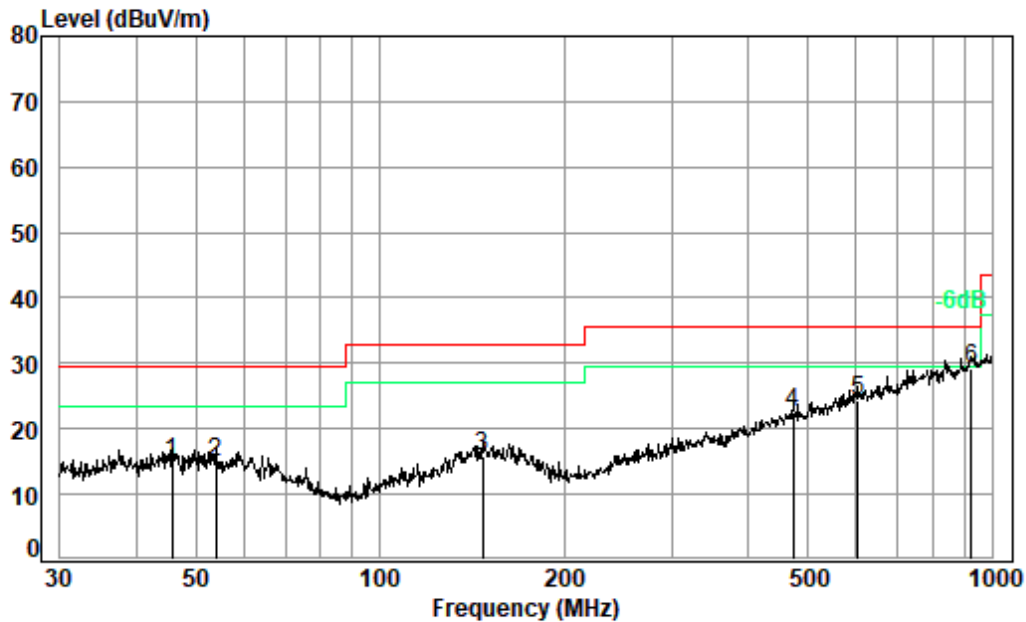
Test Mode: 03

	Ant Freq	Preamp Factor	Cable Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.548	19.89	32.50	0.92	26.99	15.30	29.50	-14.20 QP
2	50.764	20.15	32.50	0.97	26.31	14.93	29.50	-14.57 QP
3	58.407	19.58	32.49	1.04	26.04	14.17	29.50	-15.33 QP
4	144.335	19.92	32.42	1.47	27.46	16.43	33.00	-16.57 QP
5	490.745	23.91	32.30	2.77	27.50	21.88	35.60	-13.72 QP
6 pp	890.728	29.21	31.64	3.44	28.48	29.49	35.60	-6.11 QP



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Test Mode: 03; Polarity: Vertical



Condition: 10m VERTICAL
 Job No. : 12515CR
 Test Mode: 03

	Ant Freq	Preamp Factor	Cable Factor	Cable Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	45.695	20.47	32.50	0.95	26.00	14.92	29.50	-14.58	QP
2	53.882	20.09	32.49	1.00	26.42	15.02	29.50	-14.48	QP
3	147.404	20.07	32.42	1.48	26.71	15.84	33.00	-17.16	QP
4	473.835	23.70	32.30	2.70	28.27	22.37	35.60	-13.23	QP
5	603.539	26.24	32.30	3.09	27.40	24.43	35.60	-11.17	QP
6 pp	925.756	29.80	31.36	3.50	27.20	29.14	35.60	-6.46	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
45.695	14.92	5.57	18.57	25.38	40.00	-14.62	V
53.882	15.02	5.64	18.79	25.48	40.00	-14.52	V
147.404	15.84	6.19	20.65	26.30	43.50	-17.20	V
473.835	22.37	13.14	43.79	32.83	46.00	-13.17	V
603.539	24.43	16.65	55.51	34.89	46.00	-11.11	V
925.756	29.14	28.64	95.47	39.60	46.00	-6.40	V
37.548	15.30	5.82	19.40	25.76	40.00	-14.24	H
50.764	14.93	5.58	18.59	25.39	40.00	-14.61	H
58.407	14.17	5.11	17.04	24.63	40.00	-15.37	H
144.335	16.43	6.63	22.10	26.89	43.50	-16.61	H
490.745	21.88	12.42	41.39	32.34	46.00	-13.66	H
890.728	29.49	29.82	99.40	39.95	46.00	-6.05	H



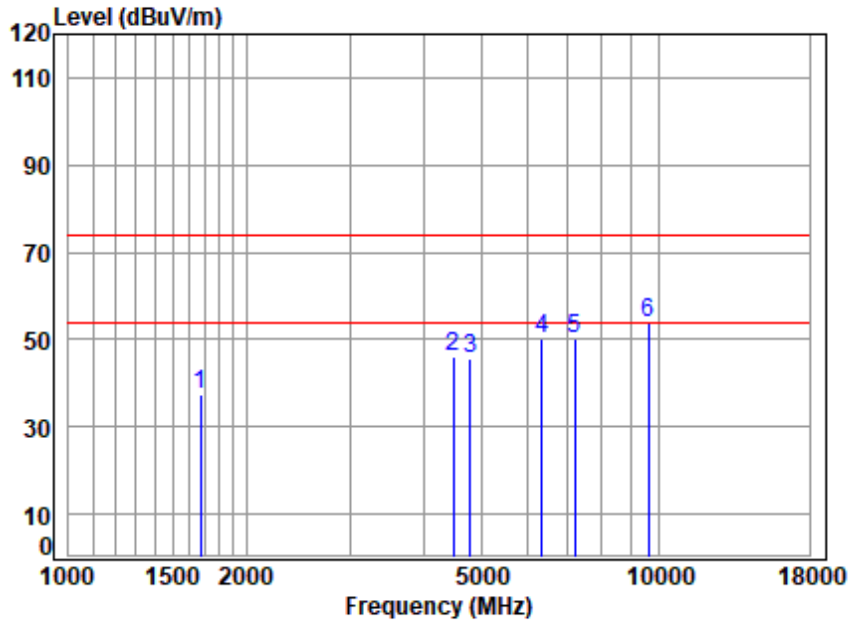
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2402 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.56	40.62	47.84	37.19	74.00	-36.81 peak
2	4482.150	6.74	33.57	42.54	48.27	46.04	74.00	-27.96 peak
3	4804.000	7.10	33.97	42.77	47.35	45.65	74.00	-28.35 peak
4	6340.436	8.27	35.44	42.04	48.73	50.40	74.00	-23.60 peak
5	7206.000	8.74	36.07	41.58	46.90	50.13	74.00	-23.87 peak
6	9608.000	10.81	37.67	38.57	43.82	53.73	74.00	-20.27 peak

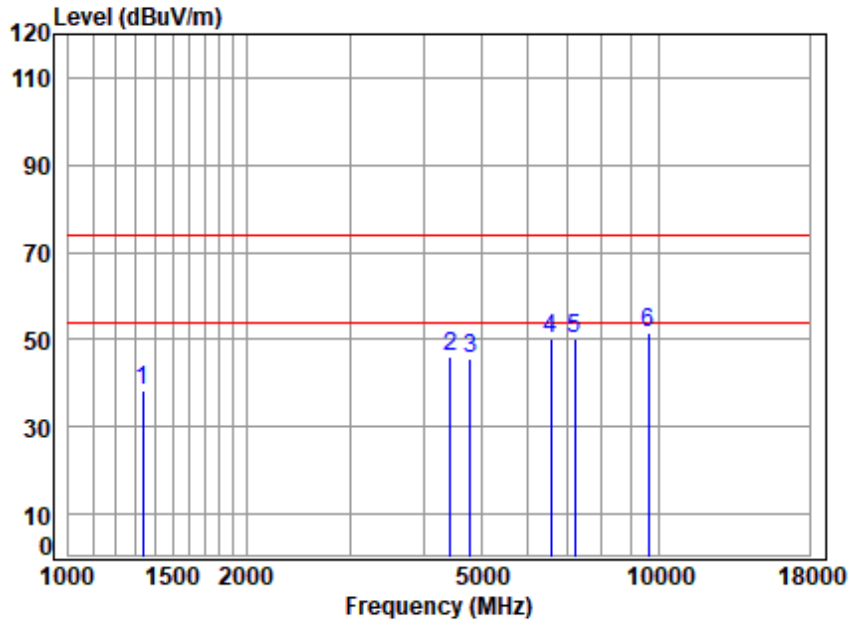


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



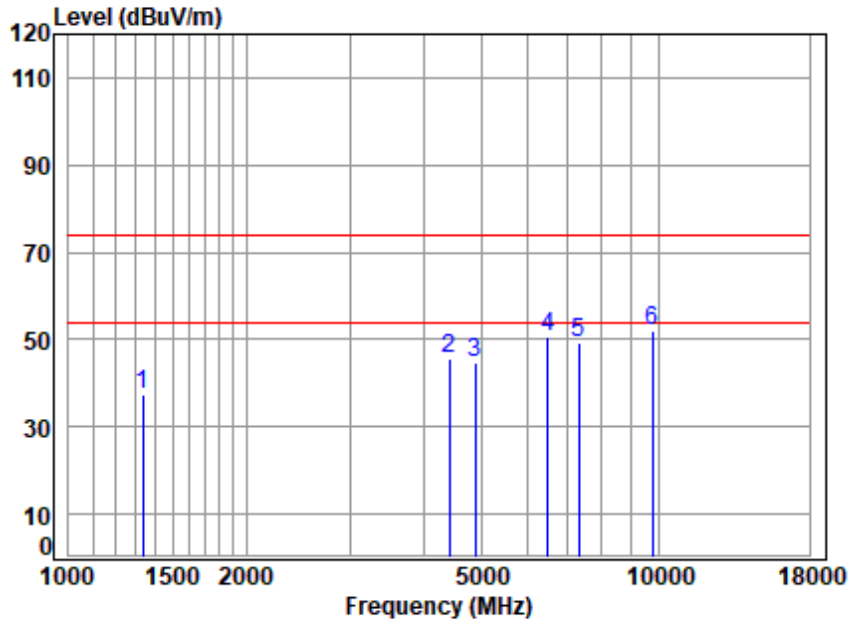
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2402 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1335.141	3.00	25.17	40.39	50.57	38.35	74.00	-35.65 peak
2	4430.628	6.70	33.48	42.50	48.57	46.25	74.00	-27.75 peak
3	4804.000	7.10	33.97	42.77	47.18	45.48	74.00	-28.52 peak
4	6564.209	8.31	35.64	41.92	48.27	50.30	74.00	-23.70 peak
5	7206.000	8.74	36.07	41.58	47.18	50.41	74.00	-23.59 peak
6	9608.000	10.81	37.67	38.57	41.69	51.60	74.00	-22.40 peak



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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



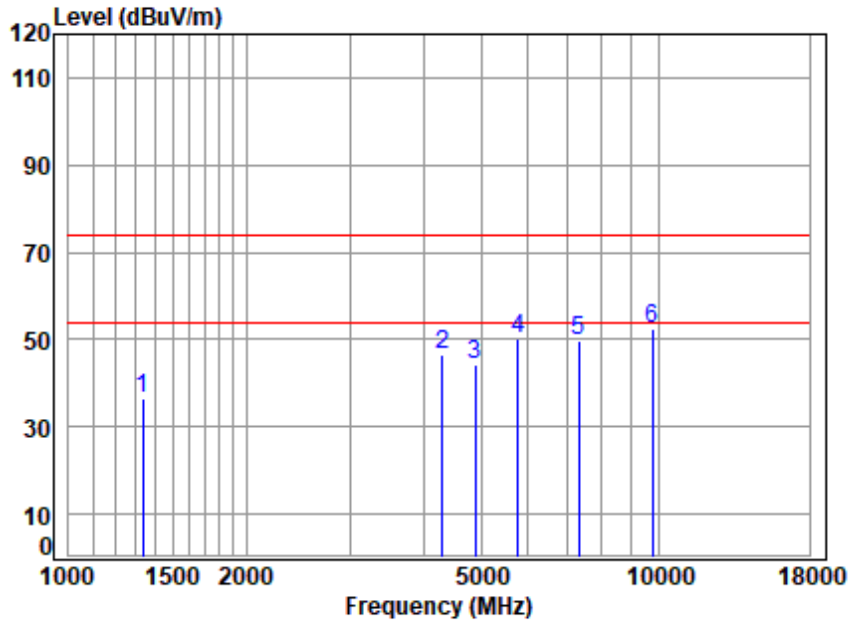
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2441 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1335.141	3.00	25.17	40.39	49.45	37.23	74.00	-36.77 peak
2	4417.841	6.68	33.46	42.49	47.99	45.64	74.00	-28.36 peak
3	4882.000	7.18	34.06	42.82	46.17	44.59	74.00	-29.41 peak
4	6488.754	8.28	35.59	41.96	48.52	50.43	74.00	-23.57 peak
5	7323.000	8.85	36.16	41.52	45.86	49.35	74.00	-24.65 peak
6	9764.000	10.76	37.76	38.34	41.68	51.86	74.00	-22.14 peak



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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



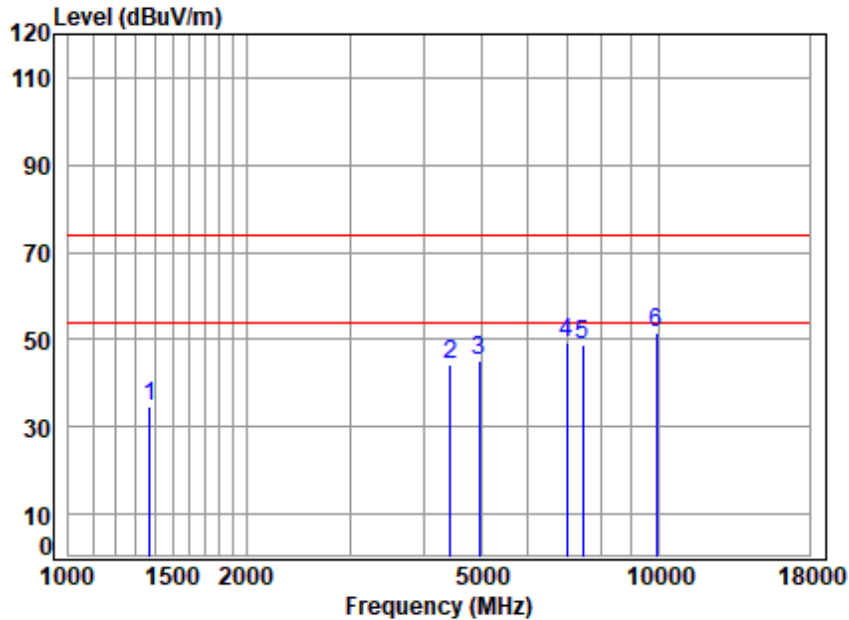
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2441 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1335.141	3.00	25.17	40.39	48.60	36.38	74.00	-37.62 peak
2	4304.400	6.58	33.26	42.40	48.97	46.41	74.00	-27.59 peak
3	4882.000	7.18	34.06	42.82	45.88	44.30	74.00	-29.70 peak
4	5780.300	8.23	34.89	42.38	49.31	50.05	74.00	-23.95 peak
5	7323.000	8.85	36.16	41.52	46.47	49.96	74.00	-24.04 peak
6	9764.000	10.76	37.76	38.34	42.43	52.61	74.00	-21.39 peak



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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2480 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1374.295	3.07	25.33	40.42	46.75	34.73	74.00	-39.27 peak
2	4430.628	6.70	33.48	42.50	46.40	44.08	74.00	-29.92 peak
3	4960.000	7.26	34.15	42.87	46.56	45.10	74.00	-28.90 peak
4	6995.172	8.54	35.90	41.69	46.31	49.06	74.00	-24.94 peak
5	7440.000	8.96	36.25	41.46	44.87	48.62	74.00	-25.38 peak
6	9920.000	10.71	37.85	38.12	41.06	51.50	74.00	-22.50 peak

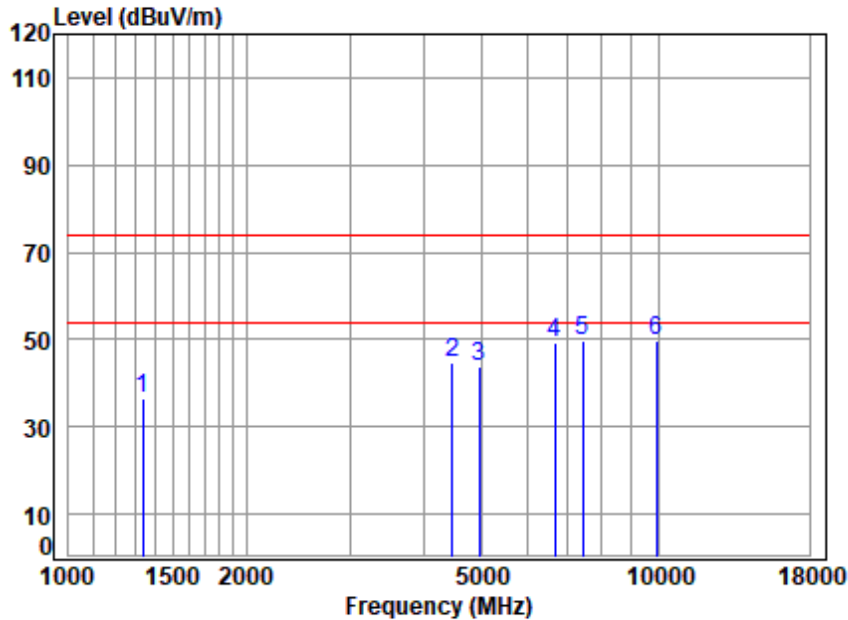


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



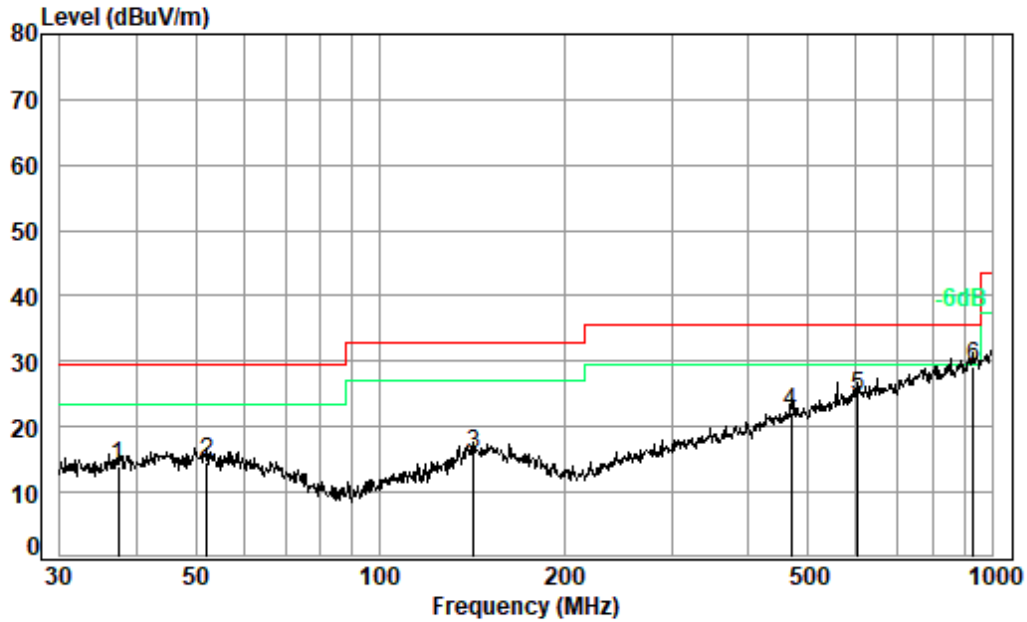
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2480 TX RSE
 Note : BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1335.141	3.00	25.17	40.39	48.73	36.51	74.00	-37.49 peak
2	4469.214	6.73	33.55	42.53	46.83	44.58	74.00	-29.42 peak
3	4960.000	7.26	34.15	42.87	45.27	43.81	74.00	-30.19 peak
4	6659.763	8.37	35.70	41.86	47.09	49.30	74.00	-24.70 peak
5	7440.000	8.96	36.25	41.46	46.06	49.81	74.00	-24.19 peak
6	9920.000	10.71	37.85	38.12	39.29	49.73	74.00	-24.27 peak



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Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 12515CR

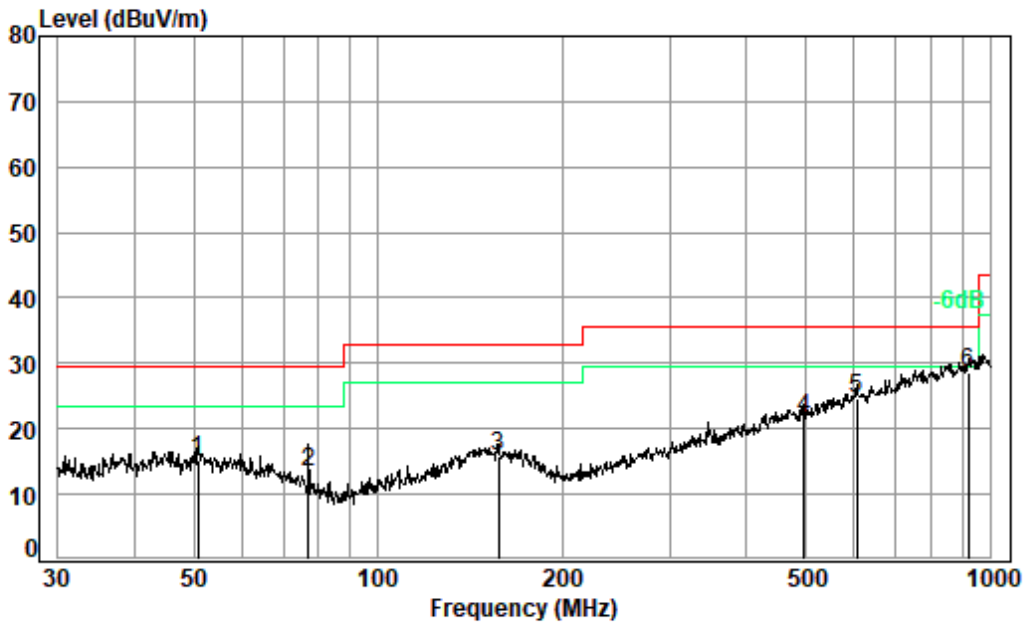
Test Mode: 07

	Ant Freq	Preamp Factor	Cable Loss	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dB	
1	37.416	19.86	32.50	0.92	25.67	13.95	29.50 -15.55 QP
2	52.208	19.92	32.50	0.98	26.25	14.65	29.50 -14.85 QP
3	142.324	19.82	32.42	1.46	26.85	15.71	33.00 -17.29 QP
4	470.523	23.70	32.30	2.69	28.21	22.30	35.60 -13.30 QP
5	603.539	26.24	32.30	3.09	27.67	24.70	35.60 -10.90 QP
6 pp	932.272	29.80	31.30	3.52	27.23	29.25	35.60 -6.35 QP



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Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL
 Job No. : 12515CR
 Test Mode: 07

	Ant Freq	Preamp Factor	Cable Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.764	20.15	32.50	0.97	26.62	15.24	29.50	-14.26 QP
2	77.051	15.64	32.47	1.14	29.20	13.51	29.50	-15.99 QP
3	157.559	19.90	32.42	1.51	26.69	15.68	33.00	-17.32 QP
4	497.677	23.98	32.30	2.79	27.17	21.64	35.60	-13.96 QP
5	605.659	26.33	32.30	3.10	27.60	24.73	35.60	-10.87 QP
6 pp	922.516	29.80	31.39	3.50	26.81	28.72	35.60	-6.88 QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

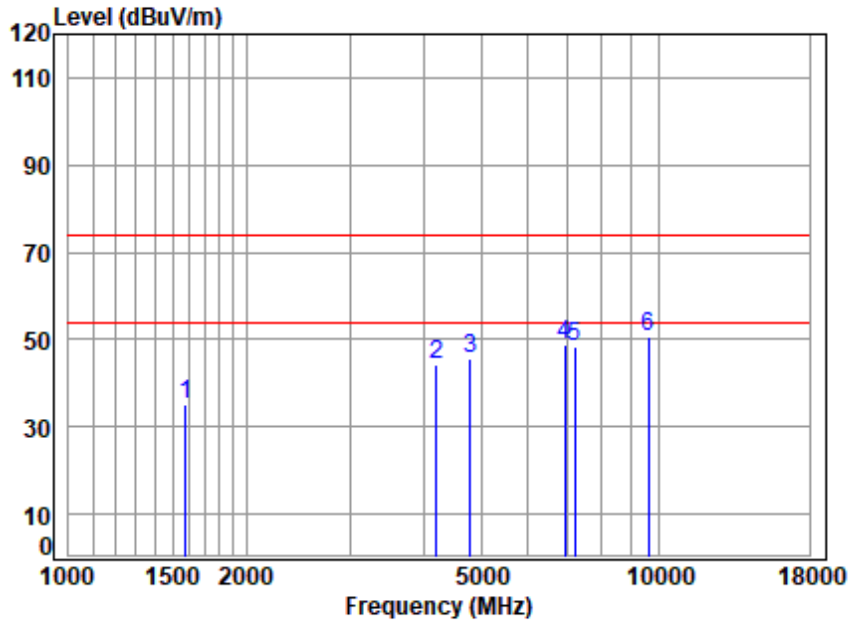
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
50.764	15.24	5.78	19.27	25.70	40.00	-14.30	V
77.051	13.51	4.74	15.79	23.97	40.00	-16.03	V
157.559	15.68	6.08	20.27	26.14	43.50	-17.36	V
497.677	21.64	12.08	40.26	32.10	46.00	-13.90	V
605.659	24.73	17.24	57.46	35.19	46.00	-10.81	V
922.516	28.72	27.29	90.97	39.18	46.00	-6.82	V
37.416	13.95	4.98	16.61	24.41	40.00	-15.59	H
52.208	14.65	5.40	18.00	25.11	40.00	-14.89	H
142.324	15.71	6.10	20.34	26.17	43.50	-17.33	H
470.523	22.30	13.03	43.44	32.76	46.00	-13.24	H
603.539	24.70	17.18	57.26	35.16	46.00	-10.84	H
932.272	29.25	29.01	96.69	39.71	46.00	-6.29	H



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2402 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1578.822	3.33	26.16	40.56	46.39	35.32	74.00	-38.68 peak
2	4206.011	6.48	33.08	42.32	47.20	44.44	74.00	-29.56 peak
3	4804.000	7.10	33.97	42.77	47.40	45.70	74.00	-28.30 peak
4	6934.778	8.51	35.86	41.72	46.32	48.97	74.00	-25.03 peak
5	7206.000	8.74	36.07	41.58	45.15	48.38	74.00	-25.62 peak
6	9608.000	10.81	37.67	38.57	40.78	50.69	74.00	-23.31 peak

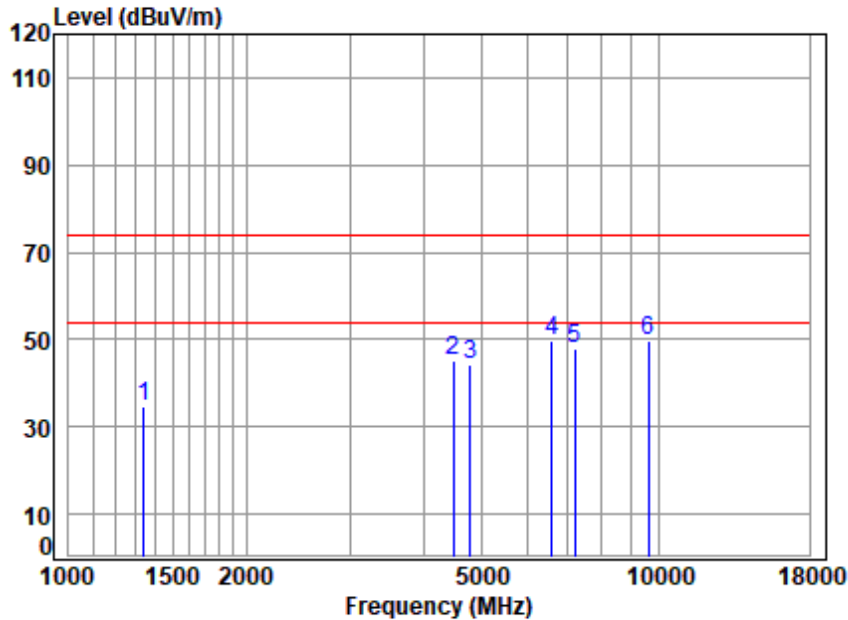


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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



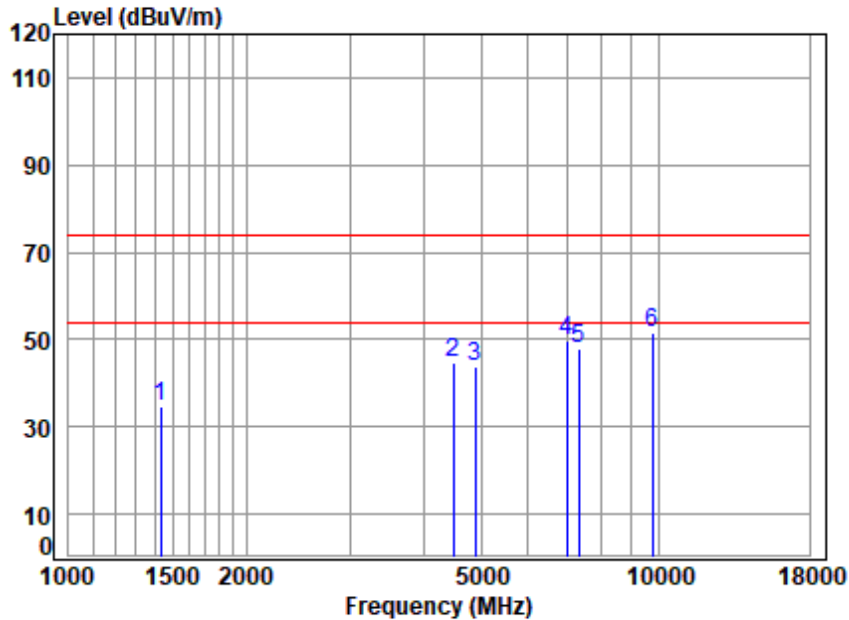
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2402 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1342.882	3.01	25.20	40.40	46.88	34.69	74.00	-39.31	peak
2	4482.150	6.74	33.57	42.54	47.31	45.08	74.00	-28.92	peak
3	4804.000	7.10	33.97	42.77	46.03	44.33	74.00	-29.67	peak
4	6583.209	8.32	35.65	41.91	47.61	49.67	74.00	-24.33	peak
5	7206.000	8.74	36.07	41.58	44.85	48.08	74.00	-25.92	peak
6	9608.000	10.81	37.67	38.57	39.80	49.71	74.00	-24.29	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



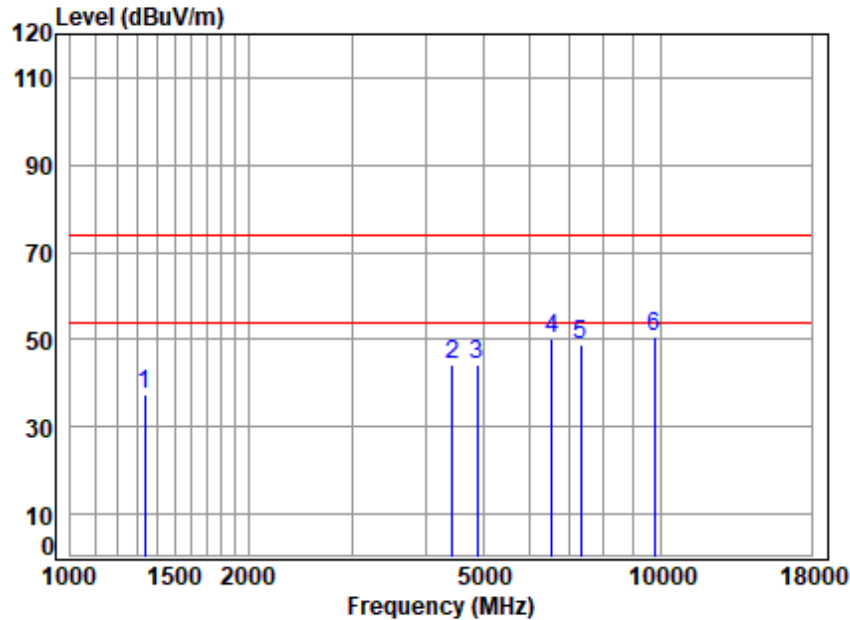
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2441 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1431.047	3.16	25.54	40.46	46.37	34.61	74.00	-39.39 peak
2	4495.125	6.76	33.59	42.55	47.06	44.86	74.00	-29.14 peak
3	4882.000	7.18	34.06	42.82	45.60	44.02	74.00	-29.98 peak
4	6995.172	8.54	35.90	41.69	46.92	49.67	74.00	-24.33 peak
5	7323.000	8.85	36.16	41.52	44.56	48.05	74.00	-25.95 peak
6	9764.000	10.76	37.76	38.34	41.25	51.43	74.00	-22.57 peak



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



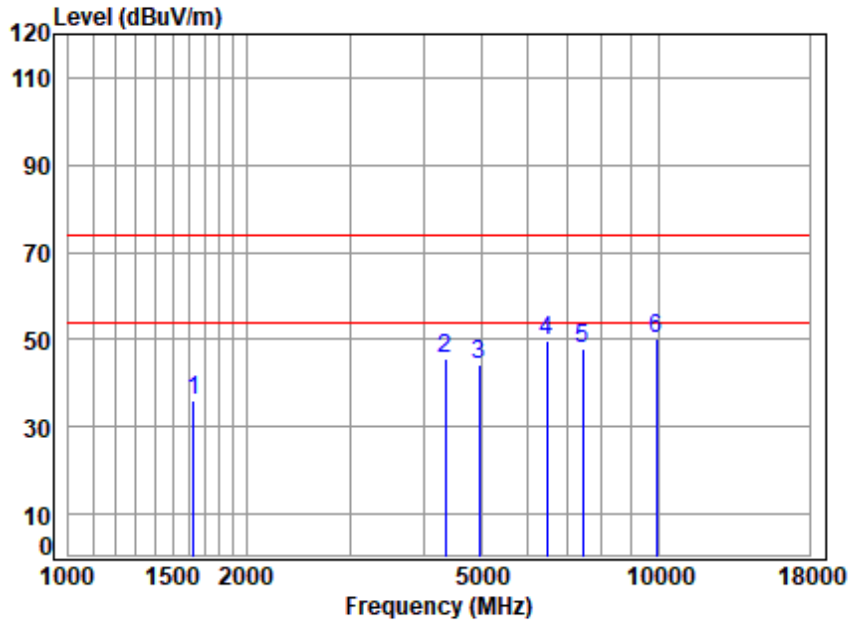
Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2441 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1335.141	3.00	25.17	40.39	49.48	37.26	74.00	-36.74 peak
2	4430.628	6.70	33.48	42.50	46.72	44.40	74.00	-29.60 peak
3	4882.000	7.18	34.06	42.82	45.71	44.13	74.00	-29.87 peak
4	6545.263	8.30	35.63	41.93	47.97	49.97	74.00	-24.03 peak
5	7323.000	8.85	36.16	41.52	45.52	49.01	74.00	-24.99 peak
6	9764.000	10.76	37.76	38.34	40.68	50.86	74.00	-23.14 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



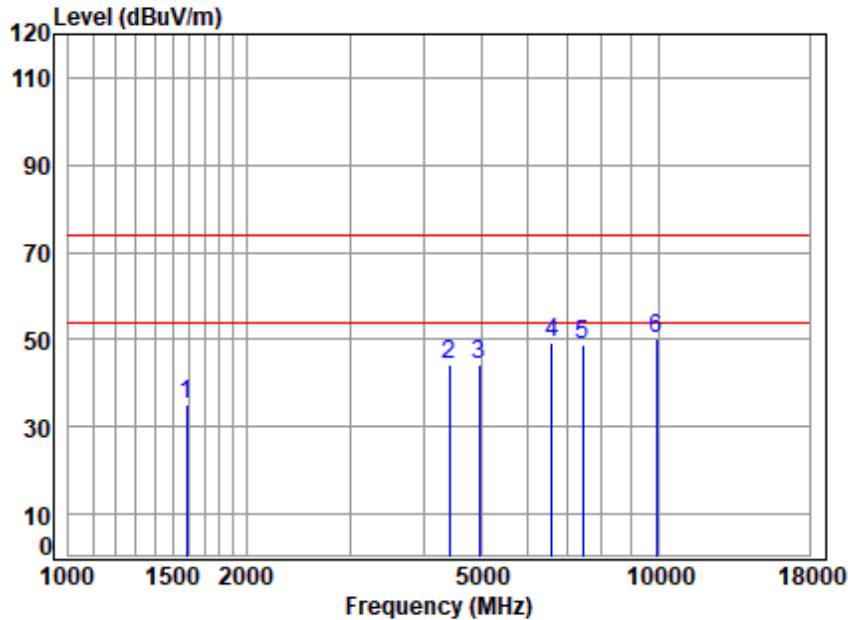
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12515CR12519CR
 Mode : 2480 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1629.825	3.37	26.38	40.59	46.79	35.95	74.00	-38.05 peak
2	4354.454	6.63	33.35	42.44	48.05	45.59	74.00	-28.41 peak
3	4960.000	7.26	34.15	42.87	45.85	44.39	74.00	-29.61 peak
4	6470.026	8.28	35.57	41.97	47.86	49.74	74.00	-24.26 peak
5	7440.000	8.96	36.25	41.46	44.38	48.13	74.00	-25.87 peak
6	9920.000	10.71	37.85	38.12	39.80	50.24	74.00	-23.76 peak



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 12515CR12519CR
 Mode : 2480 TX RSE
 Note : BT R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1583.392	3.33	26.18	40.56	46.24	35.19	74.00	-38.81 peak
2	4417.841	6.68	33.46	42.49	46.58	44.23	74.00	-29.77 peak
3	4960.000	7.26	34.15	42.87	45.63	44.17	74.00	-29.83 peak
4	6583.209	8.32	35.65	41.91	47.43	49.49	74.00	-24.51 peak
5	7440.000	8.96	36.25	41.46	45.24	48.99	74.00	-25.01 peak
6	9920.000	10.71	37.85	38.12	39.61	50.05	74.00	-23.95 peak



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8 Test Setup Photo

Refer to Setup Photos

9 EUT Constructional Details (EUT Photos)

Refer to EUT External and Internal photos



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10 Appendix

Appendix for 15.247

For Right earbuds:

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.253	PASS
	2441	SISO	1	1.329	PASS
	2480	SISO	1	1.245	PASS
Pi/4DQPSK	2402	SISO	1	1.204	PASS
	2441	SISO	1	1.219	PASS
	2480	SISO	1	1.202	PASS
8DPSK	2402	SISO	1	1.253	PASS
	2441	SISO	1	1.249	PASS
	2480	SISO	1	1.245	PASS

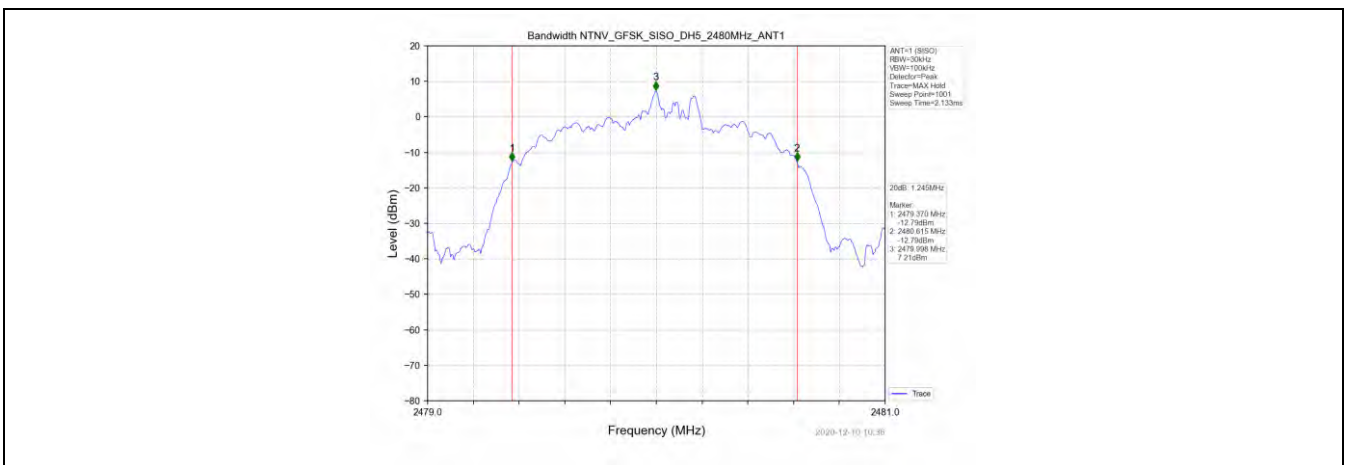
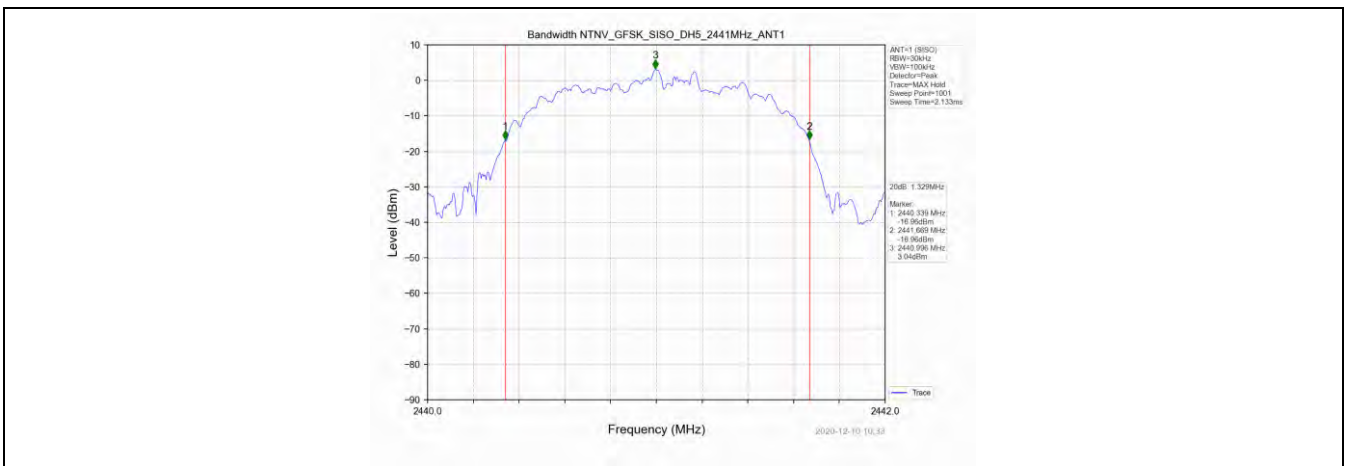
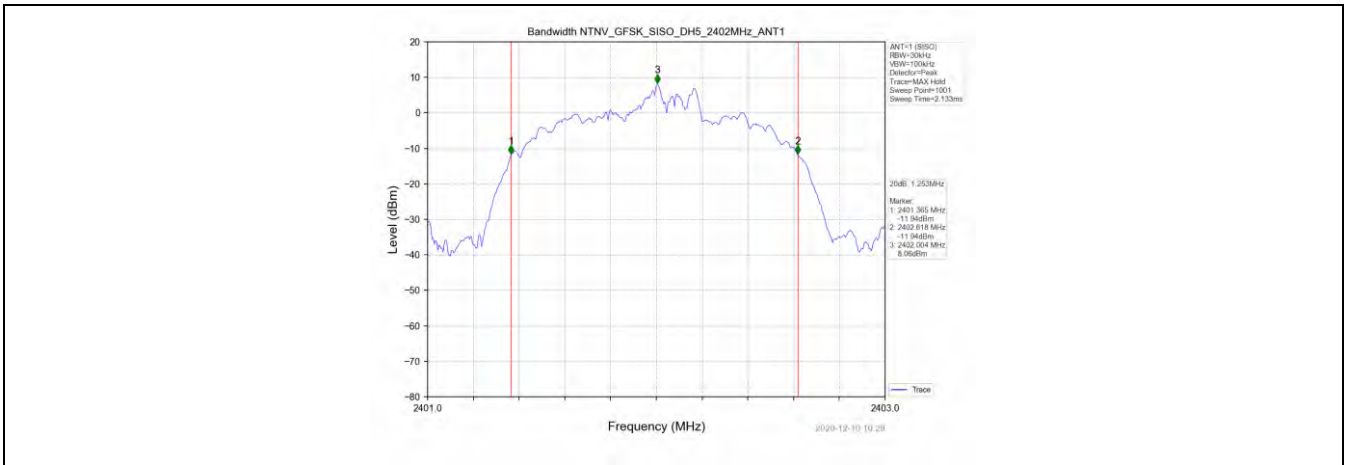
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	1.152	Only for Report Use
	2441	SISO	1	1.207	Only for Report Use
	2480	SISO	1	1.148	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.144	Only for Report Use
	2441	SISO	1	1.144	Only for Report Use
	2480	SISO	1	1.145	Only for Report Use
8DPSK	2402	SISO	1	1.166	Only for Report Use
	2441	SISO	1	1.154	Only for Report Use
	2480	SISO	1	1.148	Only for Report Use



