

Report No.: SZEM200700583602

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TEST REPORT

Application No.:SZEM2007005836CRApplicant:SKULLCANDY, INC.

Address of Applicant: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Manufacturer: SKULLCANDY, INC.

Address of Manufacturer: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Equipment Under Test (EUT):

EUT Name: Vinyl / Spoke

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Model No.: V2VYW

Trade Mark:

Skullcandy

FCC ID: Y22-V2VYW

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

Date of Receipt: 2020-07-01

Date of Test: 2020-07-04 to 2020-07-27

Date of Issue: 2020-08-08

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version Chapter Date Modifier Remark							
01		2020-08-08		Original			

Authorized for issue by:		
	Bonson Wang	
	Benson Wang /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary 2

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

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

Remark:

EUT Name: Vinyl / Spoke

Only the EUT name Vinyl 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 the product name.



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General Information

4.1 Details of E.U.T.

Left earbuds: Li-Ion Polymer Battery 3.7V 43mAh (Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 43mAh (Charge by travel case) travel case with backup battery: Li-Ion Polymer Battery 3.7V 370mAh (Charged by usb port)
Usb cable: 22cm unshielded
V5.0 Classic
2402MHz to 2480MHz
Frequency Hopping Spread Spectrum(FHSS)
GFSK, π/4DQPSK, 8DPSK
79
1MHz
Integral Antenna
Left earbuds: -1.19dBi; Right earbuds: -2.81dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

Item	Measurement Uncertainty		
Radio Frequency	± 7.25 x 10 ⁻⁸		
Duty cycle	± 0.37%		
Occupied Bandwidth	± 3%		
RF conducted power	± 0.75dB		
Conducted Spurious emissions	± 0.75dB		
DE Dadiated news	± 4.5dB (Below 1GHz)		
RF Radiated power	± 4.8dB (Above 1GHz)		
Dedicted Courieurs amission test	± 4.5dB (Below 1GHz)		
Radiated Spurious emission test	± 4.8dB (Above 1GHz)		
Temperature test	± 1°C		
Humidity test	± 3%		
Supply voltages	± 1%		
Time	± 3%		



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4.4 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.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

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

• FCC -Designation Number: CN1178

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Cooviel Cable	SGS	N/A	SEM031-02		2020-07-10	
Coaxial Cable	363	IN/A	SEIVIUS 1-02		2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

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	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
0	SGS	N/A	SEM031-02		2020-07-10	
Coaxial Cable	565	IN/A	SEIVIUS 1-02		2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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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	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
0	SGS	N/A	SEM031-02	2019-06-13 2022-06-12 2020-03-24 2021-03-23 2019-09-24 2020-09-23	2020-07-10	
Coaxial Cable	565	IN/A	SEIVIUS 1-02			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

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	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Cooviel Coble	909	NI/A	SEM034 03	031-02	2020-07-10	
Coaxial Cable	SGS	N/A	SEIVIU31-U2		2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Dwell Time	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	FSP	SEM004-06	2019-09-24	2020-09-23			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
0	SGS	N/A	SEM031-02	2019-07-11	2020-07-10			
Coaxial Cable				2020-07-10	2021-07-09			
Attenuator	Huber+Suhner	Huber+Suhner 6620_SMA-50- 1 SEM021-09		N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23			
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27			

Conducted Band Edges Measurement							
Equipment	Manufacturer	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	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Cooviel Coble	200	N/A	SEM034 03	2019-07-11	2020-07-10		
Coaxial Cable	SGS		SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		



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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	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	t Software TST TST F V1.		N/A	N/A	N/A		
Cooviel Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10		
Coaxial Cable			SEIVIU31-U2	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

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		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Cooviel Cable	200	NI/A	SEM036 01	2019-07-11	2020-07-10		
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09		
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08		
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23		
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31		
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31		
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21		



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Radiated Spurious Emissions								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Conviol Coble	200	NI/A	CEM006 04	2019-07-11	2020-07-10			
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09			
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08			
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12			
Horn Antenna	Schwarzbeck	BBHA 9170		2017-10-17	2020-10-16			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126						
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31			
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31			
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23			
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21			

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		
EMI Test Receiver (9kHz-7GHz)	Rohde&Schwarz	ESR	SEM004-03	2020-03-24	2021-03-23		
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07		
Pre-amplifier (9kHz-1GHz)	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	909	N/A	SEM020 01	2019-07-11	2020-07-10		
Coaxial Cable	SGS	IN/A	SEM029-01	2020-07-10	2021-07-09		



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General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25		
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)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: -1.19dBi; Right earbuds: -2.81dBi

Antenna location: Refer to internal photo.





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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

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

6.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1): According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g): According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h): According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

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



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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

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

Limit:

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



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7.1.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1005 mbar Temperature: 28.2 °C Humidity: 51.3 % RH

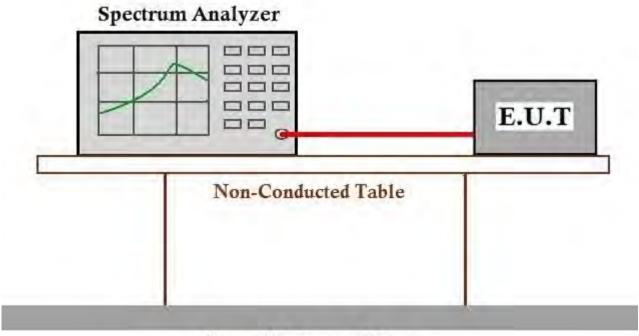
Pretest these modes to find the worst case: c:TX non-Hop mode (Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

q:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c: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. g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.2 20dB Bandwidth

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 51.3 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: c:TX_non-Hop mode (Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

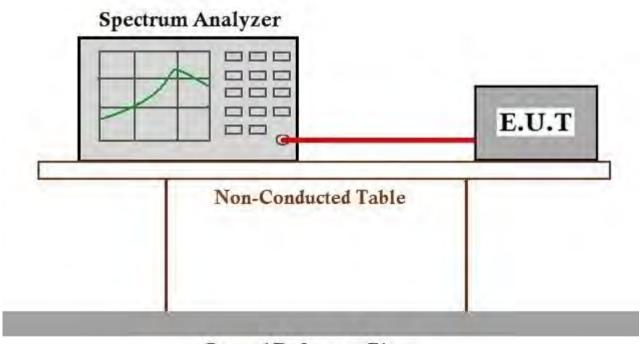
g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c: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.

g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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



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7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX_Hop mode (Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

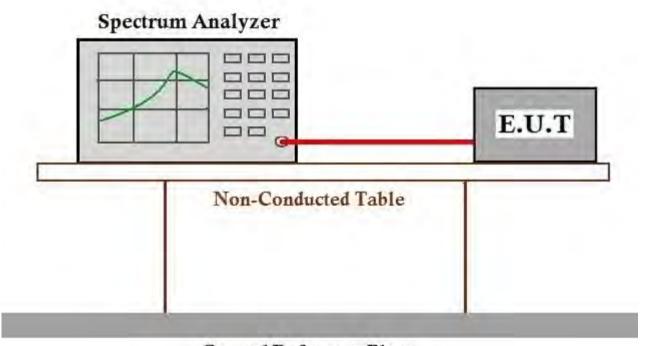
The worst case for final test:

b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX_Hop mode (Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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



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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1005 mbar 28.2 °C Humidity: 51.2 % RH

Pretest these b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have modes to find

the worst case: been tested and only the data of worst case is recorded in the report.

> f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

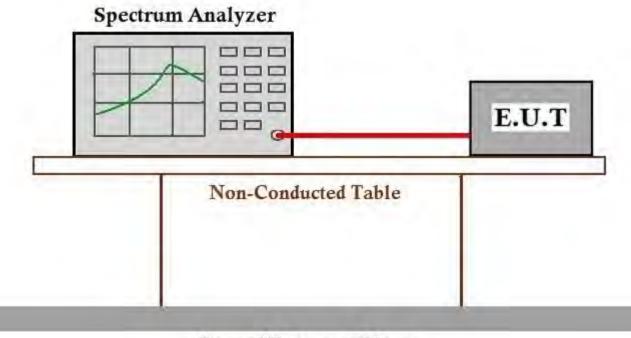
The worst case for final test:

b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.5 Dwell Time

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

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit			
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)			
902-920	0.4S within a 10S period(20dB bandwidth≥250kHz)			
2400-2483.5	0.4S within a period of 0.4S multiplied by the number			
2400-2483.5	of hopping channels			
5725-5850	0.4S within a 30S period			



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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1005 mbar 28.2 °C Humidity: 51.2 % RH

Pretest these modes to find

b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

the worst case: been tested and only the data of worst case is recorded in the report.

> f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

The worst case for final test:

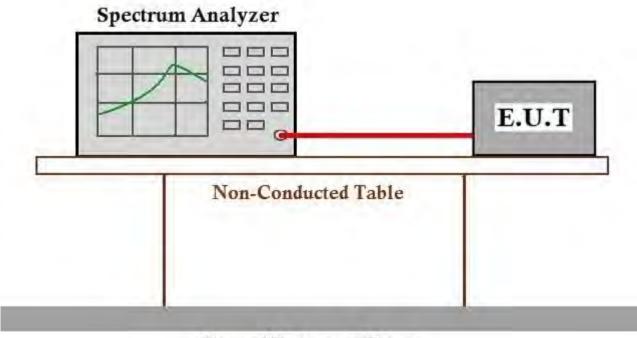
b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.6 Conducted Band Edges Measurement

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

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)

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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C Humidity: 51.2 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have

been tested and only the data of worst case is recorded in the report.

c:TX non-Hop mode (Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

b:TX Hop mode (Left earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

c: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.

f:TX Hop mode (Right earbuds) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

g:TX_non-Hop mode (Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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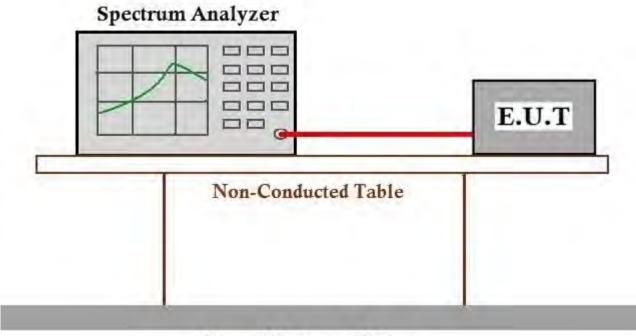
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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





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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)



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7.7.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1005 mbar Temperature: 28.2 °C Humidity: 51.2 % RH

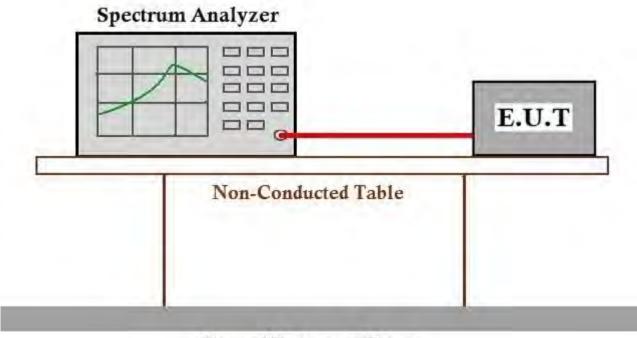
Pretest these modes to find the worst case: c:TX non-Hop mode (Left earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

q:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test:

c: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. g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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



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Atmospheric Pressure: 1005 mbar

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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Pretest these modes to find the worst case: c: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.

57.7 % RH

Humidity:

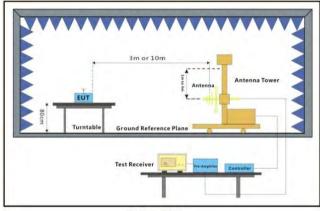
g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

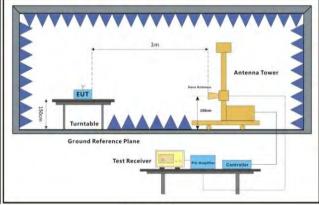
The worst case for final test:

c: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. g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All

modes have been tested and only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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7.8.3 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.



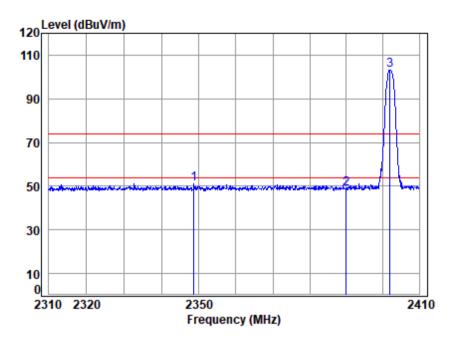
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 05836CR/05837CR : 2402 Band edge Mode

Note

OCC										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2348.696	4.28	28.45	40.95	59.36	51.14	74.00	-22.86	peak	
2	2390.000	4.34	28.52	40.97	57.05	48.94	74.00	-25.06	peak	
3 *	2402.000	4.36	28.54	40.98	111.15	103.07	74.00	29.07	peak	



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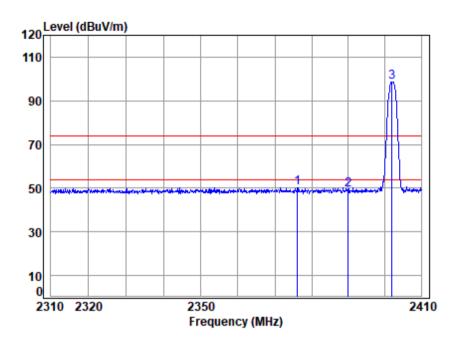
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 05836CR/05837CR : 2402 Band edge Mode

Note

000										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2376.127	4.32	28.50	40.97	58.43	50.28	74.00	-23.72	peak	
2	2390.000	4.34	28.52	40.97	57.43	49.32	74.00	-24.68	peak	
3 *	2402.000	4.36	28.54	40.98	106.75	98.67	74.00	24.67	peak	



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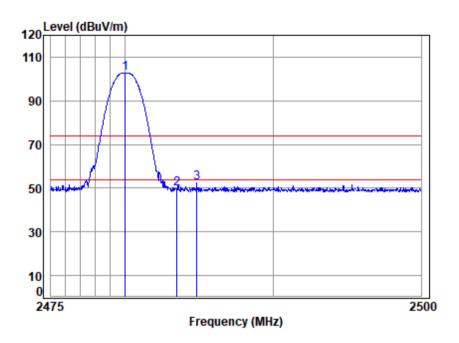
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 05836CR/05837CR : 2480 Band edge Mode

Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2484.820	4.49	28.67	41.01	57.61	49.76	74.00	-24.24	peak



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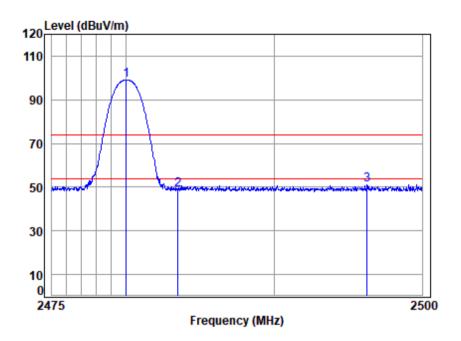
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 05836CR/05837CR : 2480 Band edge Mode