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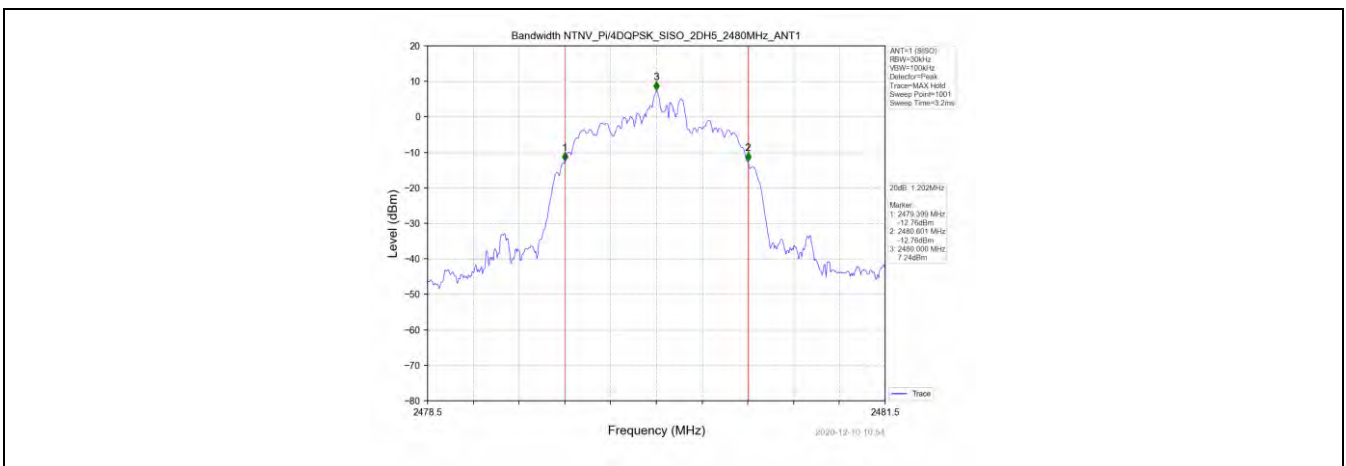
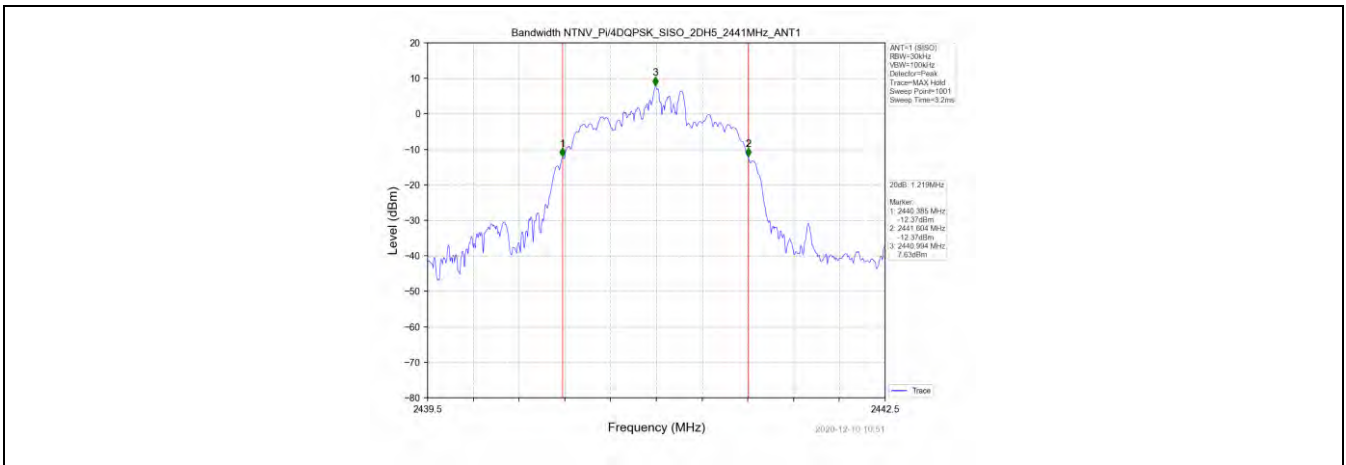
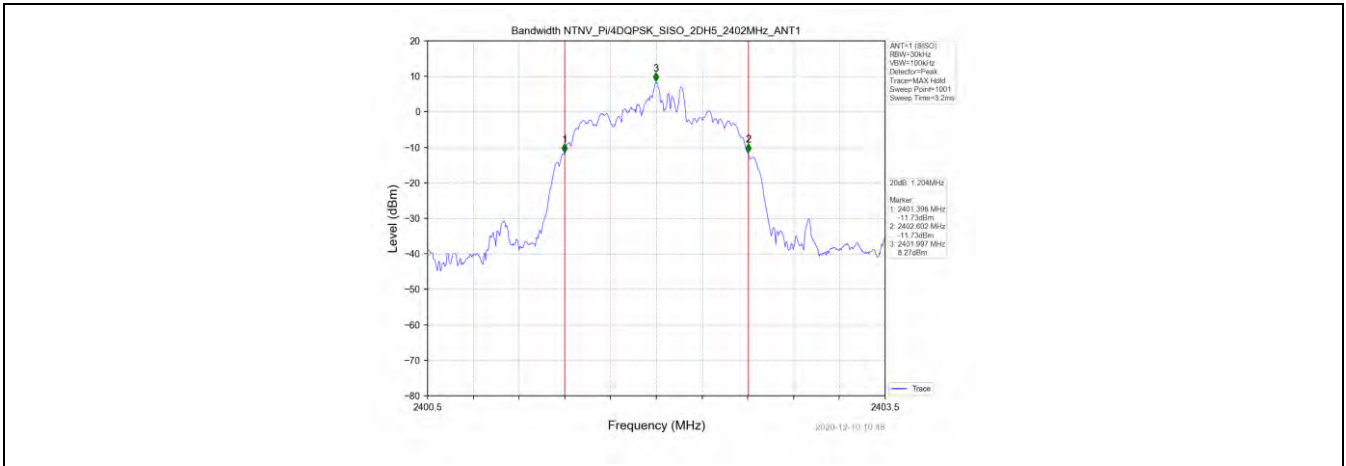
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1.2 Test Graph - 20dB Bandwidth



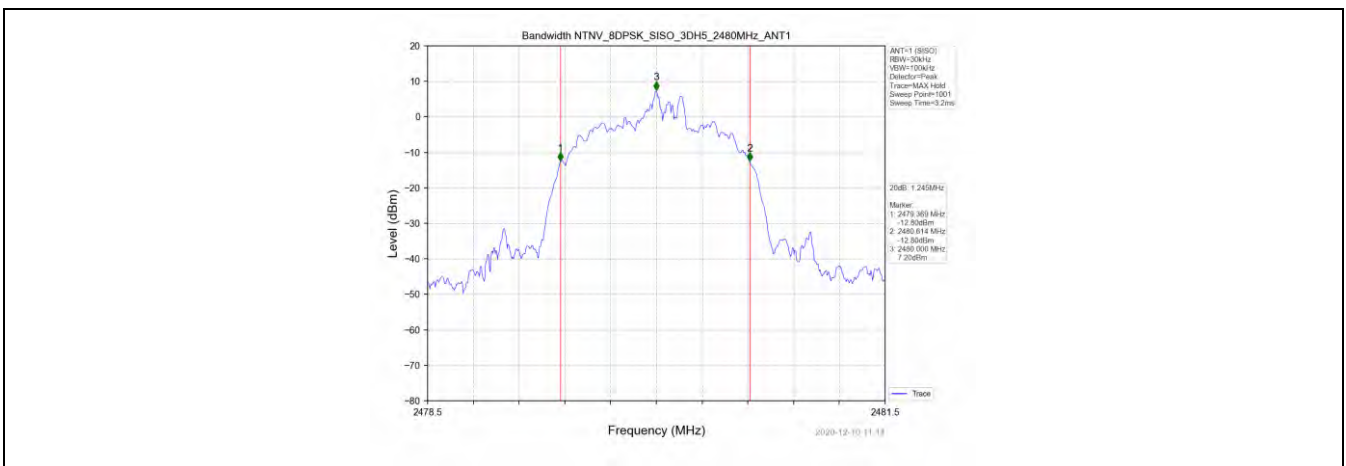
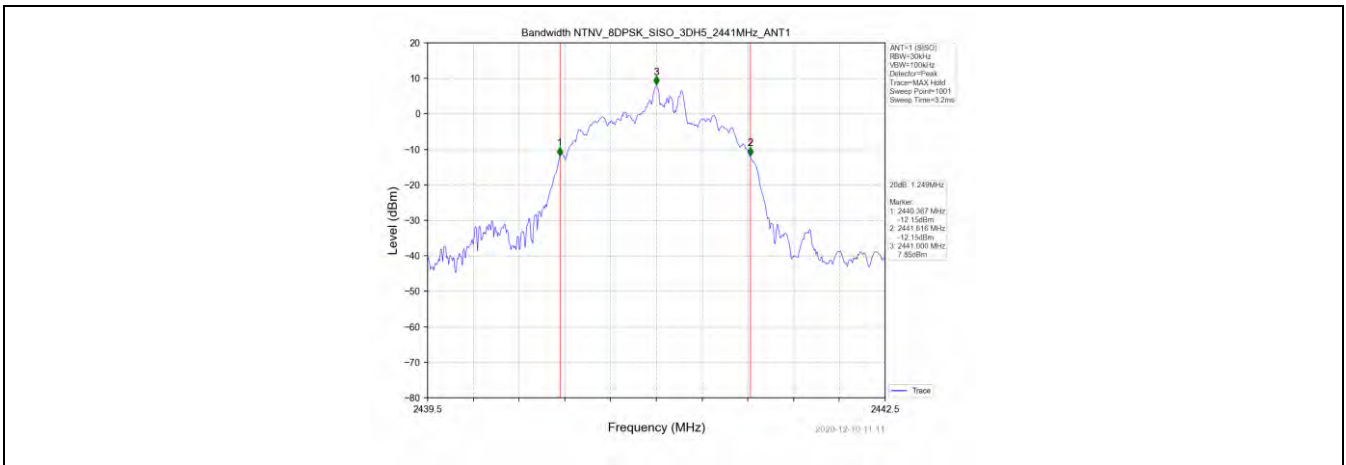
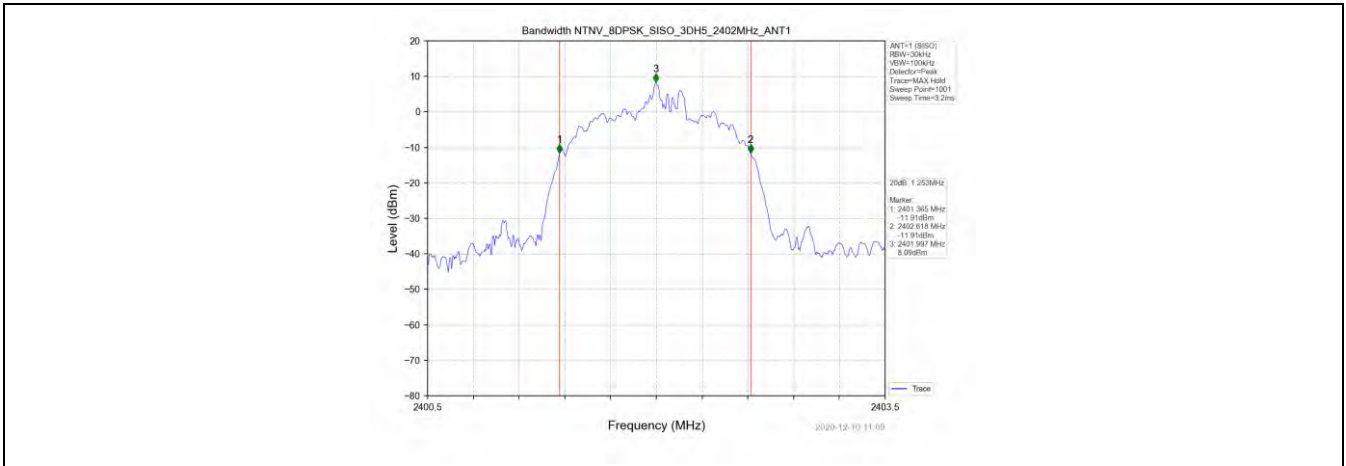
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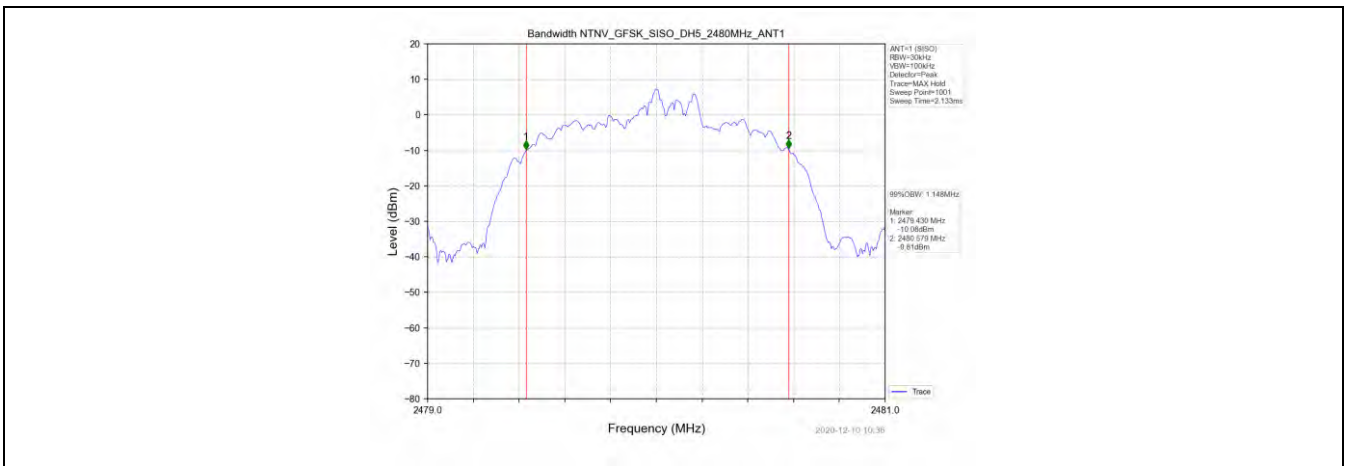
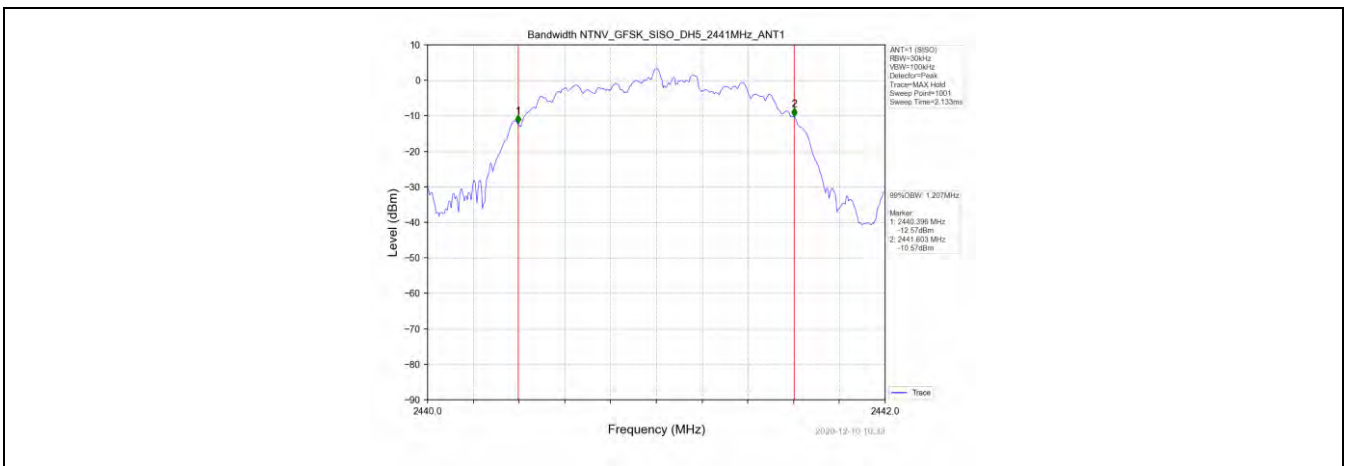
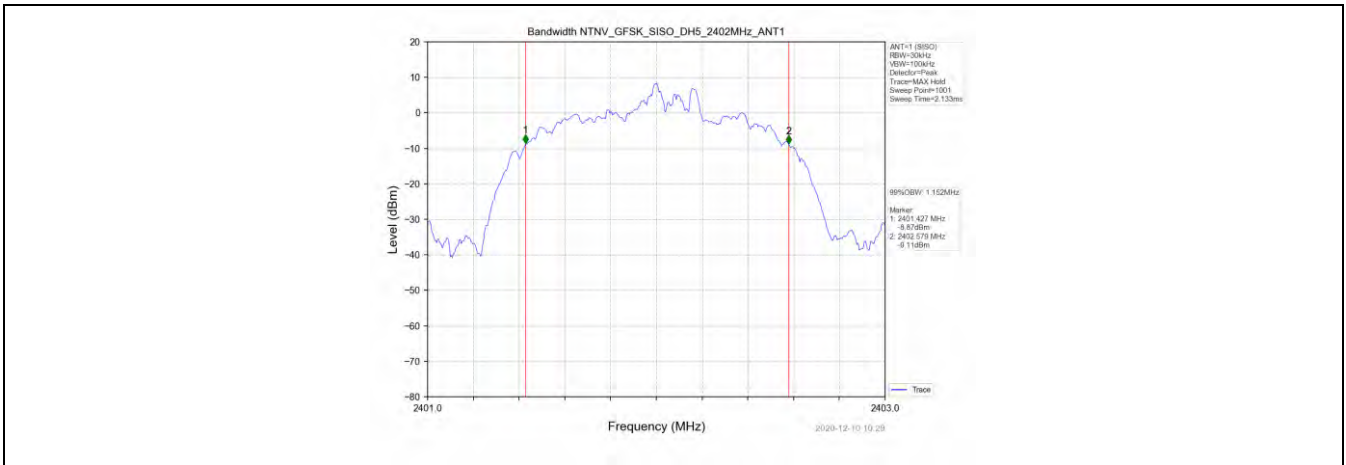
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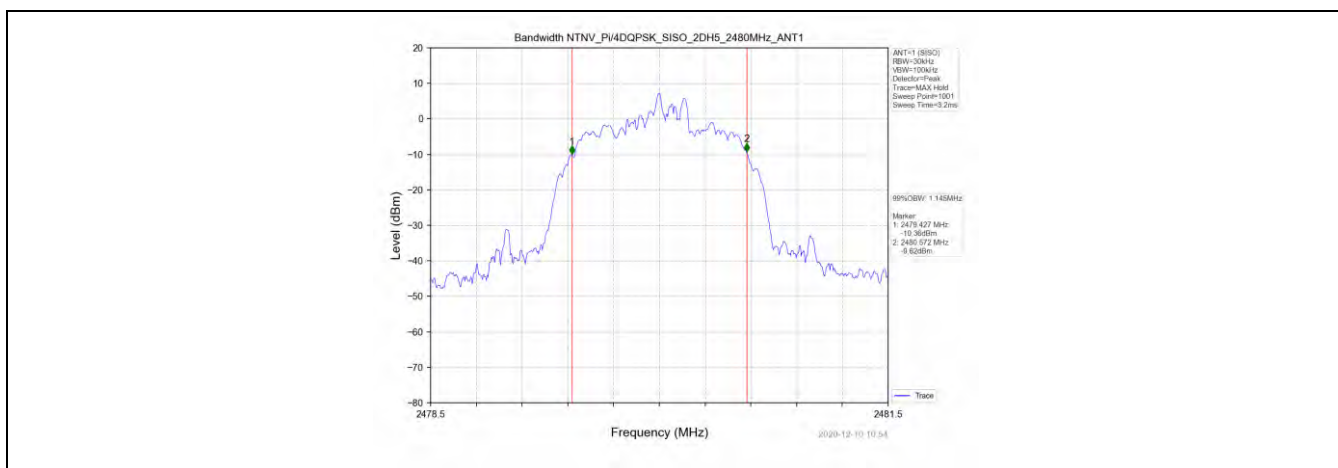
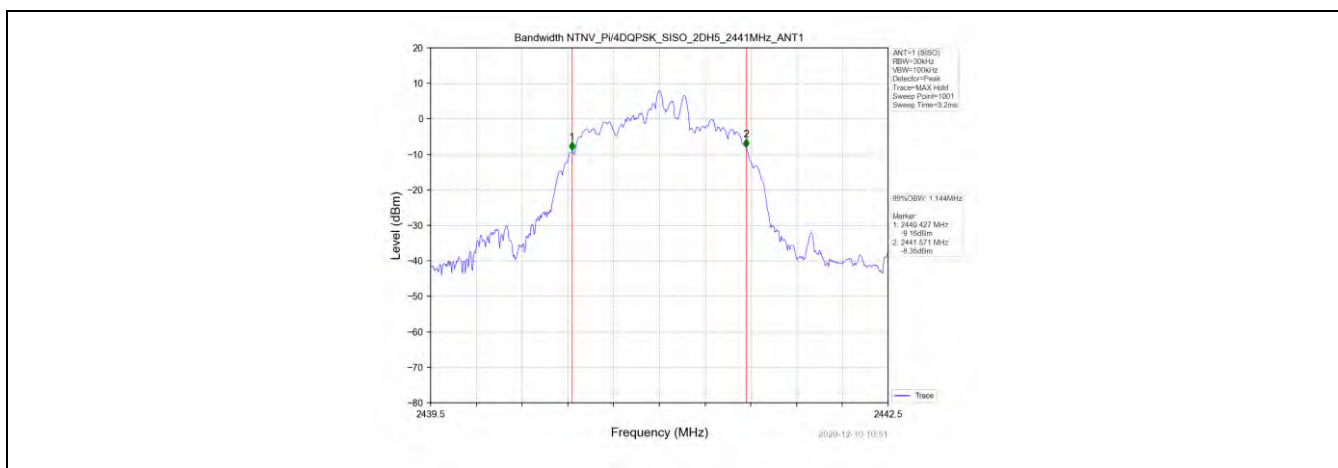
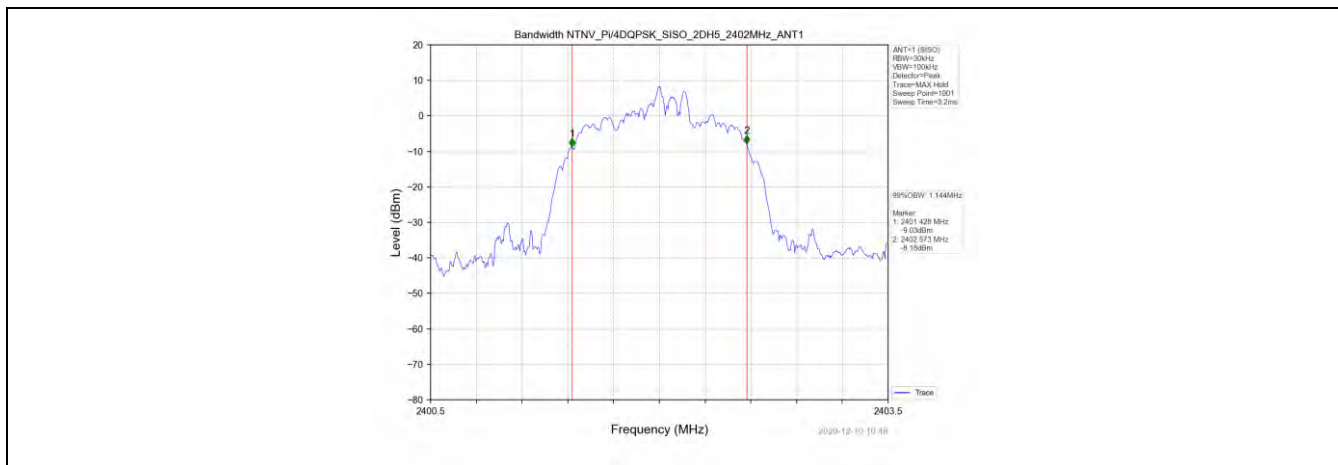
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1.3 Test Graph - 99% Occupied Bandwidth



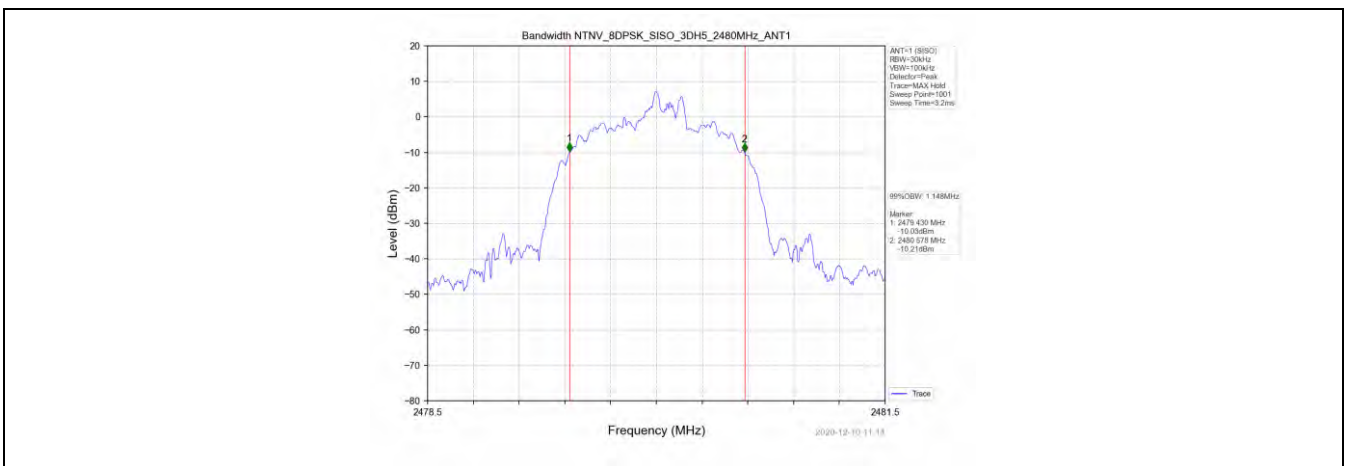
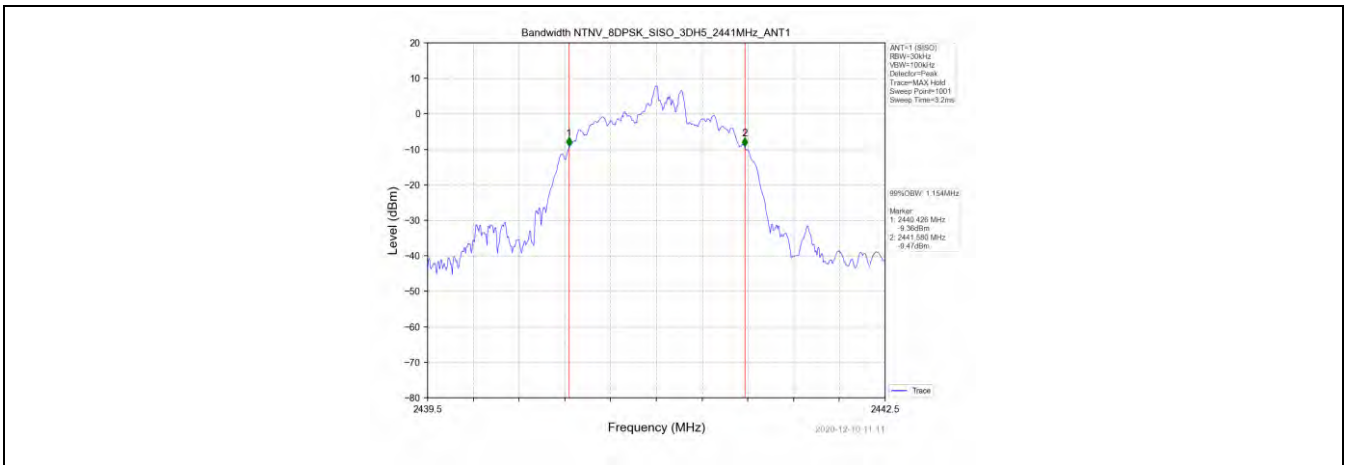
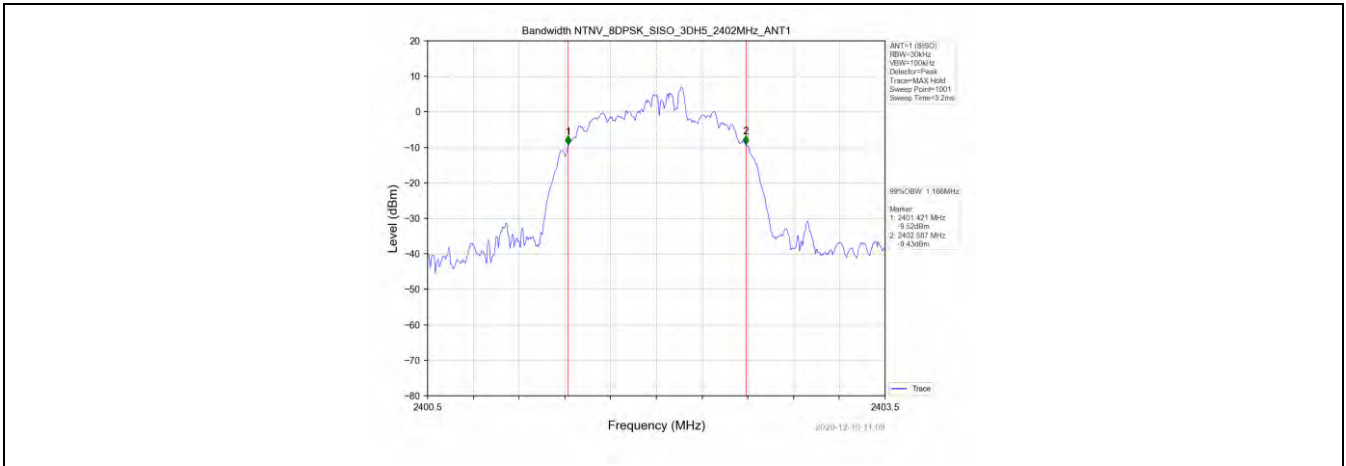
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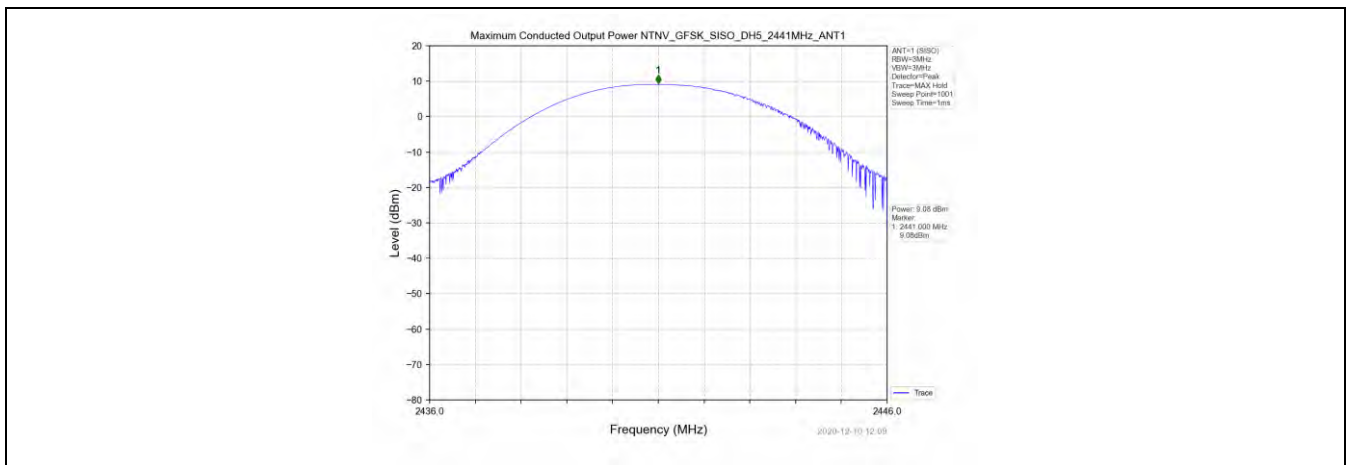
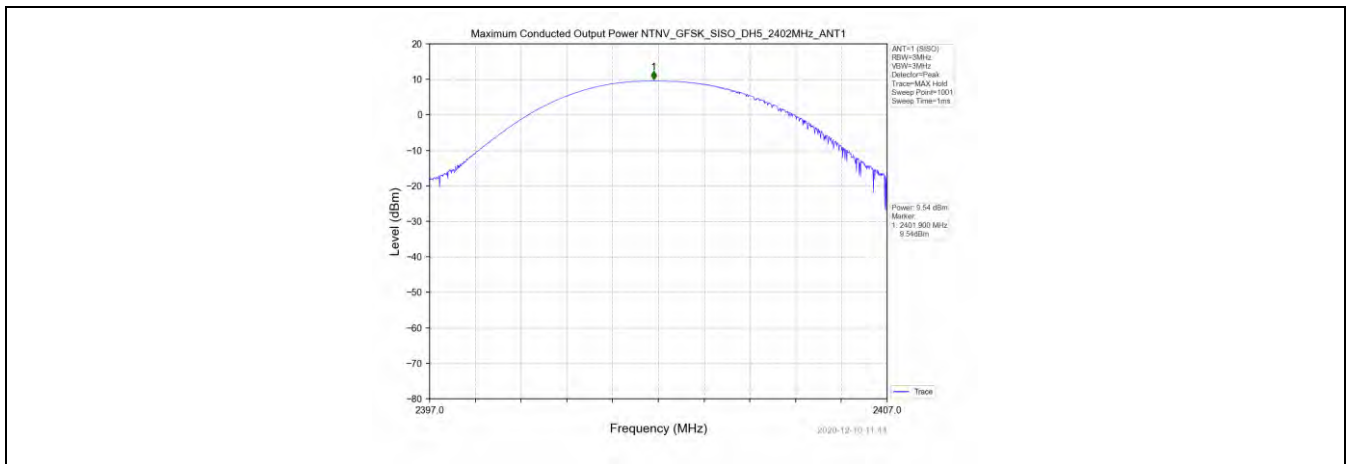
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	9.54	20.97	PASS
	2441	SISO	9.08	20.97	PASS
	2480	SISO	8.44	20.97	PASS
Pi/4DQPSK	2402	SISO	9.55	20.97	PASS
	2441	SISO	8.86	20.97	PASS
	2480	SISO	8.41	20.97	PASS
8DPSK	2402	SISO	9.53	20.97	PASS
	2441	SISO	8.88	20.97	PASS
	2480	SISO	8.40	20.97	PASS

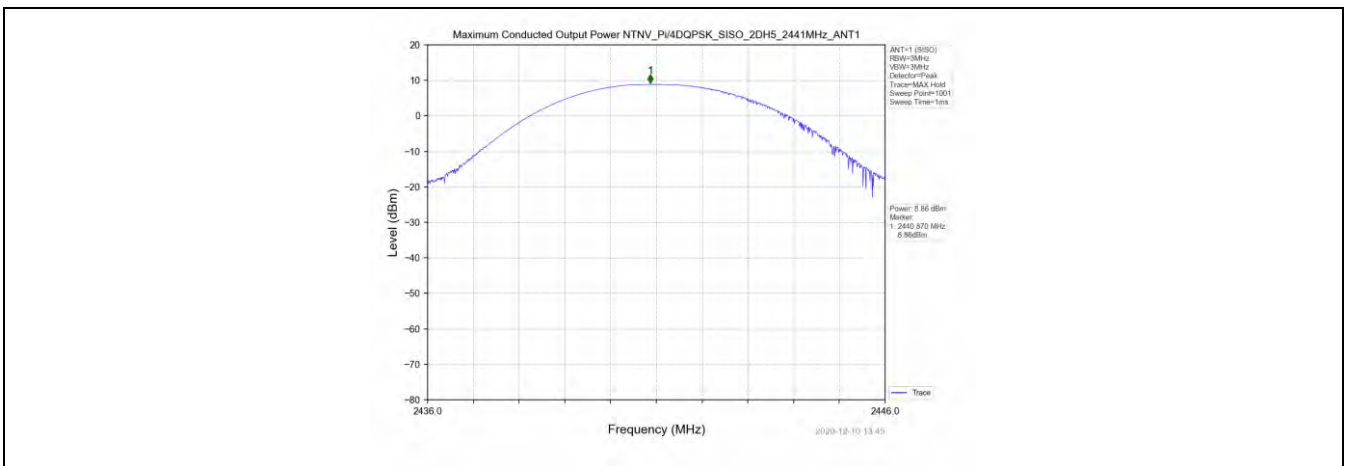
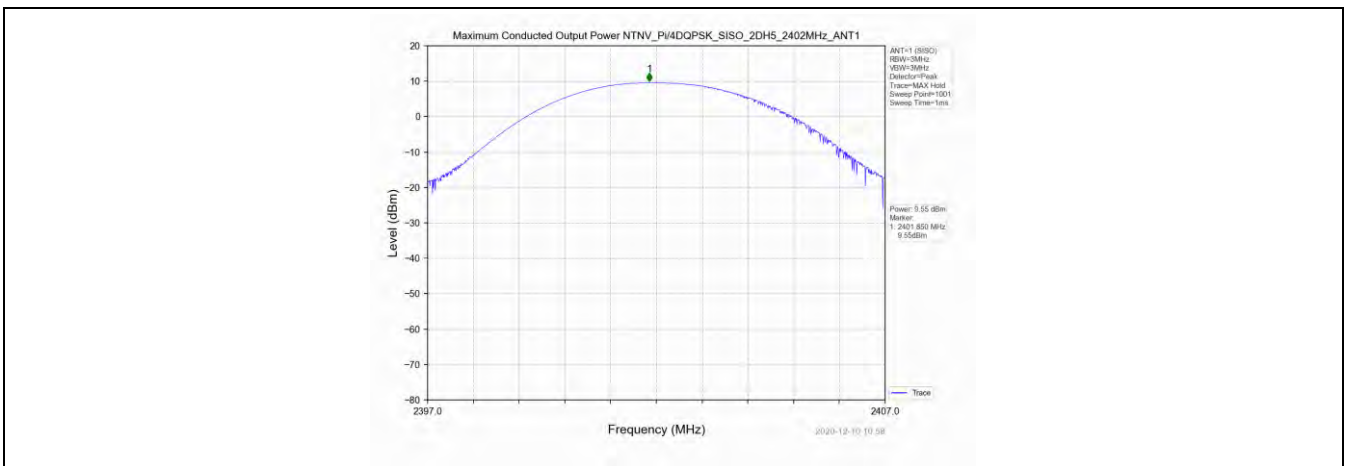
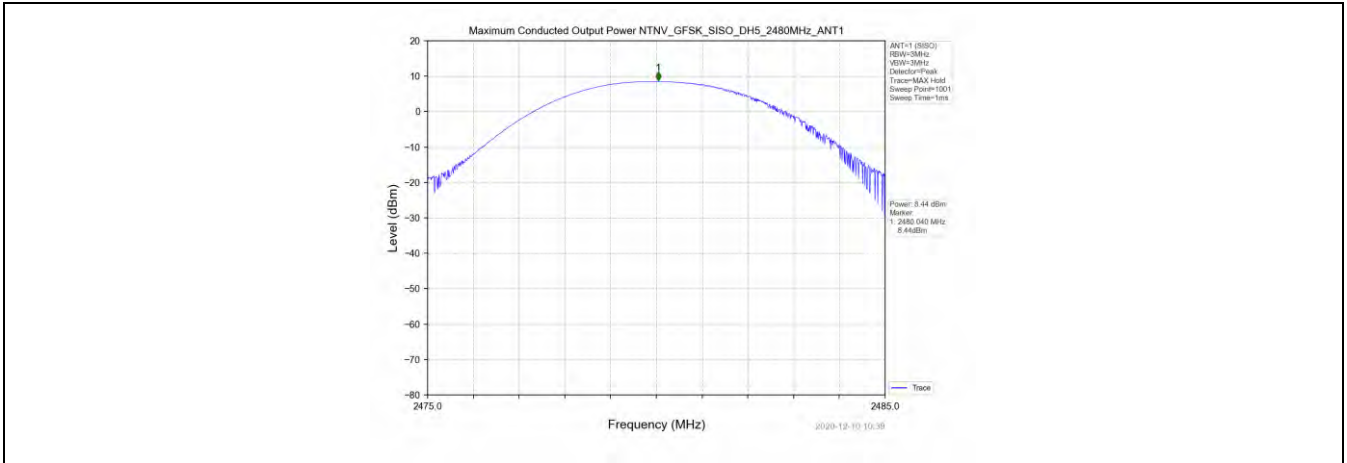
2.2 Test Graph