Note

	Enoa				Read				Pomonic
	Freq	LOSS	Factor	Factor	revei	revei	Line	LIMIT	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	106.72	98.87	74.00	24.87	peak
2	2483.500	4.49	28.67	41.01	56.84	48.99	74.00	-25.01	peak
3	2496.284	4.51	28.69	41.02	58.96	51.14	74.00	-22.86	peak



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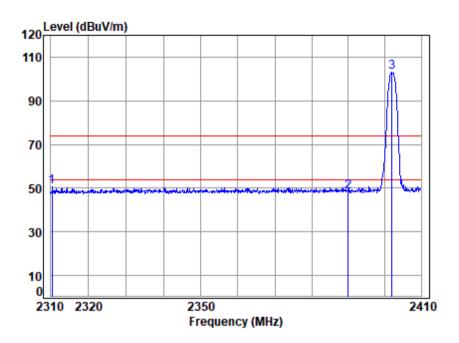
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 05836CR/05837CR : 2402 Band edge Mode

Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2310.392 2390.000 2402.000	4.34	28.52	40.97	56.55	48.44	74.00	-25.56	peak



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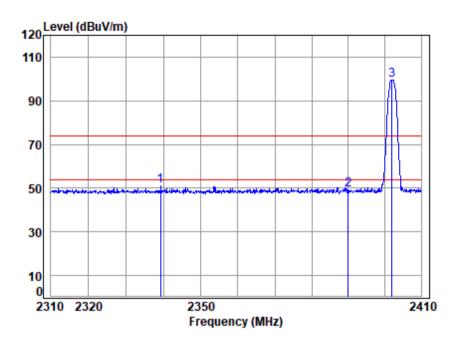
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 05836CR/05837CR : 2402 Band edge Mode

Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2339.259	4.26	28.43	40.95	59.15	50.89	74.00	-23.11	peak
	2390.000								•
	* 2402.000								•



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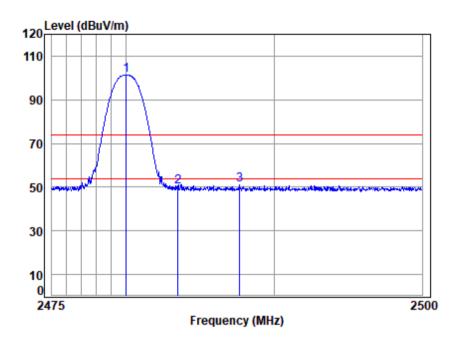
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR : 2480 Band edge Mode

Note

						Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2480 2 2483 3 2487	.500	4.49	28.67	41.01	57.93	50.08	74.00	-23.92	peak



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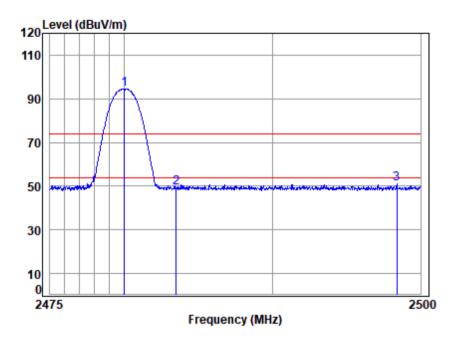
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 05836CR/05837CR Mode : 2480 Band edge

Note

~~											
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	*	2480.000	4.49	28.67	41.01	102.16	94.31	74.00	20.31	peak	
2		2483.500	4.49	28.67	41.01	57.09	49.24	74.00	-24.76	peak	
3		2498.393	4.52	28.70	41.02	59.10	51.30	74.00	-22.70	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.



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Atmospheric Pressure: 1005 mbar

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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

Pretest these modes to find the worst case: c: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.

55 % RH

Humidity:

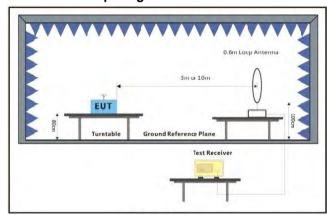
g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

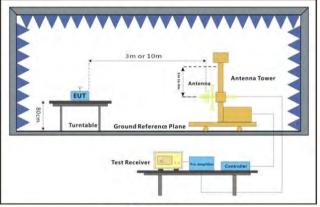
The worst case for final test:

c: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.

g:TX non-Hop mode (Right earbuds) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

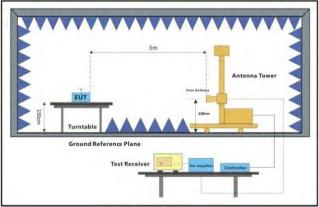
7.9.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.9.3 Measurement Procedure and Data

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

Remark:

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

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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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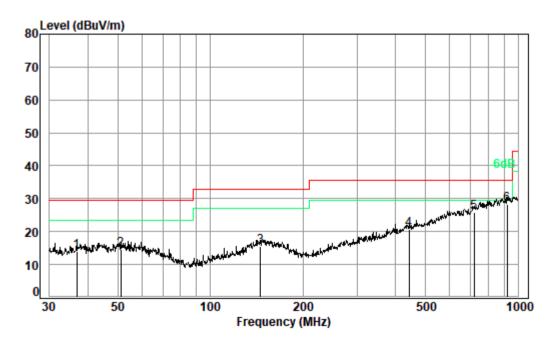


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Below 1GHz

Mode:c: Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05836CR

Test Mode: c

	Гпол			Preamp					Domanie
	Freq	Factor	LOSS	Factor	revei	revei	Line	Limit	Kemark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.766	19.69	0.90	32.41	25.70	13.88	29.50	-15.62	OP
2	51.121								•
3	145.351								-
4	443.294	23.17	2.68	32.27	27.03	20.61	35.60	-14.99	QP
5	719.200	27.48	3.26	32.18	27.18	25.74	35.60	-9.86	QP
6 pp	922.516	29.80	3.45	31.40	26.50	28.35	35.60	-7.25	OP



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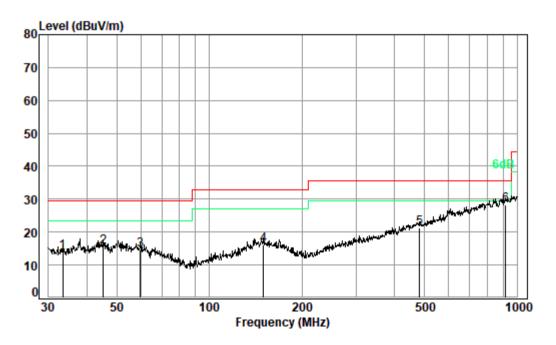
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Mode:c: Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05836CR

Test Mode: c

		Fred	Ant Factor		Preamp				Remark	
	_	MHz			———dB					
1			19.21				-	-		QP
2		45.217	20.42	0.96	32.44	26.59	15.53	29.50	-13.97	QР
3 4		59.649 150.011	19.20							-
5		482.216								•
		919.287	29.78	3.44	31.42	26.56	28.36	35.60	-7.24	OP



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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
33.445	14.04	5.04	16.78	24.50	40.00	-15.50	V
45.217	15.53	5.98	19.92	25.99	40.00	-14.01	V
59.649	14.64	5.40	17.98	25.10	40.00	-14.90	V
150.011	16.23	6.48	21.60	26.69	43.50	-16.81	V
482.216	21.22	11.51	38.36	31.68	46.00	-14.32	V
919.287	28.36	26.18	87.27	38.82	46.00	-7.18	V
36.766	13.88	4.94	16.48	24.34	40.00	-15.66	Н
51.121	14.71	5.44	18.13	25.17	40.00	-14.83	Н
145.351	15.45	5.92	19.74	25.91	43.50	-17.59	Н
443.294	20.61	10.73	35.76	31.07	46.00	-14.93	Н
719.200	25.74	19.36	64.55	36.20	46.00	-9.80	Н
922.516	28.35	26.15	87.17	38.81	46.00	-7.19	Н



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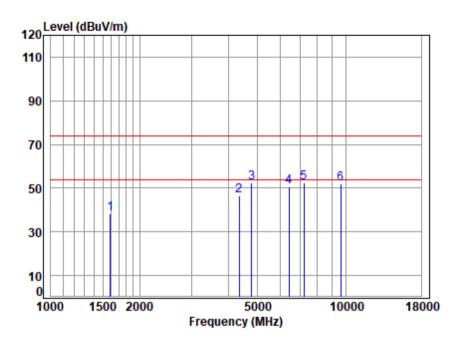


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Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

Mode : 2402 TX SE

: BT Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.34	26.22	40.57	49.38	38.37	74.00	-35.63	peak
2	4354.454	6.63	33.35	42.44	49.22	46.76	74.00	-27.24	peak
3	4804.000	7.10	33.97	42.77	54.08	52.38	74.00	-21.62	peak
4	6414.167	8.28	35.52	42.00	48.94	50.74	74.00	-23.26	peak
5	7206.000	8.74	36.07	41.58	49.28	52.51	74.00	-21.49	peak
6	9608,000	10.81	37.67	38.57	42.14	52.05	74.00	-21.95	peak



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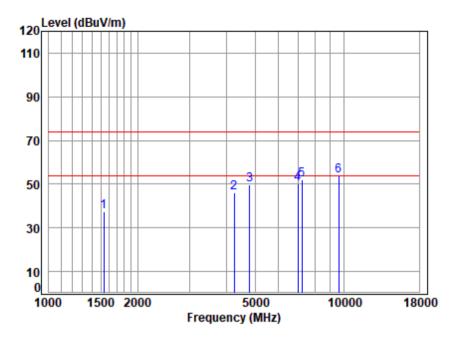
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 05836CR/05837CR

Mode : 2402 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	3.29	25.98	40.53	48.67	37.41	74.00	-36.59	peak
2	4242.641	6.52	33.15	42.35	48.55	45.87	74.00	-28.13	peak
3	4804.000	7.10	33.97	42.77	51.35	49.65	74.00	-24.35	peak
4	6995.172	8.54	35.90	41.69	47.38	50.13	74.00	-23.87	peak
5	7206.000	8.74	36.07	41.58	48.76	51.99	74.00	-22.01	peak
6	9608.000	10.81	37.67	38.57	43.75	53.66	74.00	-20.34	peak



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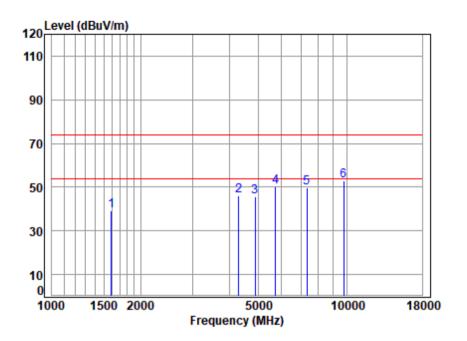
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

: 2441 TX SE Mode

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4500 574		0.5.00	40 57	F0 00	20.07	74.00	24.02	
1	1592.571	3.34	26.22	40.57	50.08	39.07	/4.00	-34.93	peak
2	4304.400	6.58	33.26	42.40	48.65	46.09	74.00	-27.91	peak
3	4882.000	7.18	34.06	42.82	47.04	45.46	74.00	-28.54	peak
4	5730.396	8.22	34.84	42.41	49.60	50.25	74.00	-23.75	peak
5	7323.000	8.85	36.16	41.52	46.22	49.71	74.00	-24.29	peak
6	9764.000	10.76	37.76	38.34	42.85	53.03	74.00	-20.97	peak



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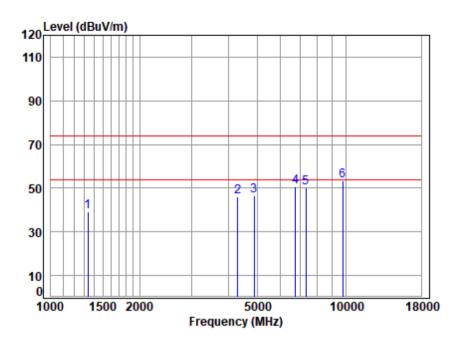
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 05836CR/05837CR

Mode : 2441 TX SE

Note : BT

000									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	40.39	51.25	39.03	74.00	-34.97	peak
2	4304.400	6.58	33.26	42.40	48.58	46.02	74.00	-27.98	peak
3	4882.000	7.18	34.06	42.82	47.91	46.33	74.00	-27.67	peak
4	6756.708	8.42	35.76	41.81	48.39	50.76	74.00	-23.24	peak
5	7323.000	8.85	36.16	41.52	46.79	50.28	74.00	-23.72	peak
6	9764.000	10.76	37.76	38.34	43.31	53.49	74.00	-20.51	peak



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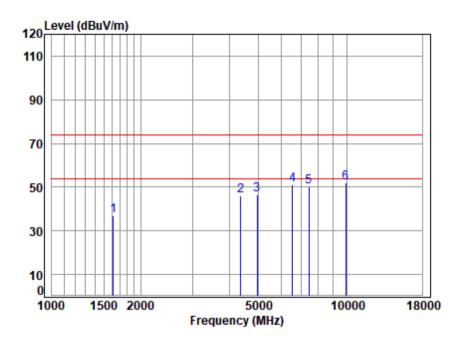
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

Mode : 2480 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	3.36	26.32	40.58	47.70	36.80	74.00	-37.20	peak
2	4367.058	6.64	33.37	42.45	48.39	45.95	74.00	-28.05	peak
3	4960.000	7.26	34.15	42.87	48.19	46.73	74.00	-27.27	peak
4	6545.263	8.30	35.63	41.93	49.21	51.21	74.00	-22.79	peak
5	7440.000	8.96	36.25	41.46	46.41	50.16	74.00	-23.84	peak
6	9920.000	10.71	37.85	38.12	41.57	52.01	74.00	-21.99	peak



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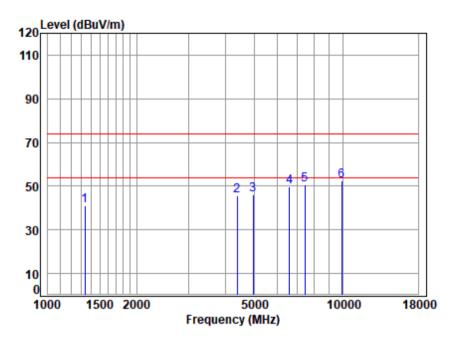
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 05836CR/05837CR

Mode : 2480 TX SE

Note : BT

000									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	40.39	53.27	41.05	74.00	-32.95	peak
2	4379.699	6.65	33.39	42.46	47.89	45.47	74.00	-28.53	peak
3	4960.000	7.26	34.15	42.87	47.40	45.94	74.00	-28.06	peak
4	6583.209	8.32	35.65	41.91	47.90	49.96	74.00	-24.04	peak
5	7440.000	8.96	36.25	41.46	46.92	50.67	74.00	-23.33	peak
6	9920.000	10.71	37.85	38.12	42.03	52.47	74.00	-21.53	peak



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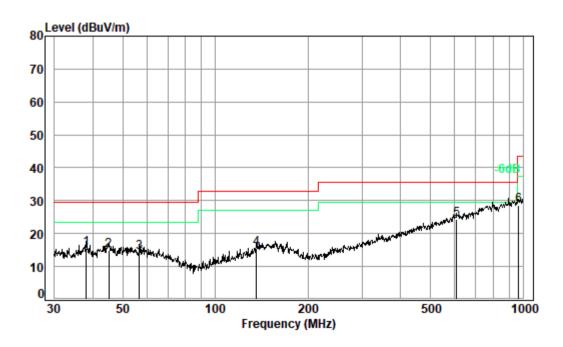


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Below 1GHz

Mode:g: Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05836CR

Test Mode: g

	_	Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
4	20.070	20.00	0.04	22.42	27.04	45 50	20 50	44.00	OD
1	38.078	20.00	0.91	32.42	27.01	15.50	29.50	-14.00	QР
2	45.058	20.41	0.96	32.44	26.03	14.96	29.50	-14.54	QP
3	56.593	19.56	1.02	32.43	26.22	14.37	29.50	-15.13	QP
4	135.982	19.15	1.42	32.30	27.20	15.47	33.00	-17.53	QP
5 pp	607.787	26.41	3.17	32.05	26.73	24.26	35.60	-11.34	QP
6	968.934	30.03	3.56	31.16	26.09	28.52	43.50	-14.98	OP



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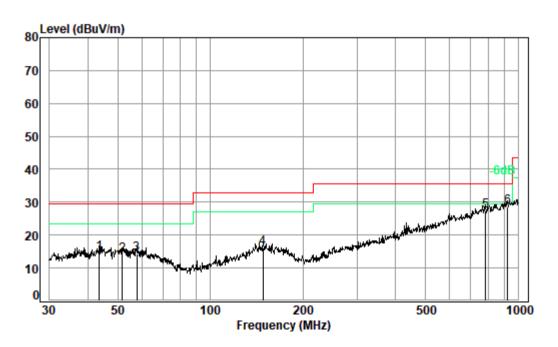
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Mode:g; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05836CR

Test Mode: g

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	43.506	20.32	0.95	32.44	25.84	14.67	29.50	-14.83	QP
2	51.843	19.93	1.00	32.45	25.48	13.96	29.50	-15.54	QP
3	57.796	19.68	1.03	32.43	26.09	14.37	29.50	-15.13	QP
4	148.441	20.12	1.47	32.30	26.73	16.02	33.00	-16.98	QР
5	785.093	28.45	3.28	31.97	27.53	27.29	35.60	-8.31	QР
6 pp	925.756								-



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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
43.506	14.67	5.41	18.05	25.13	40.00	-14.87	V
51.843	13.96	4.99	16.63	24.42	40.00	-15.58	V
57.796	14.37	5.23	17.43	24.83	40.00	-15.17	V
148.441	16.02	6.32	21.08	26.48	43.50	-17.02	V
785.093	27.29	23.15	77.16	37.75	46.00	-8.25	V
925.756	28.45	26.45	88.18	38.91	46.00	-7.09	V
38.078	15.50	5.96	19.86	25.96	40.00	-14.04	Н
45.058	14.96	5.60	18.66	25.42	40.00	-14.58	Н
56.593	14.37	5.23	17.43	24.83	40.00	-15.17	Н
135.982	15.47	5.94	19.79	25.93	43.50	-17.57	Н
607.787	24.26	16.33	54.44	34.72	46.00	-11.28	Н
968.934	28.52	26.67	88.90	38.98	54.00	-15.02	Н



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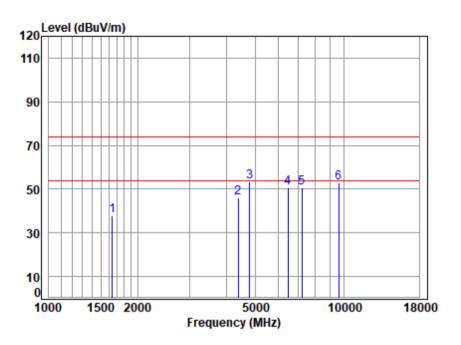


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Above 1GHz

Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

Mode : 2402 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.38	26.44	40.60	48.45	37.67	74.00	-36.33	peak
2	4392.376	6.66	33.42	42.47	48.52	46.13	74.00	-27.87	peak
3	4804.000	7.10	33.97	42.77	54.93	53.23	74.00	-20.77	peak
4	6470.026	8.28	35.57	41.97	48.62	50.50	74.00	-23.50	peak
5	7206.000	8.74	36.07	41.58	47.24	50.47	74.00	-23.53	peak
6	9608.000	10.81	37.67	38.57	43.22	53.13	74.00	-20.87	peak



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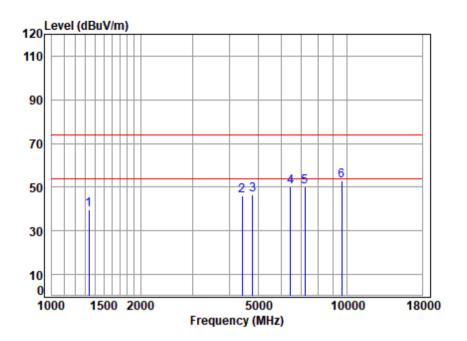
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 05836CR/05837CR

Mode : 2402 TX SE

: BT Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	40.39	51.78	39.56	74.00	-34.44	peak
2	4417.841	6.68	33.46	42.49	48.50	46.15	74.00	-27.85	peak
3	4804.000	7.10	33.97	42.77	48.03	46.33	74.00	-27.67	peak
4	6432.732	8.28	35.54	41.99	48.35	50.18	74.00	-23.82	peak
5	7206.000	8.74	36.07	41.58	46.82	50.05	74.00	-23.95	peak
6	9608,000	10.81	37.67	38.57	42.99	52.90	74.00	-21.10	peak



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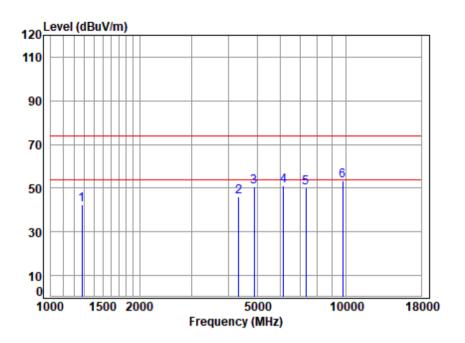
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

: 2441 TX SE Mode

: BT Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	40.34	55.05	42.53	74.00	-31.47	peak
2	4341.886	6.61	33.33	42.43	48.73	46.24	74.00	-27.76	peak
3	4882.000	7.18	34.06	42.82	52.25	50.67	74.00	-23.33	peak
4	6142.019	8.27	35.25	42.16	49.55	50.91	74.00	-23.09	peak
5	7323.000	8.85	36.16	41.52	46.70	50.19	74.00	-23.81	peak
6	9764.000	10.76	37.76	38.34	43.36	53.54	74.00	-20.46	peak



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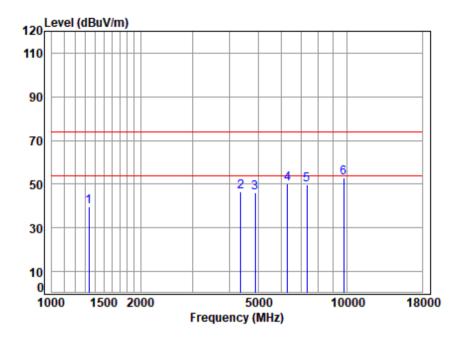
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 05836CR/05837CR

Mode : 2441 TX SE

: BT Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	40.39	51.69	39.47	74.00	-34.53	peak
2	4367.058	6.64	33.37	42.45	49.10	46.66	74.00	-27.34	peak
3	4882.000	7.18	34.06	42.82	47.60	46.02	74.00	-27.98	peak
4	6285.695	8.27	35.39	42.07	48.55	50.14	74.00	-23.86	peak
5	7323.000	8.85	36.16	41.52	46.08	49.57	74.00	-24.43	peak
6	9764.000	10.76	37.76	38.34	42.73	52.91	74.00	-21.09	neak



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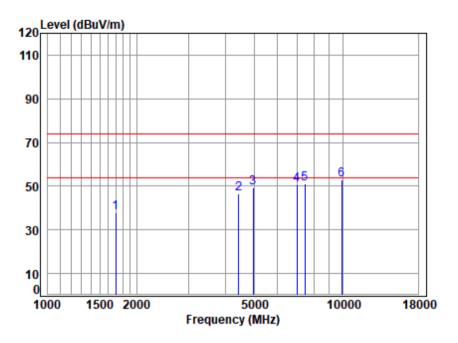
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Mode:g; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 05836CR/05837CR

Mode : 2480 TX SE

Note : BT

000									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.43	26.66	40.63	48.38	37.84	74.00	-36.16	peak
2	4443.453	6.71	33.50	42.51	48.68	46.38	74.00	-27.62	peak
3	4960.000	7.26	34.15	42.87	50.73	49.27	74.00	-24.73	peak
4	6995.172	8.54	35.90	41.69	47.69	50.44	74.00	-23.56	peak
5	7440.000	8.96	36.25	41.46	47.15	50.90	74.00	-23.10	peak
6	9920.000	10.71	37.85	38.12	42.58	53.02	74.00	-20.98	peak



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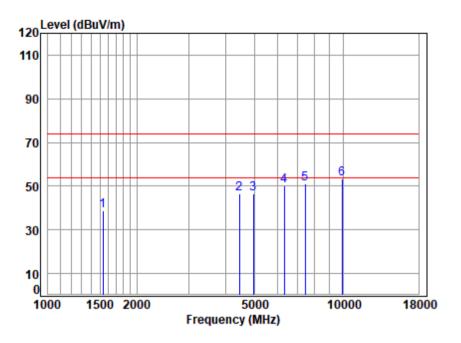
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Mode:g; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

: 05836CR/05837CR

Mode : 2480 TX SE

Note : BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4530 004	2 00	25.00	40.53	40.03	20.67	74.00	25.22	
1	1538.281	3.29	25.98	40.53	49.93	38.6/	74.00	-35.33	peak
2	4456.315	6.72	33.53	42.52	48.85	46.58	74.00	-27.42	peak
3	4960.000	7.26	34.15	42.87	47.81	46.35	74.00	-27.65	peak
4	6322.136	8.27	35.43	42.05	48.55	50.20	74.00	-23.80	peak
5	7440.000	8.96	36.25	41.46	47.18	50.93	74.00	-23.07	peak
6	9920.000	10.71	37.85	38.12	42.86	53.30	74.00	-20.70	peak



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Photographs 8

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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Appendix

Appendix 15.247-Left earbuds

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.039	PASS
	2441	SISO	1	1.036	PASS
	2480	SISO	1	1.036	PASS
Pi/4DQPSK	2402	SISO	1	1.273	PASS
	2441	SISO	1	1.272	PASS
	2480	SISO	1	1.257	PASS
8DPSK	2402	SISO	1	1.291	PASS
	2441	SISO	1	1.293	PASS
	2480	SISO	1	1.284	PASS

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	99% Occupied Bandwidth	
rest Mode				Test Result (MHz)	
GFSK	2402	SISO	1	0.928	Only for Report Use
	2441	SISO	1	0.930	Only for Report Use
	2480	SISO	1	0.924	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.259	Only for Report Use
	2441	SISO	1	1.234	Only for Report Use
	2480	SISO	1	1.201	Only for Report Use
8DPSK	2402	SISO	1	1.256	Only for Report Use
	2441	SISO	1	1.240	Only for Report Use
	2480	SISO	1	1.216	Only for Report Use



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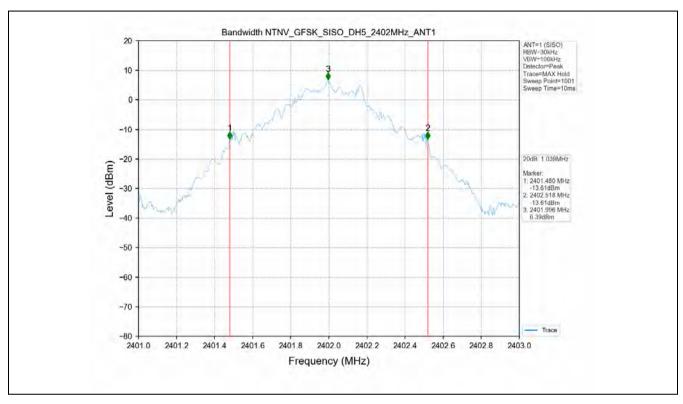
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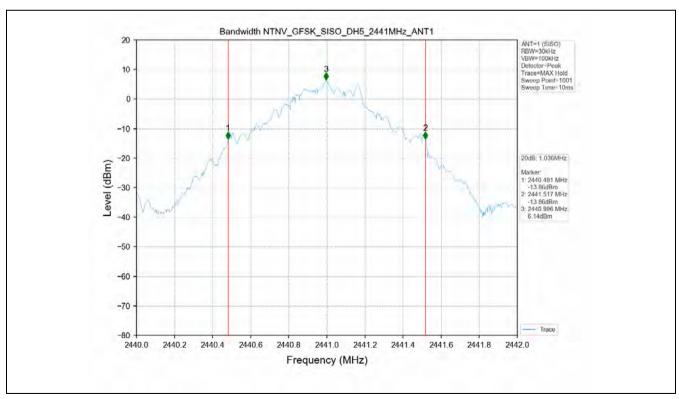


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1.2 Test Graph - 20dB Bandwidth