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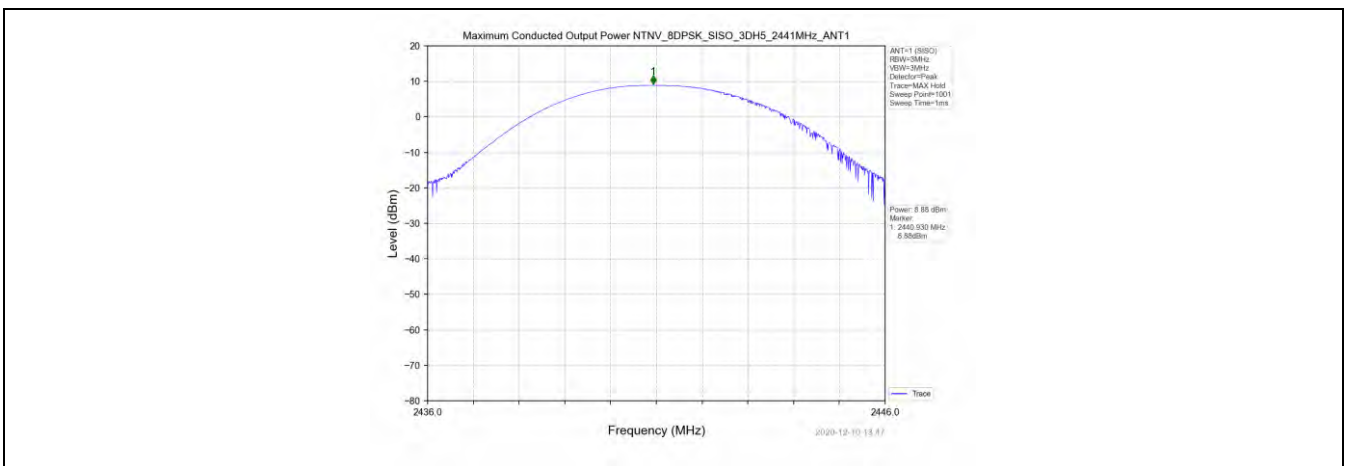
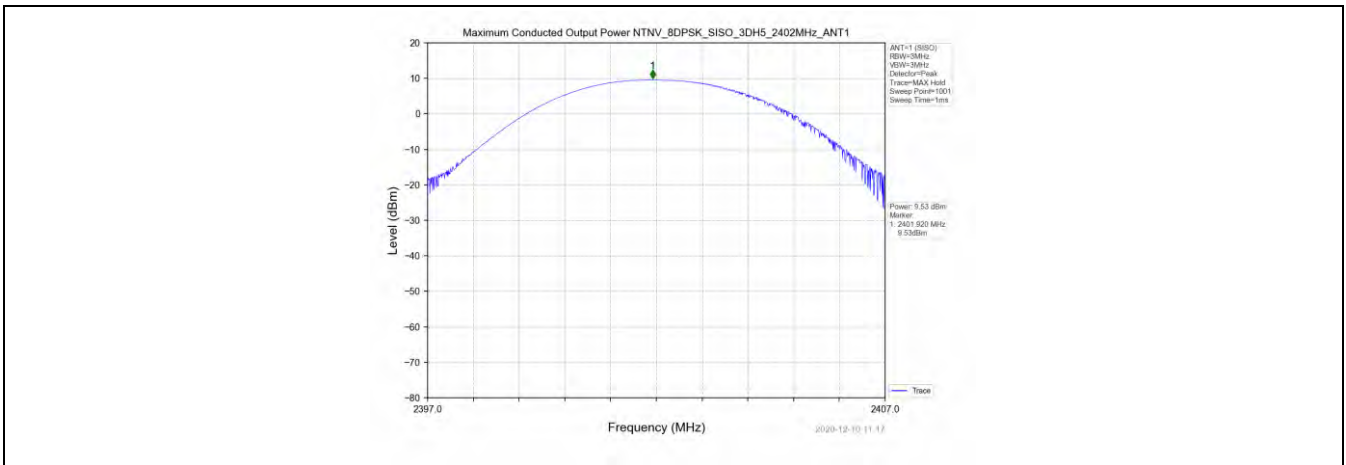
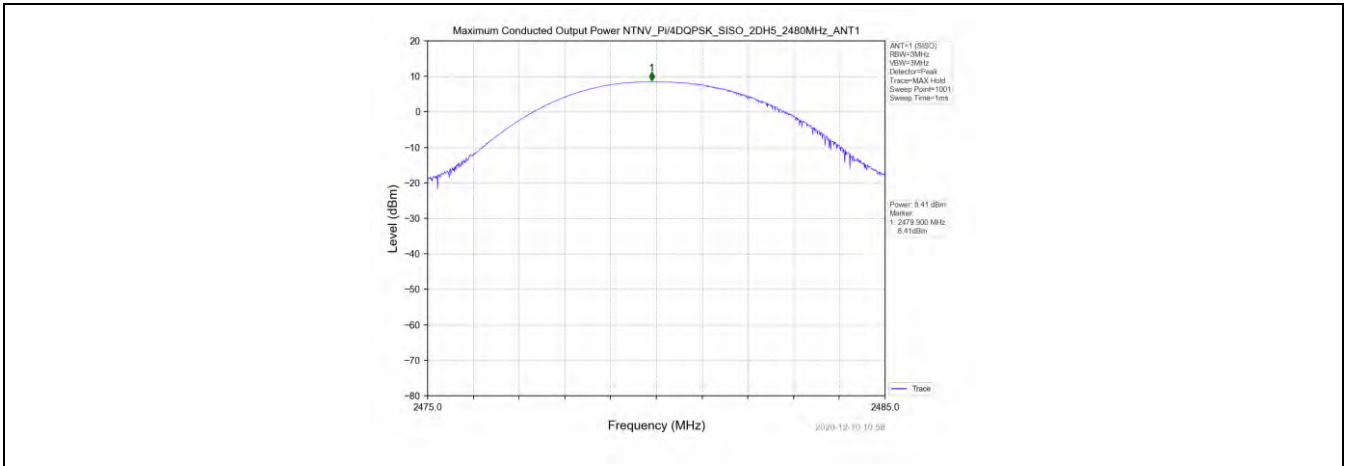
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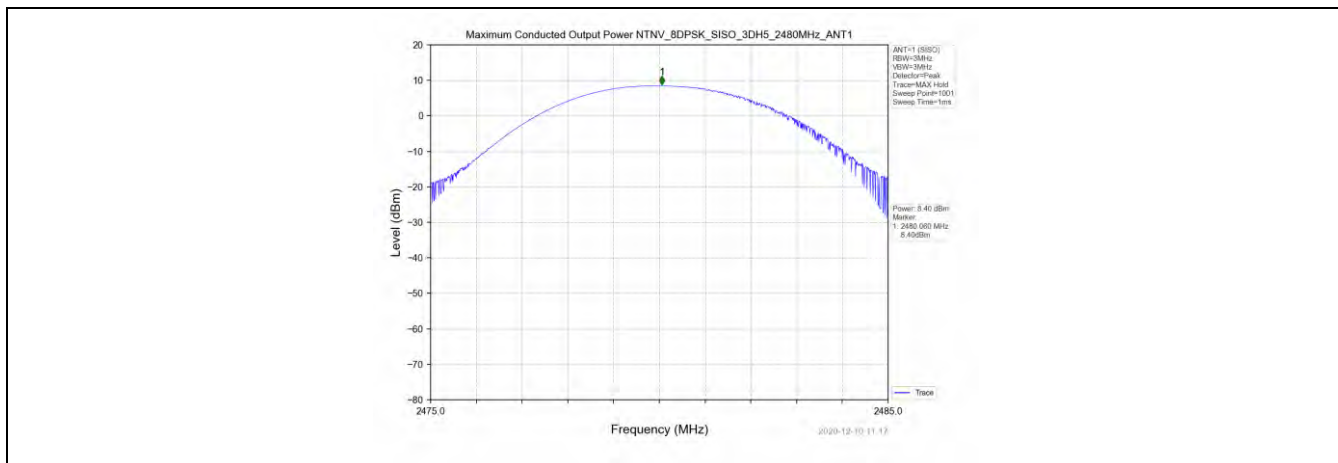


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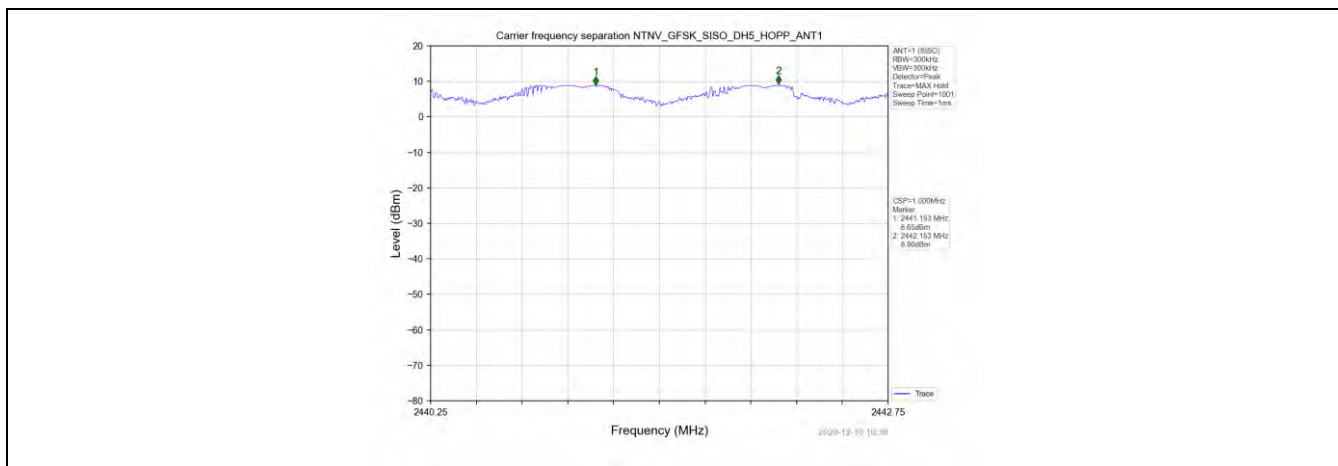


3. Carrier frequency separation

3.1 Test Result

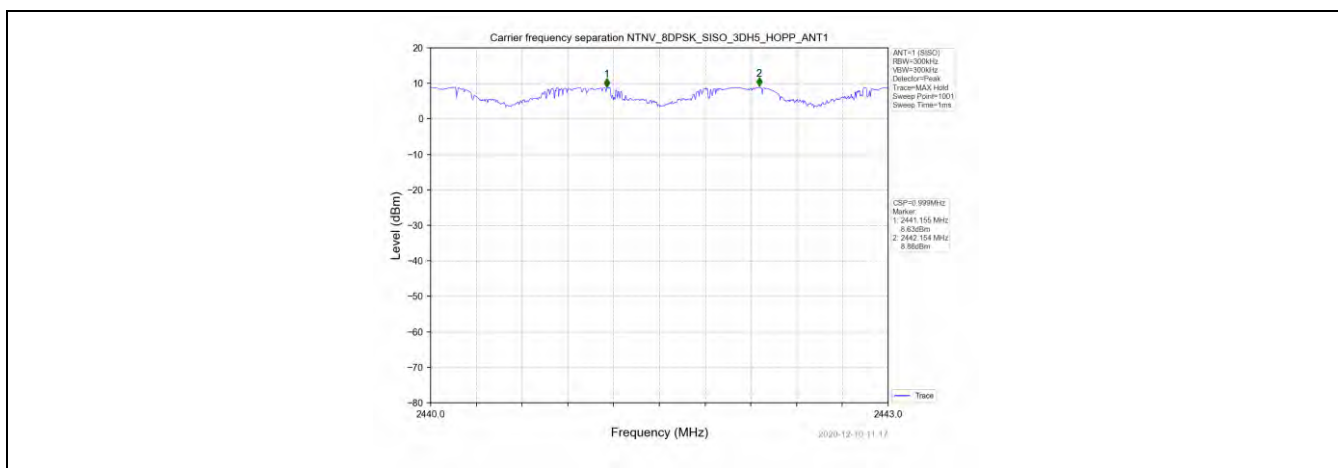
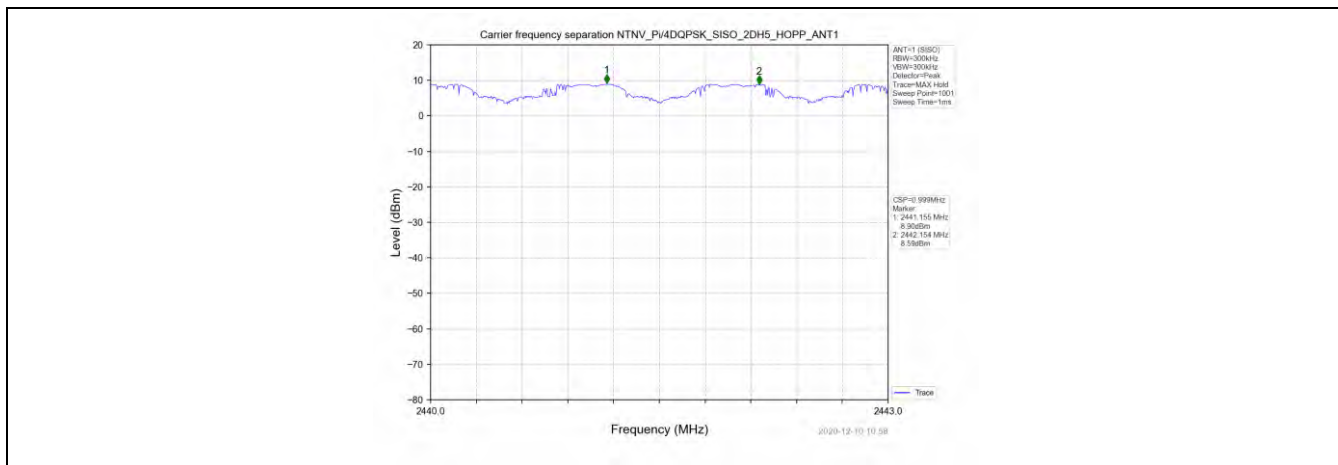
Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.329	≥0.886	PASS
Pi/4DQPSK	SISO	1	0.999	1.219	≥0.813	PASS
8DPSK	SISO	1	0.999	1.253	≥0.835	PASS

3.2 Test Graph



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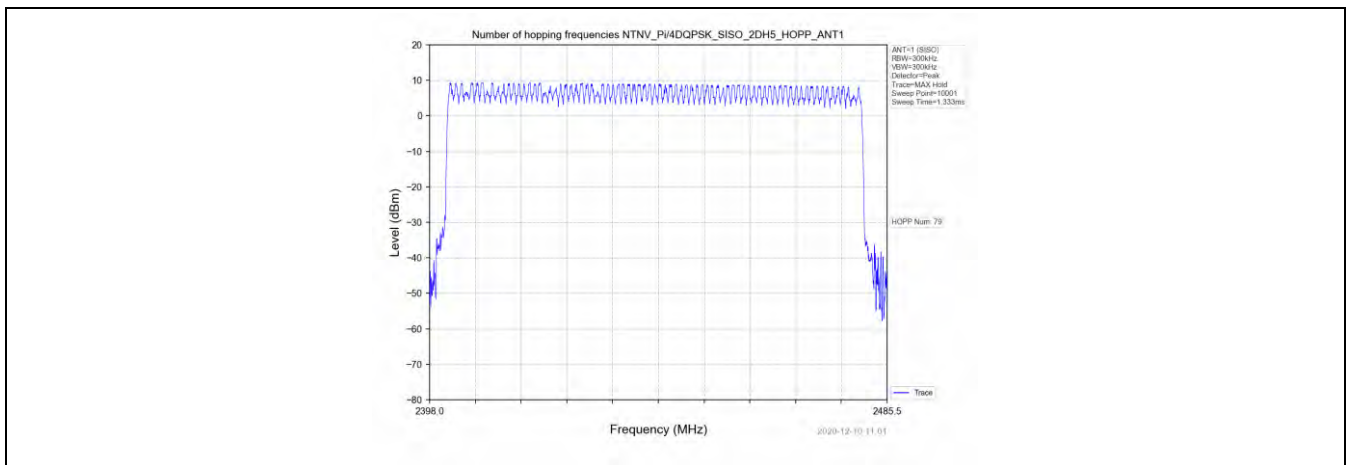
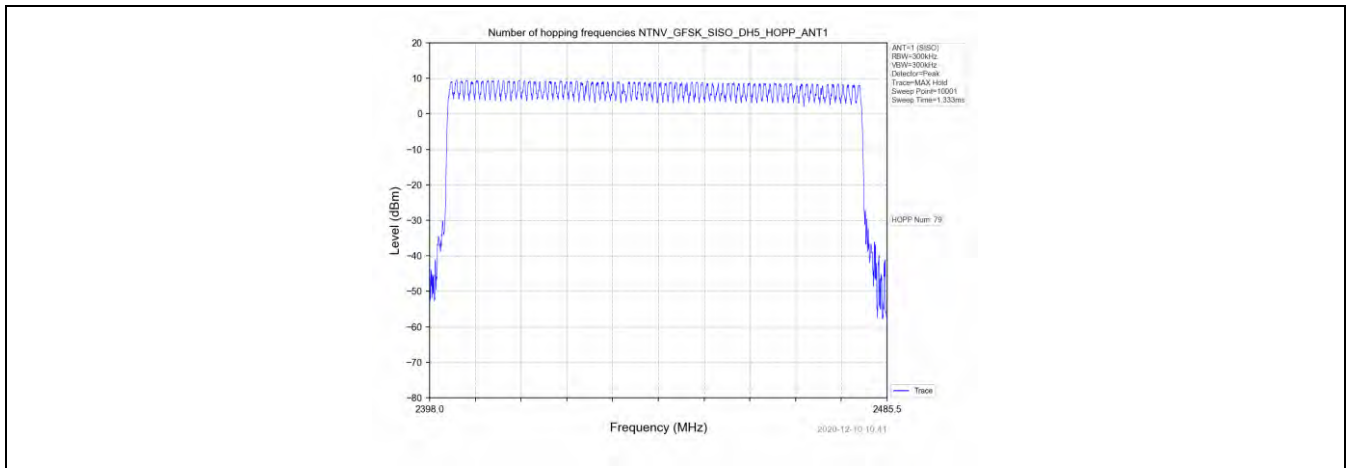
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4. Number of hopping frequencies

4.1 Test Result

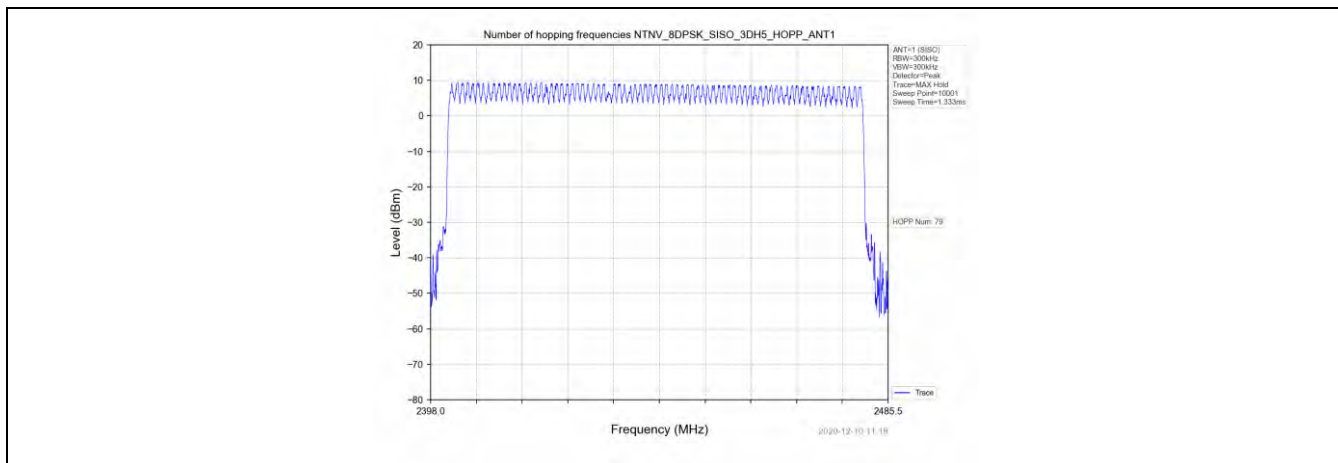
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph



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5. Time of Occupancy (Dwell Time)

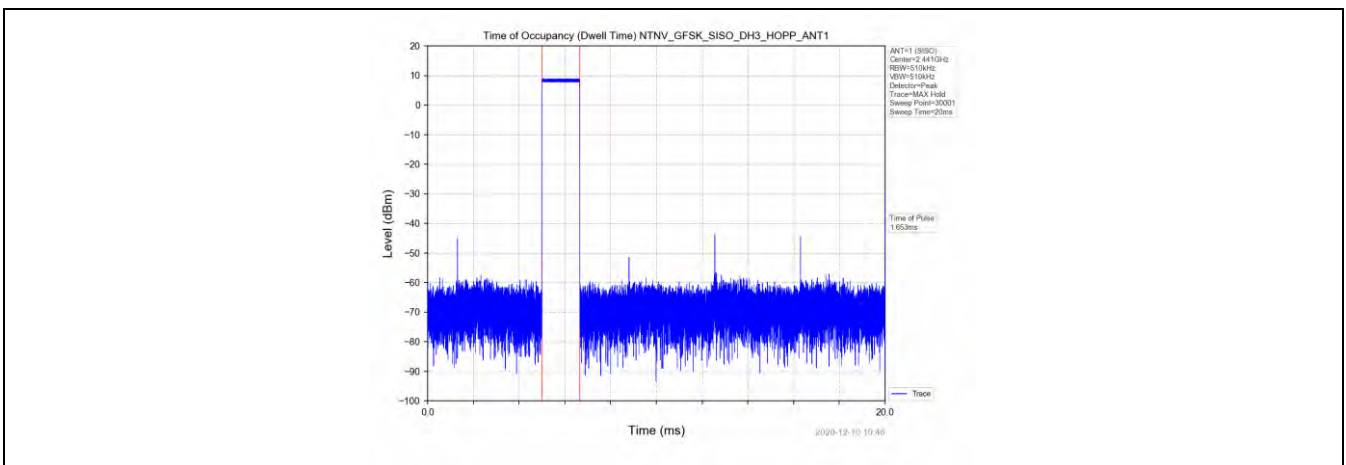
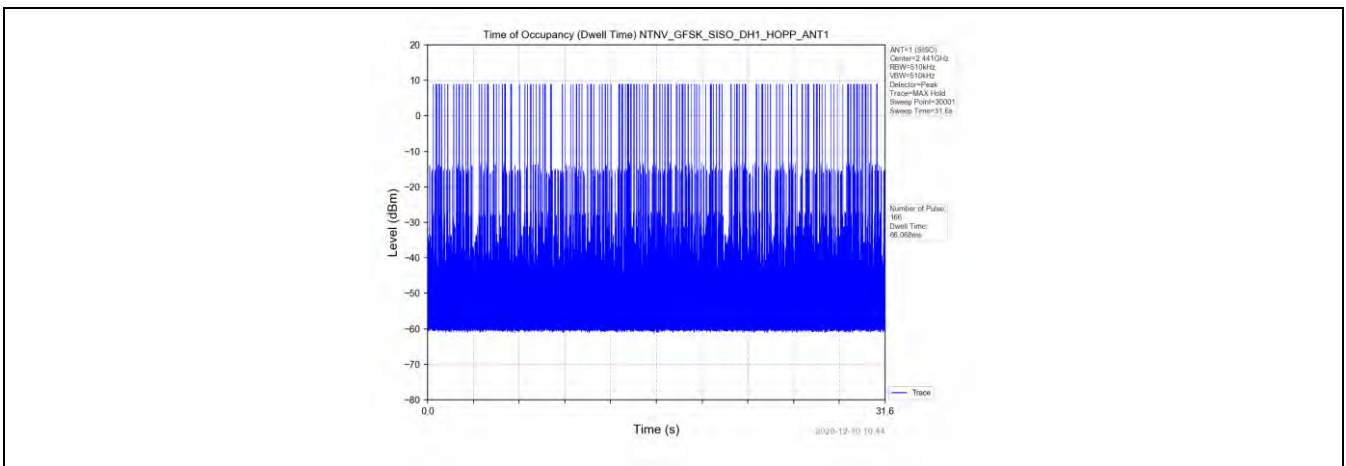
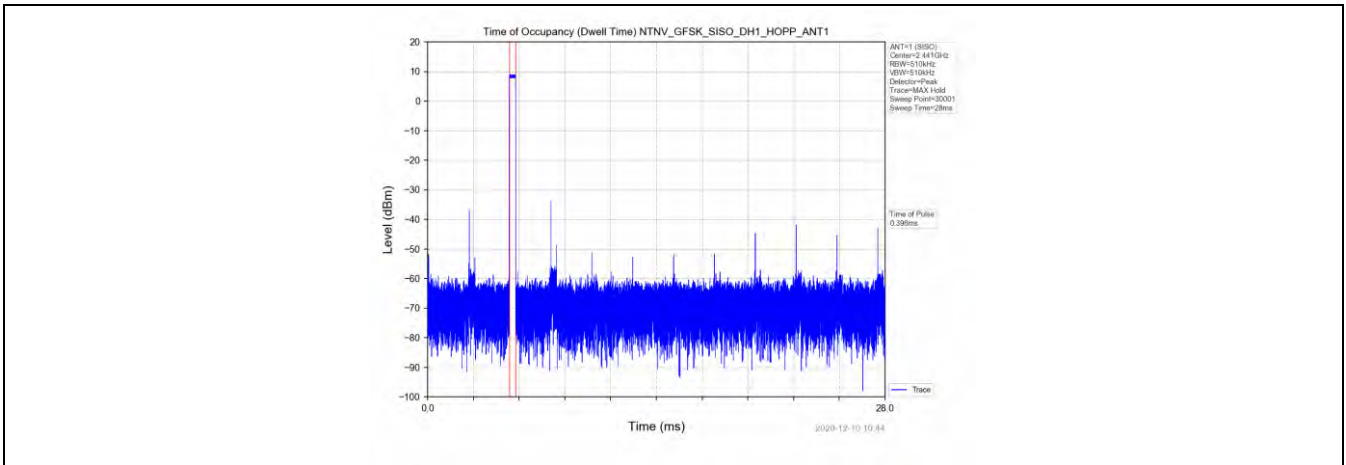
5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.398	31.6	166	66.068	≤400	PASS
	DH3	SISO	1	1.653	31.6	114	188.442	≤400	PASS
	DH5	SISO	1	2.913	31.6	84	244.692	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.407	31.6	170	69.190	≤400	PASS
	2DH3	SISO	1	1.618	31.6	95	153.710	≤400	PASS
	2DH5	SISO	1	2.910	31.6	85	247.350	≤400	PASS
8DPSK	3DH1	SISO	1	0.413	31.6	170	70.210	≤400	PASS
	3DH3	SISO	1	1.664	31.6	110	183.040	≤400	PASS
	3DH5	SISO	1	2.913	31.6	76	221.388	≤400	PASS



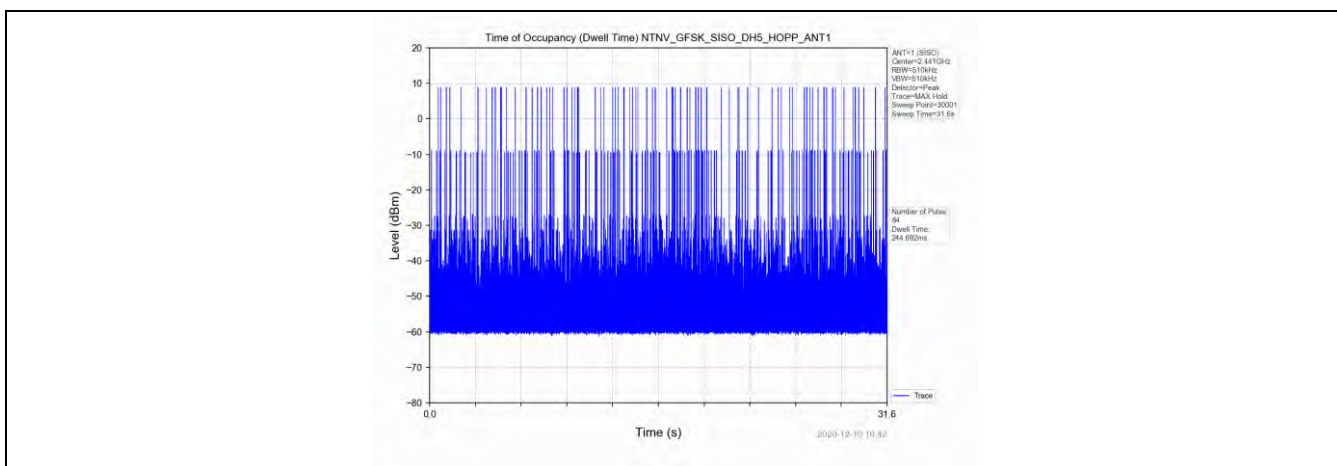
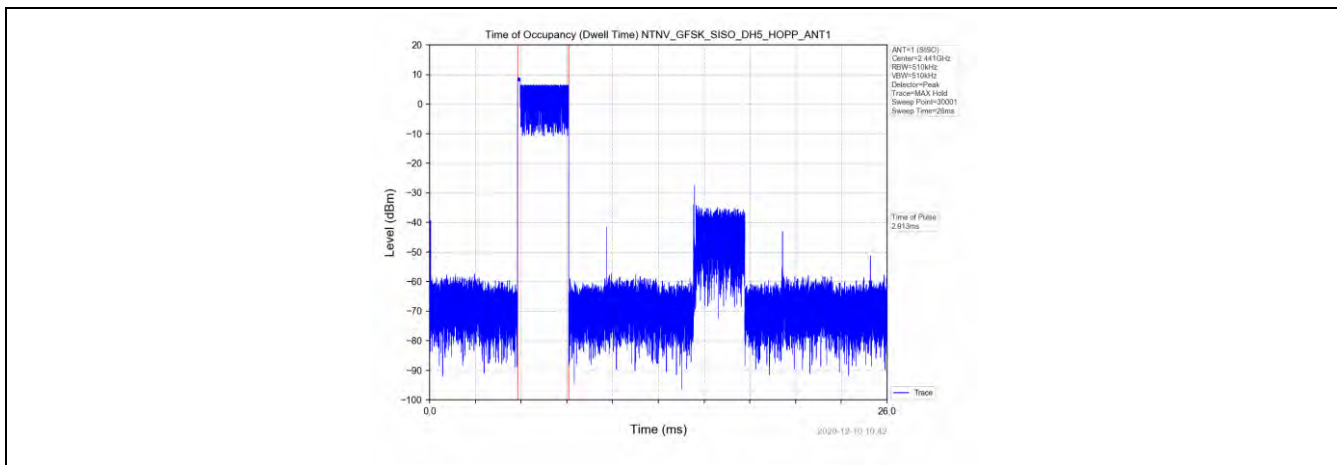
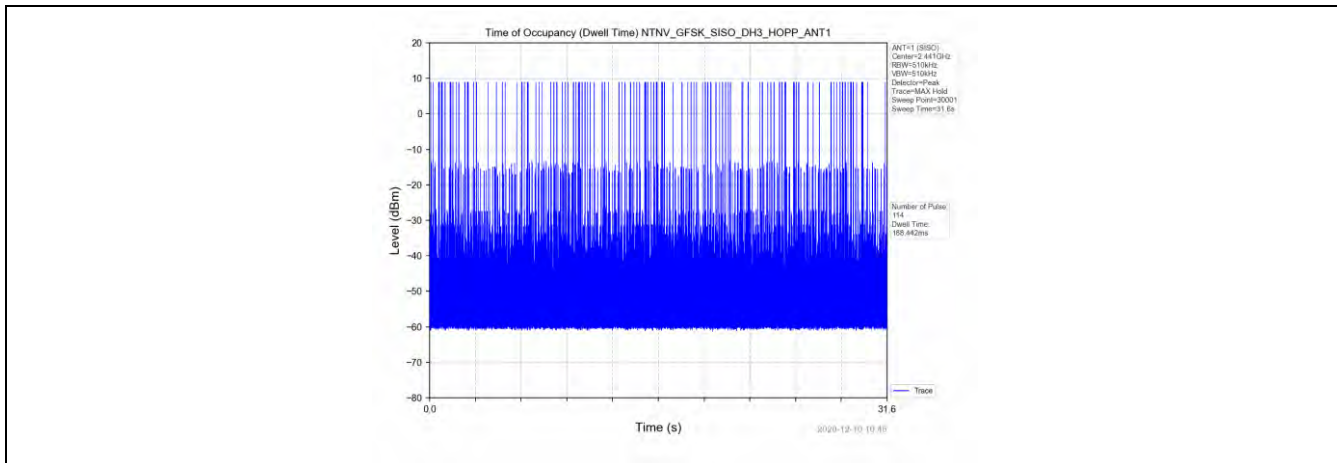
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5.2 Test Graph

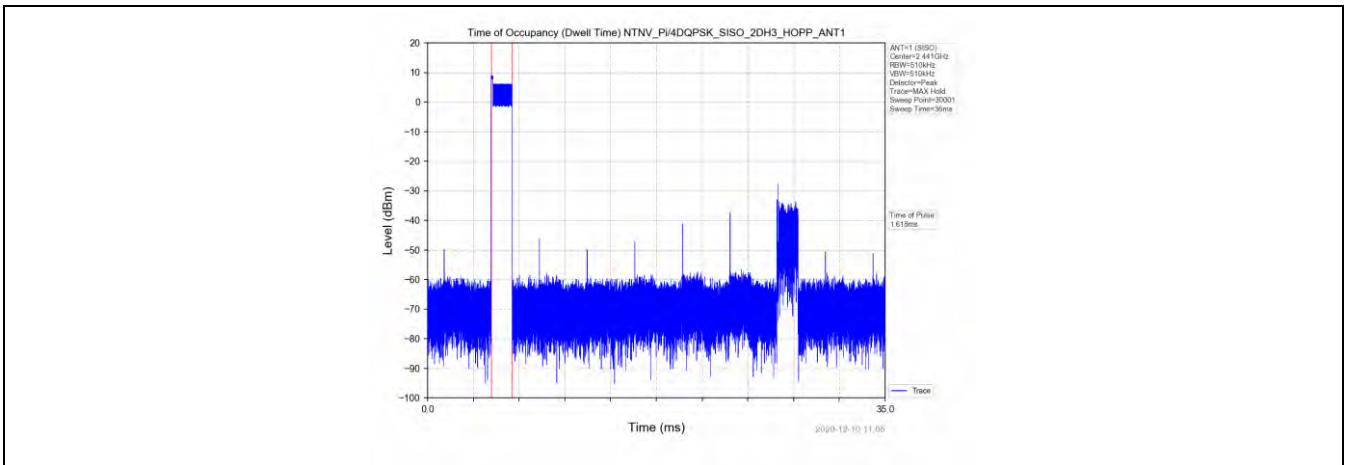
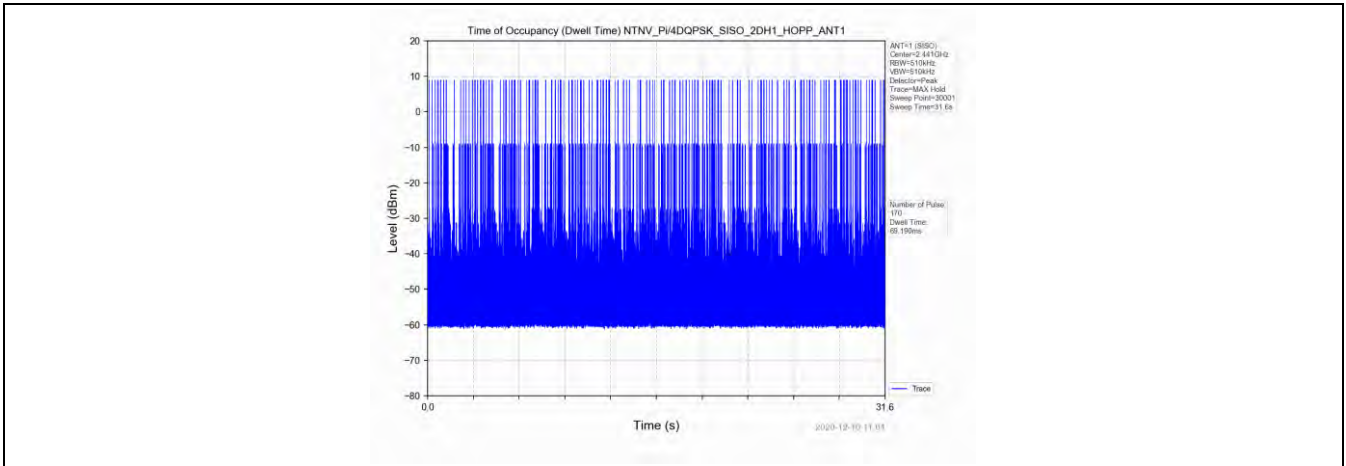
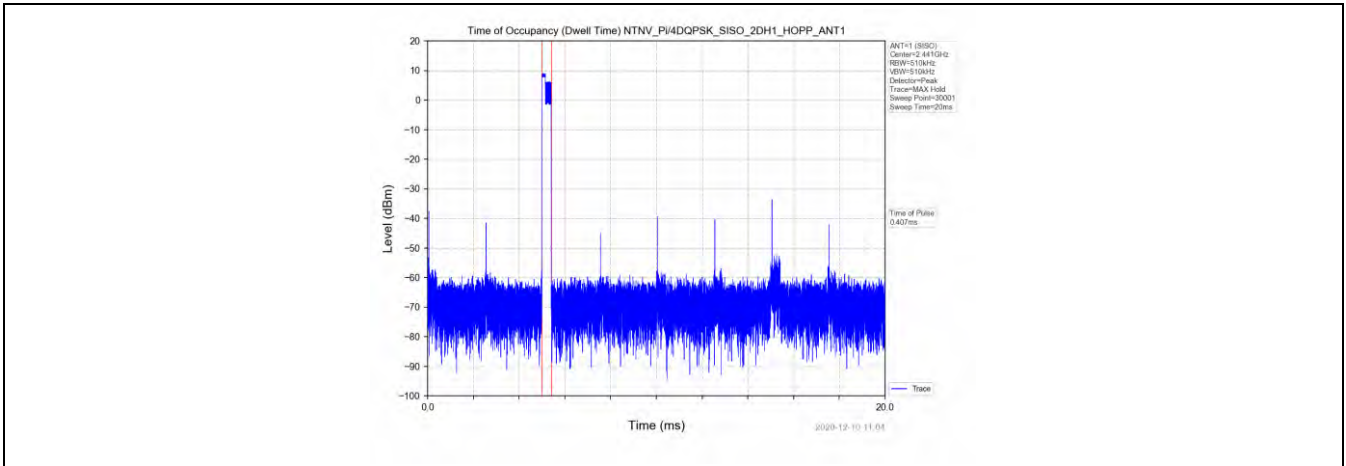