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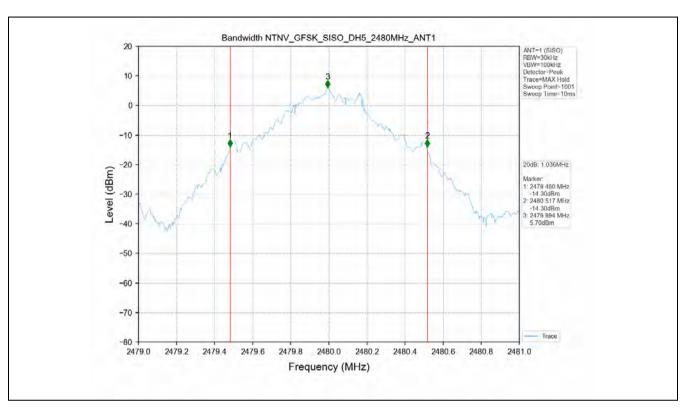
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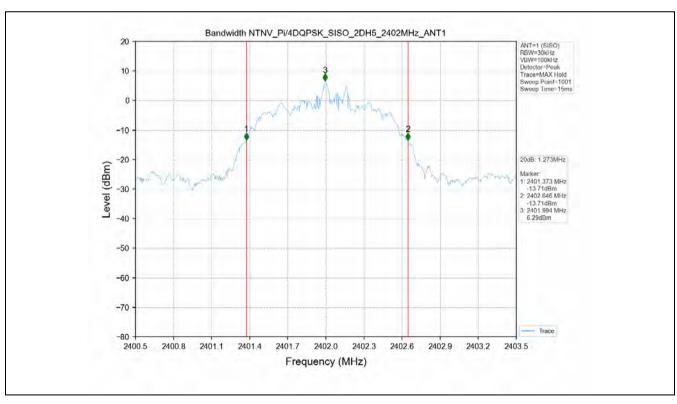
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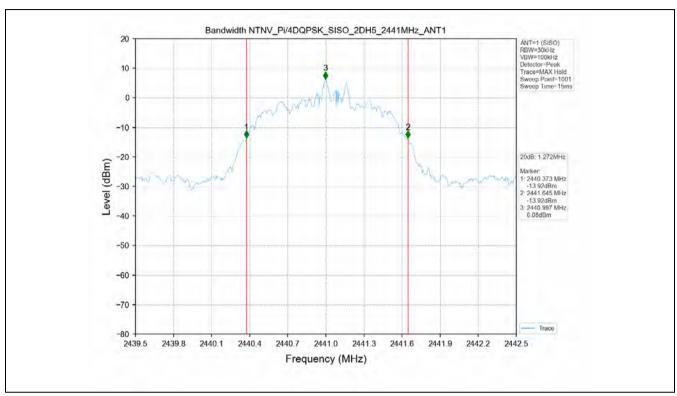
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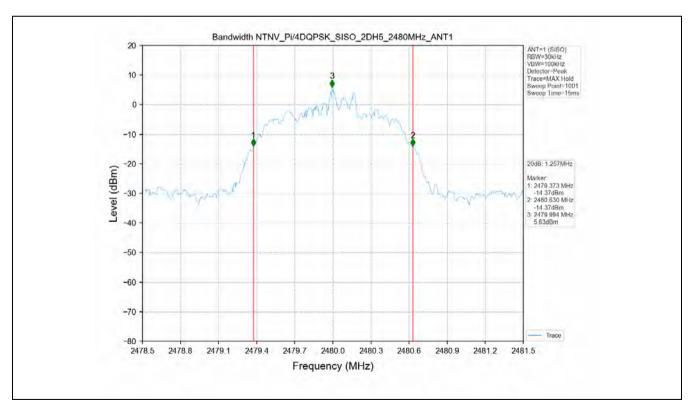
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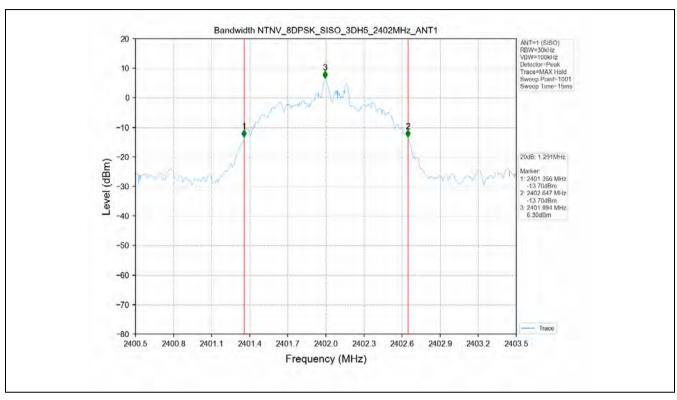
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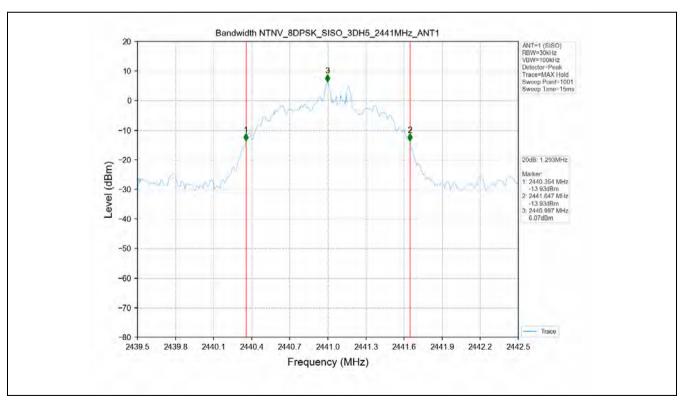
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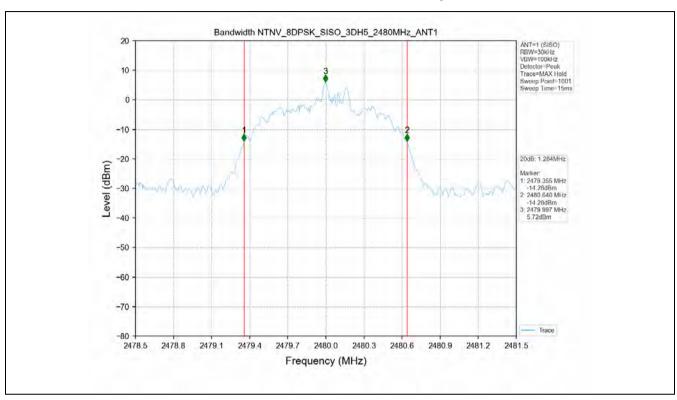
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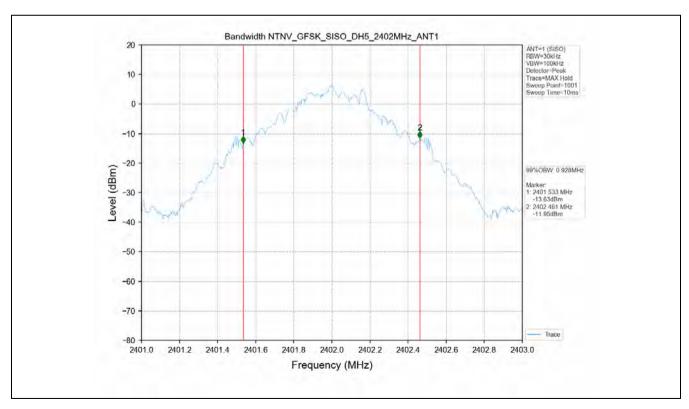


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1.3 Test Graph - 99% Occupied Bandwidth





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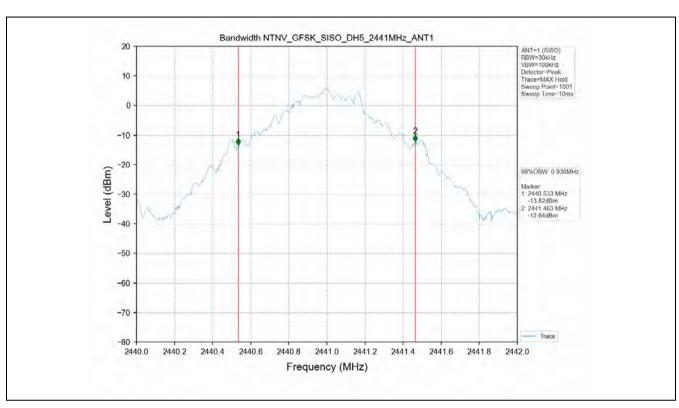
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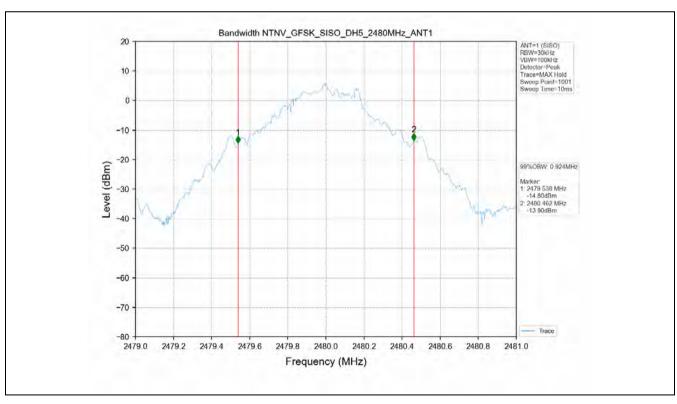
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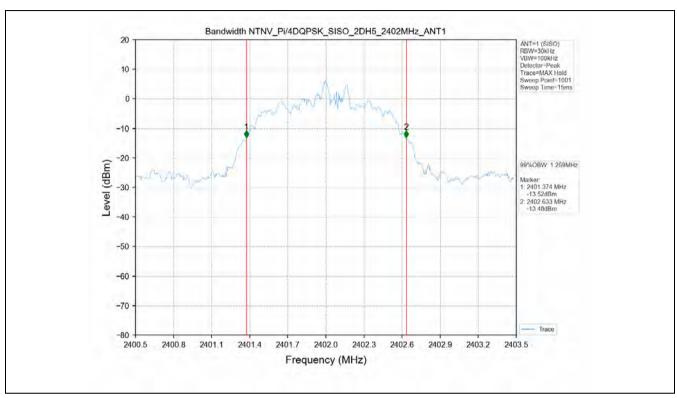
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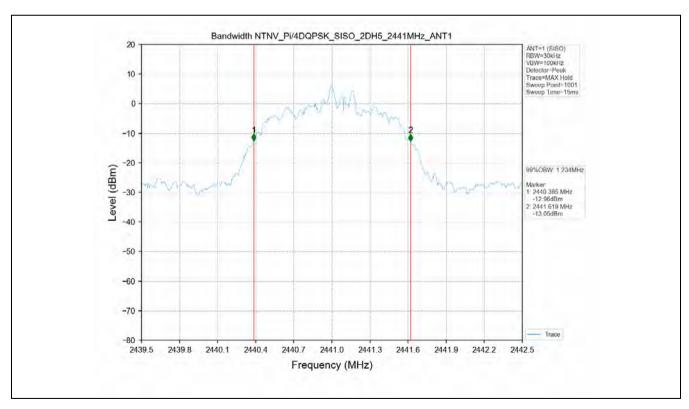
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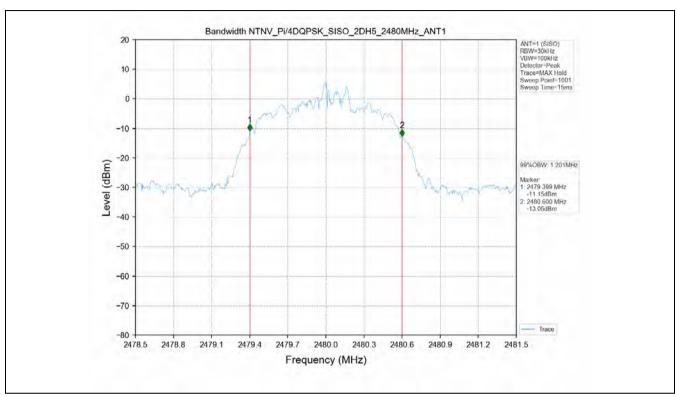
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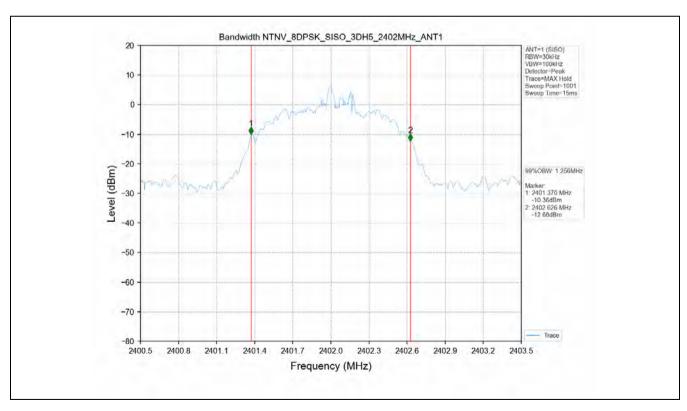
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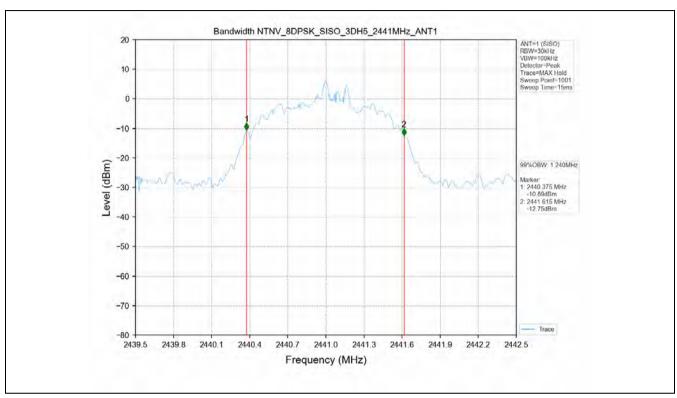
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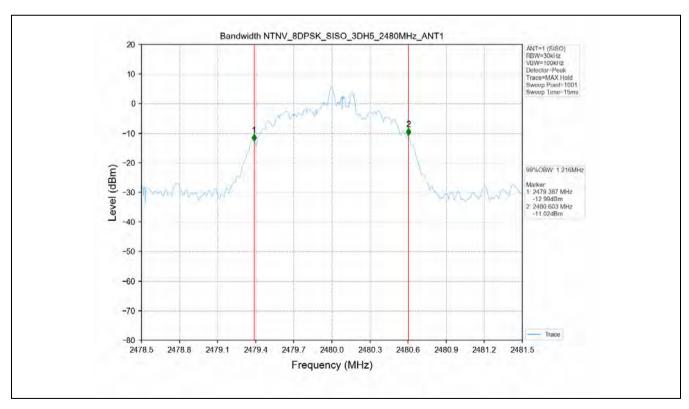
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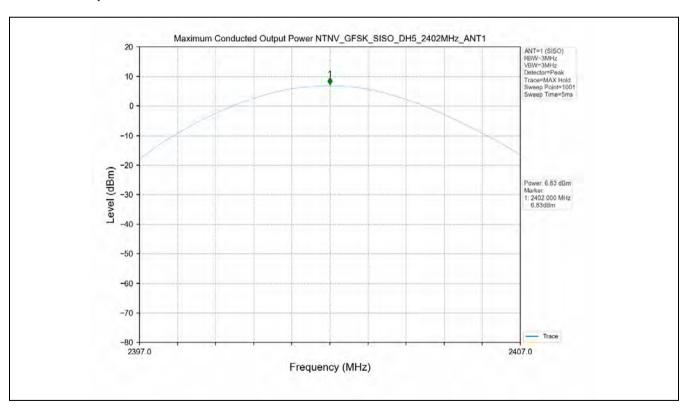
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	6.83	20.97	PASS
GFSK	2441	SISO	6.50	20.97	PASS
	2480	SISO	5.97	20.97	PASS
	2402	SISO	6.82	20.97	PASS
Pi/4DQPSK	2441	SISO	6.50	20.97	PASS
	2480	SISO	5.98	20.97	PASS
8DPSK	2402	SISO	6.83	20.97	PASS
	2441	SISO	6.49	20.97	PASS
	2480	SISO	5.97	20.97	PASS