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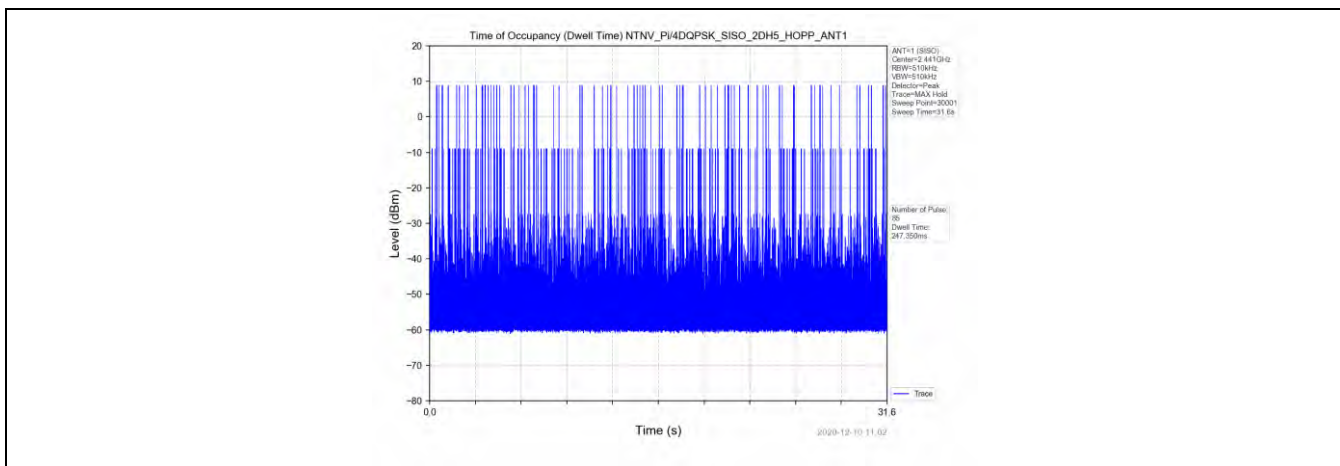
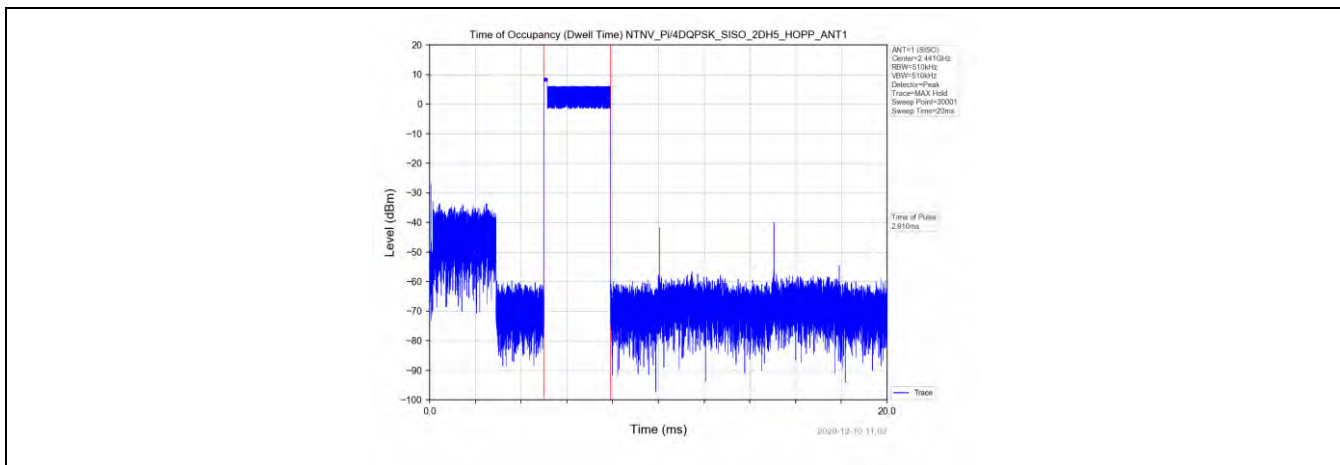
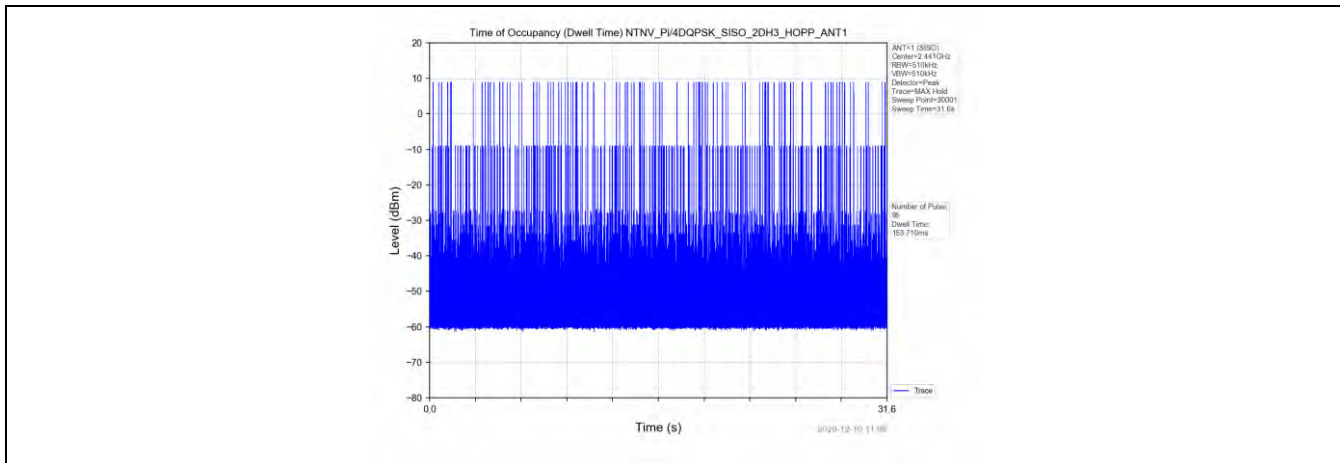
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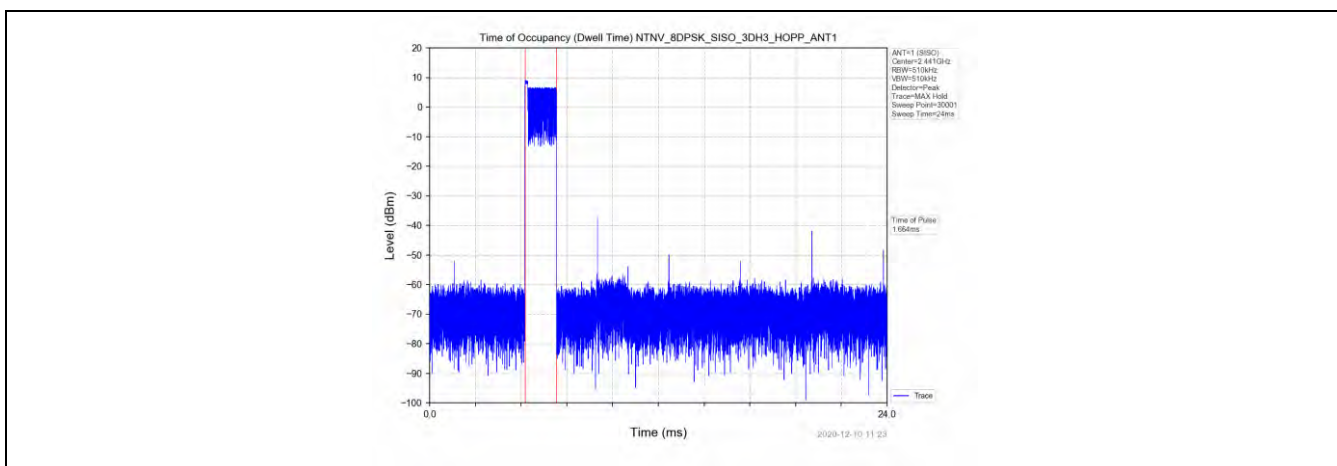
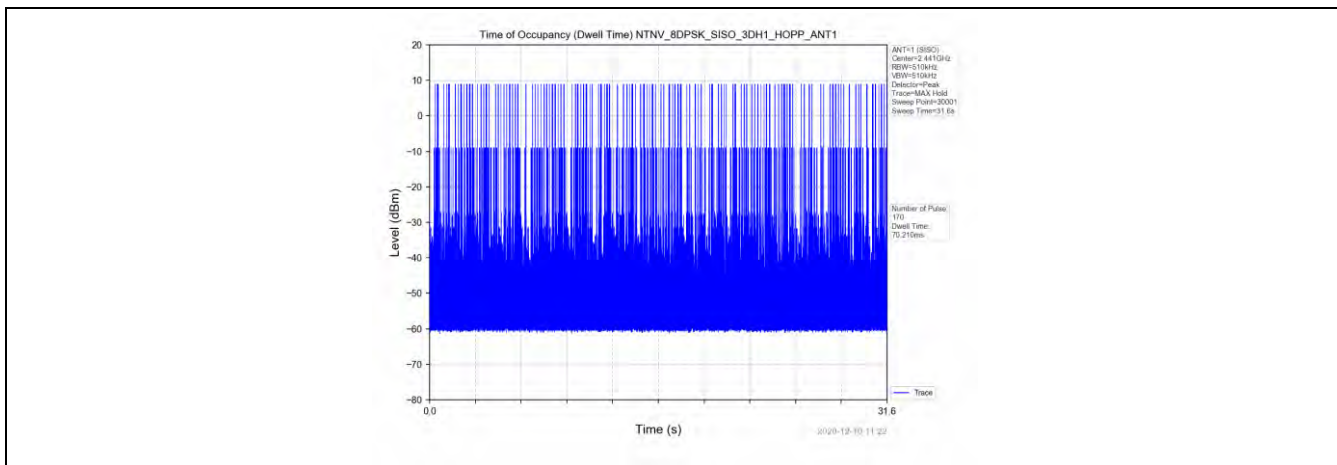
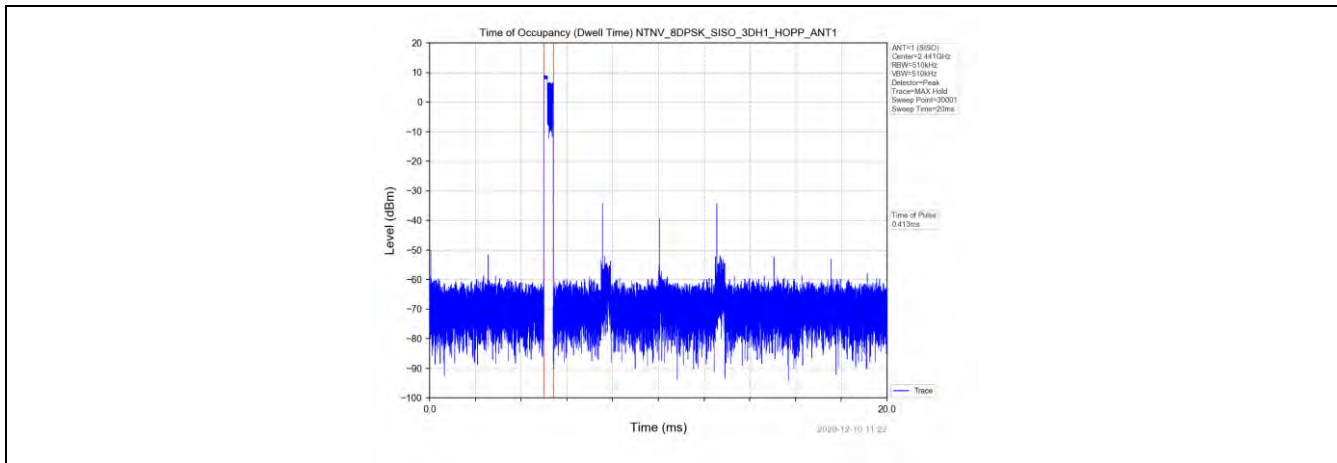
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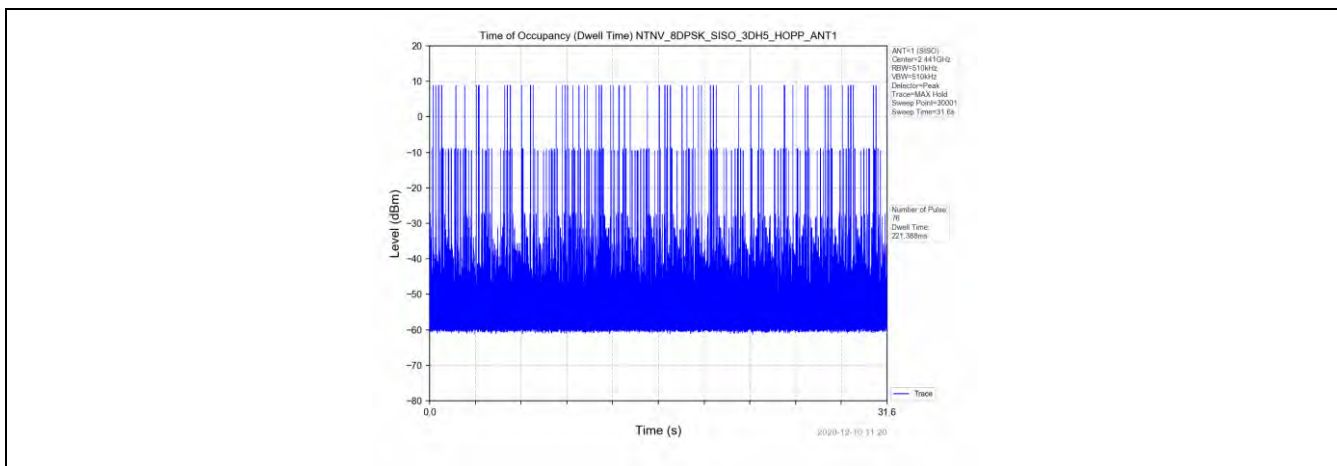
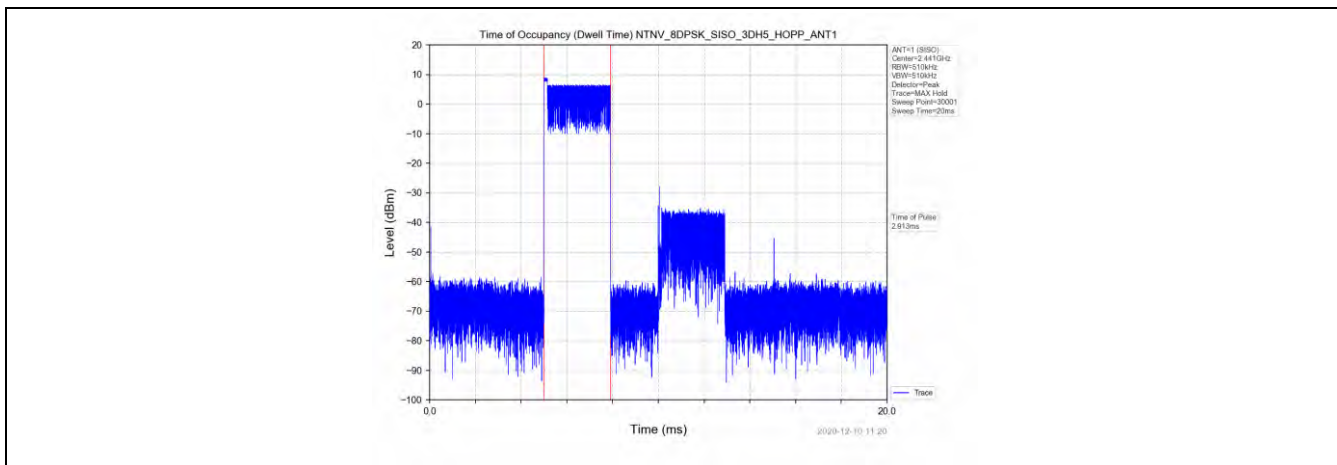
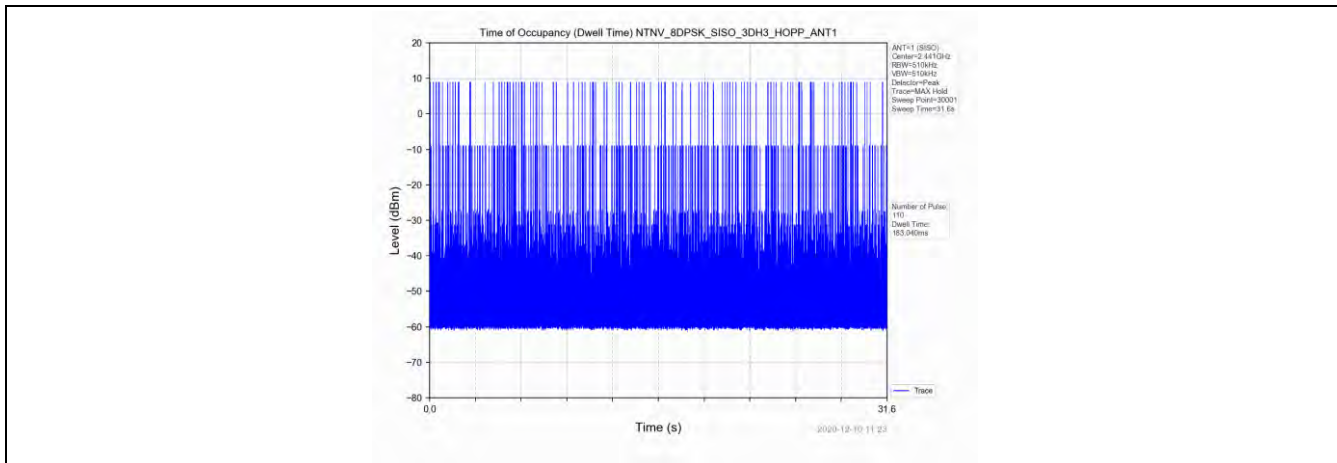
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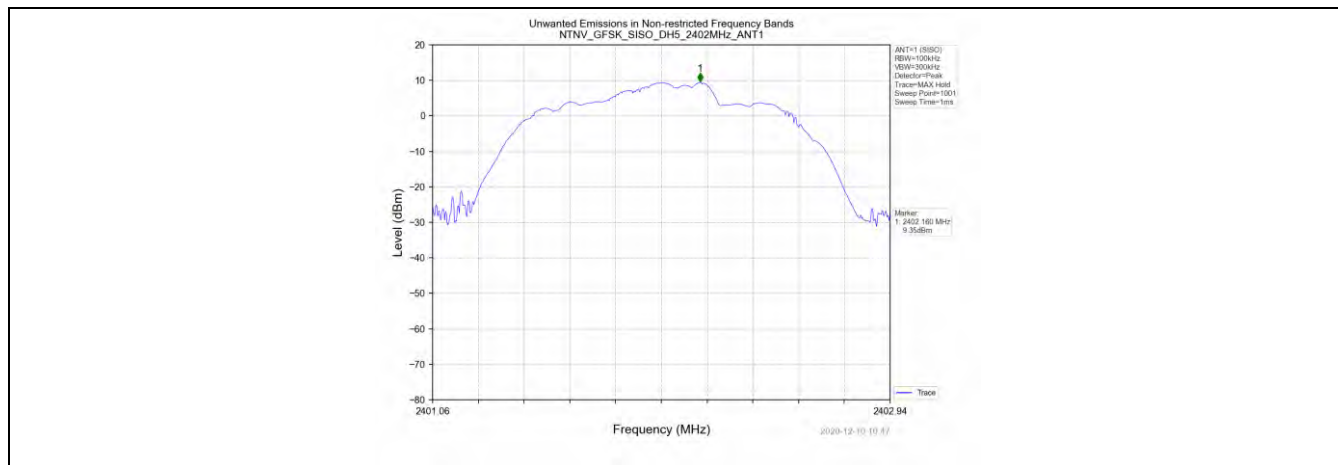
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

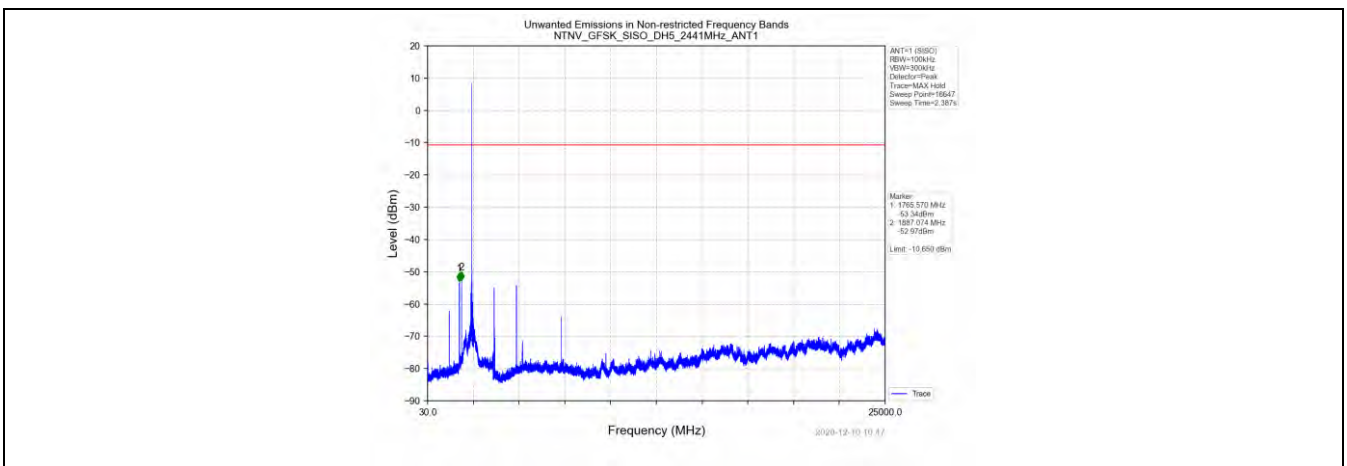
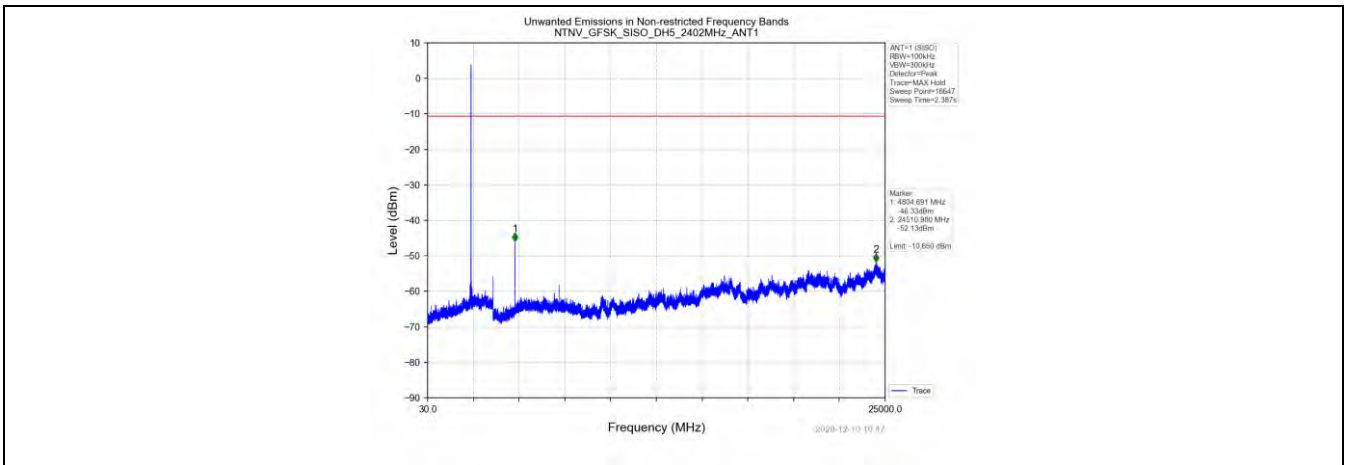
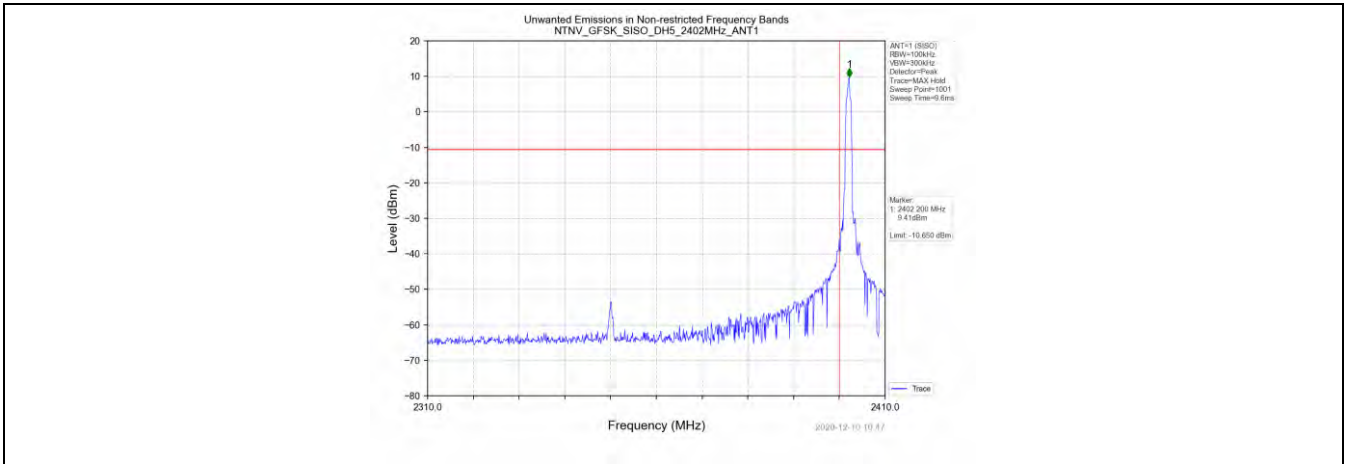
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-10.65	PASS
	2441	SISO	1	Refer to test graph	-10.65	PASS
	2480	SISO	1	Refer to test graph	-10.65	PASS
	Hopping	SISO	1	Refer to test graph	-10.65	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-10.68	PASS
	2441	SISO	1	Refer to test graph	-10.68	PASS
	2480	SISO	1	Refer to test graph	-10.68	PASS
	Hopping	SISO	1	Refer to test graph	-10.68	PASS
8DPSK	2402	SISO	1	Refer to test graph	-10.67	PASS
	2441	SISO	1	Refer to test graph	-10.67	PASS
	2480	SISO	1	Refer to test graph	-10.67	PASS
	Hopping	SISO	1	Refer to test graph	-10.67	PASS

6.2 Test Graph



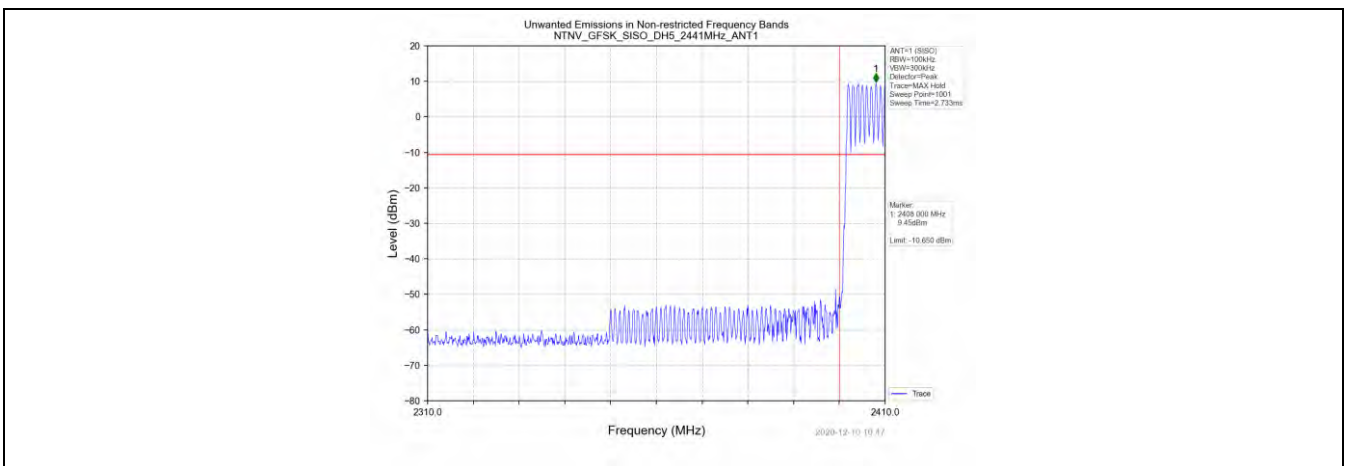
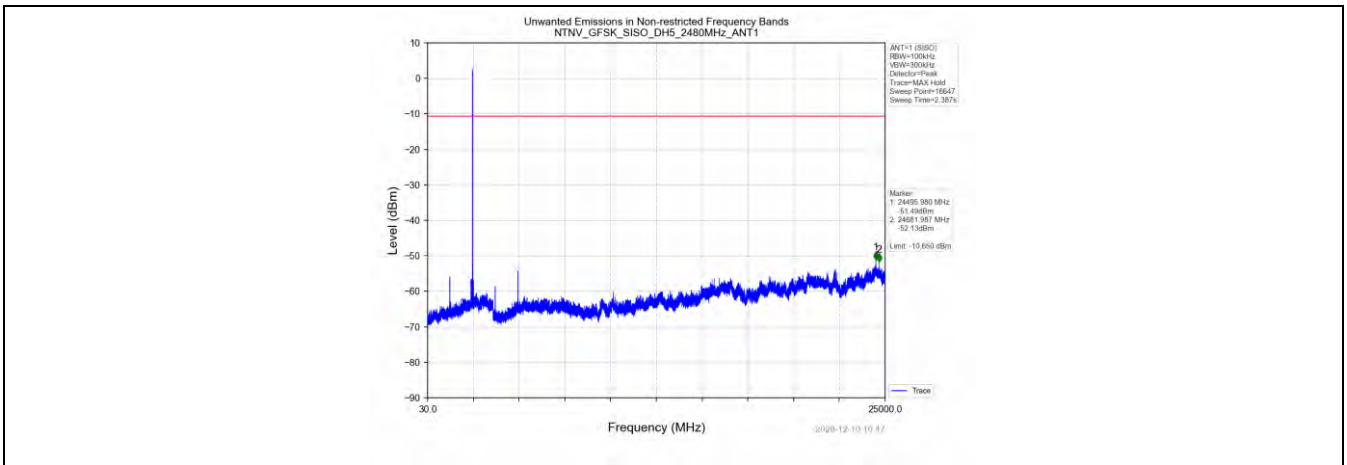
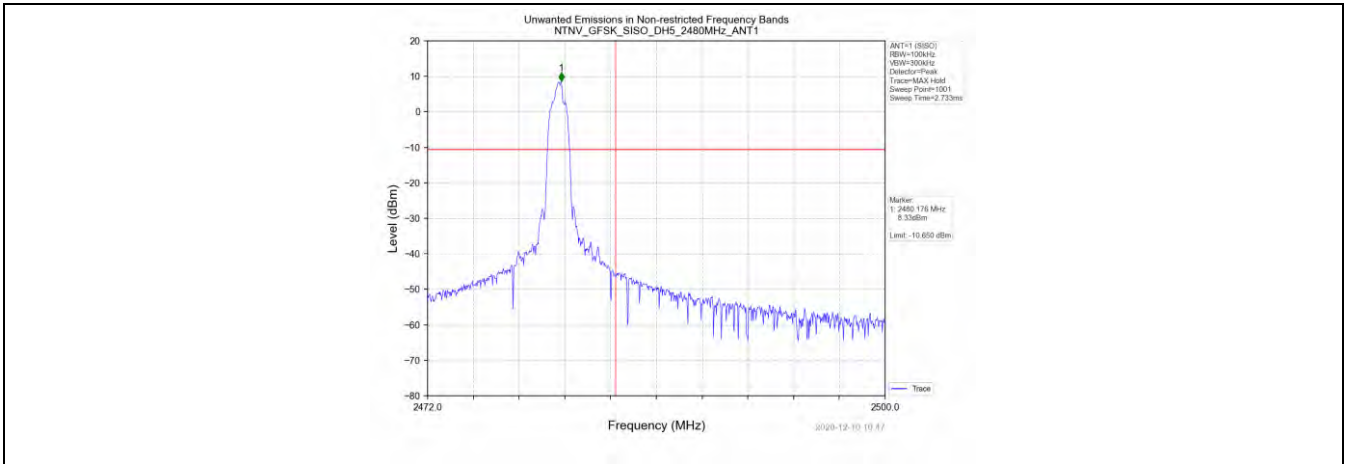
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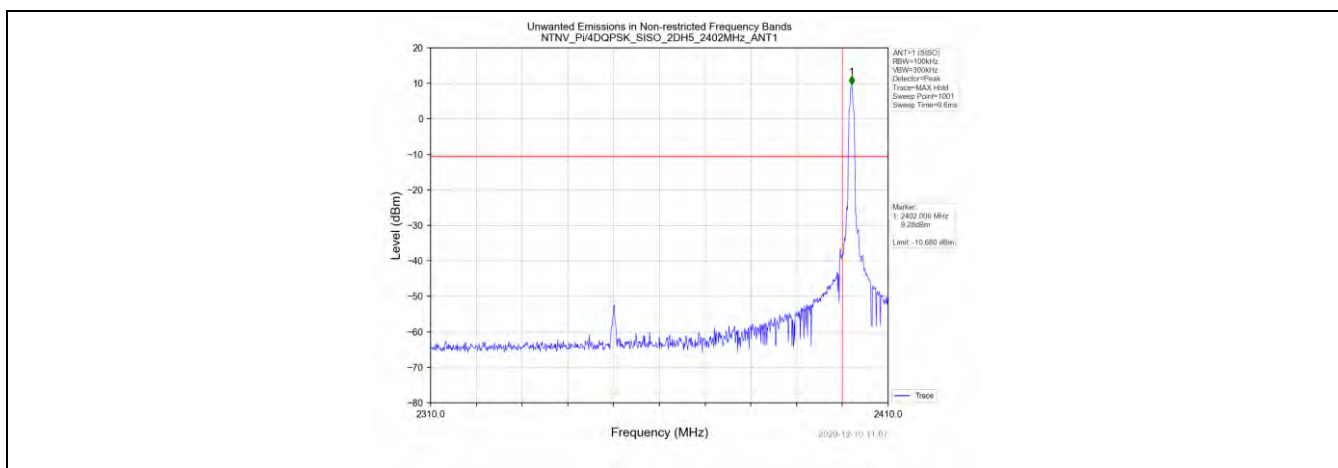
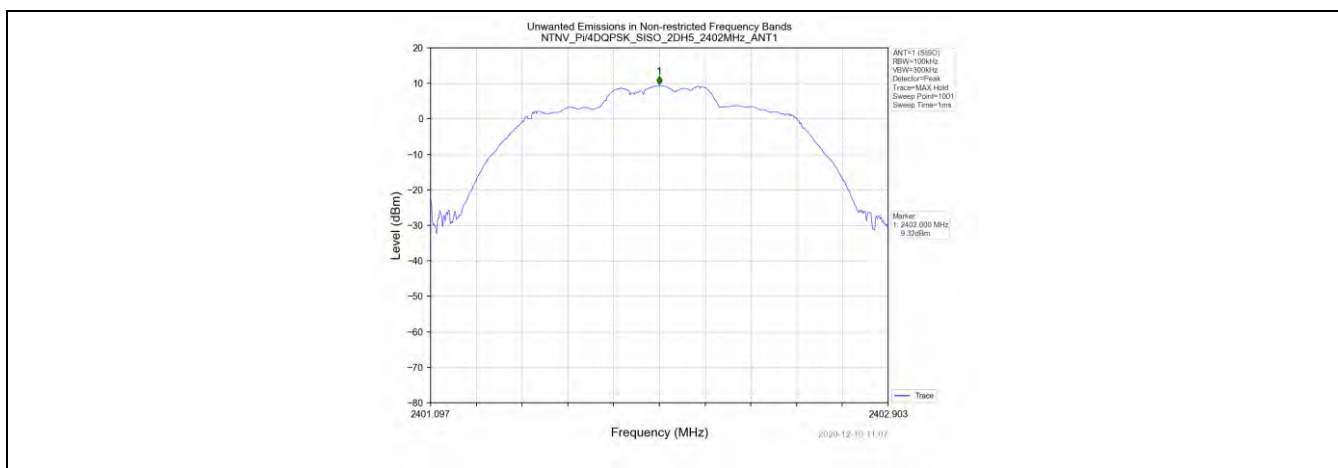
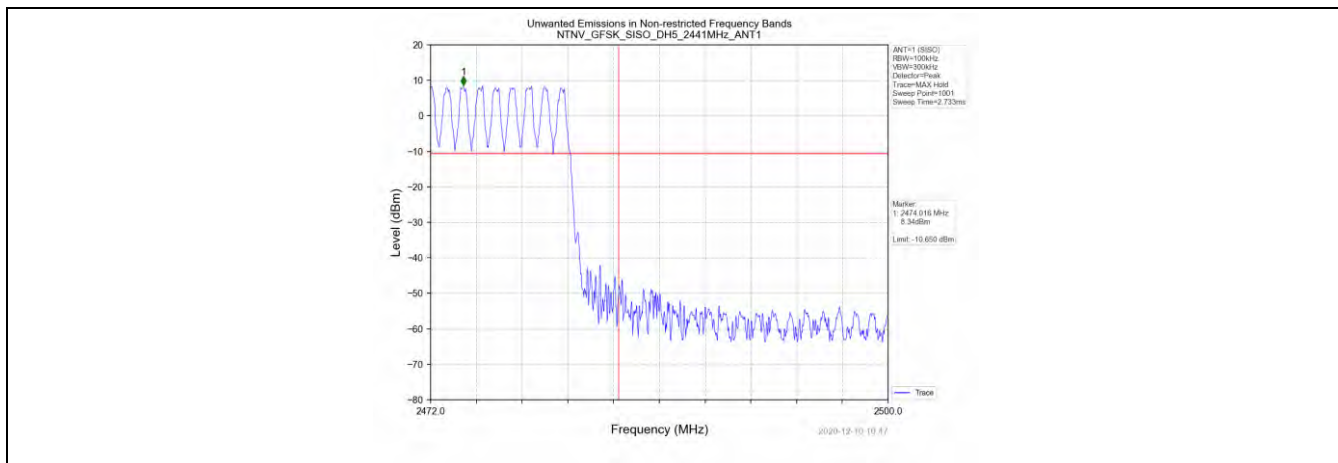
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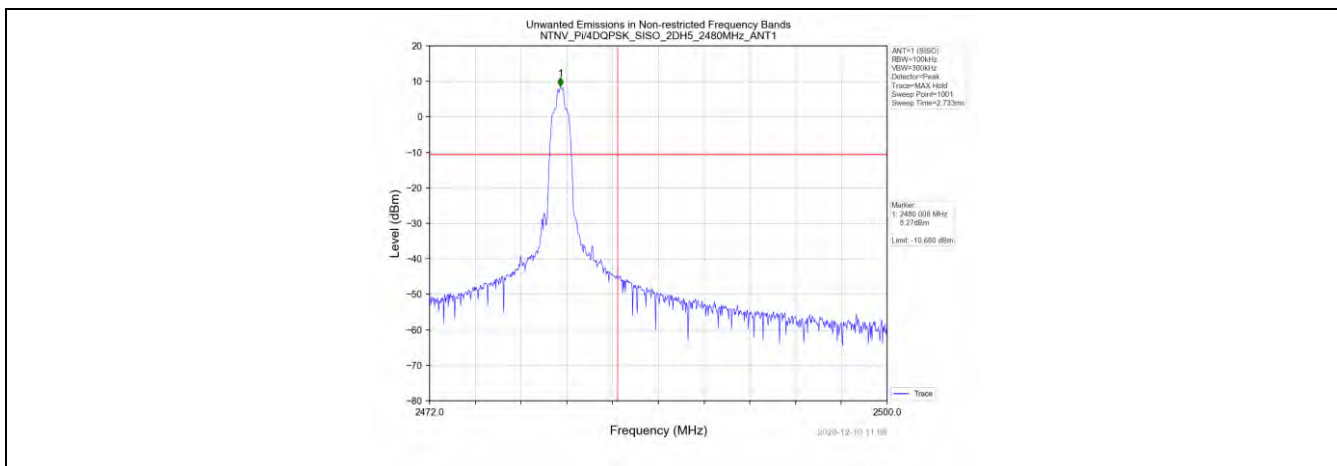
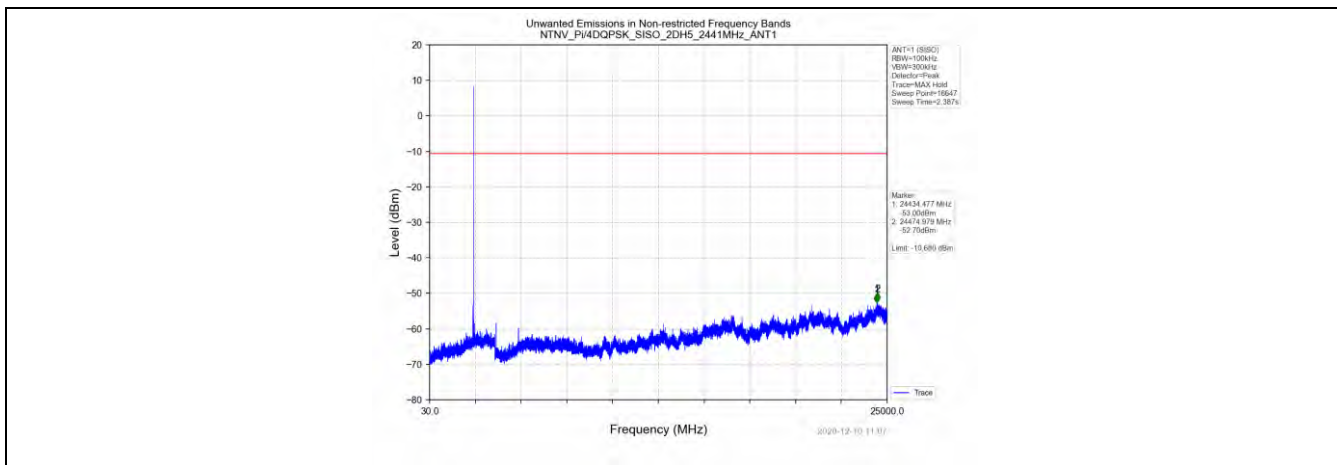
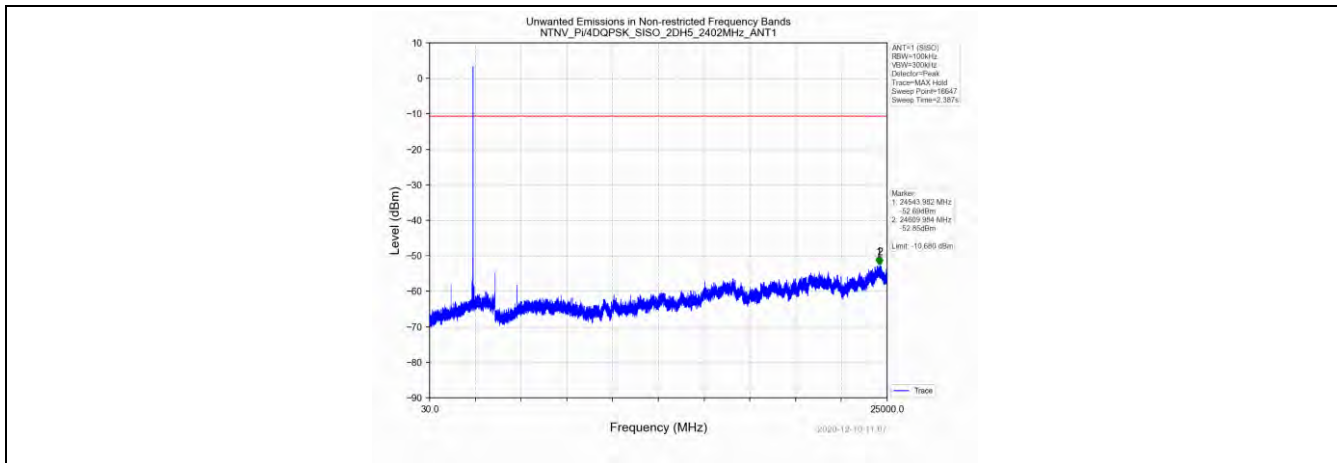
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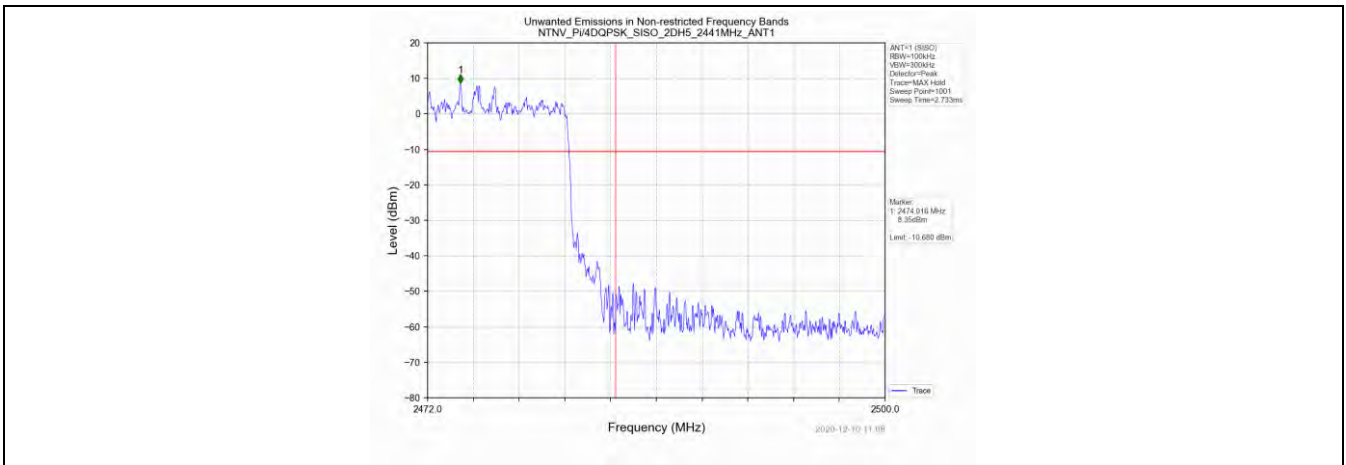
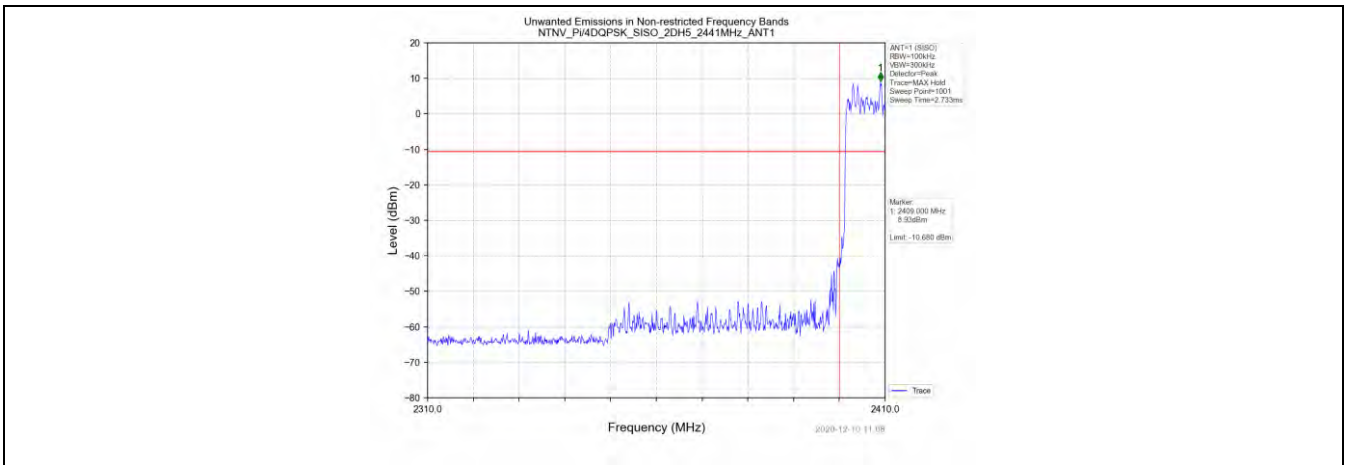
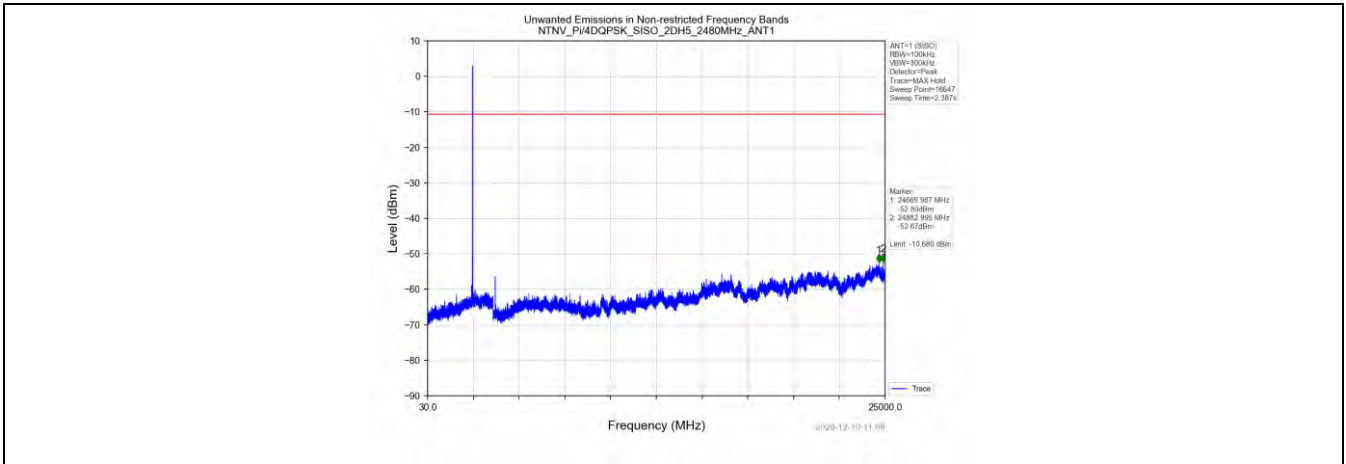
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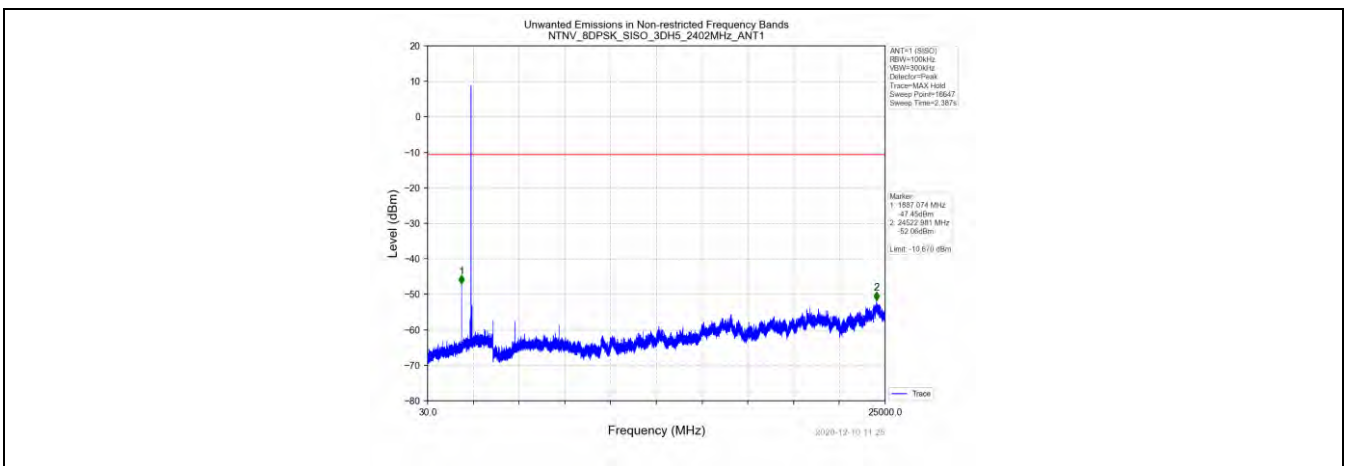
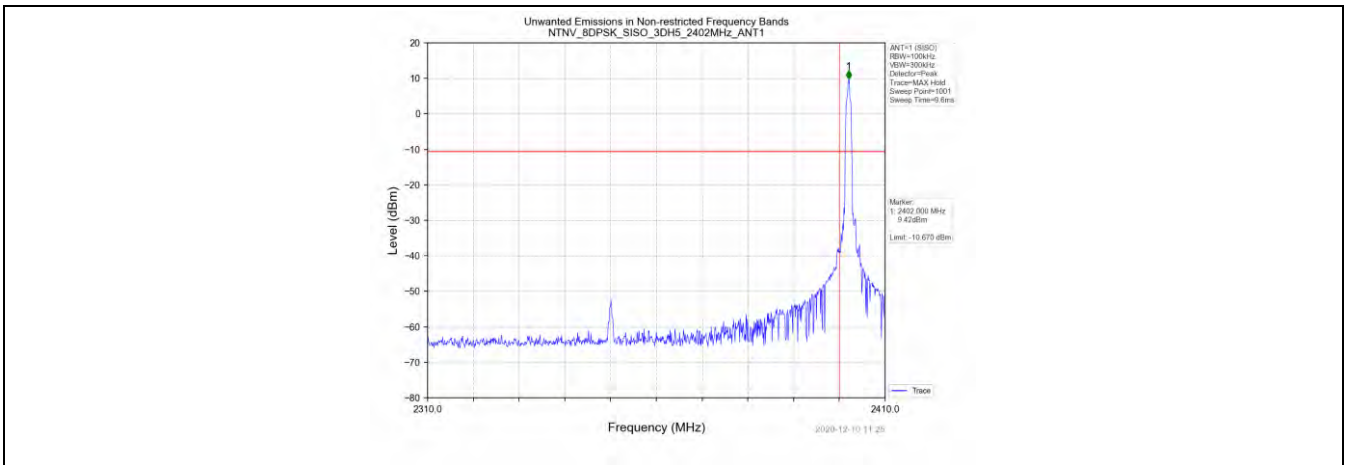
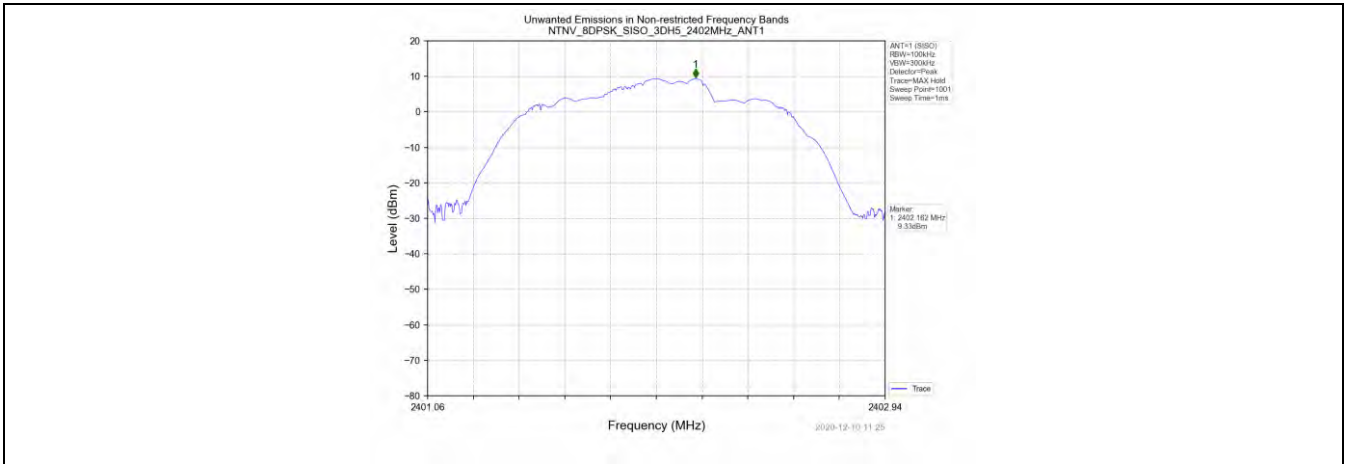
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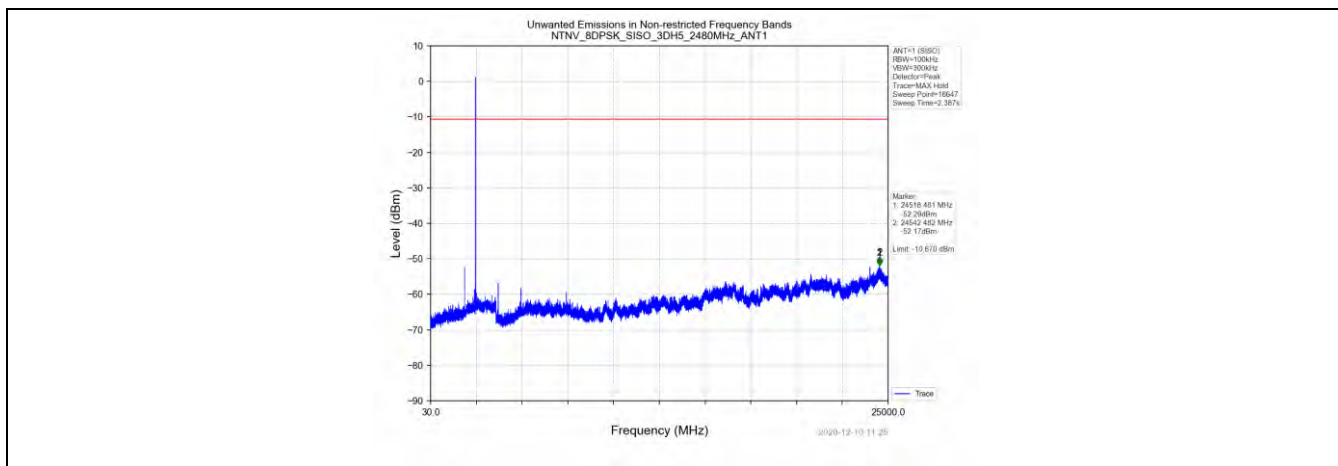
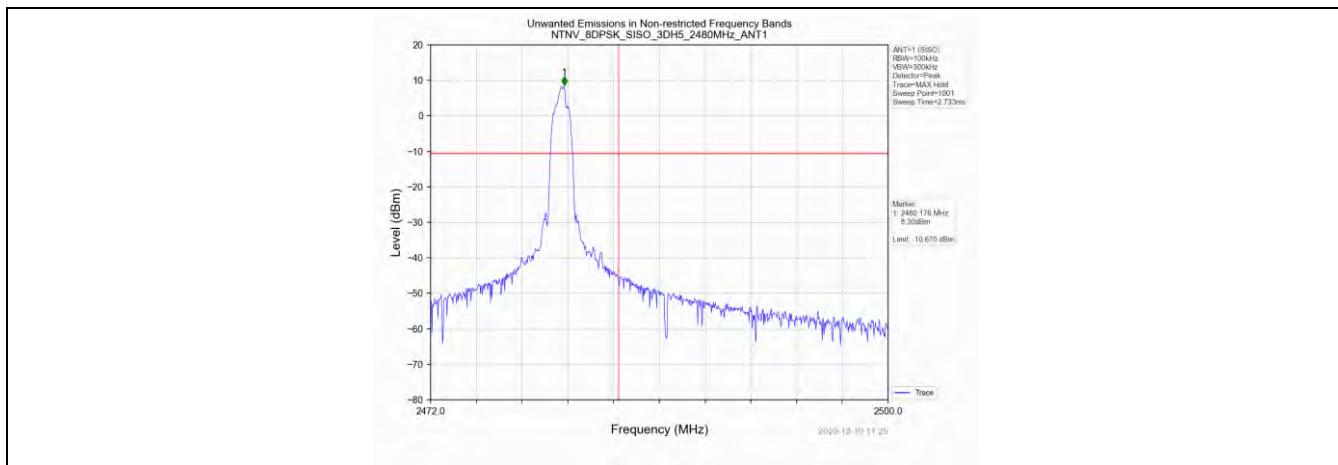
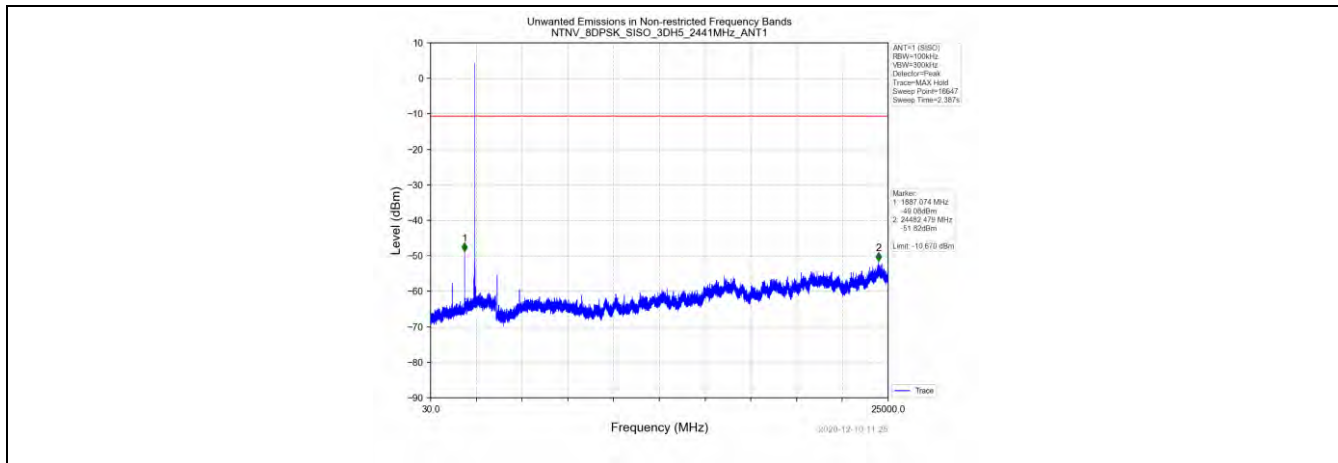