2.2 Test Graph





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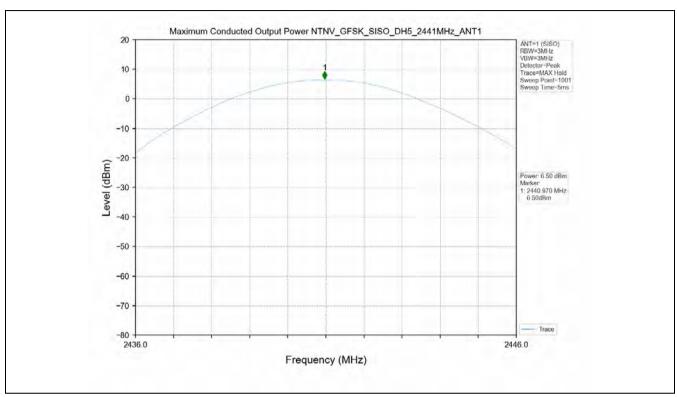
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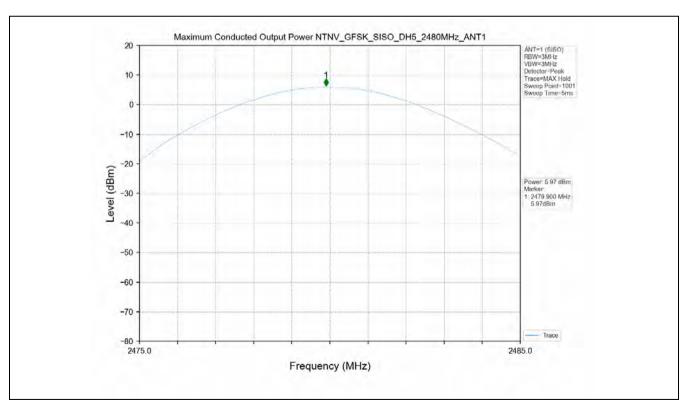
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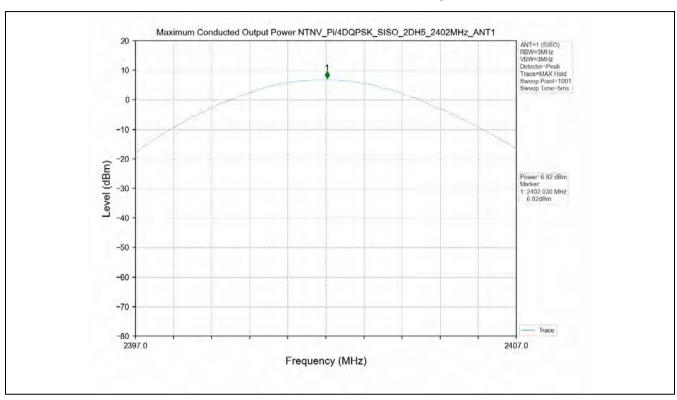
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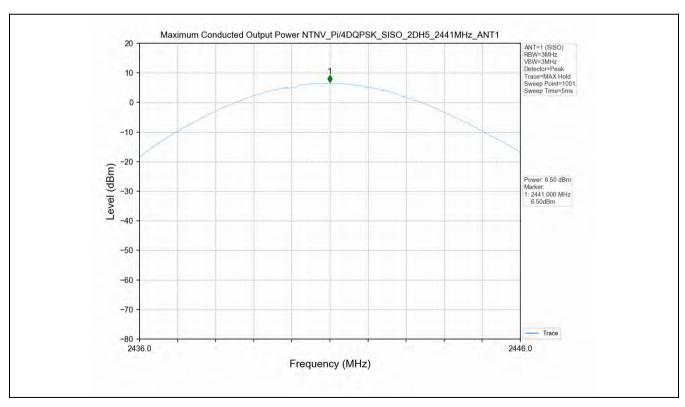
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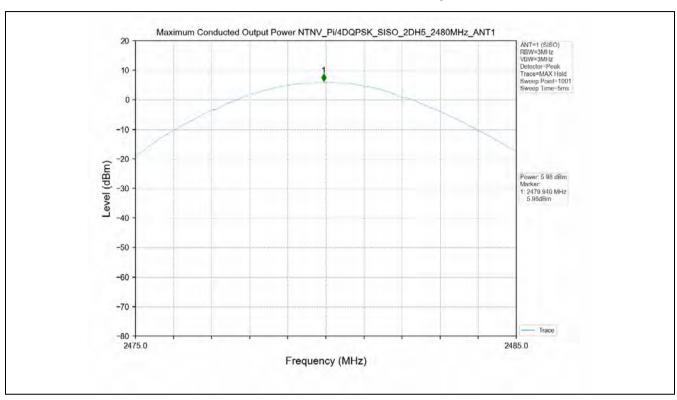
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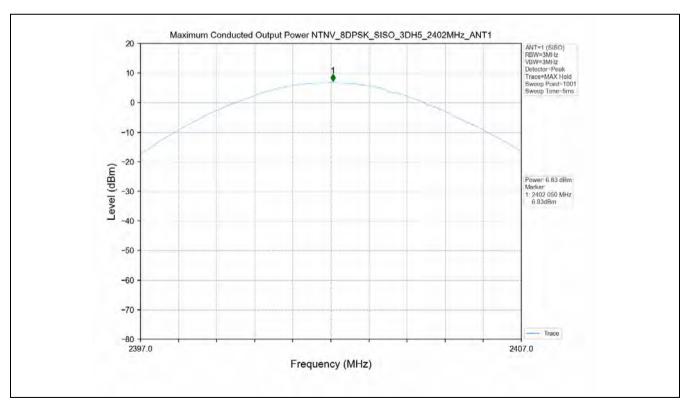
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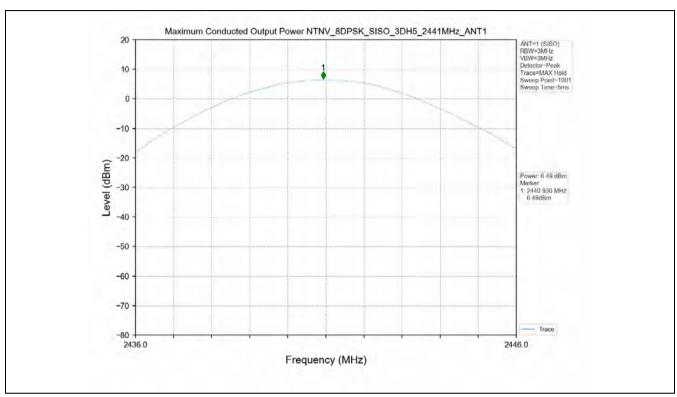
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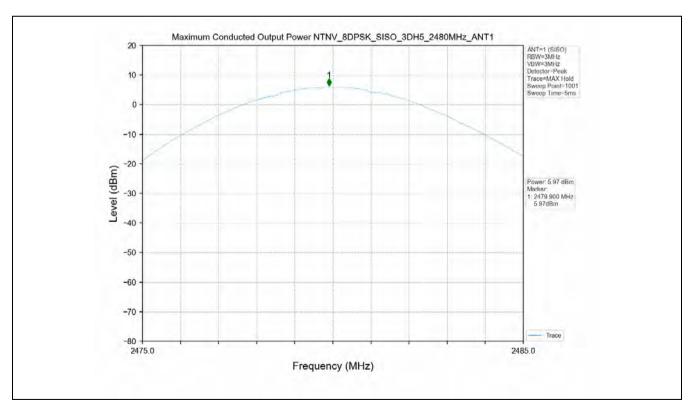
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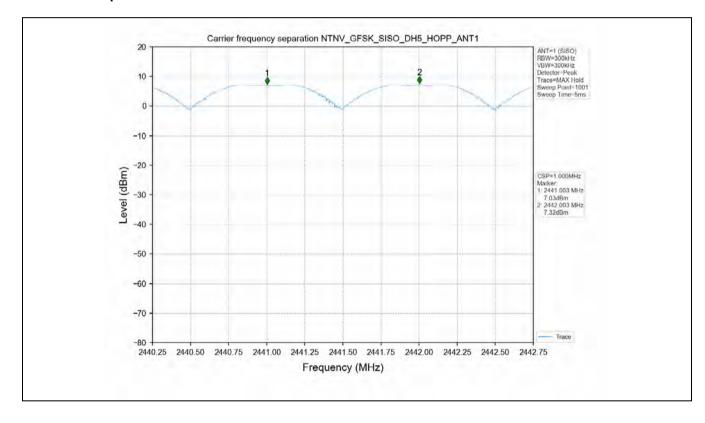
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.039	≥0.693	PASS
Pi/4DQPSK	SISO	1	0.975	1.273	≥0.849	PASS
8DPSK	SISO	1	1.002	1.293	≥0.862	PASS

3.2 Test Graph





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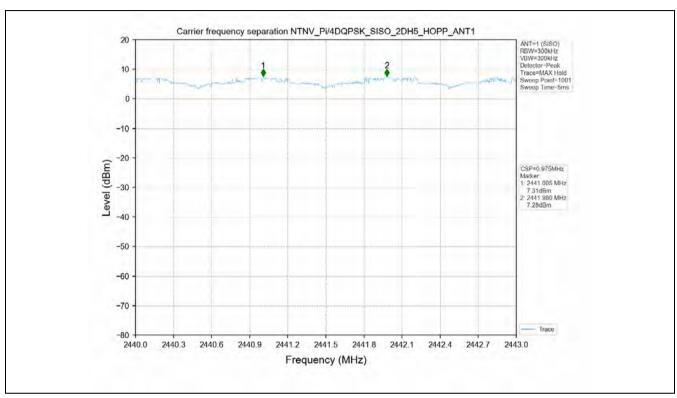
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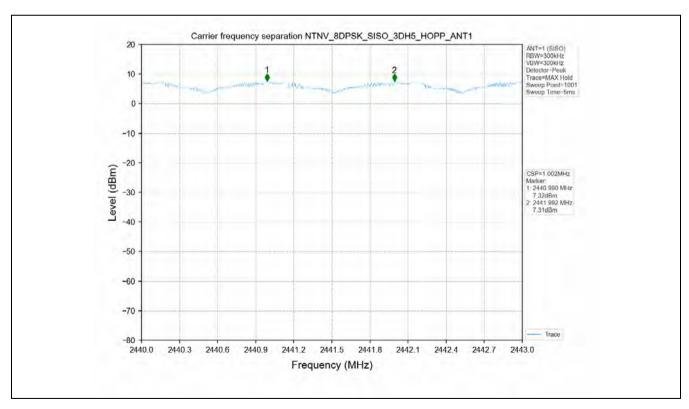
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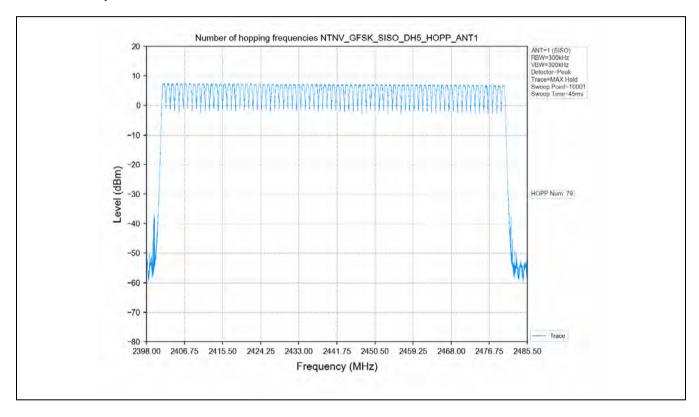
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4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph





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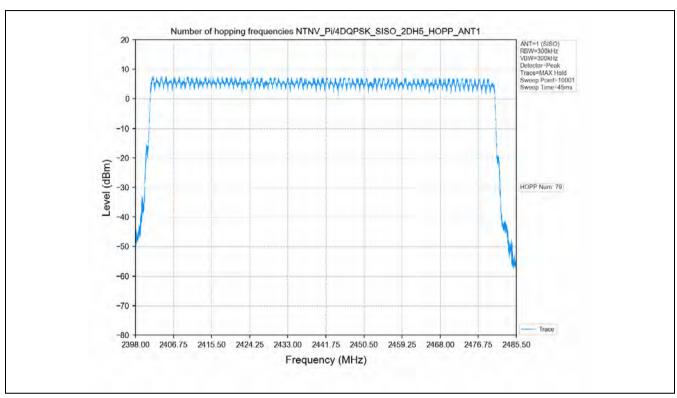
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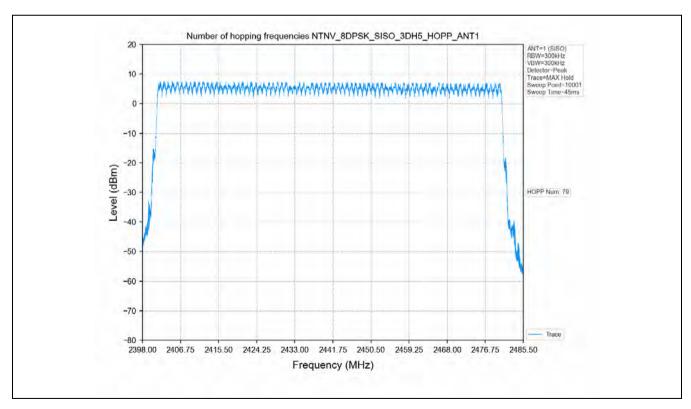
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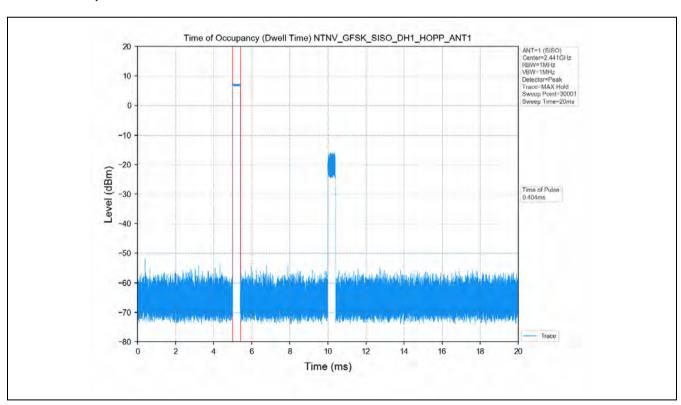
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	ation Period	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.404	31.6	154	62.216	≤400	PASS
GFSK	DH3	SISO	1	1.659	31.6	113	187.467	≤400	PASS
	DH5	SISO	1	2.907	31.6	81	235.467	≤400	PASS
D:/4D 0	2DH1	SISO	1	0.414	31.6	156	64.584	≤400	PASS
Pi/4DQ PSK	2DH3	SISO	1	1.665	31.6	109	181.485	≤400	PASS
1 OK	2DH5	SISO	1	2.913	31.6	83	241.779	≤400	PASS
	3DH1	SISO	1	0.414	31.6	159	65.826	≤400	PASS
8DPSK	3DH3	SISO	1	1.663	31.6	102	169.626	≤400	PASS
	3DH5	SISO	1	2.913	31.6	71	206.823	≤400	PASS

5.2 Test Graph





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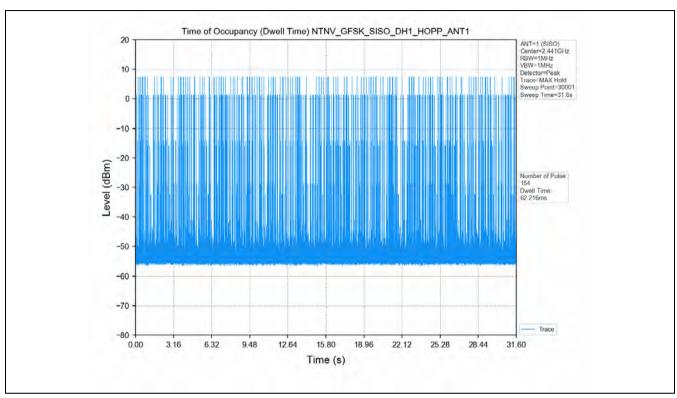
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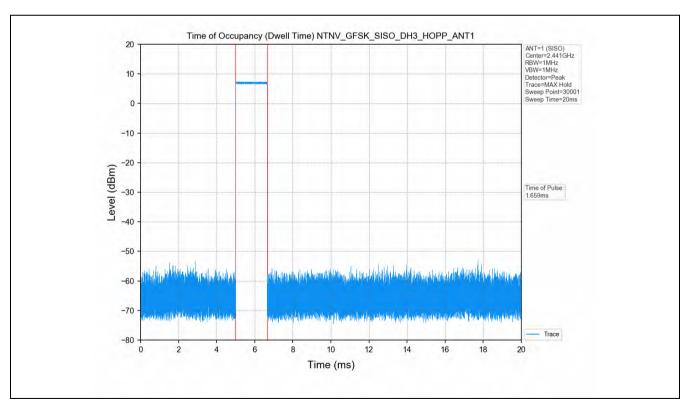
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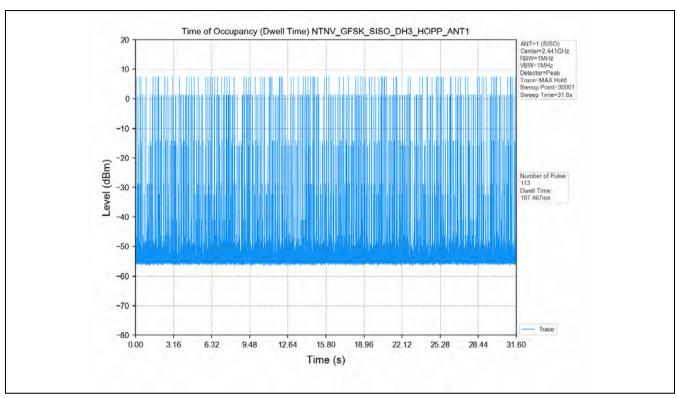
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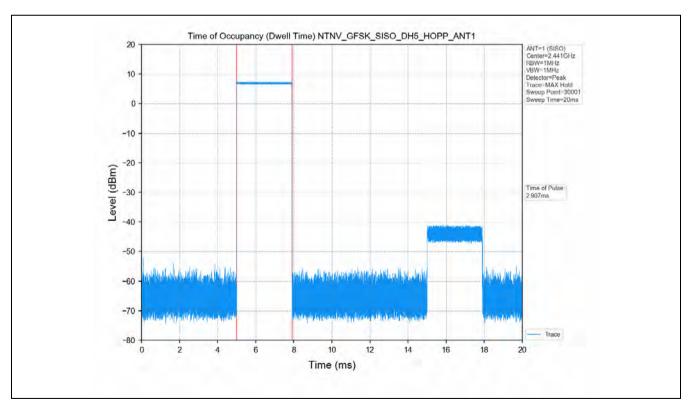
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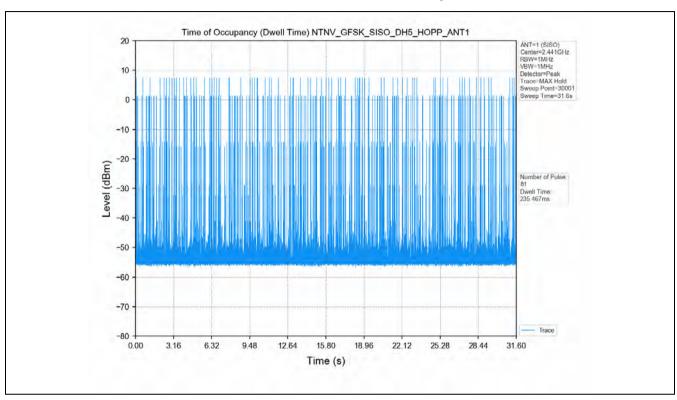
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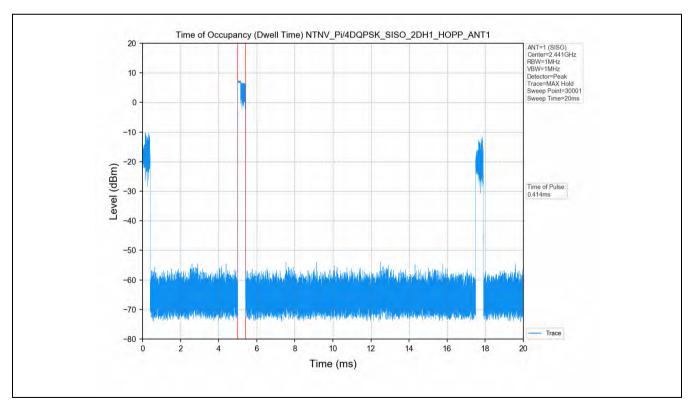
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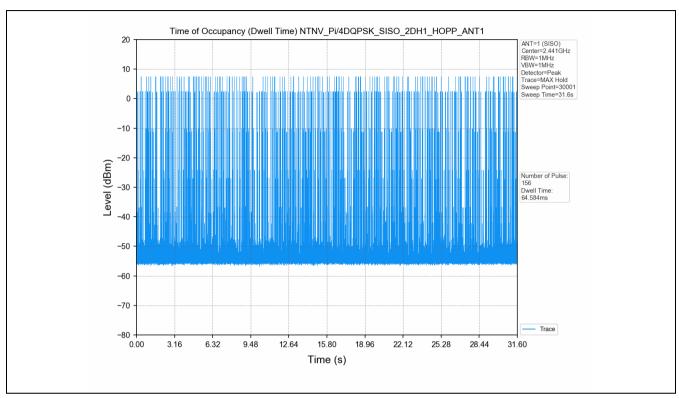
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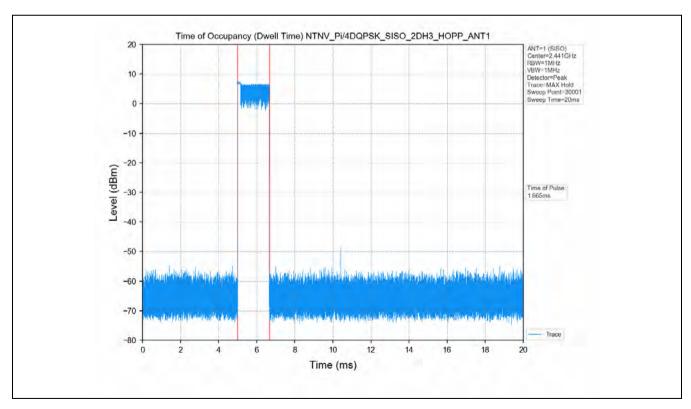
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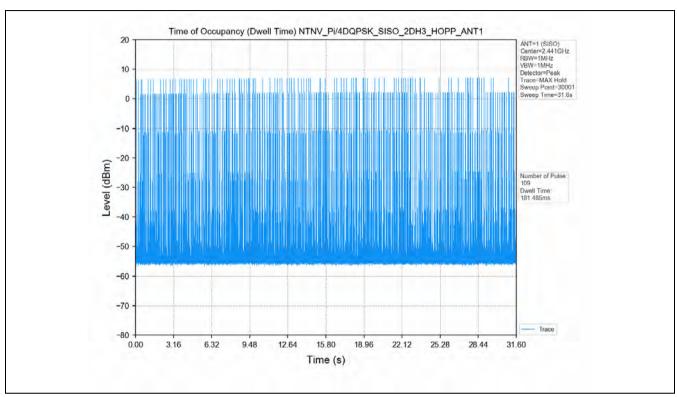
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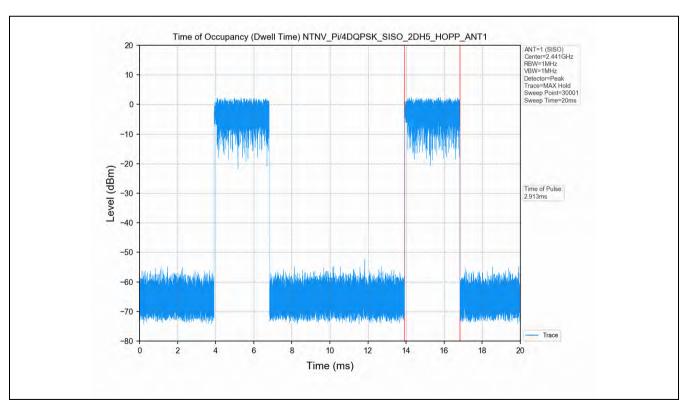
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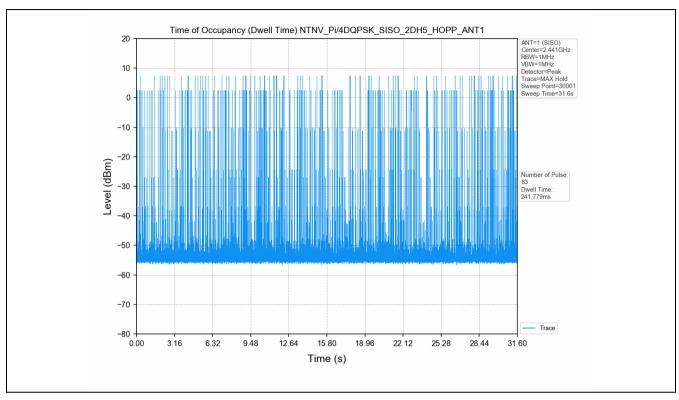
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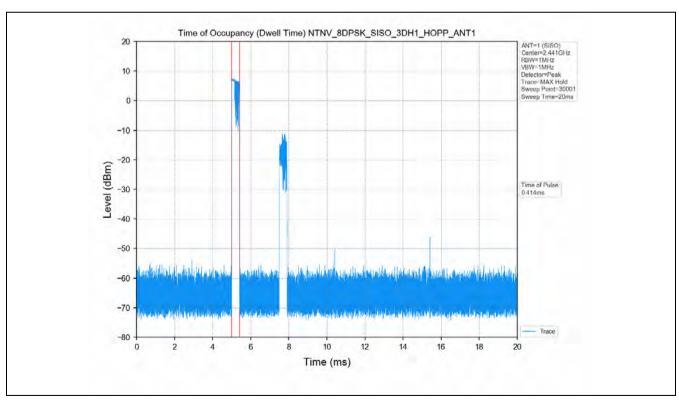
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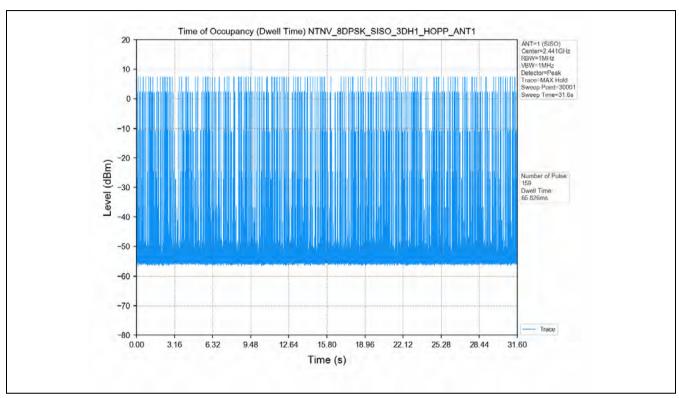
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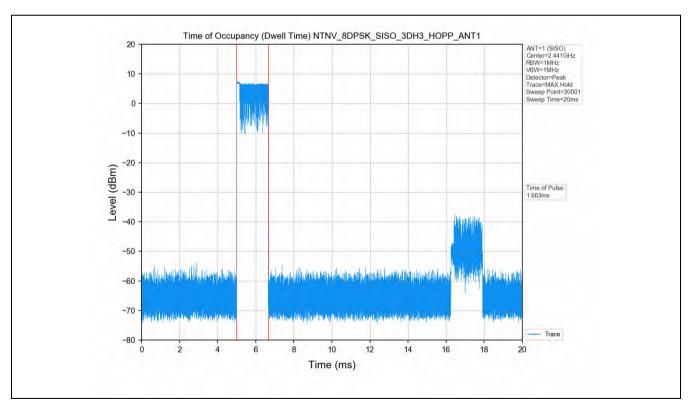
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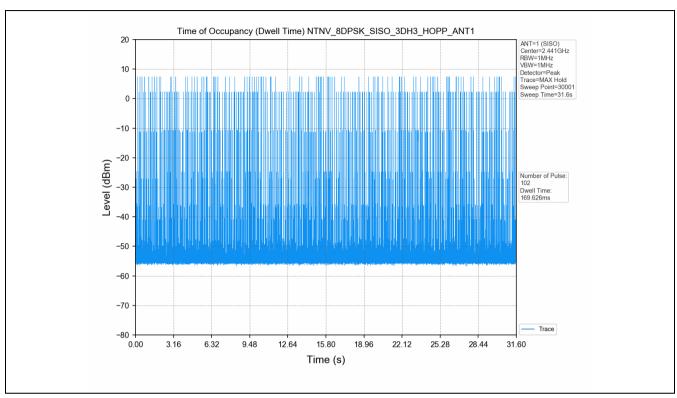
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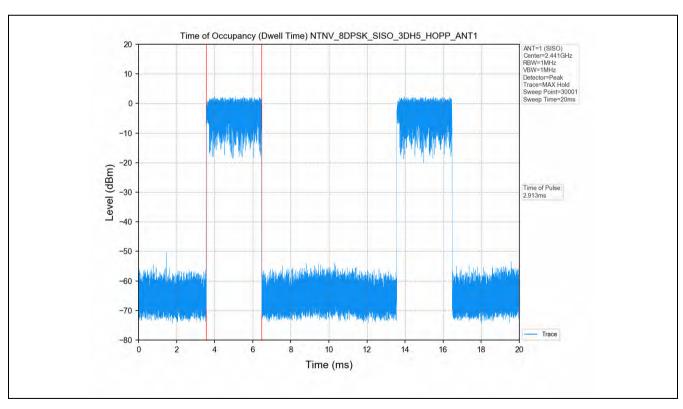
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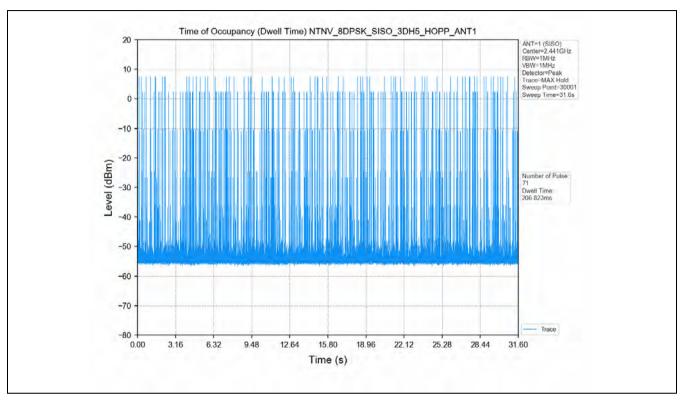
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-12.66	PASS
OFOK	2441	SISO	1	Refer to test graph	-12.66	PASS
GFSK	2480	SISO	1	Refer to test graph	-12.66	PASS
	Hopping	SISO	1	Refer to test graph	-12.66	PASS
	2402	SISO	1	Refer to test graph	-12.75	PASS
D:/ADODEK	2441	SISO	1	Refer to test graph	-12.75	PASS
Pi/4DQPSK	2480	SISO	1	Refer to test graph	-12.75	PASS
	Hopping	SISO	1	Refer to test graph	-12.75	PASS
	2402	SISO	1	Refer to test graph	-12.75	PASS
8DPSK	2441	SISO	1	Refer to test graph	-12.75	PASS
	2480	SISO	1	Refer to test graph	-12.75	PASS
	Hopping	SISO	1	Refer to test graph	-12.75	PASS