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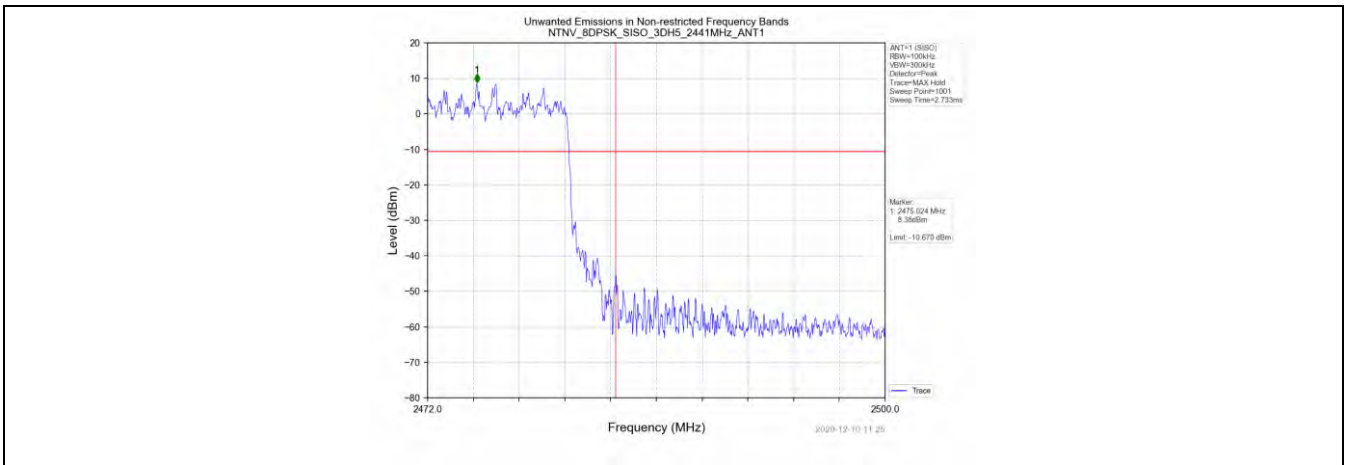
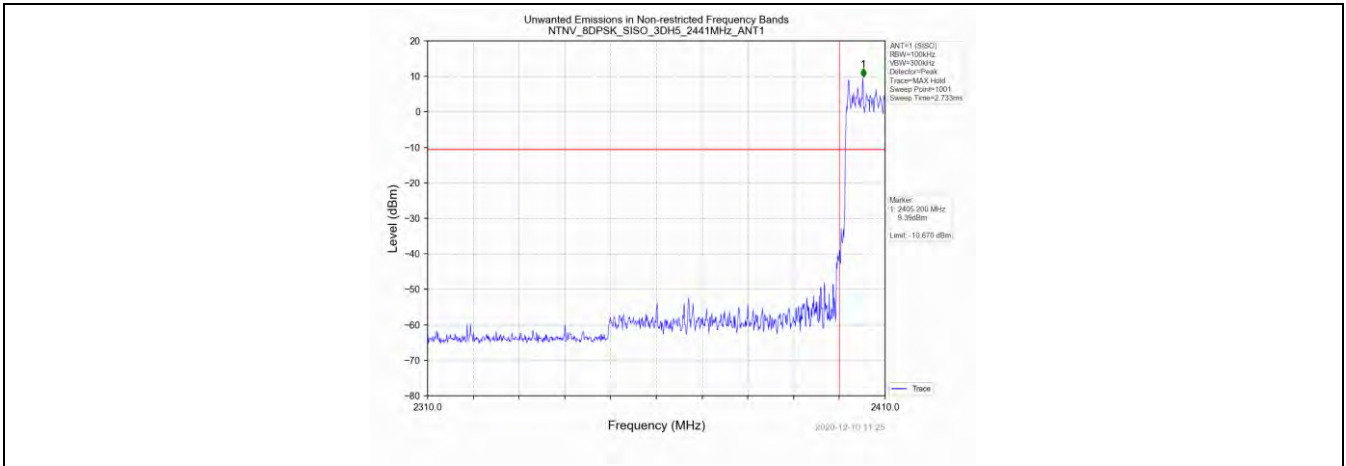


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Appendix for 15.247

For Left earbuds:

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.046	PASS
	2441	SISO	1	1.029	PASS
	2480	SISO	1	1.045	PASS
Pi/4DQPSK	2402	SISO	1	1.219	PASS
	2441	SISO	1	1.205	PASS
	2480	SISO	1	1.265	PASS
8DPSK	2402	SISO	1	1.253	PASS
	2441	SISO	1	1.254	PASS
	2480	SISO	1	1.251	PASS

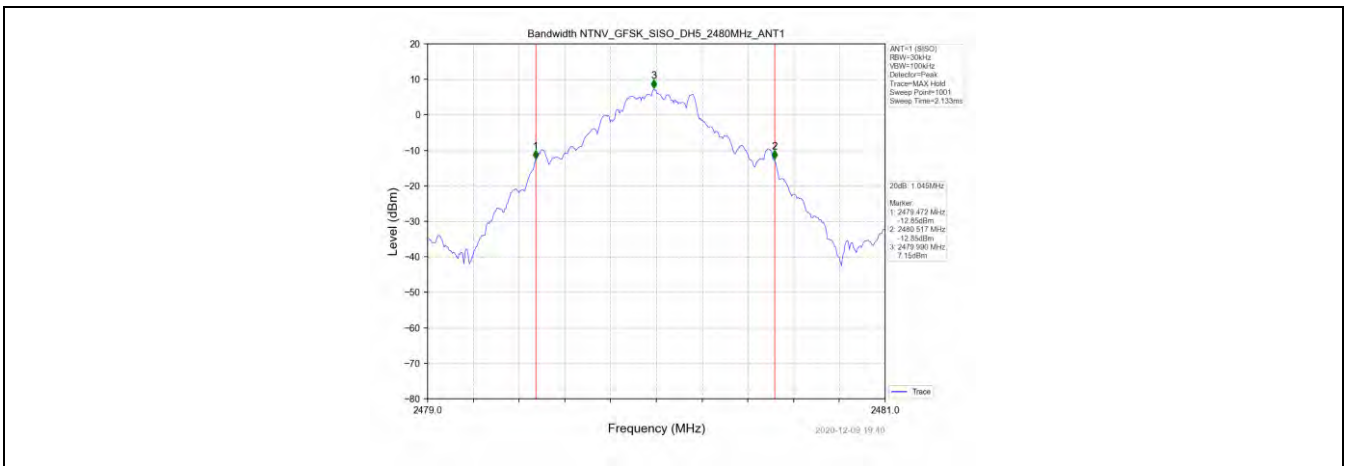
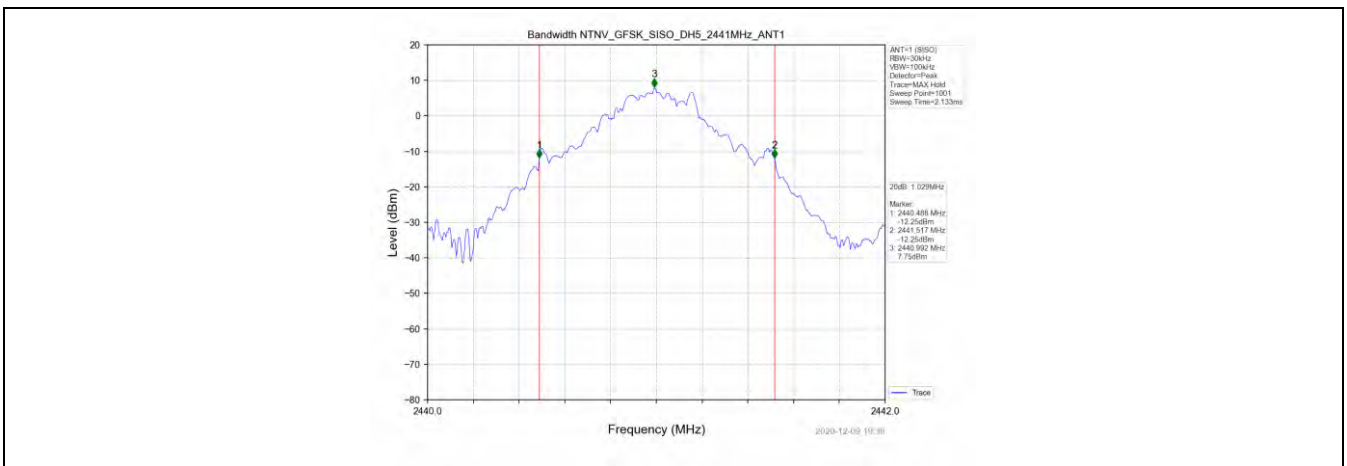
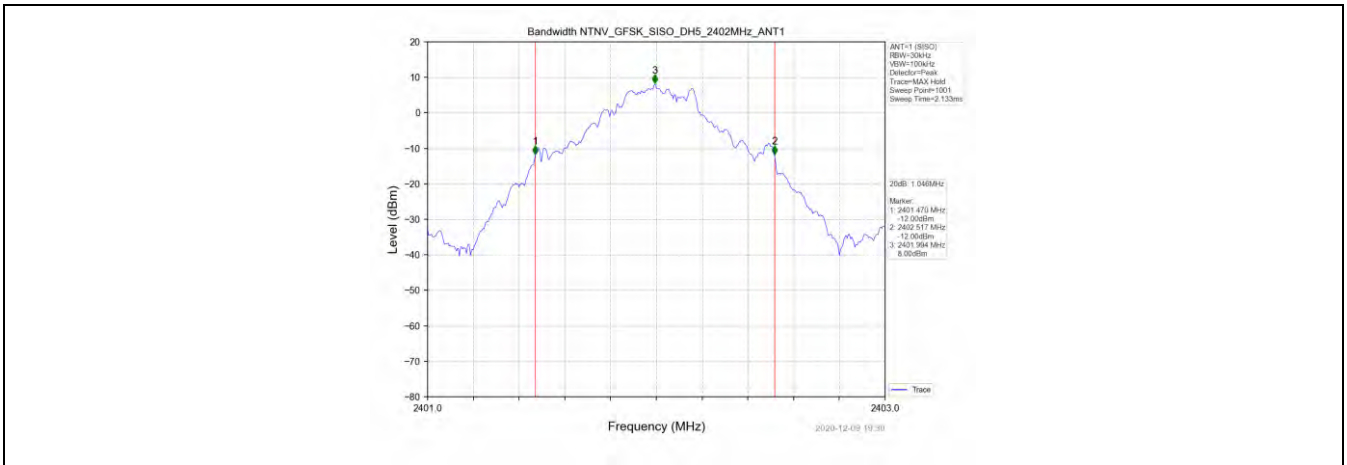
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.916	Only for Report Use
	2441	SISO	1	0.919	Only for Report Use
	2480	SISO	1	0.916	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.152	Only for Report Use
	2441	SISO	1	1.146	Only for Report Use
	2480	SISO	1	1.152	Only for Report Use
8DPSK	2402	SISO	1	1.156	Only for Report Use
	2441	SISO	1	1.160	Only for Report Use
	2480	SISO	1	1.151	Only for Report Use



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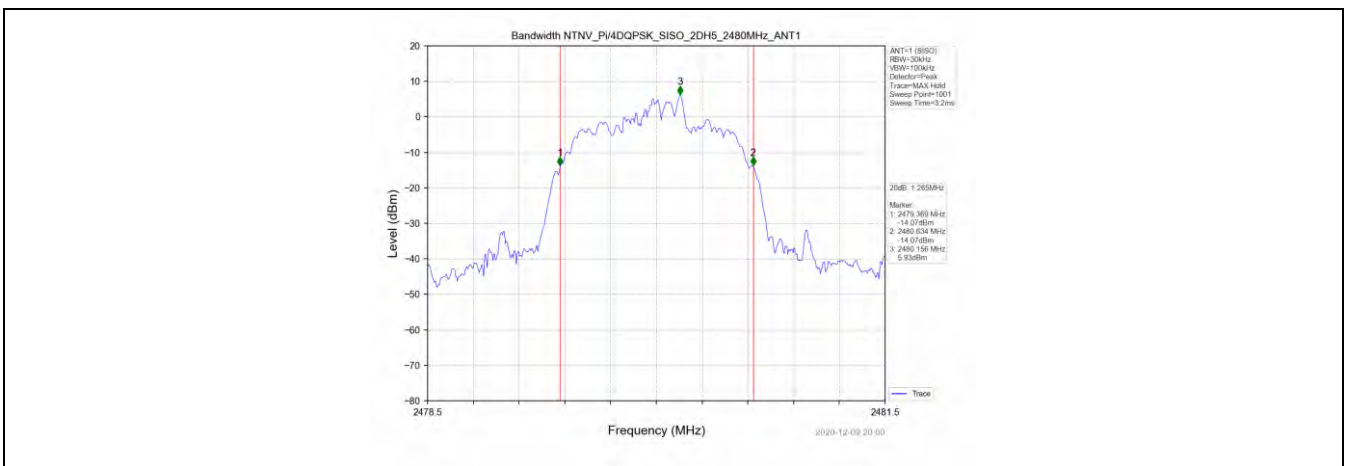
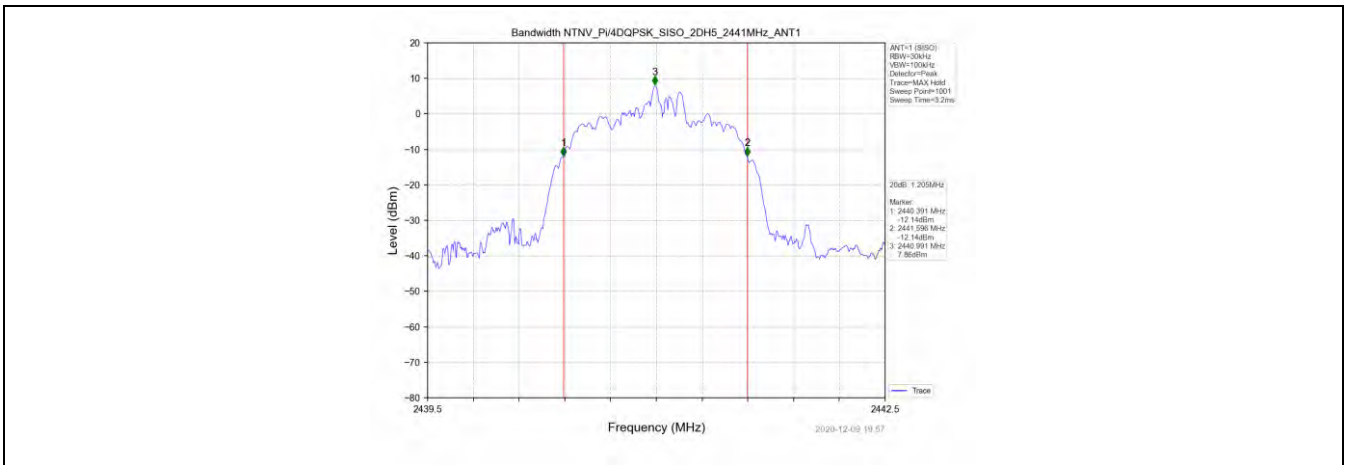
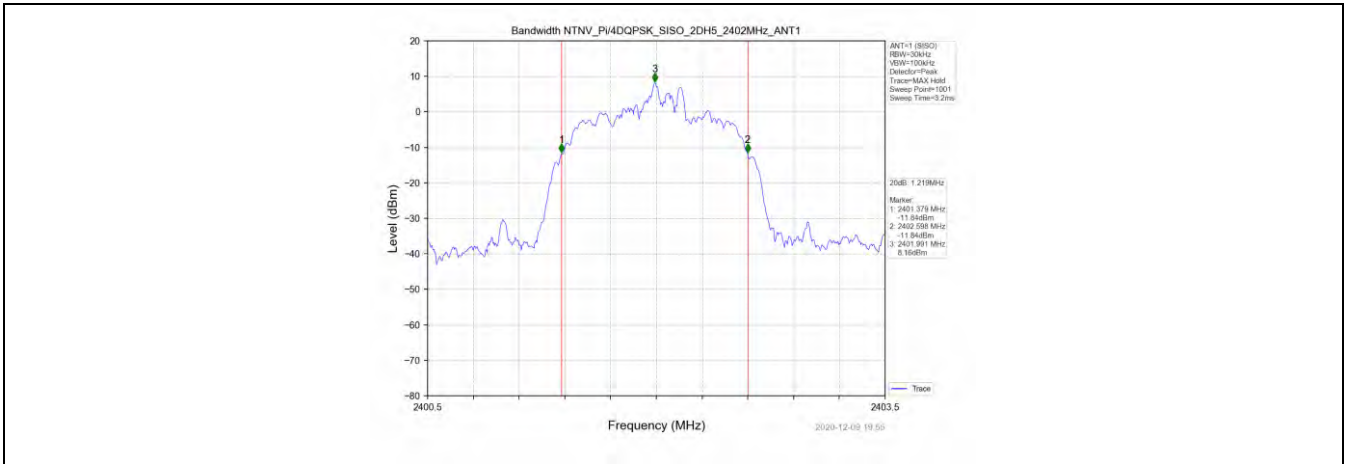
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1.2 Test Graph - 20dB Bandwidth



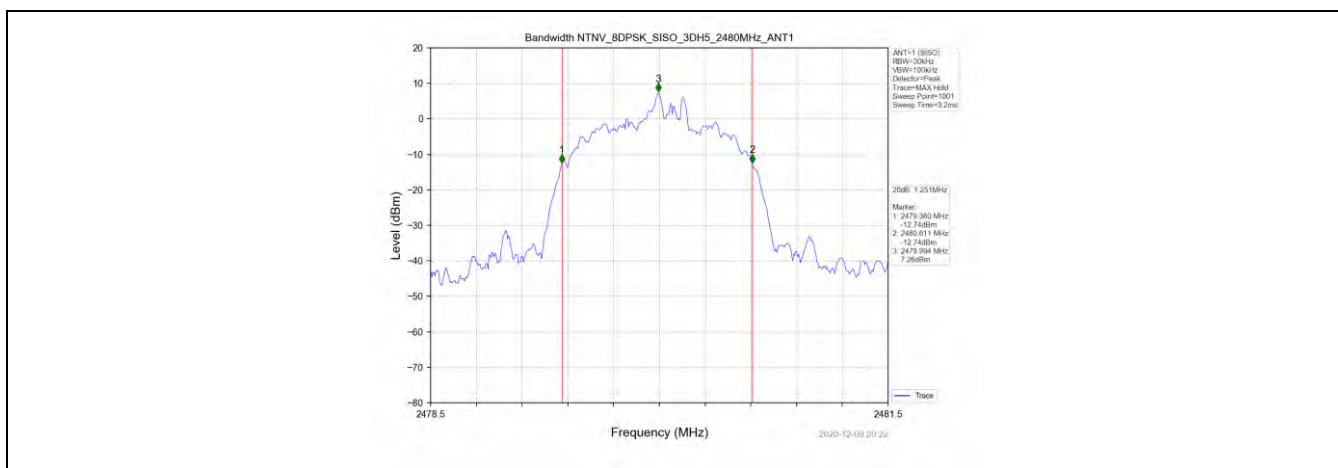
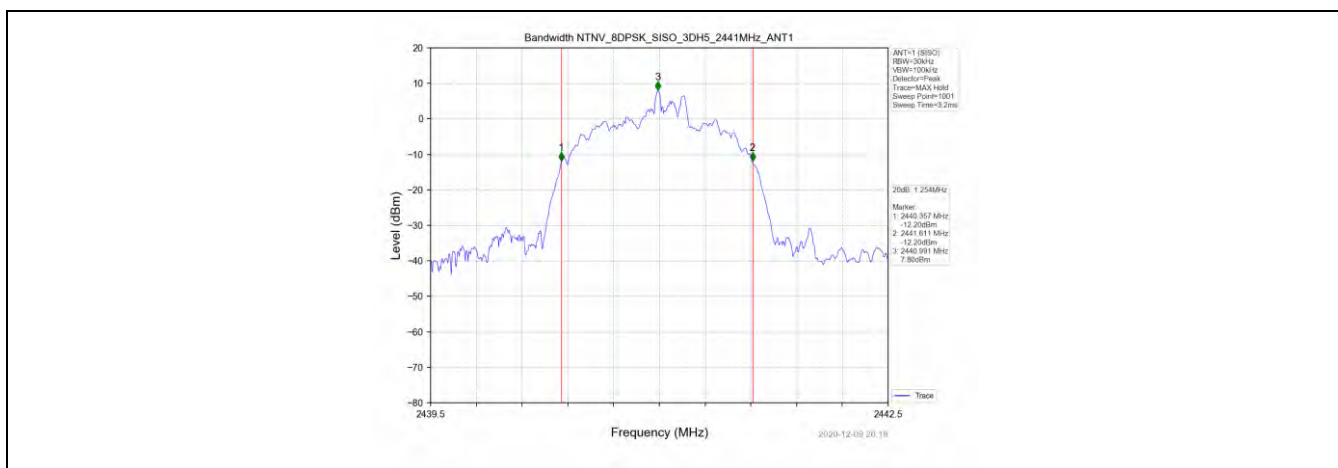
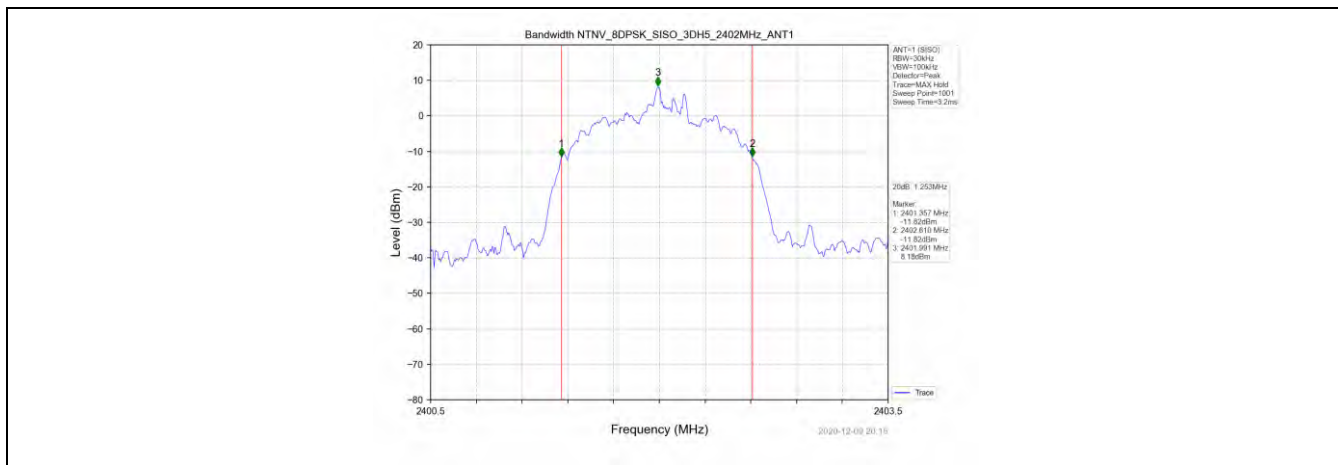
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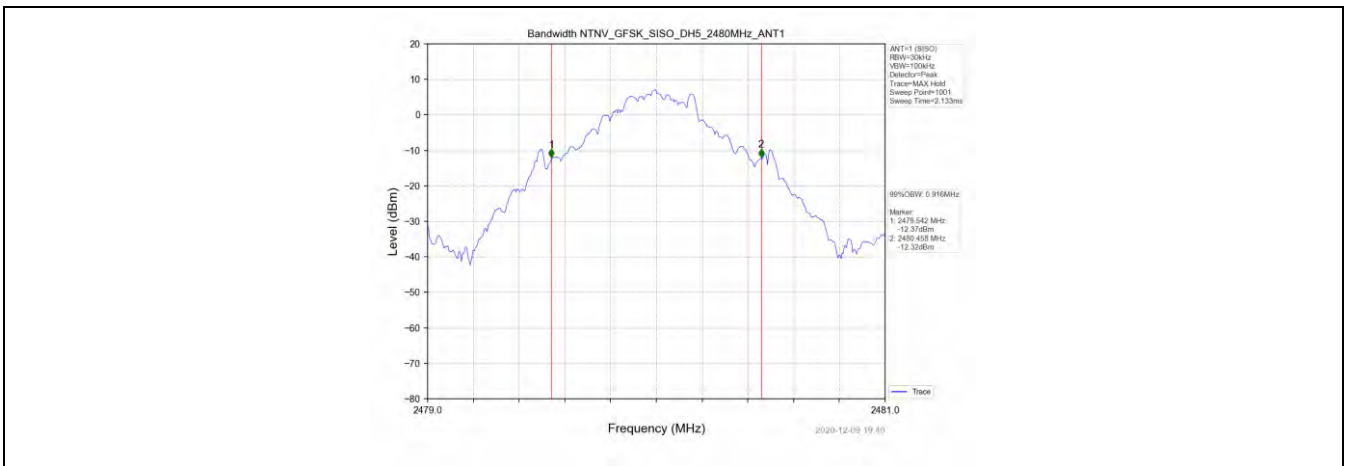
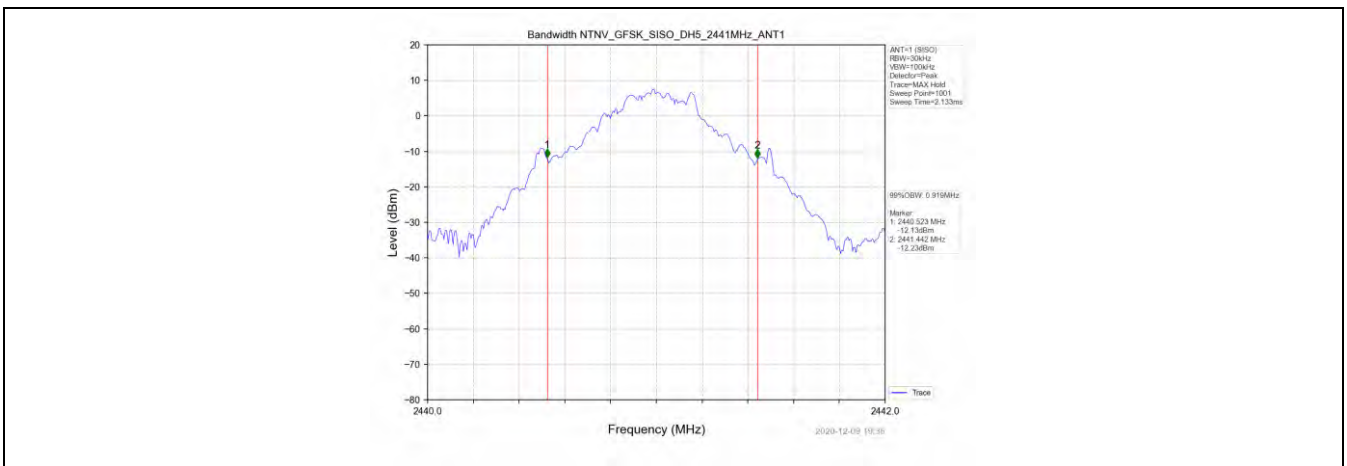
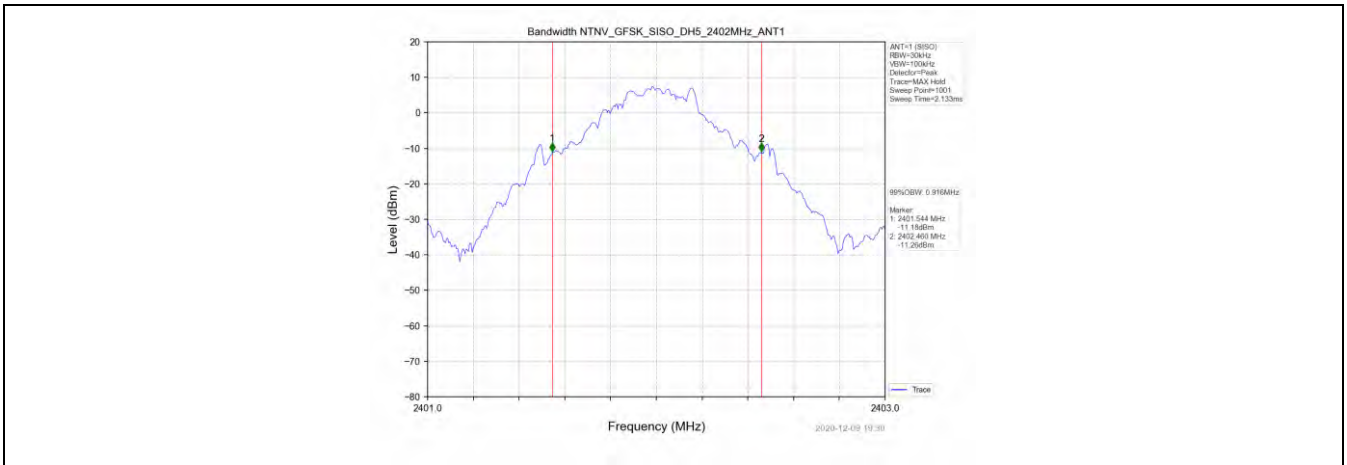
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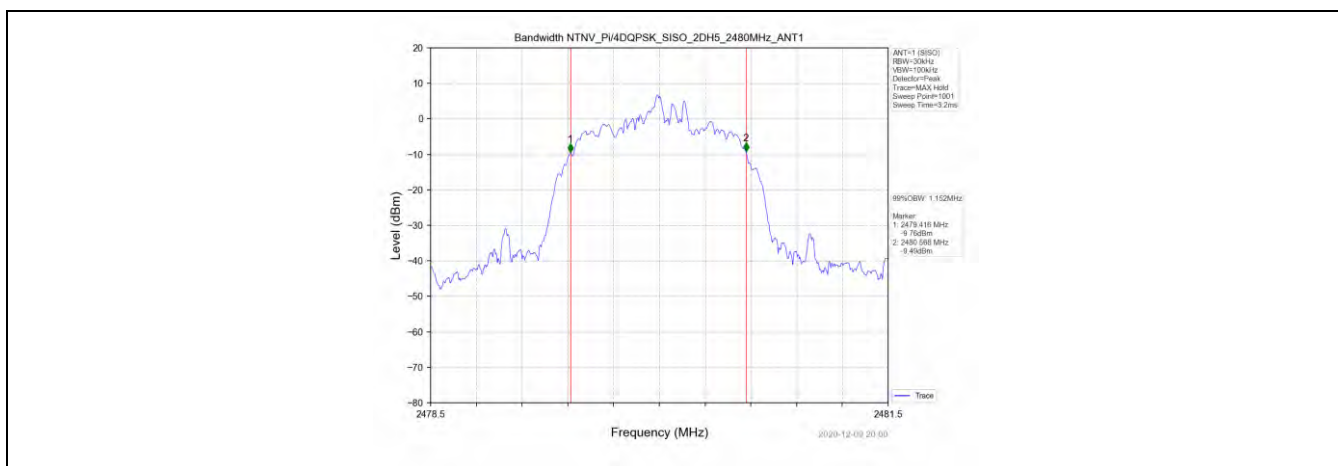
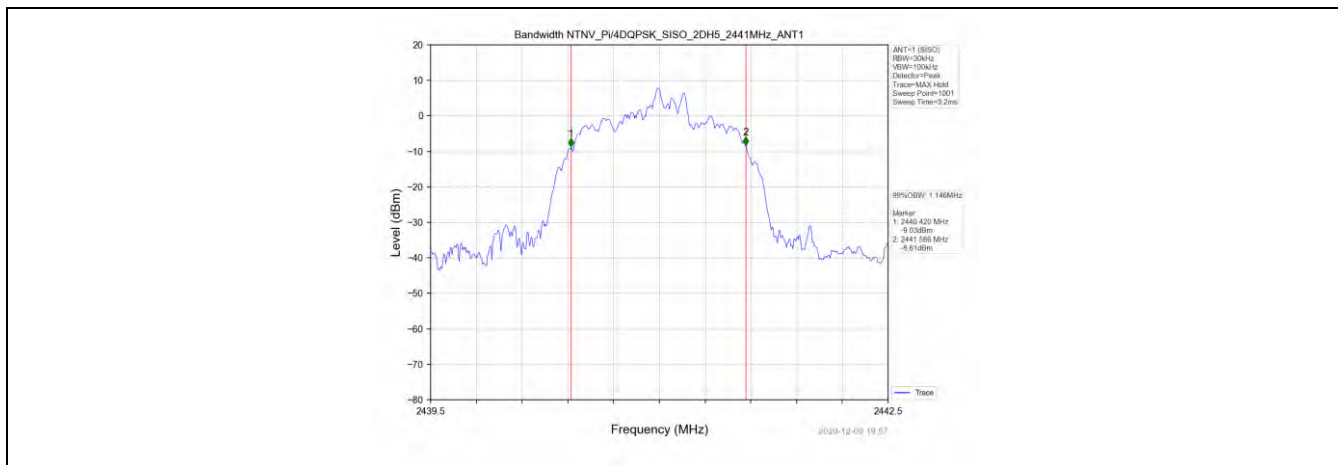
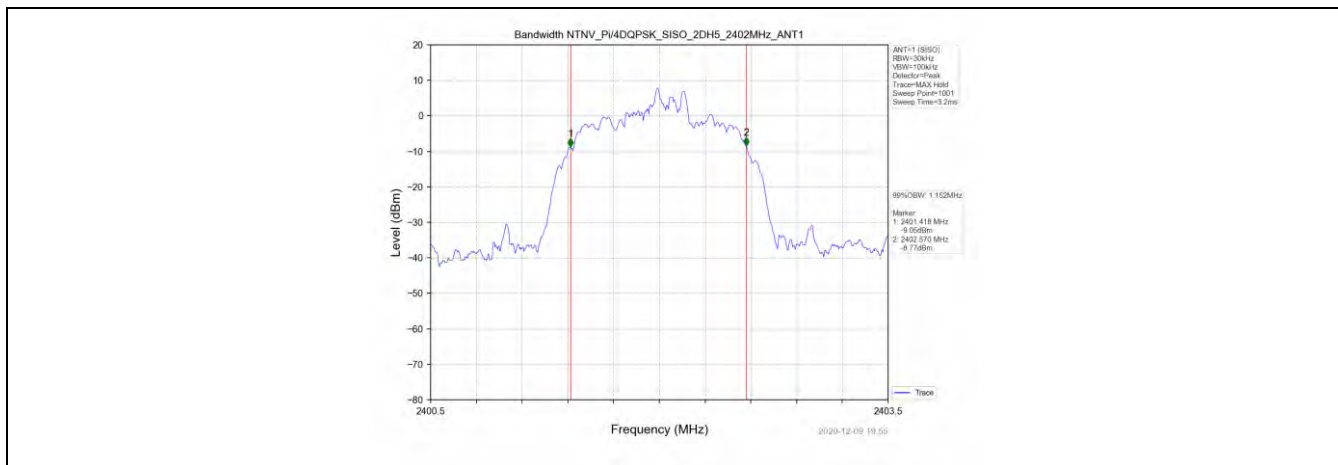
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1.3 Test Graph - 99% Occupied Bandwidth