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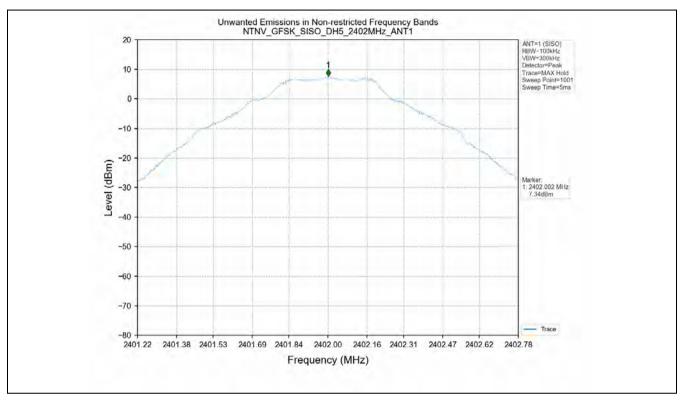
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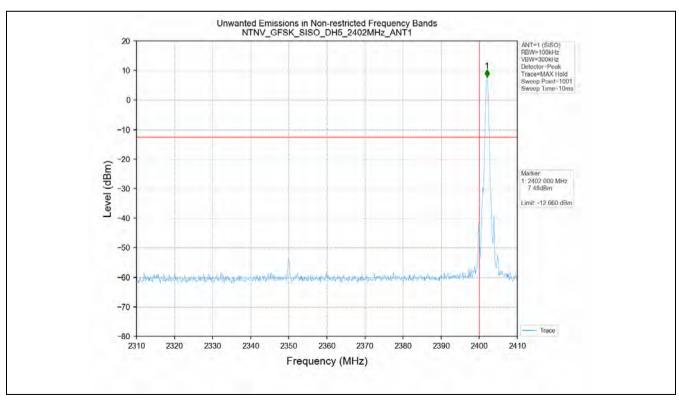


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6.2 Test Graph







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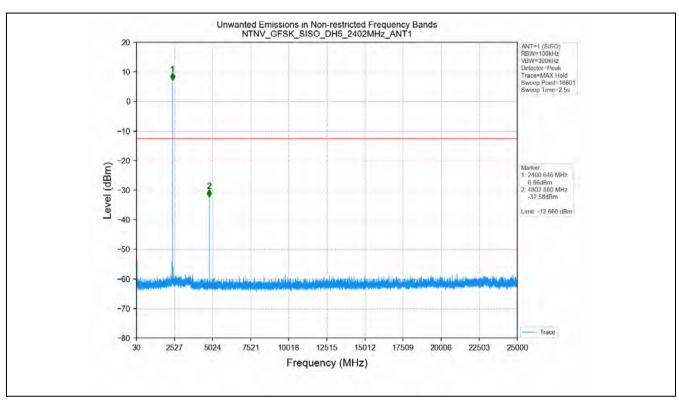
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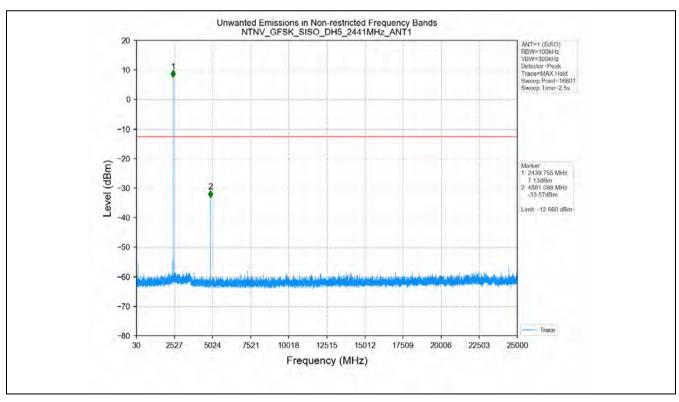
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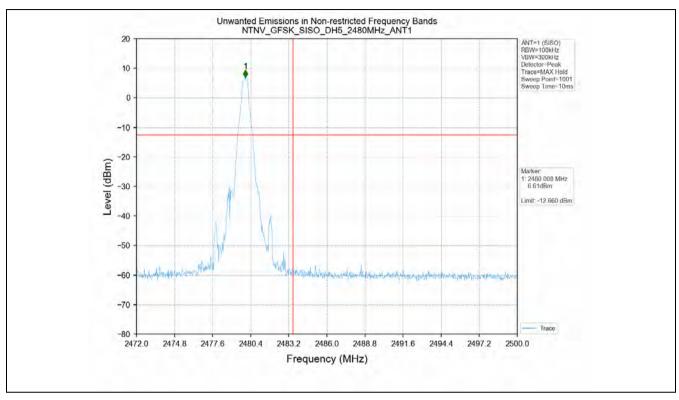
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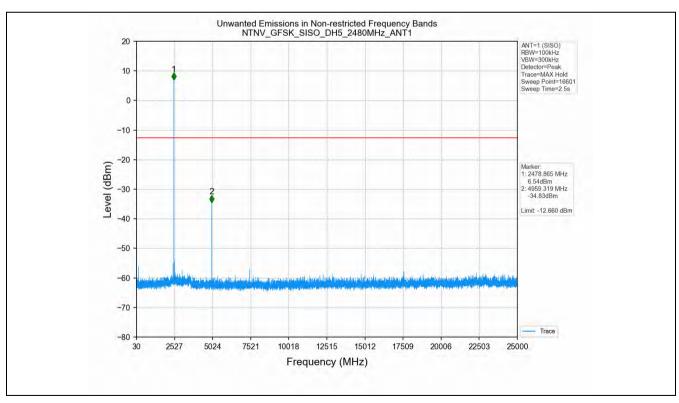
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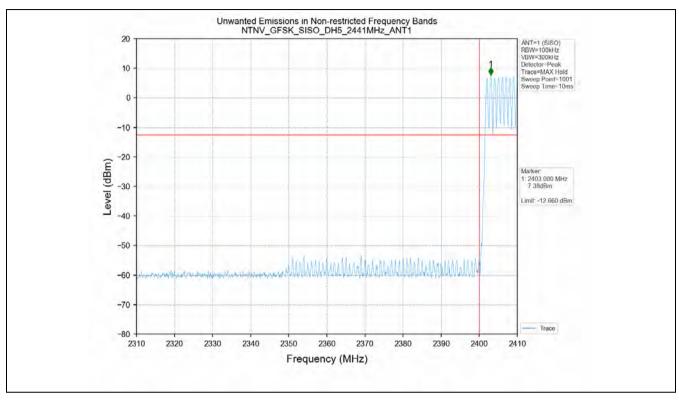
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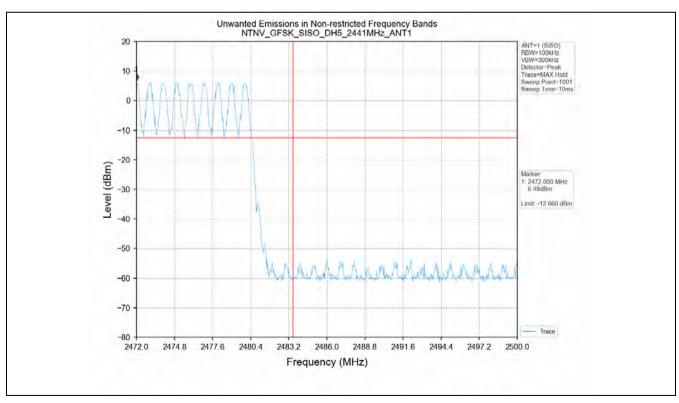
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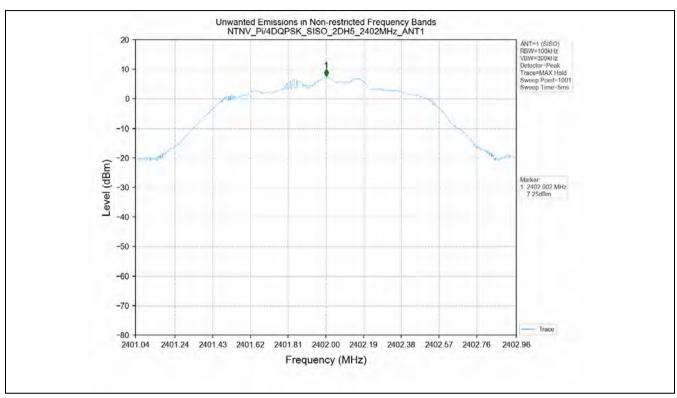
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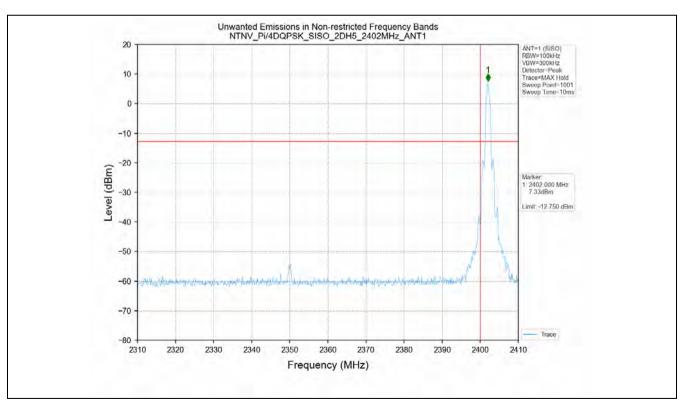
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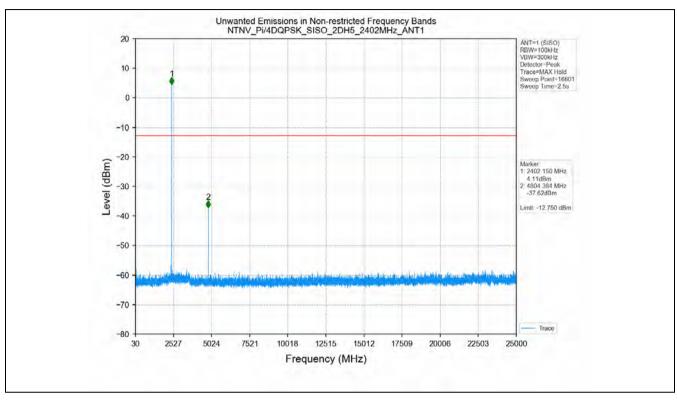
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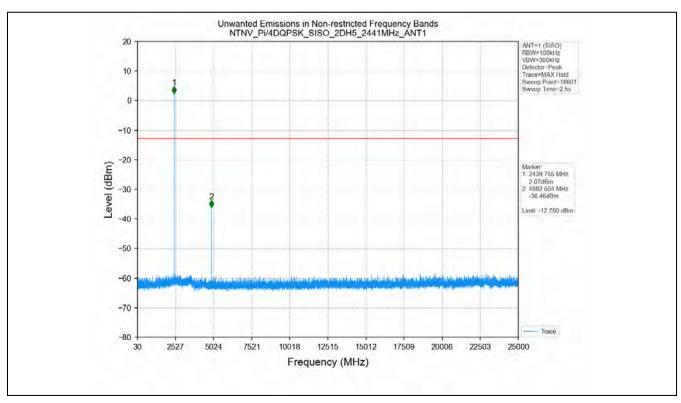
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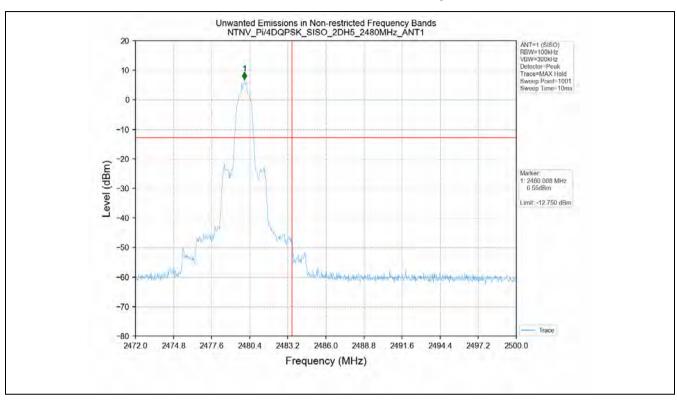
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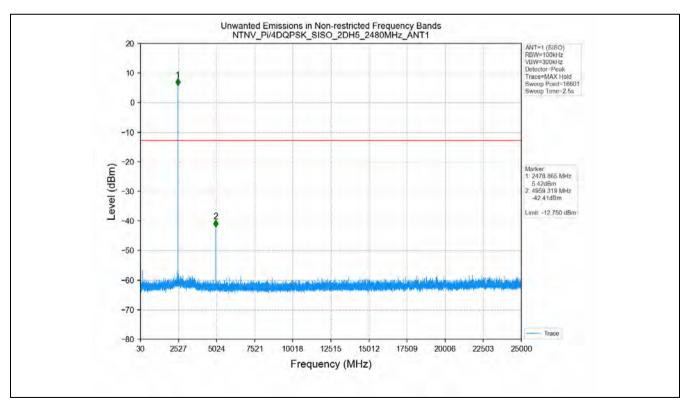
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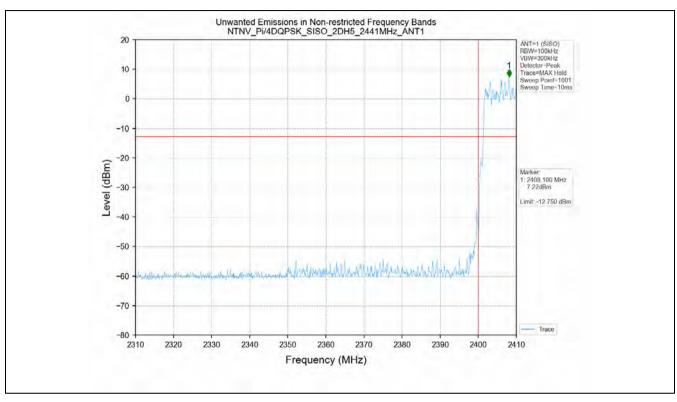
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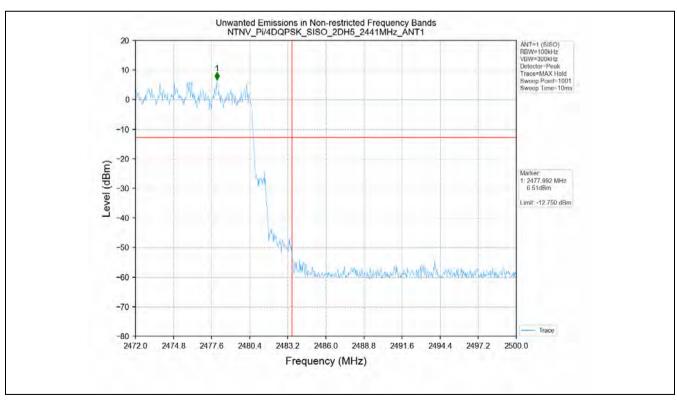
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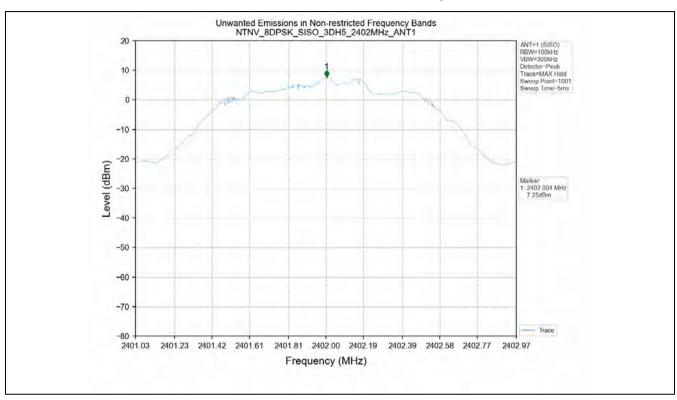
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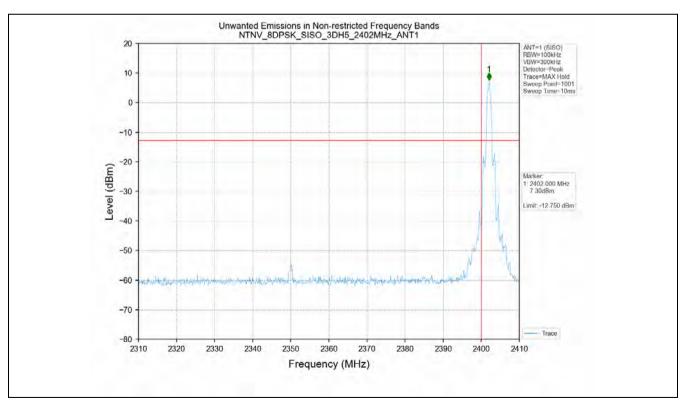
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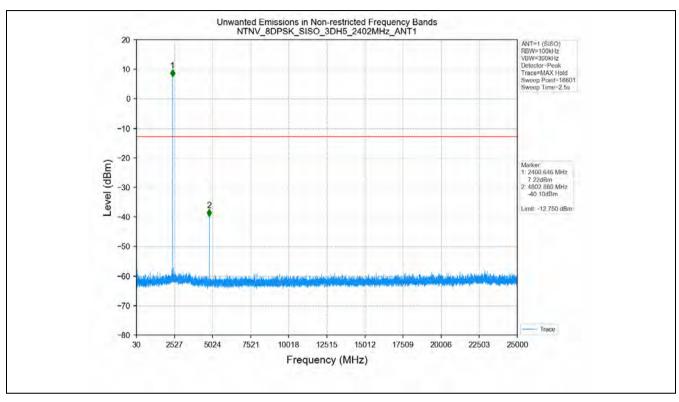
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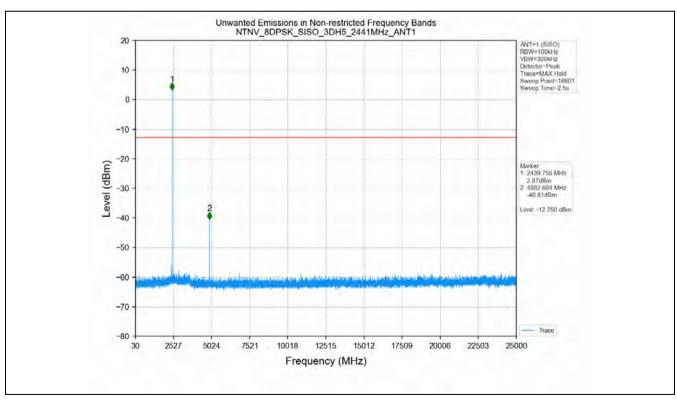
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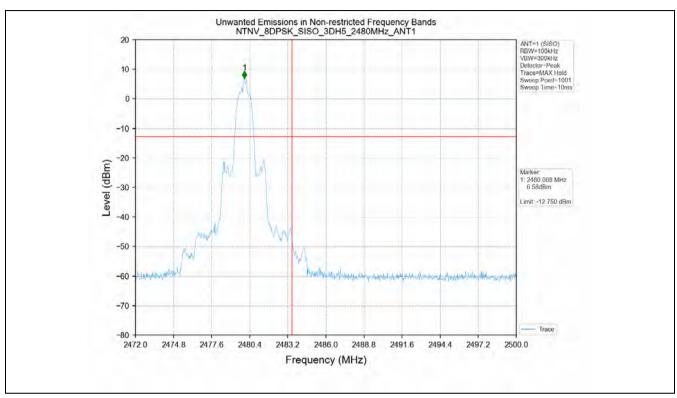
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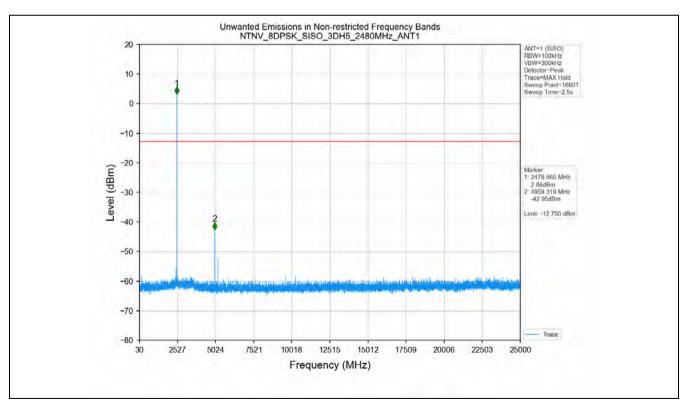
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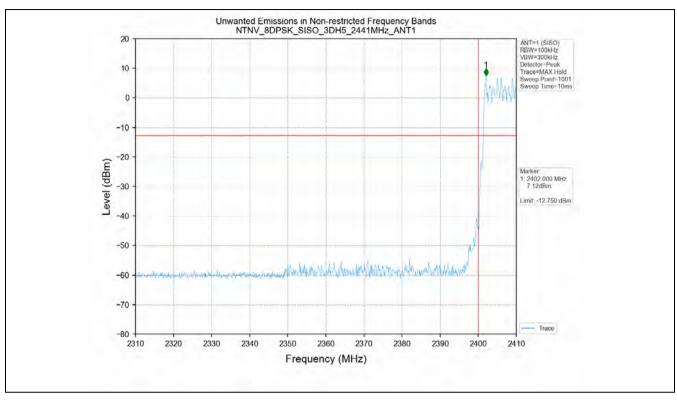
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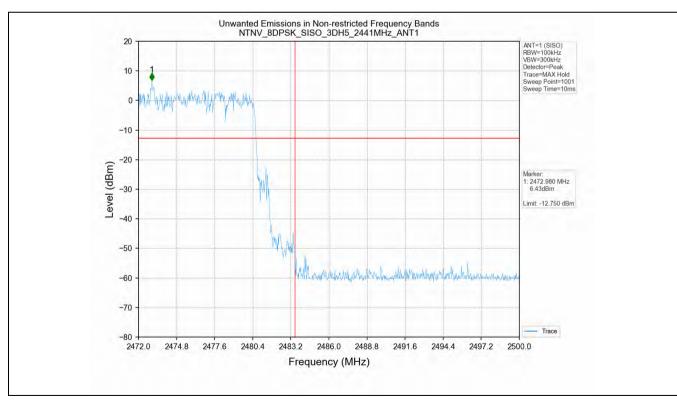
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9.2 Appendix 15.247-Right earbuds