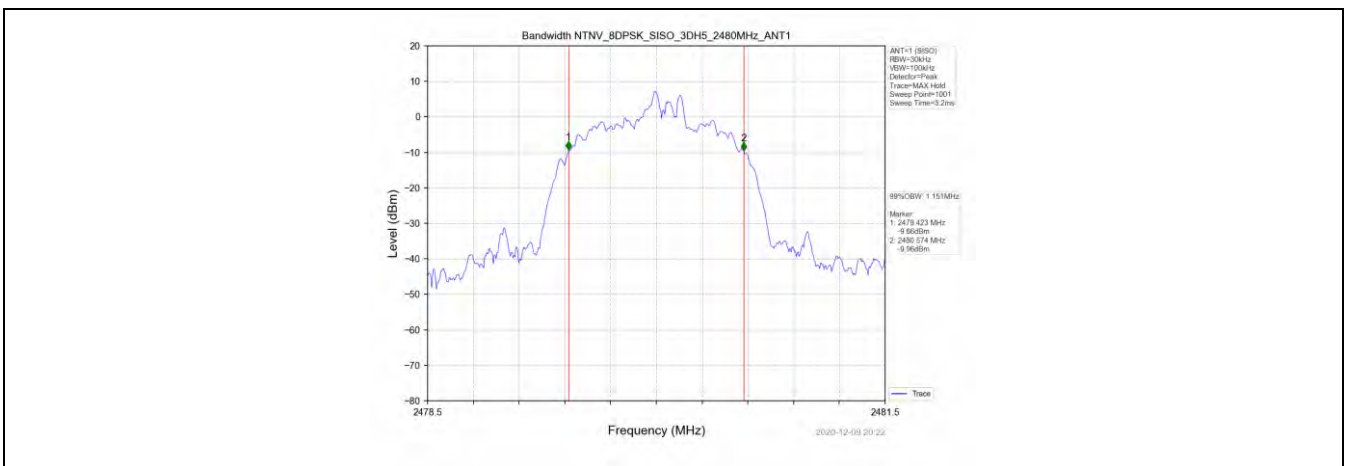
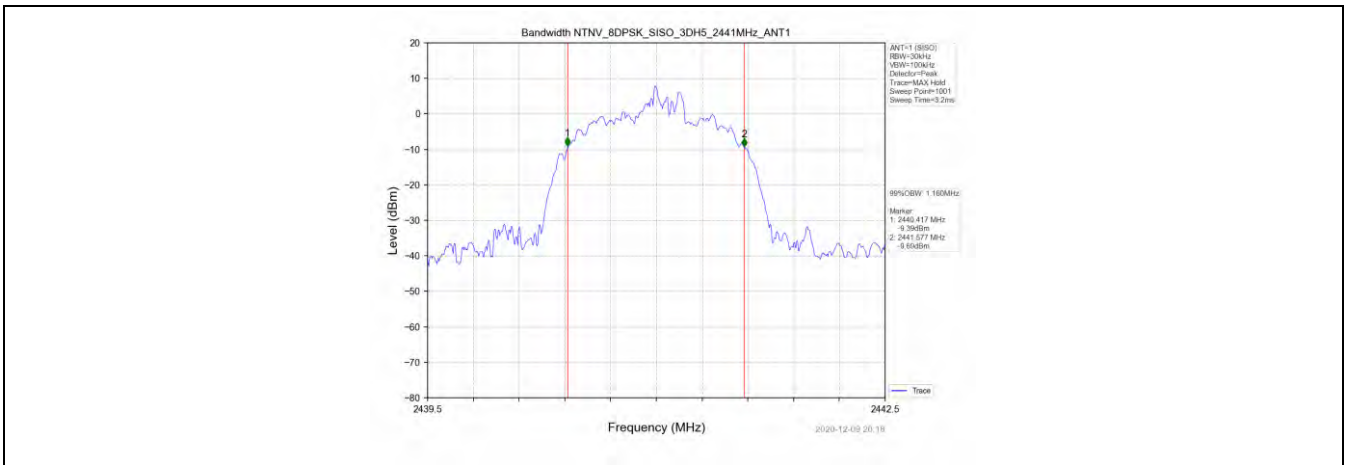
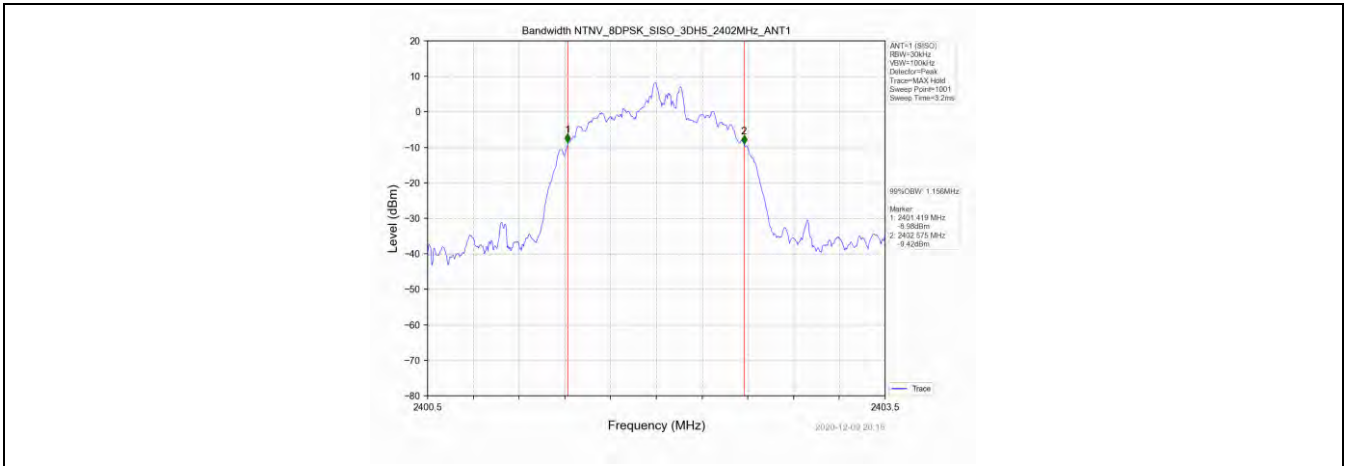


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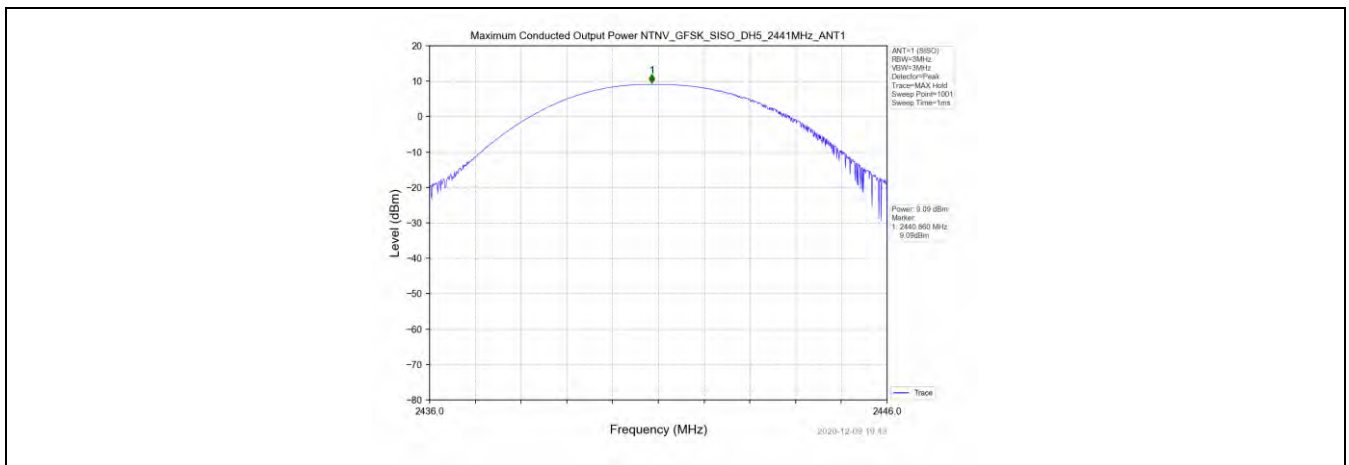
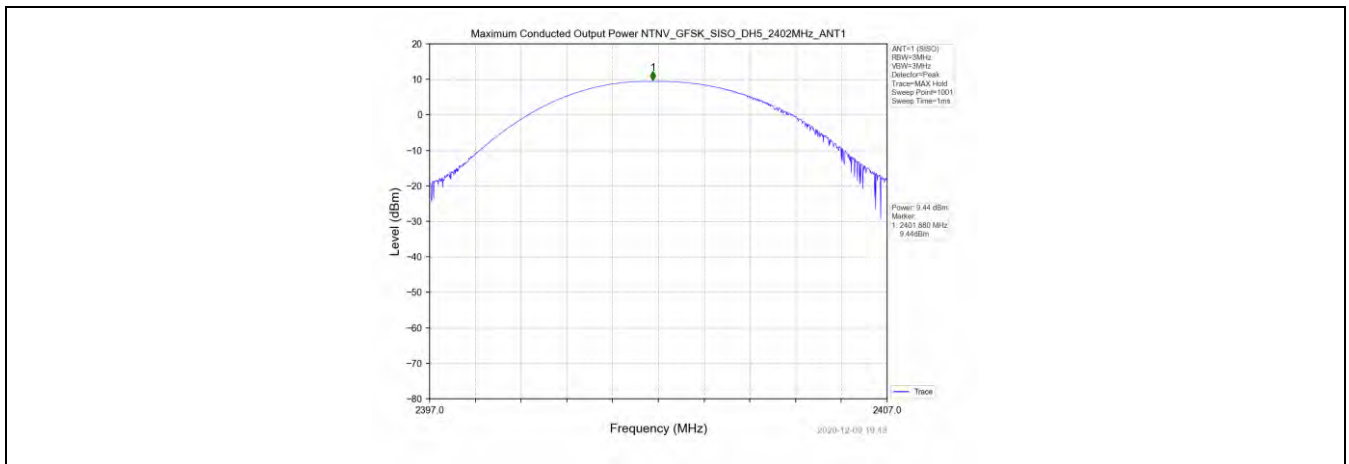
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2. Maximum Conducted Output Power

2.1 Test Result

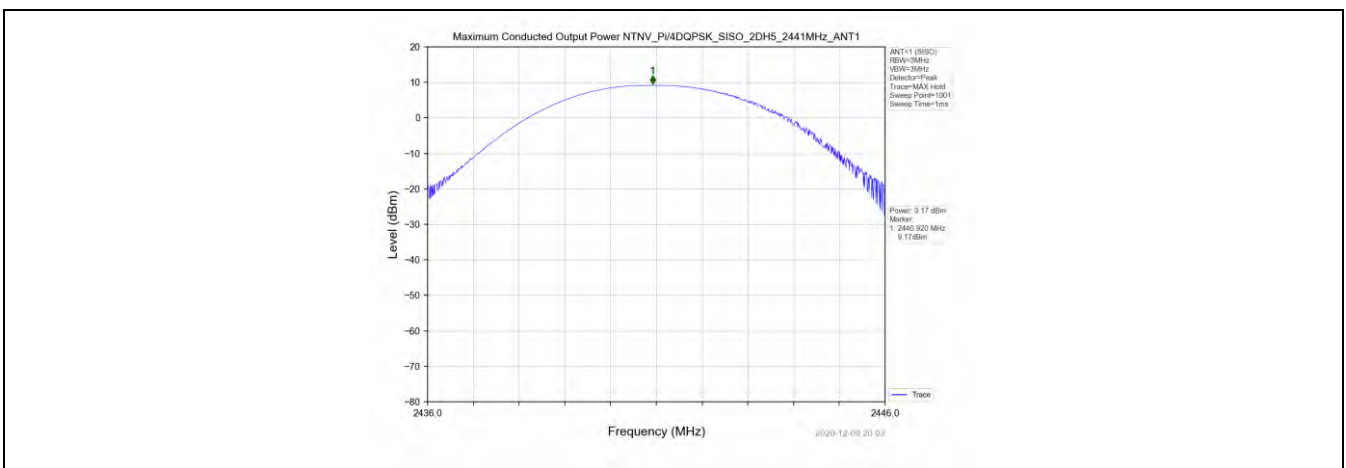
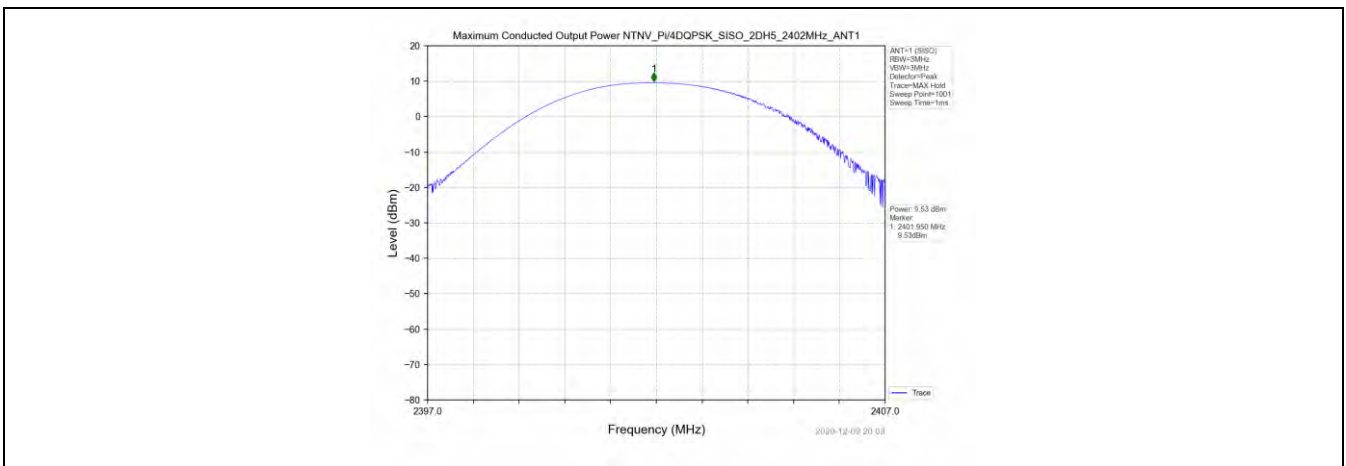
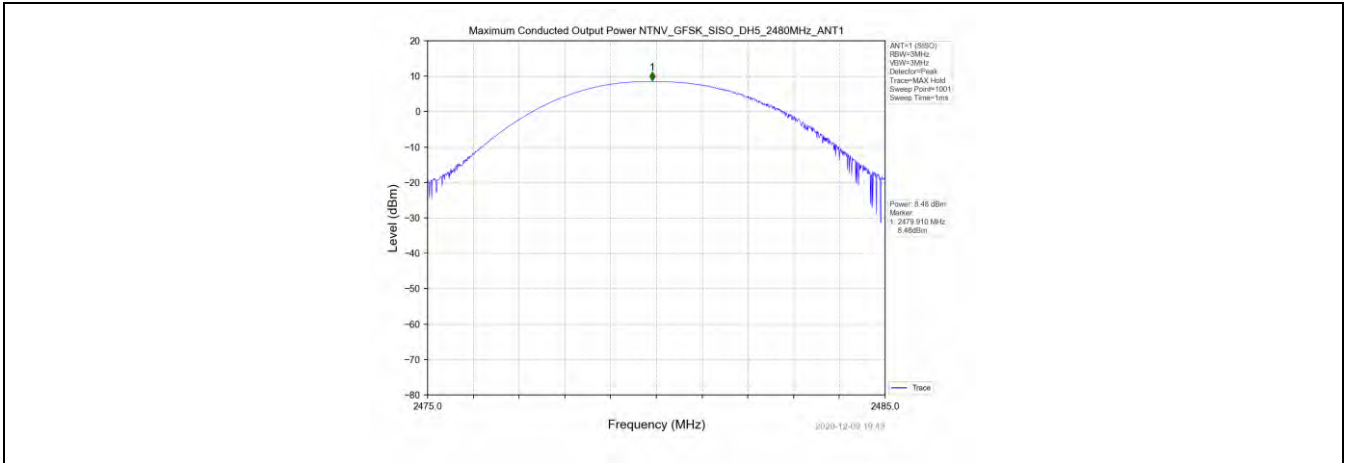
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	9.44	20.97	PASS
	2441	SISO	9.09	20.97	PASS
	2480	SISO	8.48	20.97	PASS
Pi/4DQPSK	2402	SISO	9.53	20.97	PASS
	2441	SISO	9.17	20.97	PASS
	2480	SISO	8.54	20.97	PASS
8DPSK	2402	SISO	9.53	20.97	PASS
	2441	SISO	9.18	20.97	PASS
	2480	SISO	8.58	20.97	PASS

2.2 Test Graph



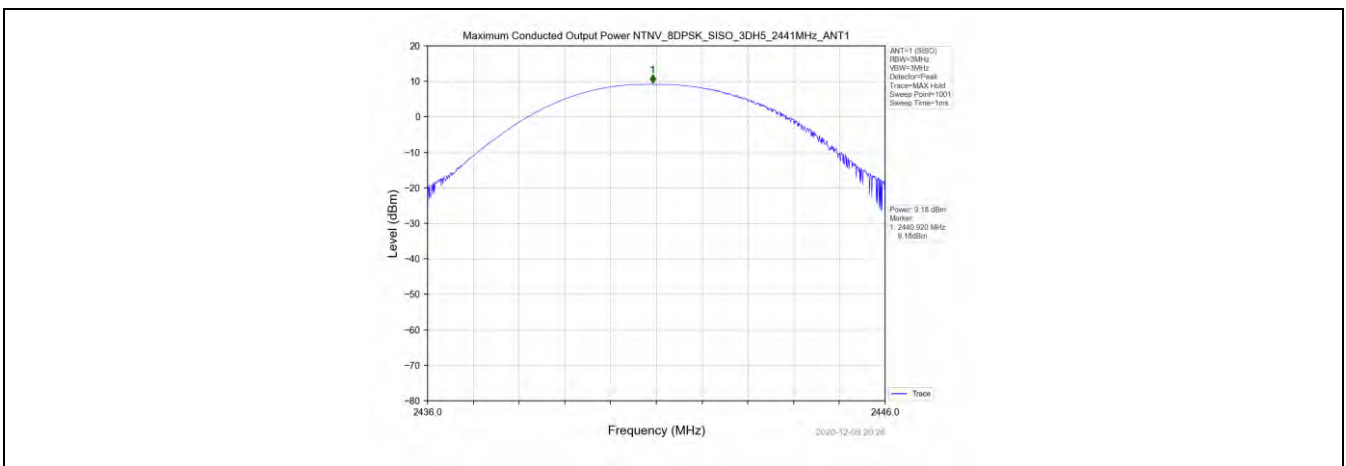
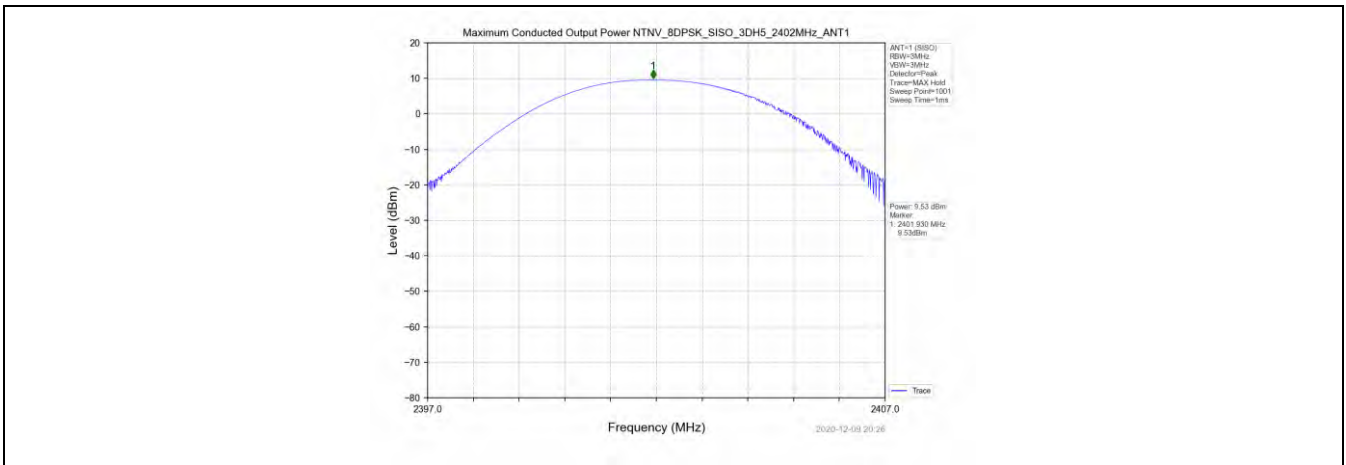
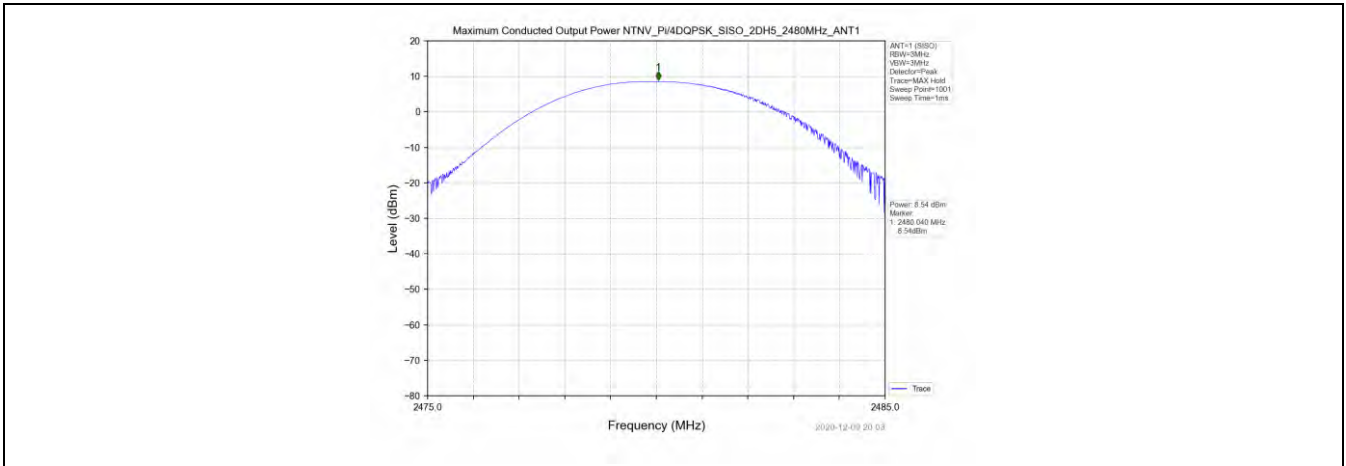
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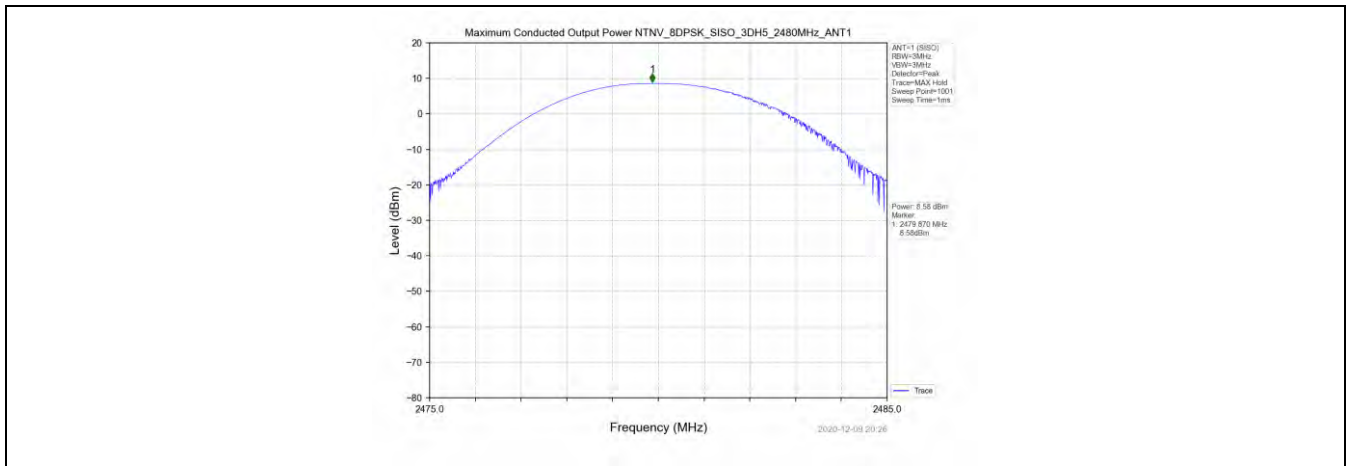
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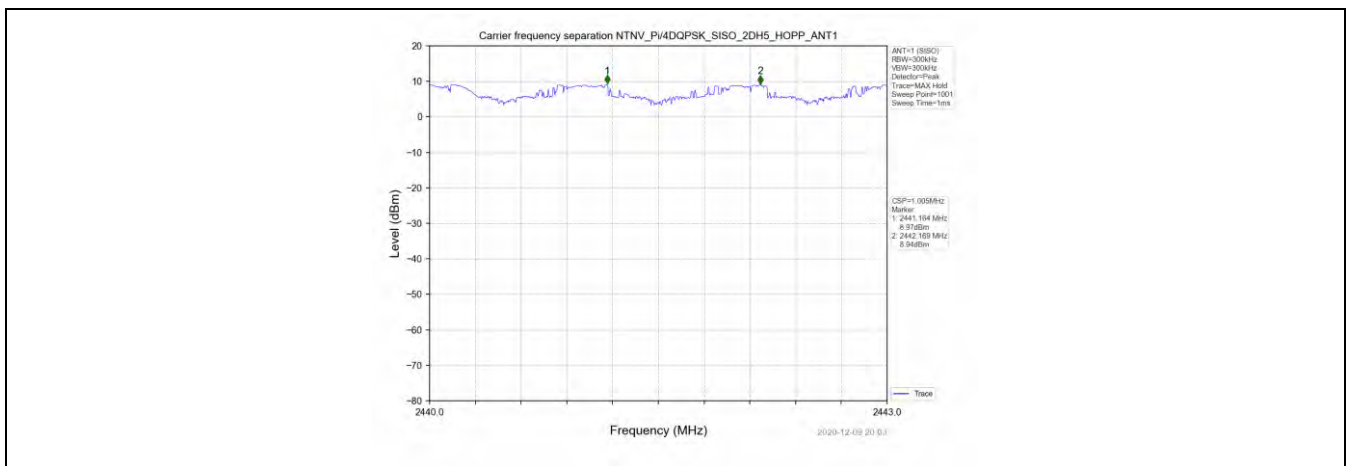
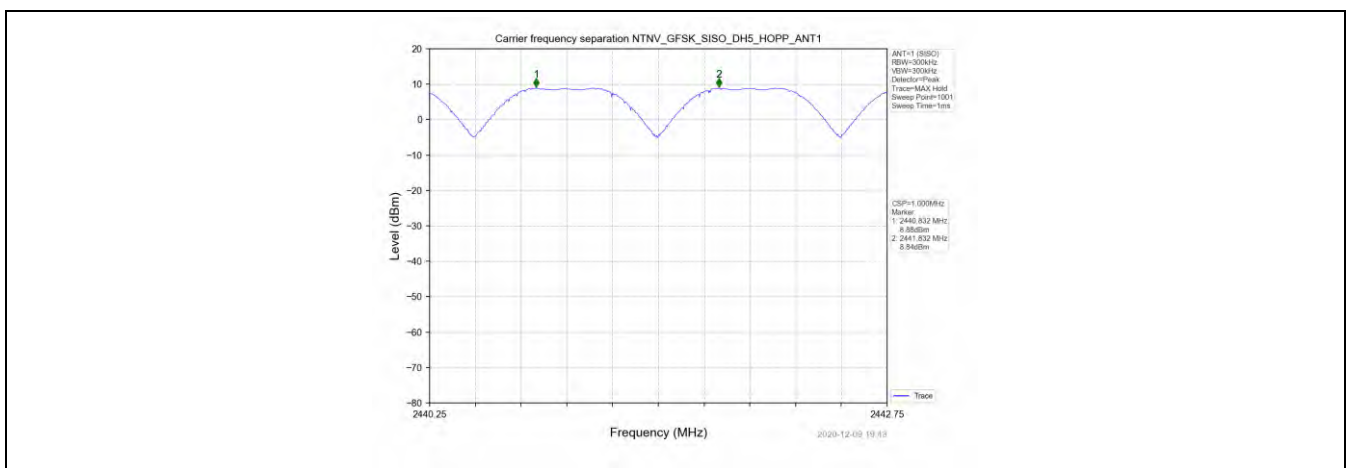
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3. Carrier frequency separation

3.1 Test Result

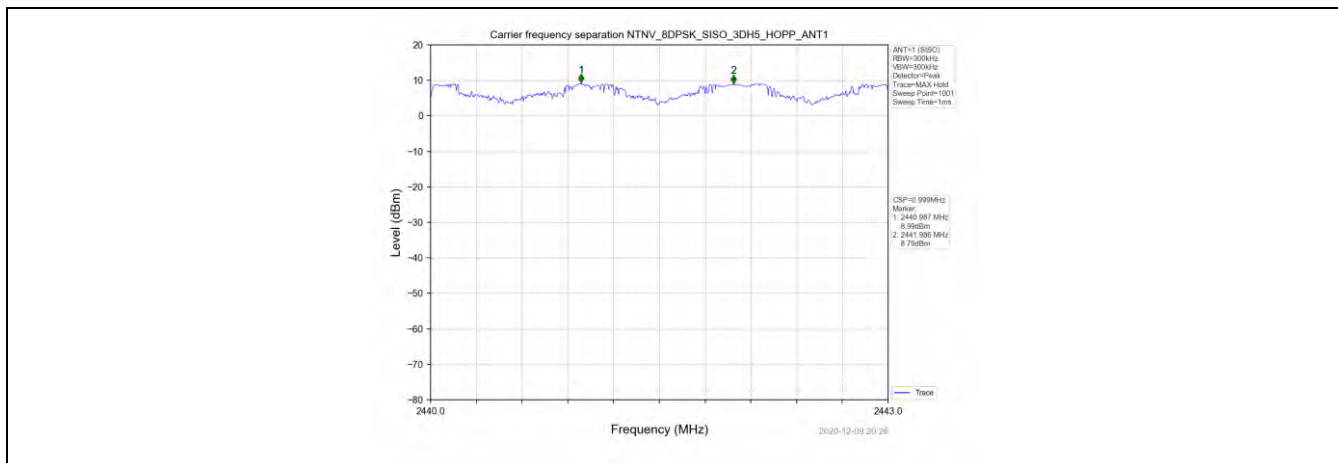
Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.046	≥0.697	PASS
Pi/4DQPSK	SISO	1	1.005	1.265	≥0.843	PASS
8DPSK	SISO	1	0.999	1.254	≥0.836	PASS

3.2 Test Graph



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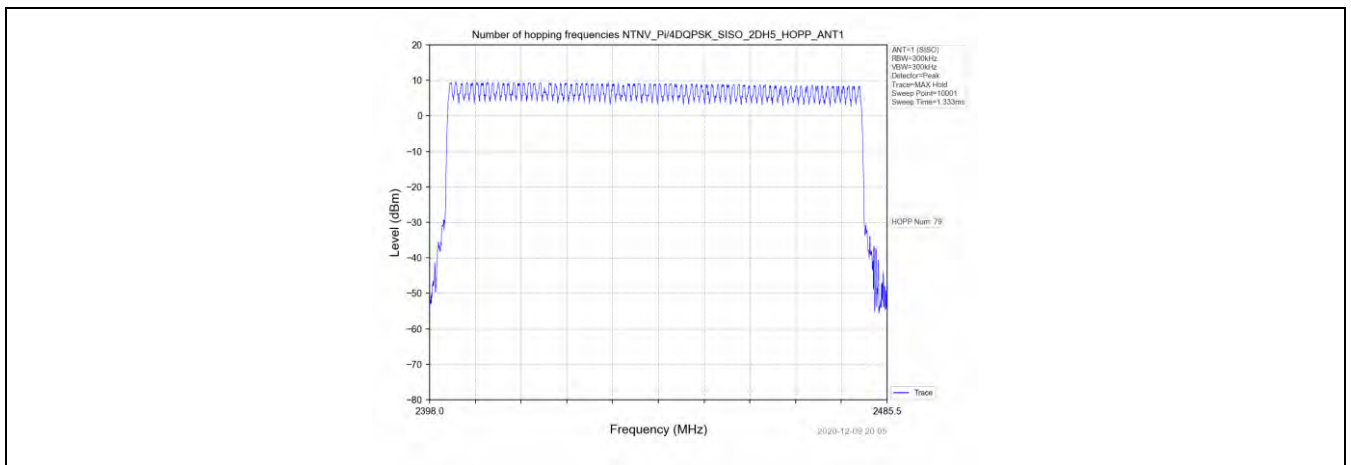
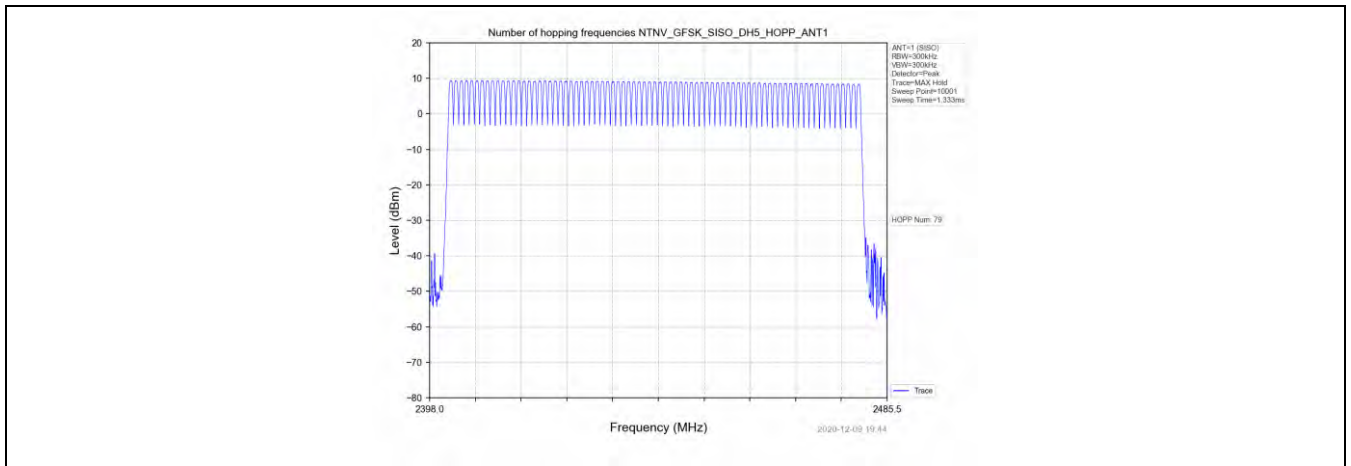
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4. Number of hopping frequencies

4.1 Test Result

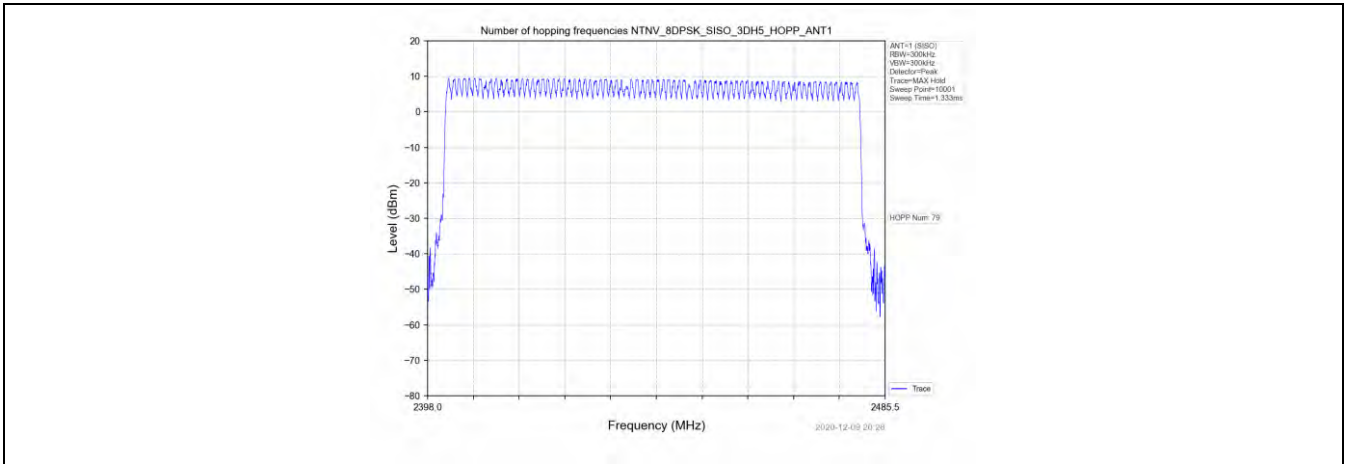
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph



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5. Time of Occupancy (Dwell Time)

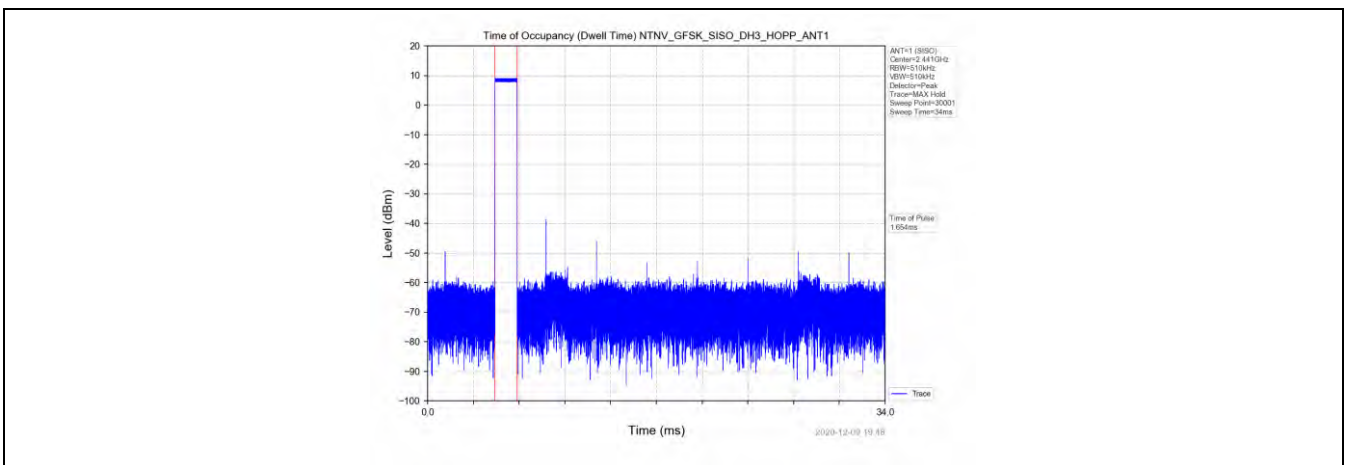
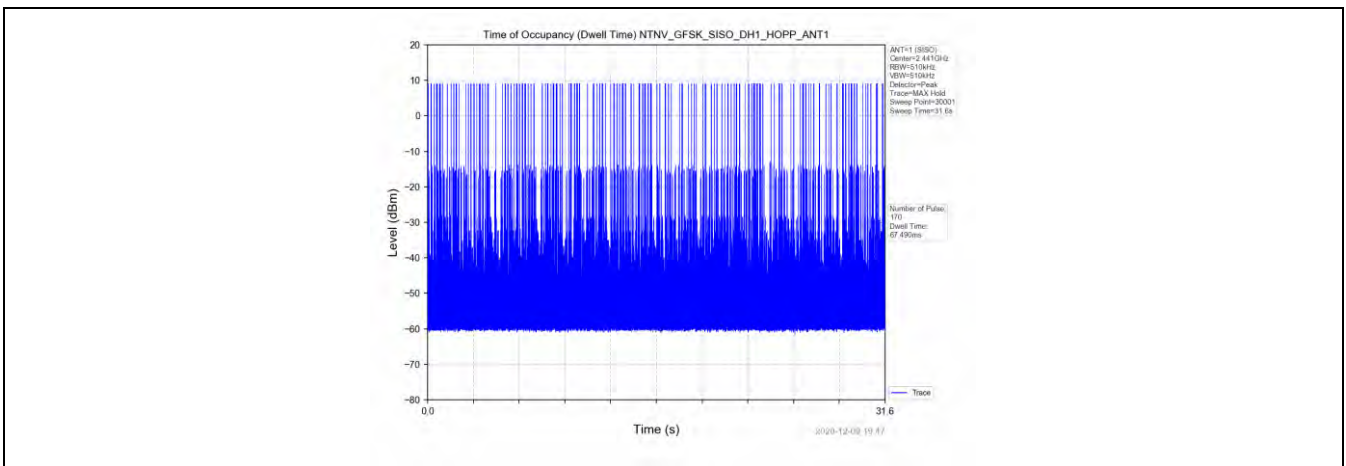
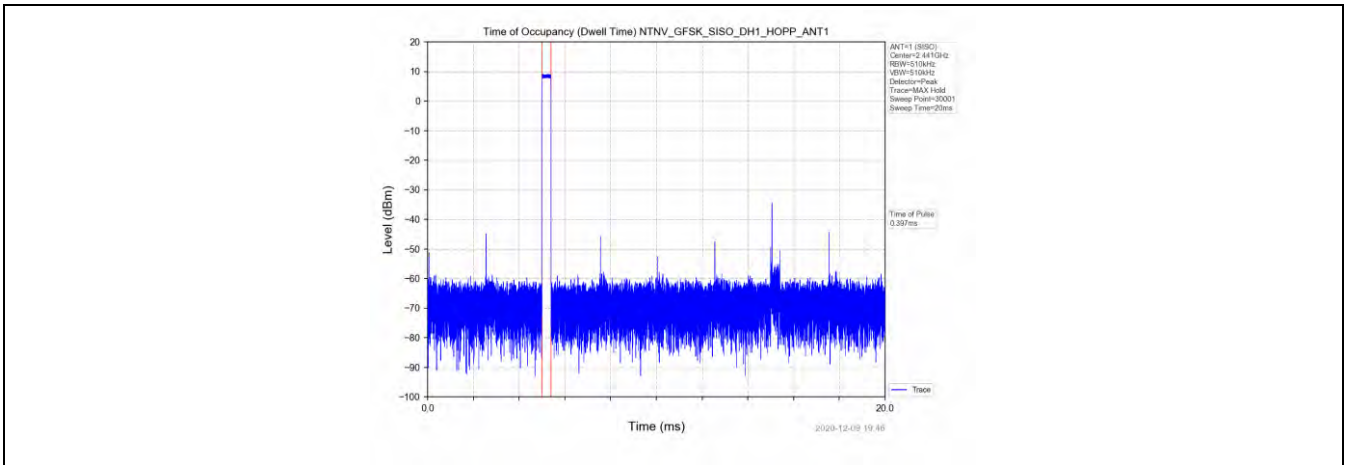
5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.397	31.6	170	67.490	≤400	PASS
	DH3	SISO	1	1.654	31.6	110	181.940	≤400	PASS
	DH5	SISO	1	2.901	31.6	80	232.080	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.413	31.6	155	64.015	≤400	PASS
	2DH3	SISO	1	1.661	31.6	96	159.456	≤400	PASS
	2DH5	SISO	1	2.909	31.6	77	223.993	≤400	PASS
8DPSK	3DH1	SISO	1	0.414	31.6	165	68.310	≤400	PASS
	3DH3	SISO	1	1.665	31.6	95	158.175	≤400	PASS
	3DH5	SISO	1	2.912	31.6	83	241.696	≤400	PASS

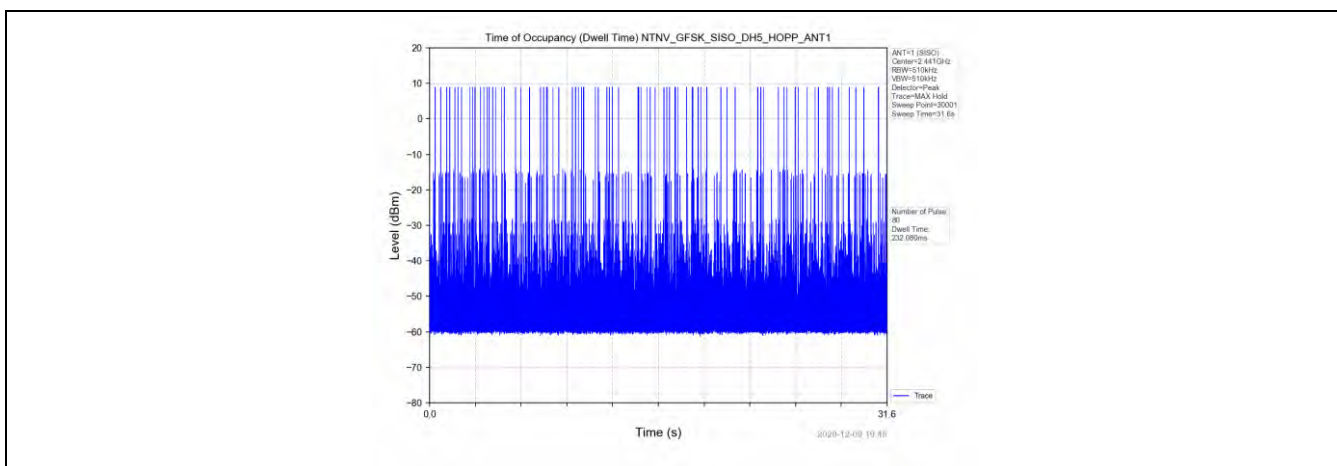
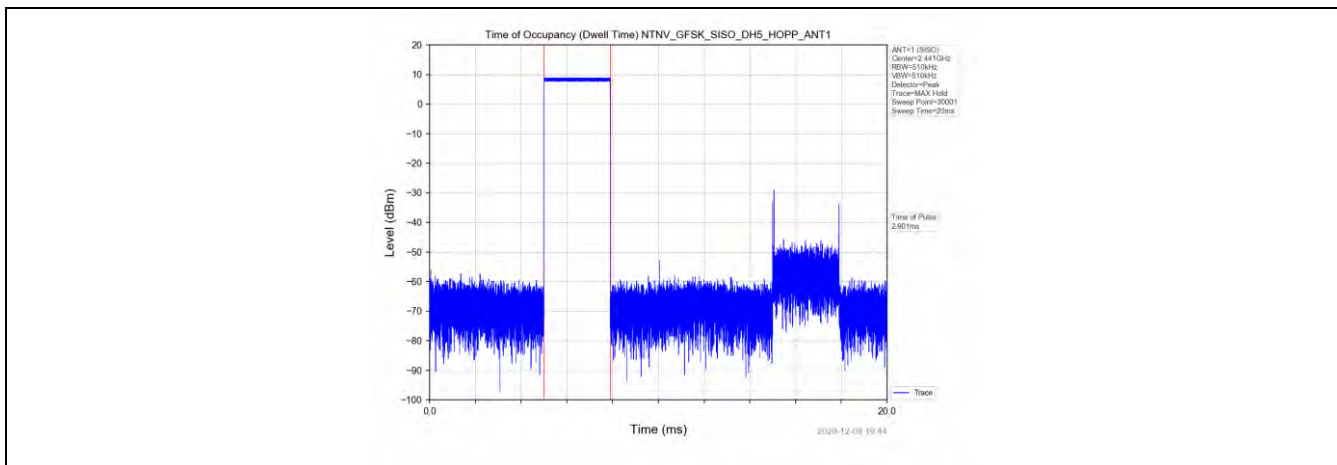
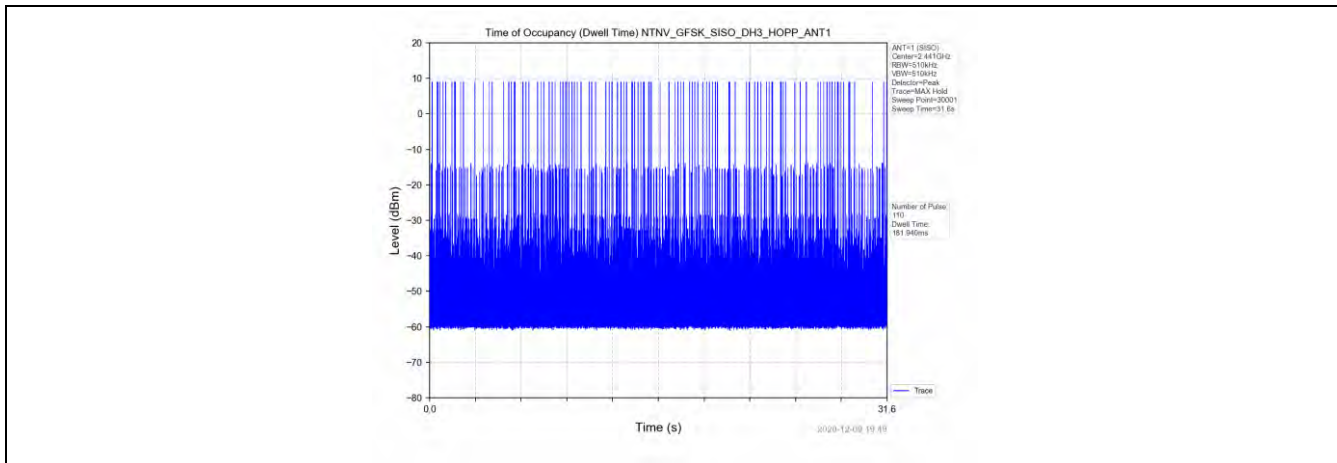


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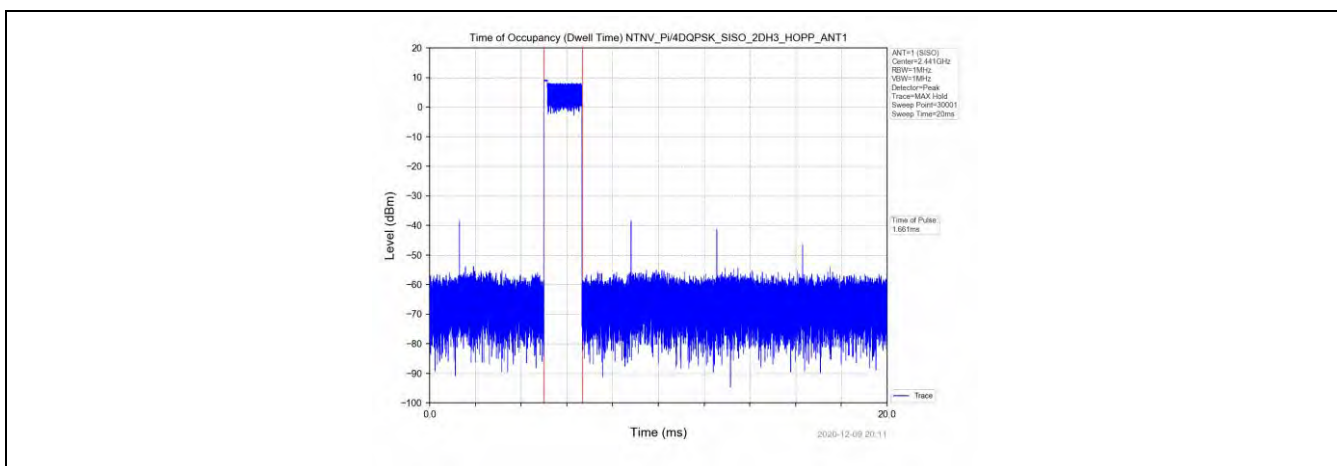
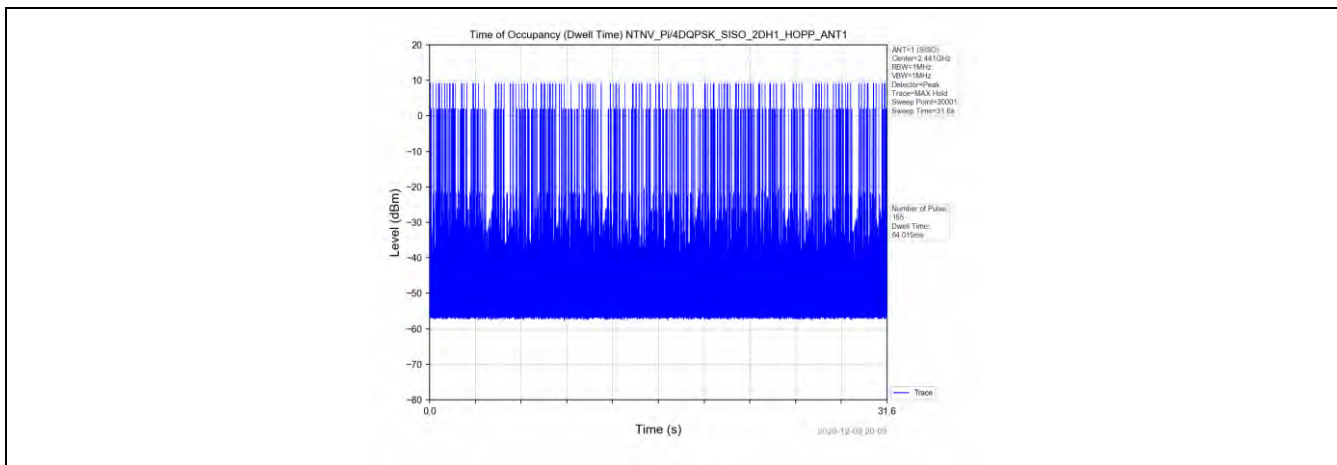
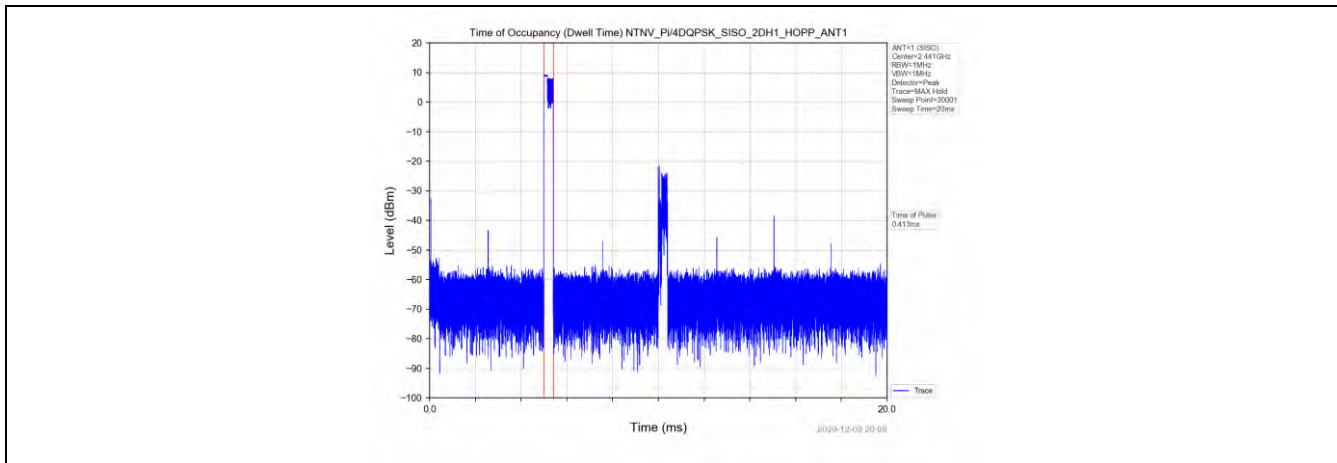
5.2 Test Graph



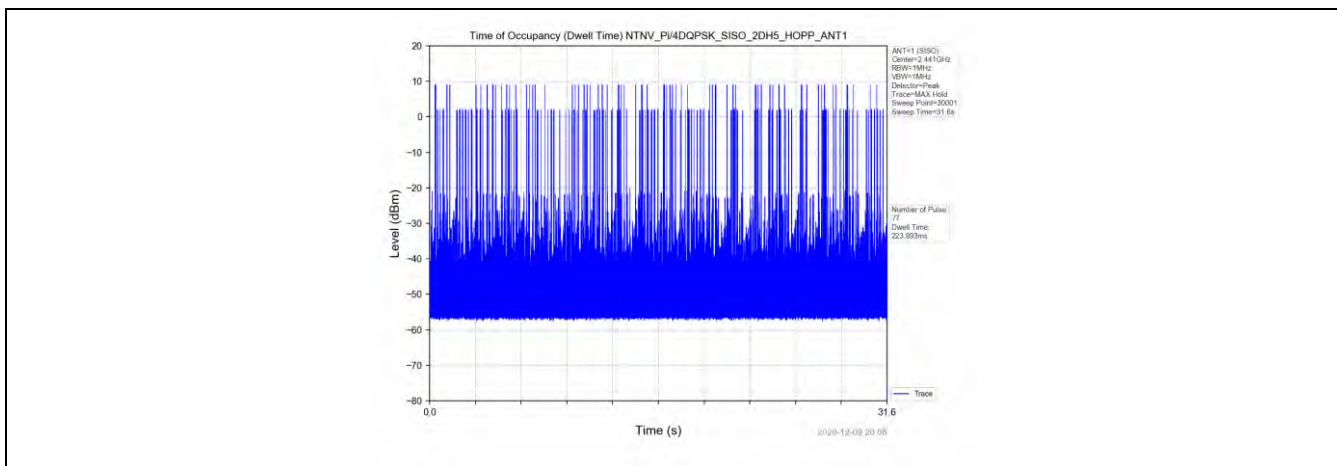
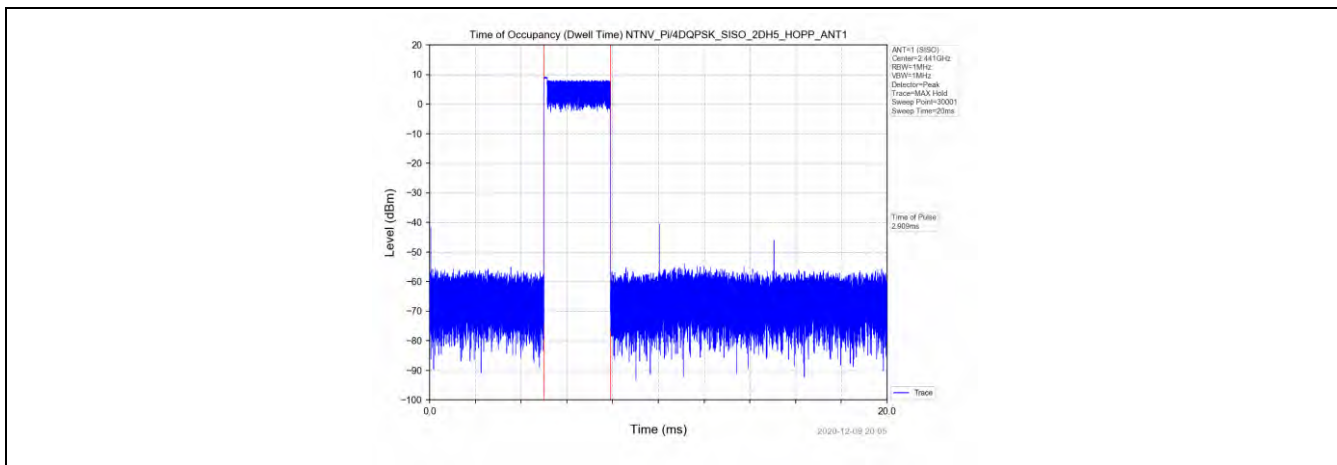
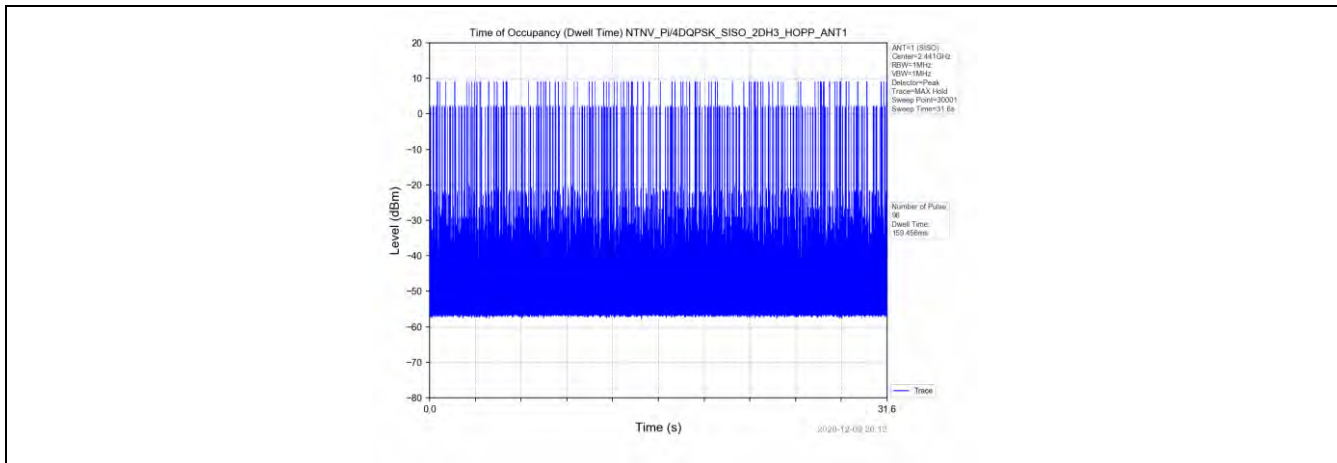
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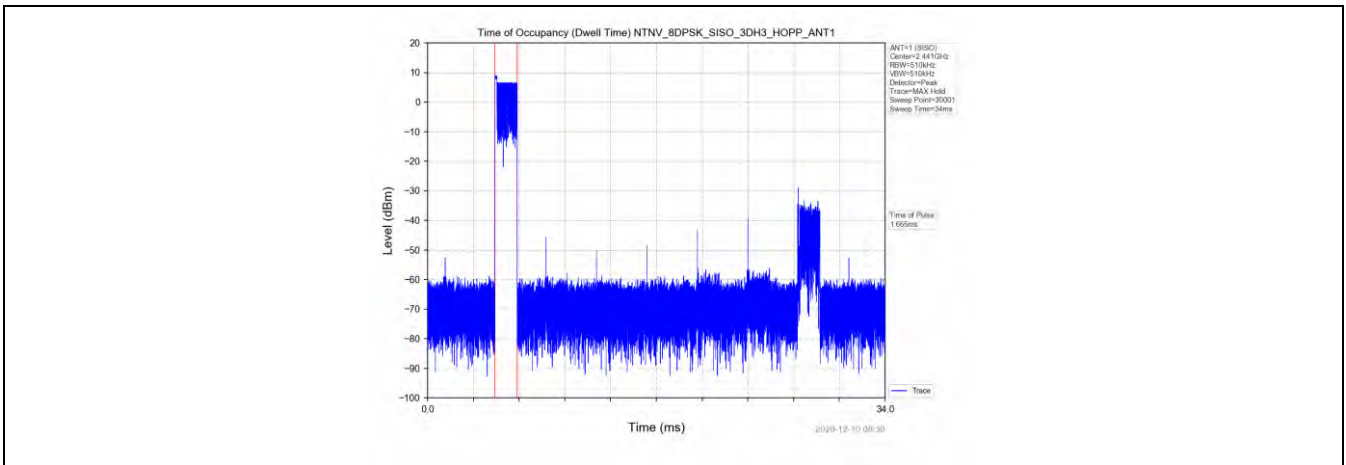
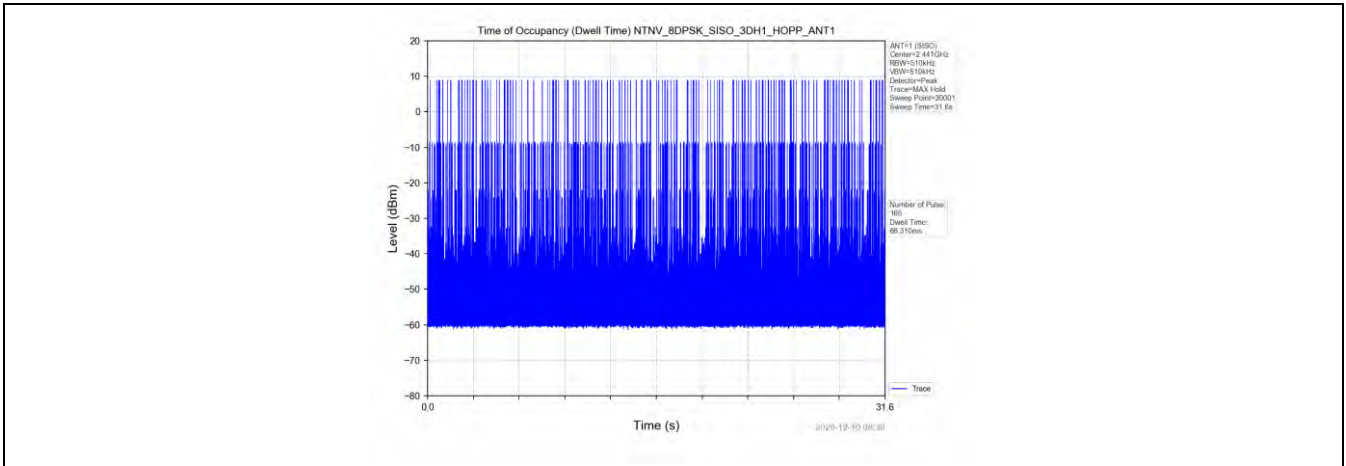
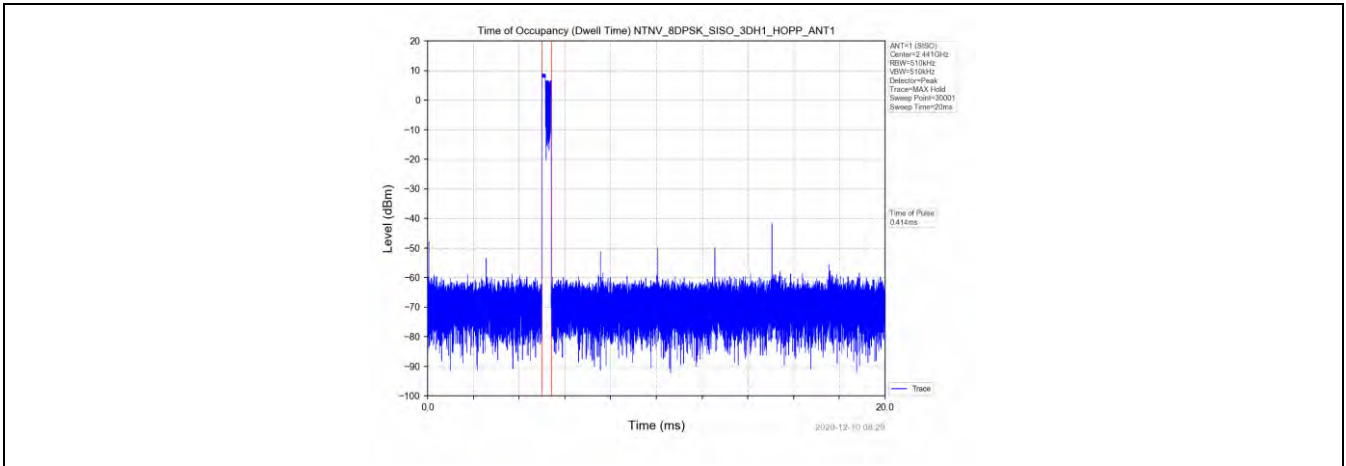


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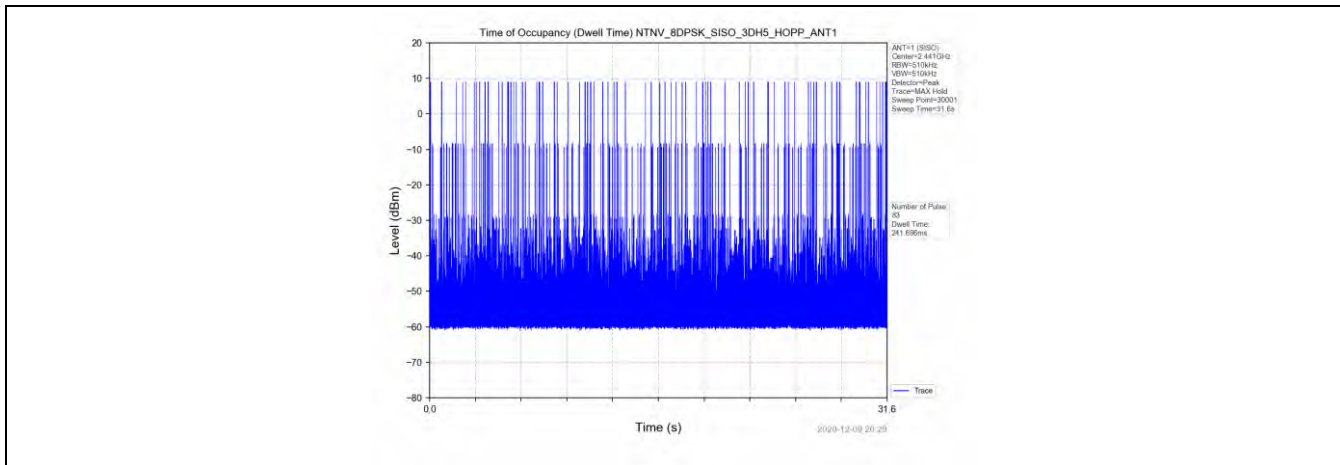
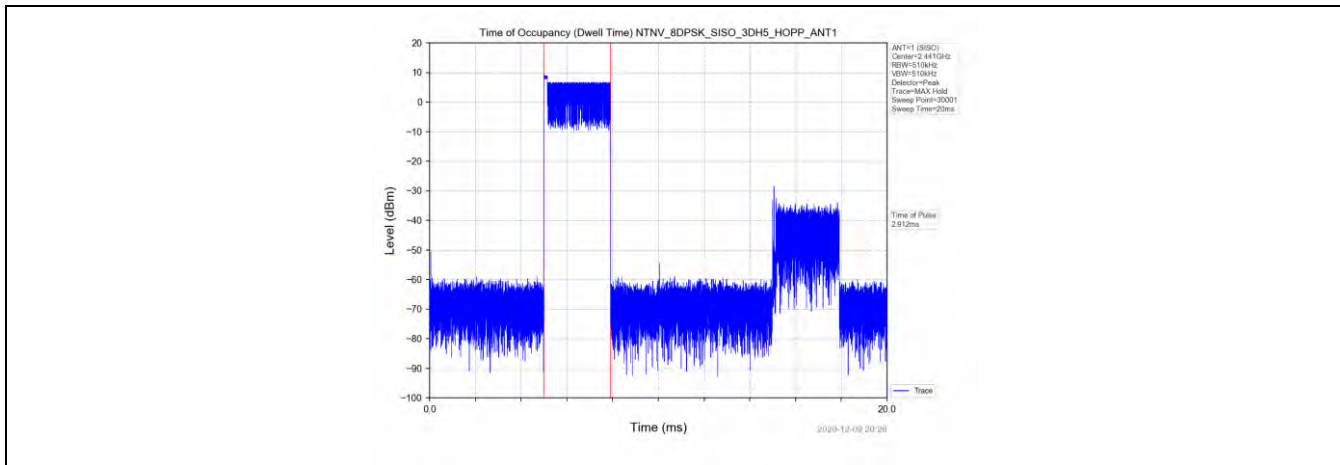
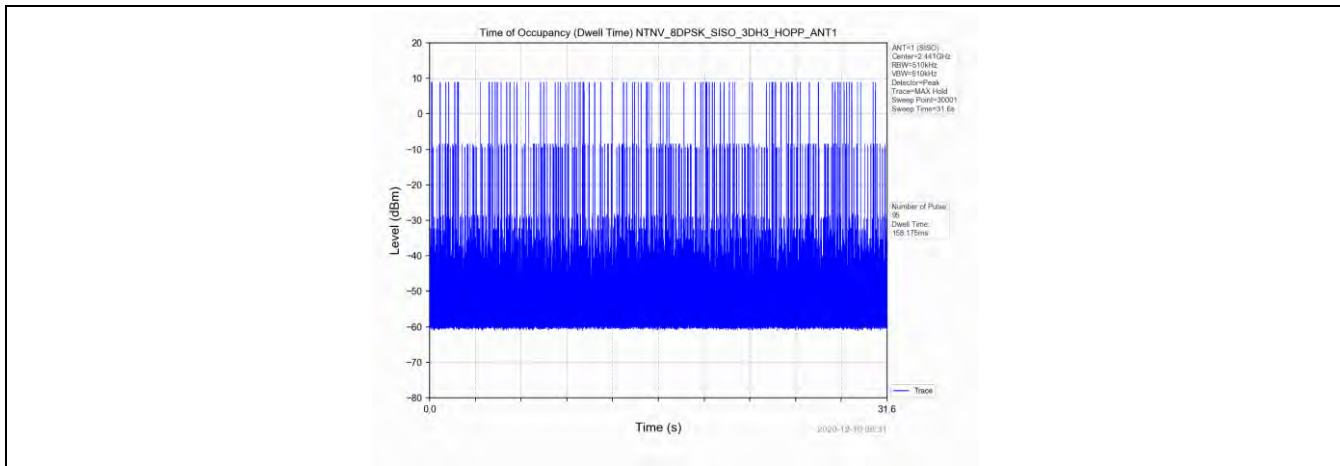
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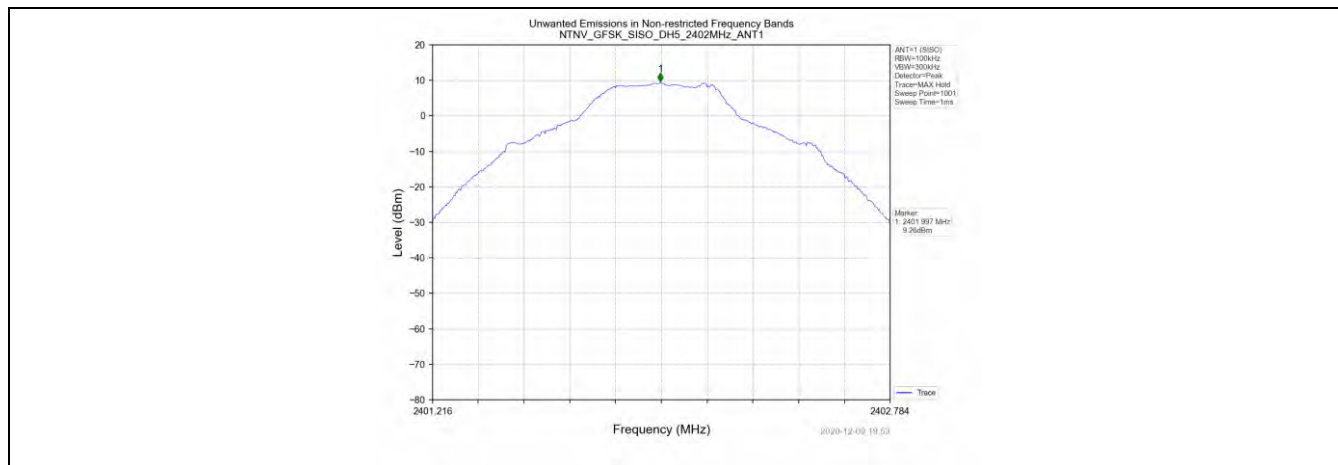
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

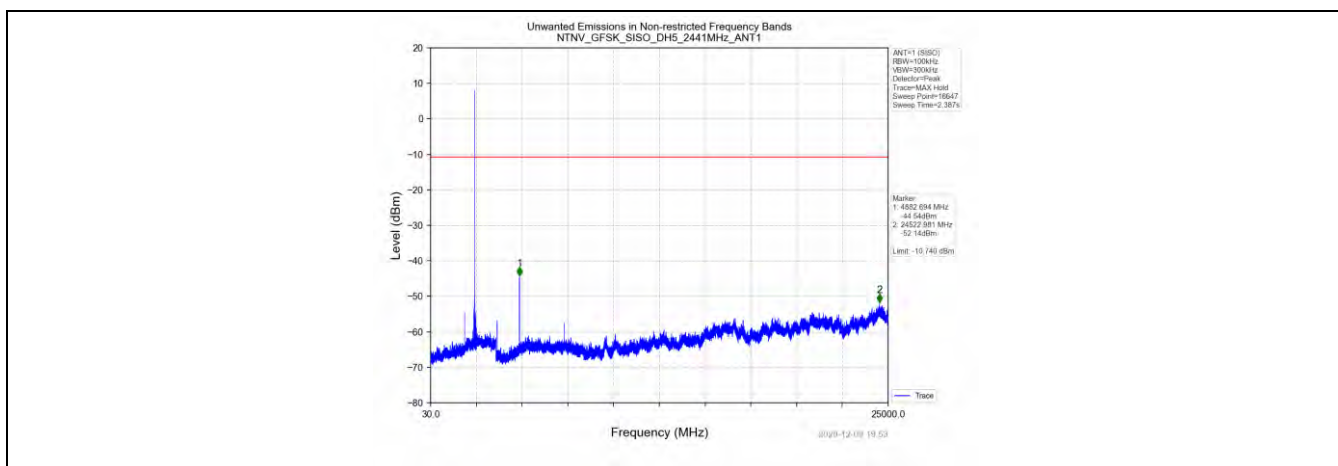
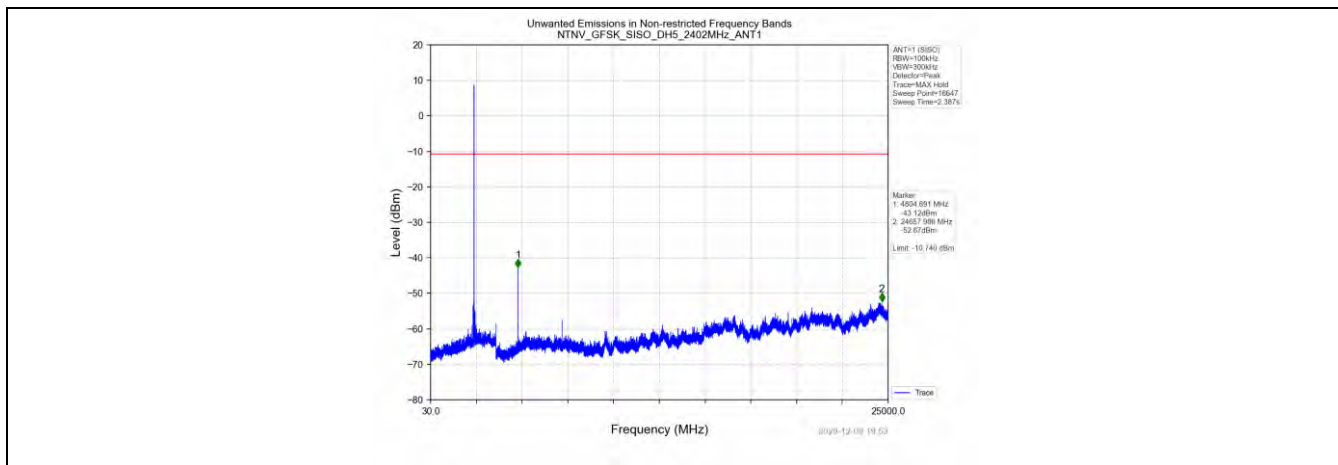
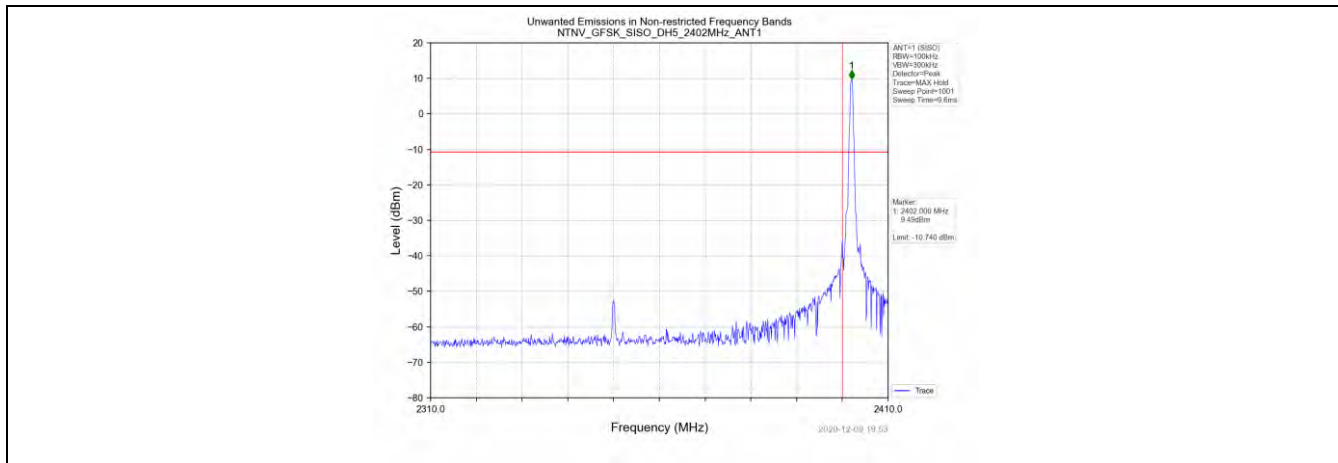
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-10.74	PASS
	2441	SISO	1	Refer to test graph	-10.74	PASS
	2480	SISO	1	Refer to test graph	-10.74	PASS
	Hopping	SISO	1	Refer to test graph	-10.74	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-10.63	PASS
	2441	SISO	1	Refer to test graph	-10.63	PASS
	2480	SISO	1	Refer to test graph	-10.63	PASS
	Hopping	SISO	1	Refer to test graph	-10.63	PASS
8DPSK	2402	SISO	1	Refer to test graph	-10.63	PASS
	2441	SISO	1	Refer to test graph	-10.63	PASS
	2480	SISO	1	Refer to test graph	-10.63	PASS
	Hopping	SISO	1	Refer to test graph	-10.63	PASS

6.2 Test Graph



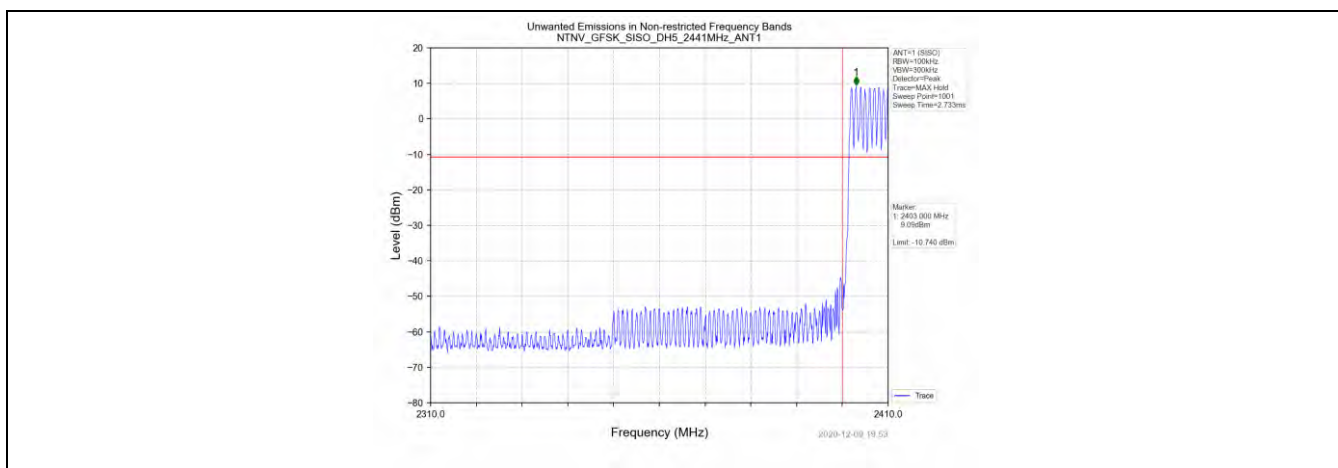
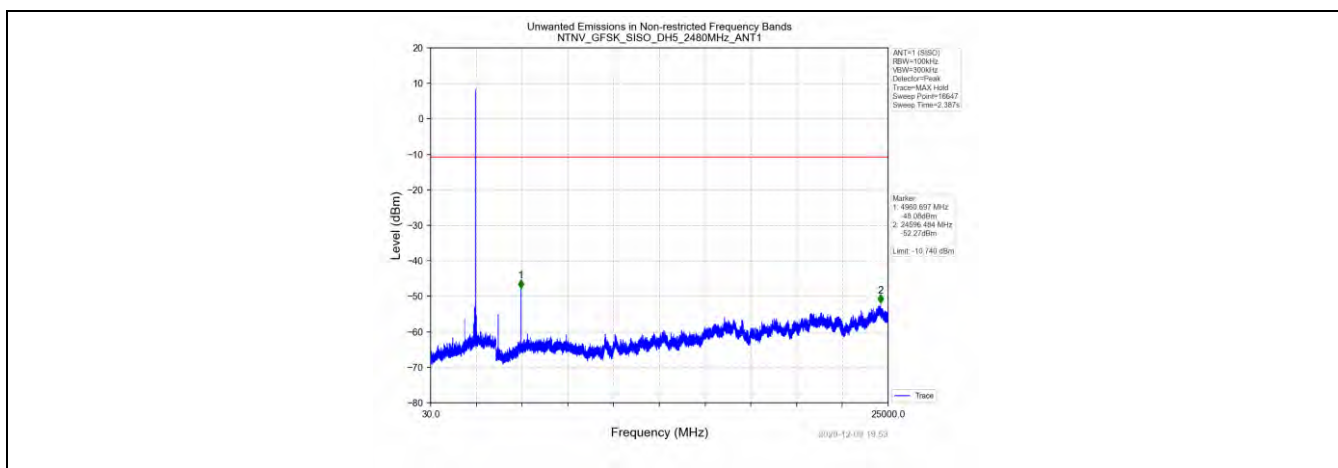
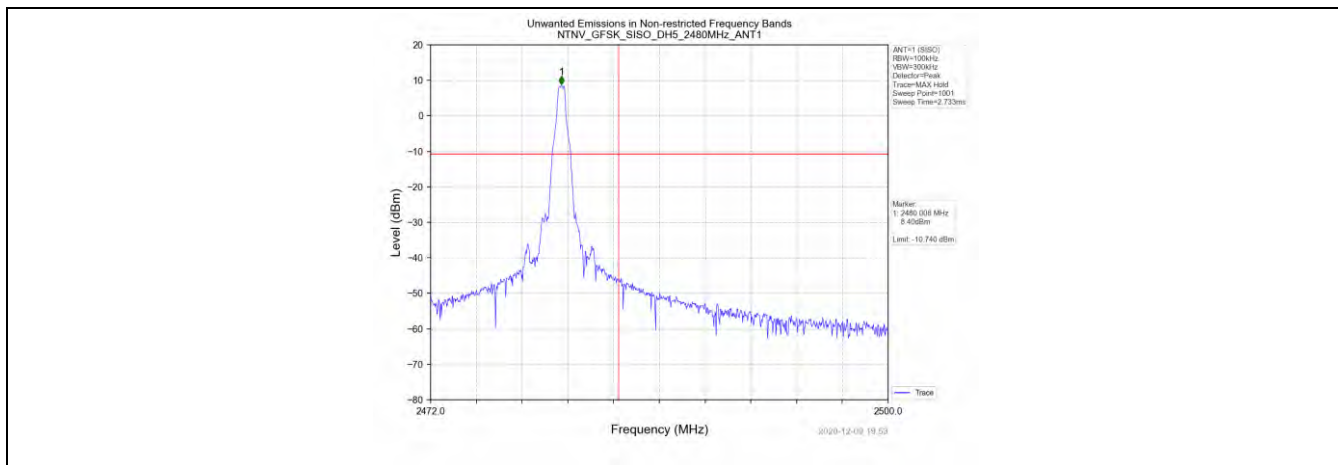
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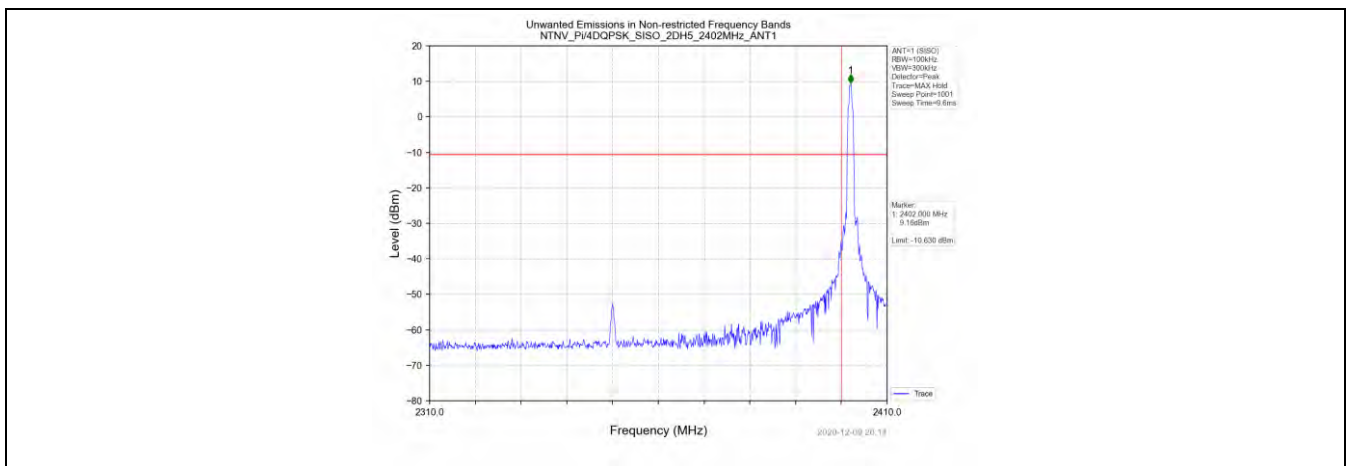
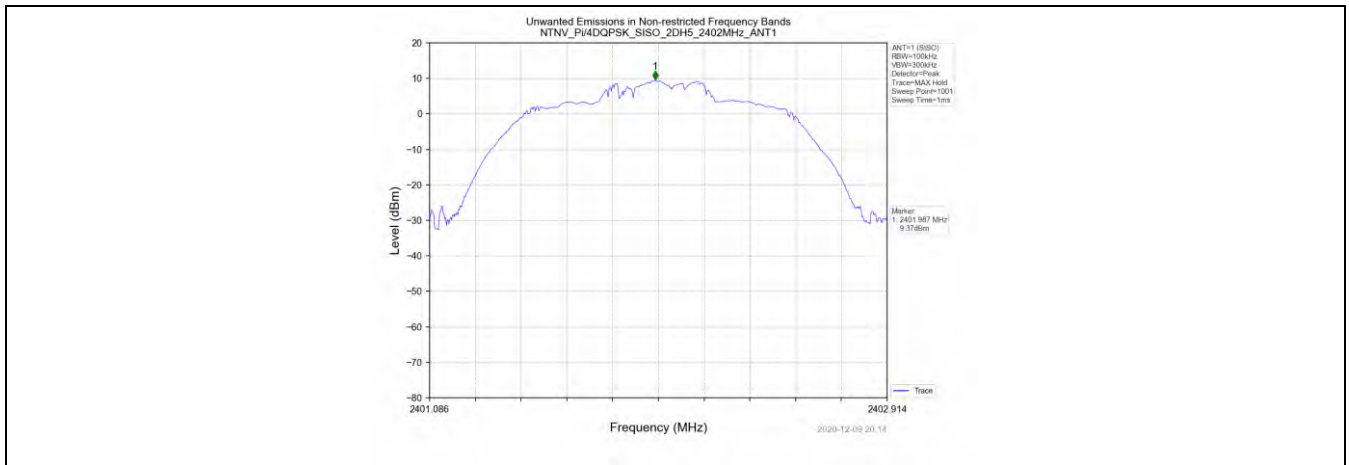
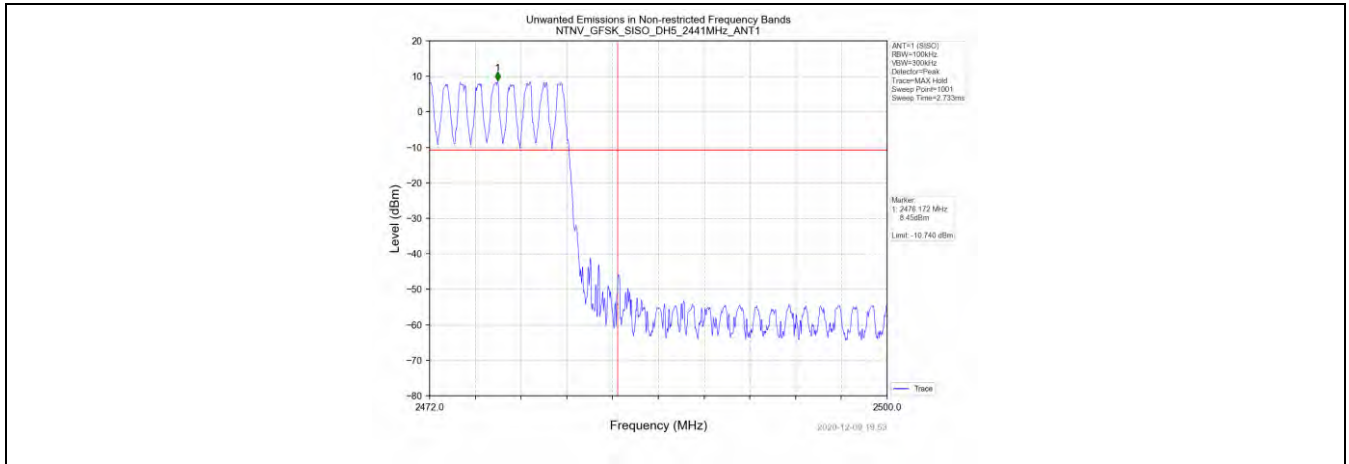
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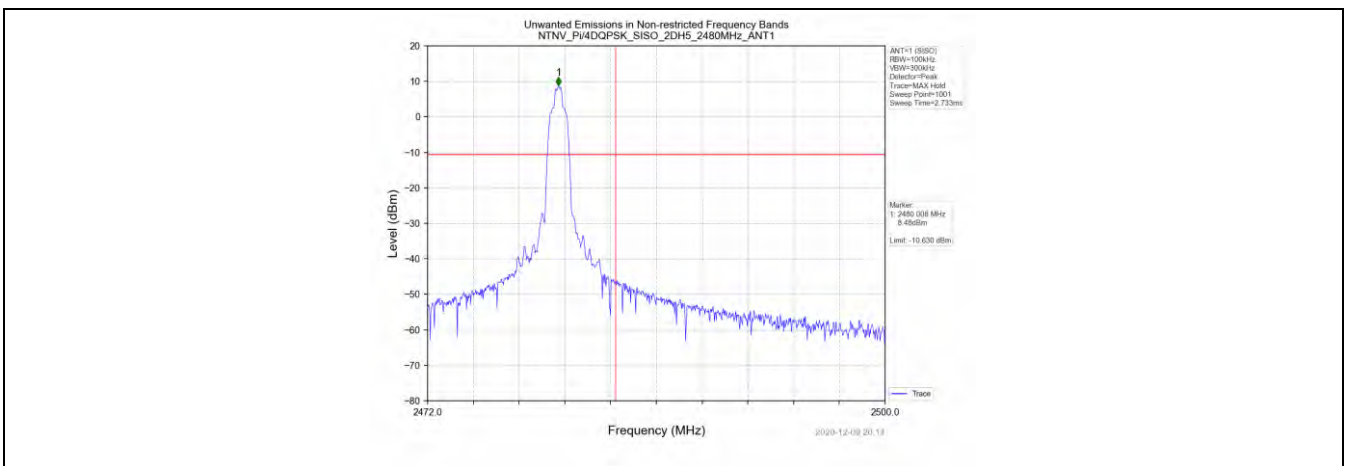
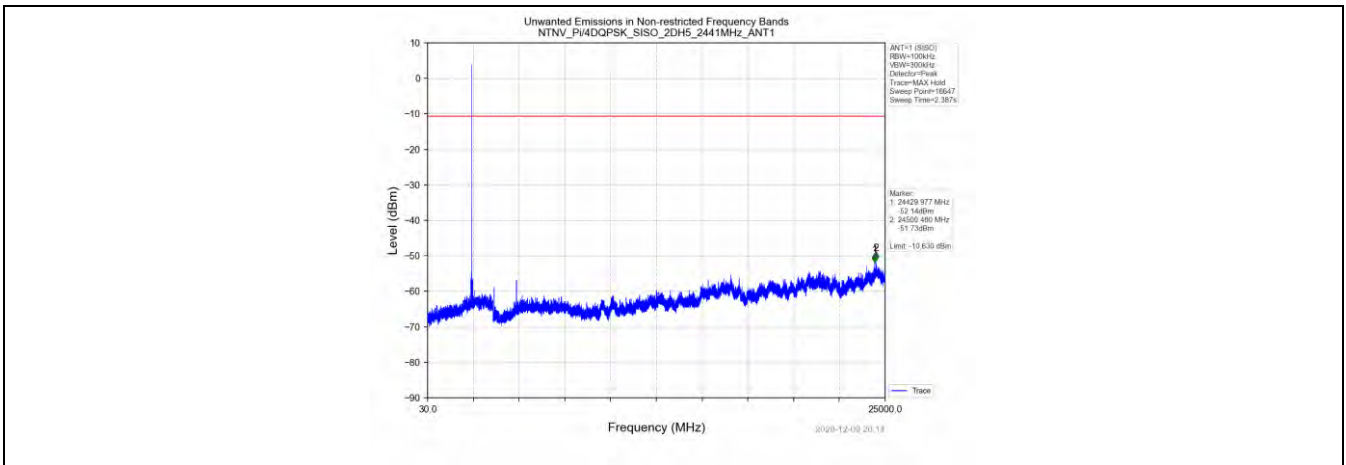
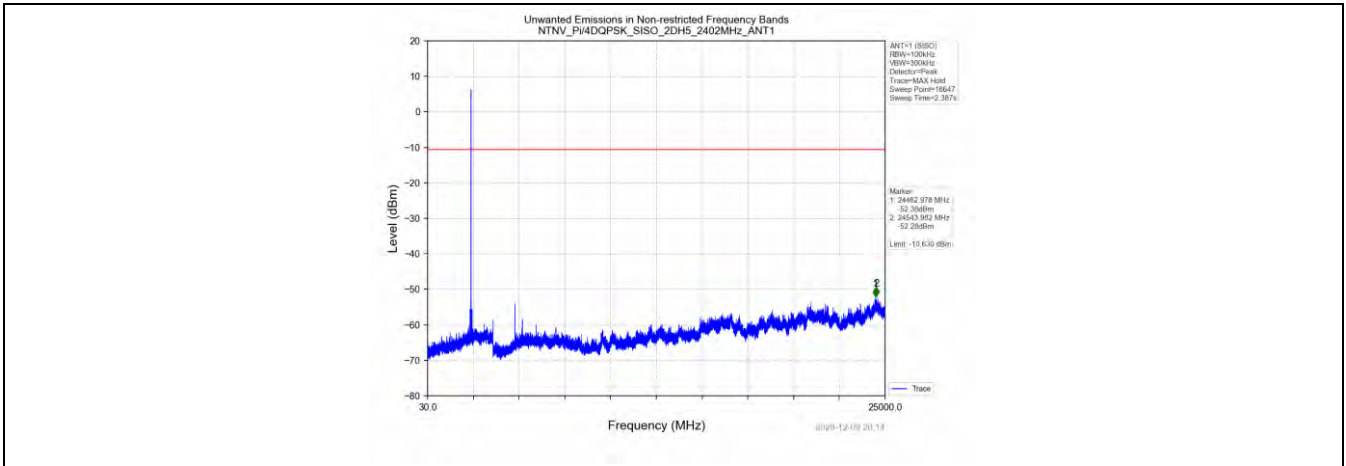
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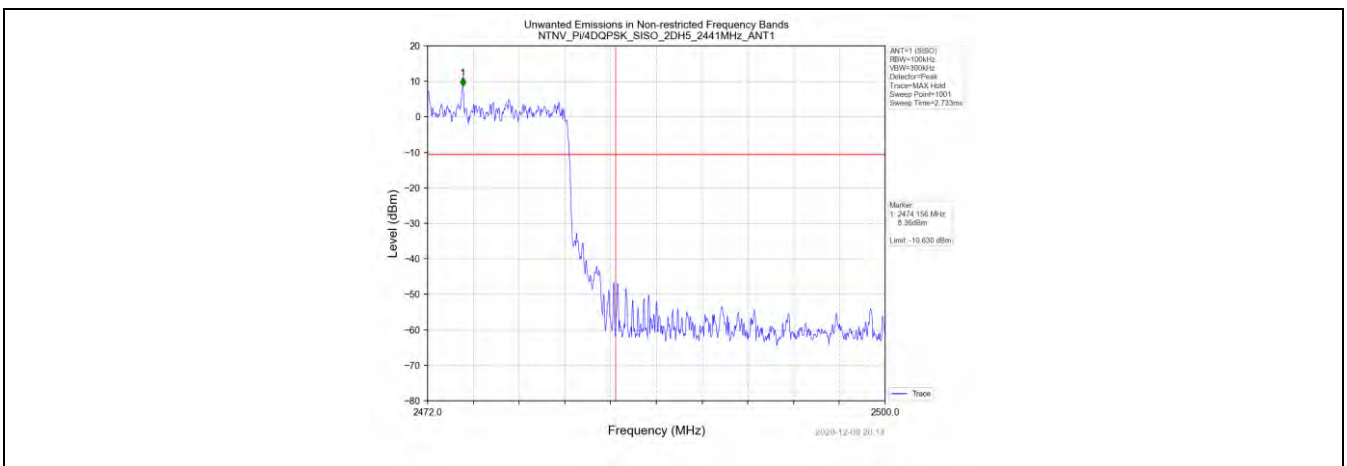
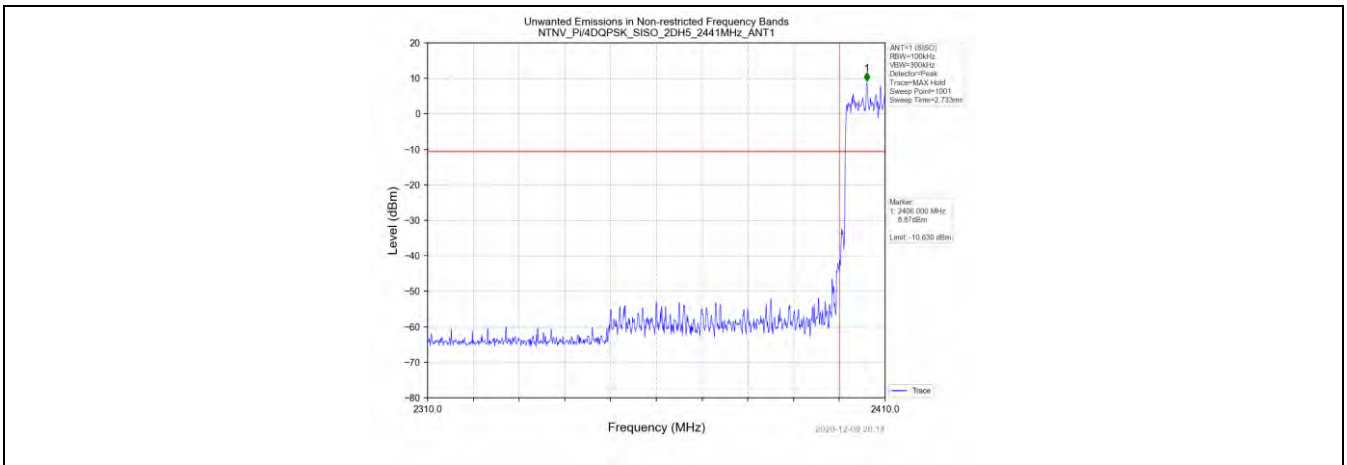
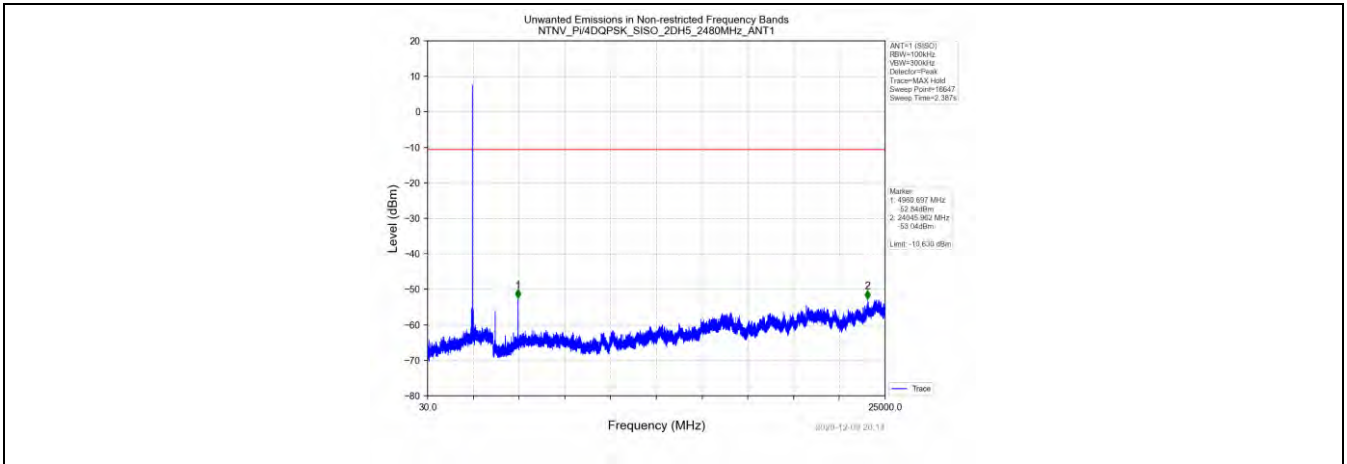
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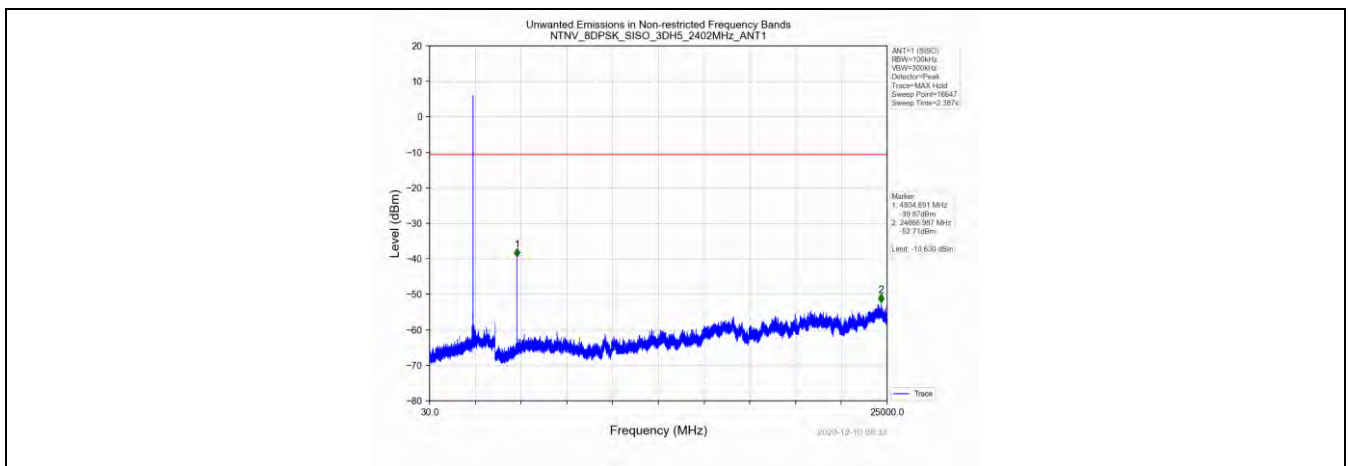
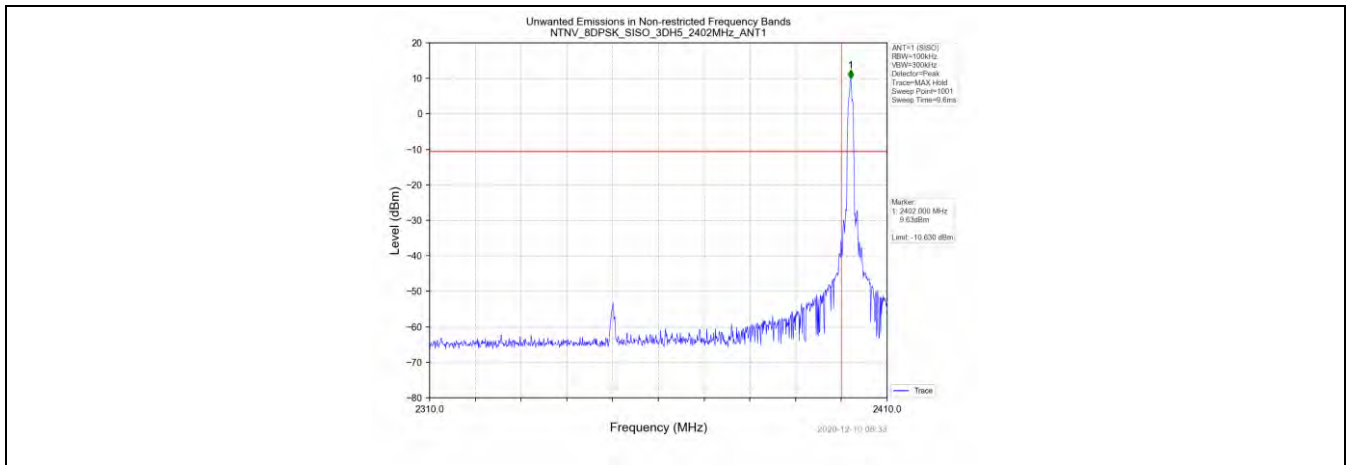
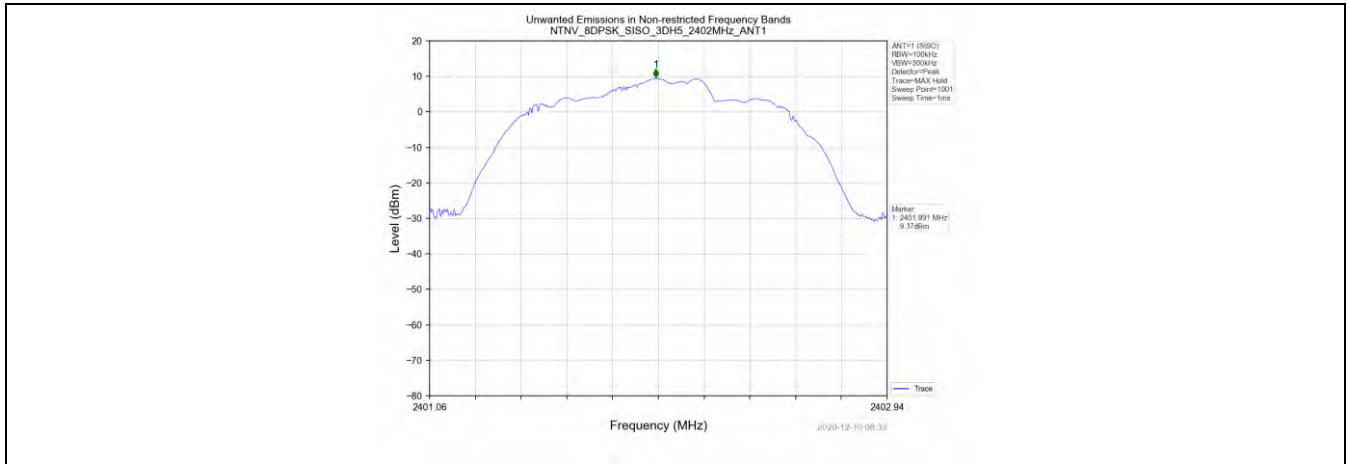
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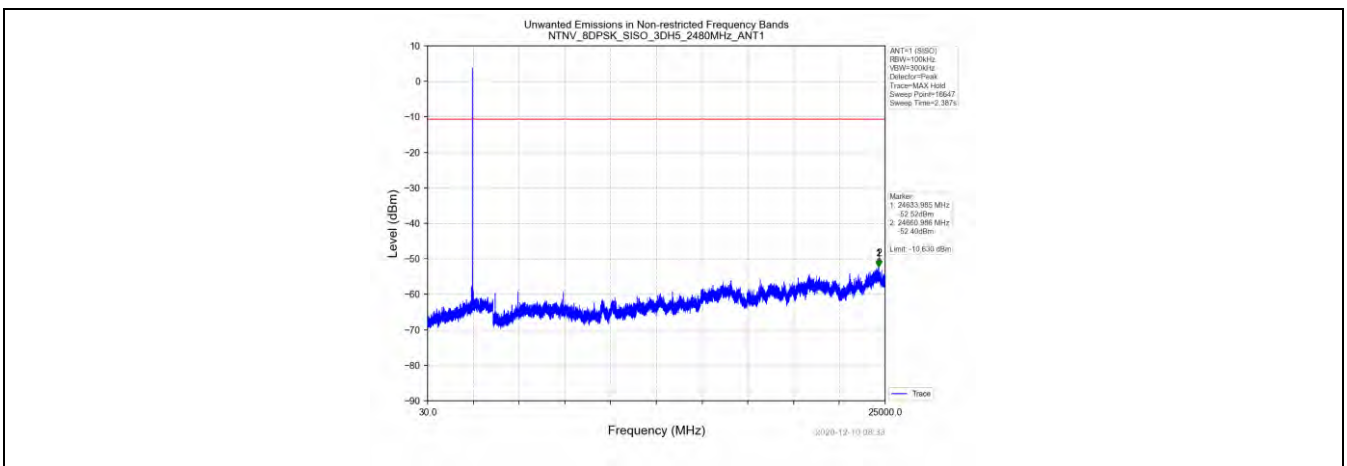
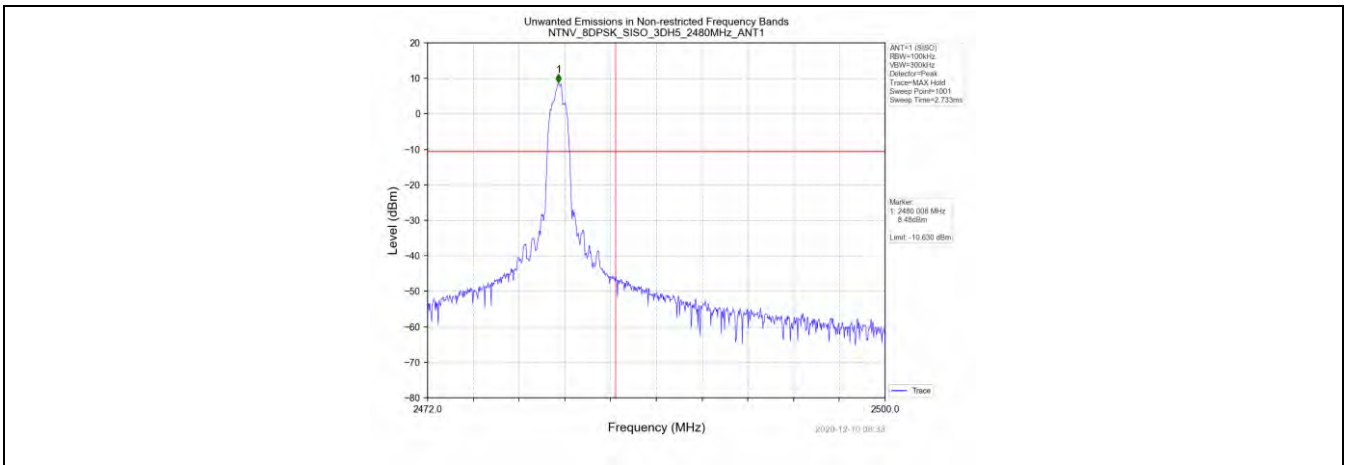
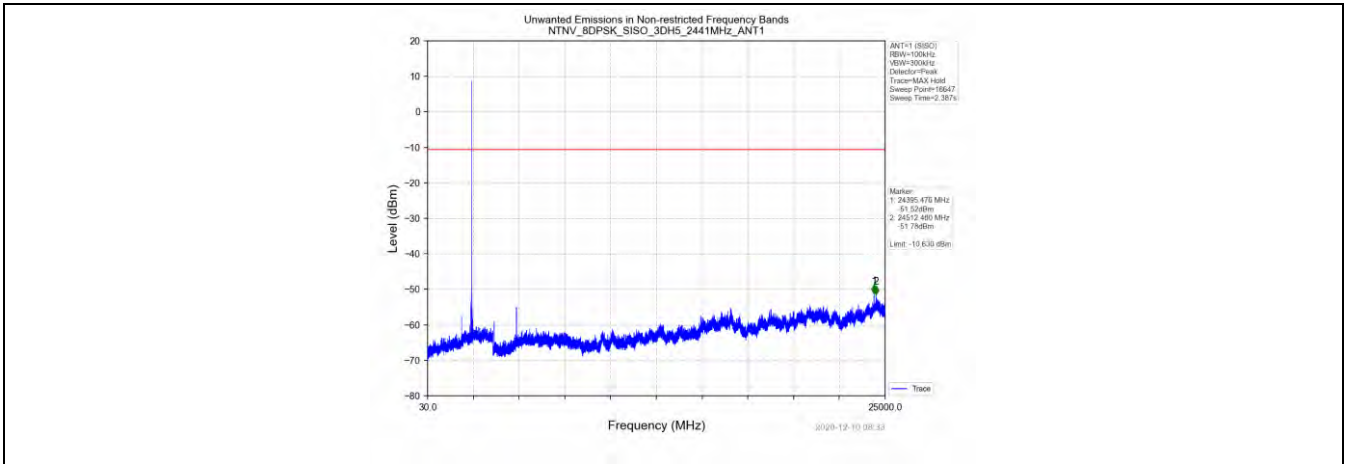
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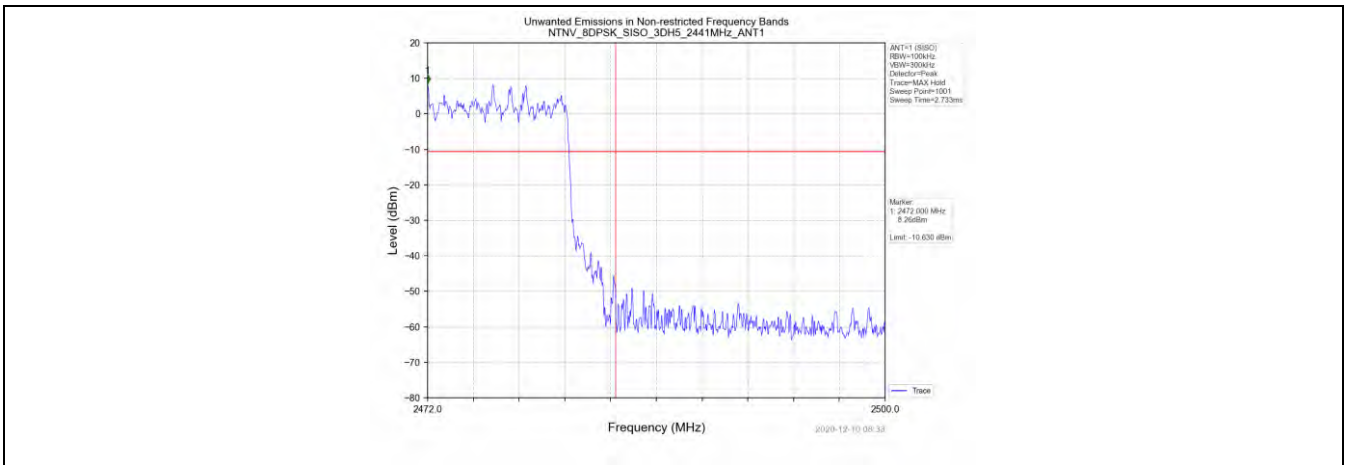
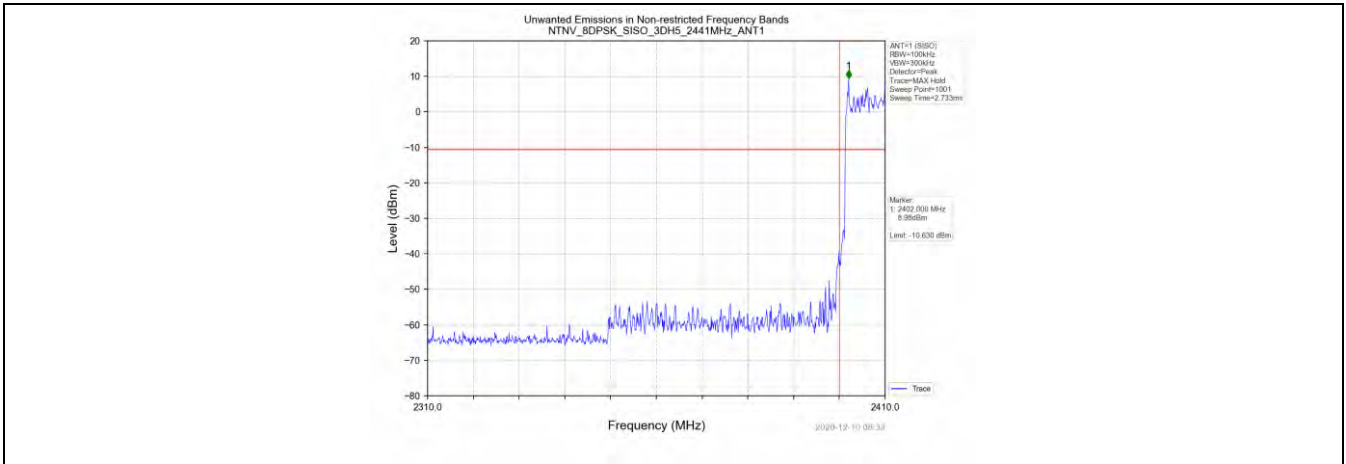
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