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	verdict
	2402	SISO	1	1.038	PASS
GFSK	2441	SISO	1	1.033	PASS
	2480	SISO	1	1.033	PASS
	2402	SISO	1	1.271	PASS
Pi/4DQPSK	2441	SISO	1	1.265	PASS
	2480	SISO	1	1.258	PASS
8DPSK	2402	SISO	1	1.296	PASS
	2441	SISO	1	1.294	PASS
	2480	SISO	1	1.286	PASS

Test Mode F	Frequency	ТХ Туре	ANT No.	99% Occupied Bandwidth		
	(MHz)			Test Res	ult (MHz)	
	2402	SISO	1	0.941	Only for Report Use	
GFSK	2441	SISO	1	0.924	Only for Report Use	
	2480	SISO	1	0.903	Only for Report Use	
	2402	SISO	1	1.261	Only for Report Use	
Pi/4DQPSK	2441	SISO	1	1.241	Only for Report Use	
	2480	SISO	1	1.211	Only for Report Use	
	2402	SISO	1	1.258	Only for Report Use	
8DPSK	2441	SISO	1	1.246	Only for Report Use	
	2480	SISO	1	1.224	Only for Report Use	



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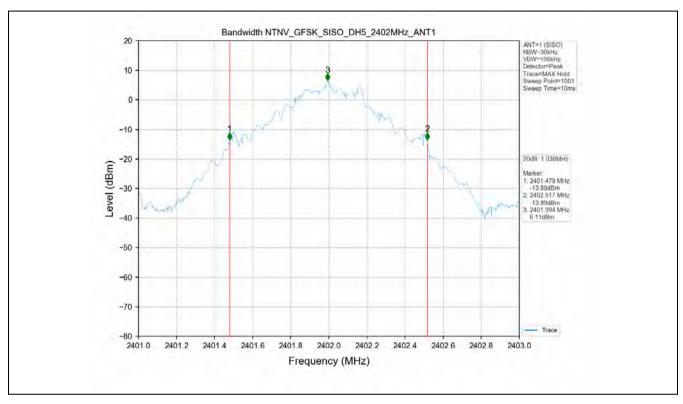
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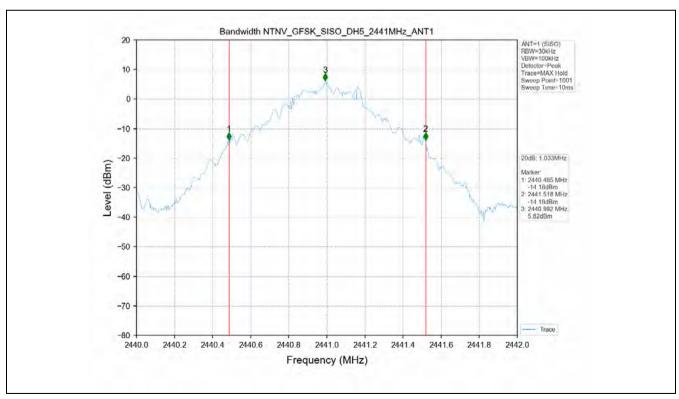


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1.2 Test Graph - 20dB Bandwidth







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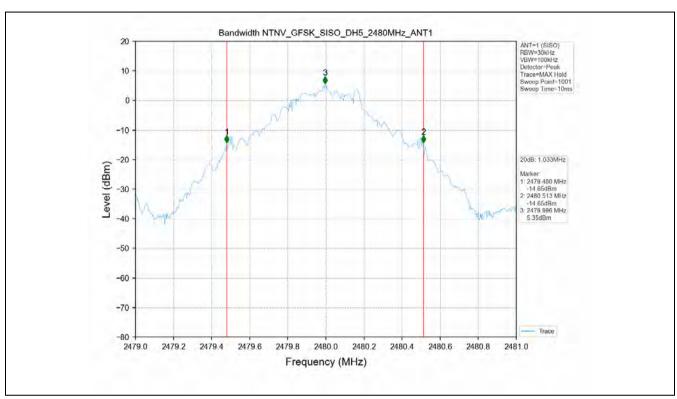
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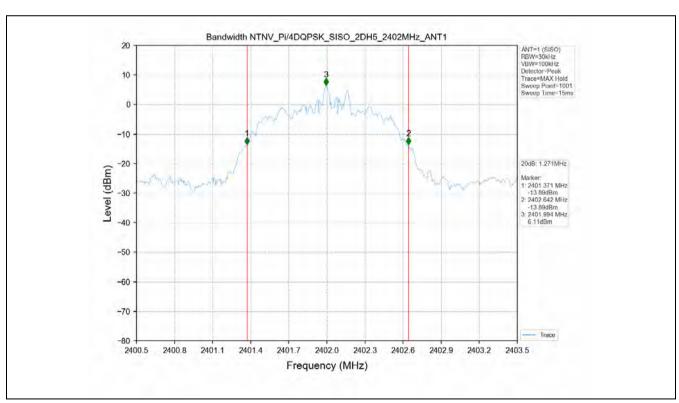
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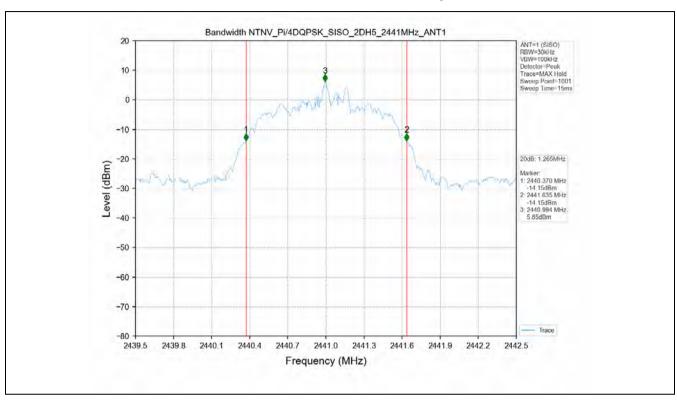
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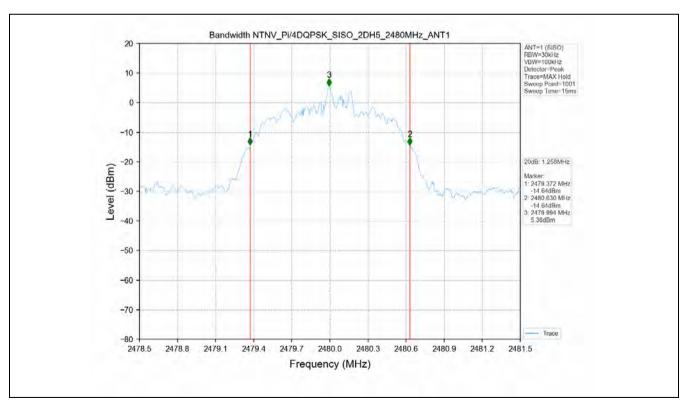
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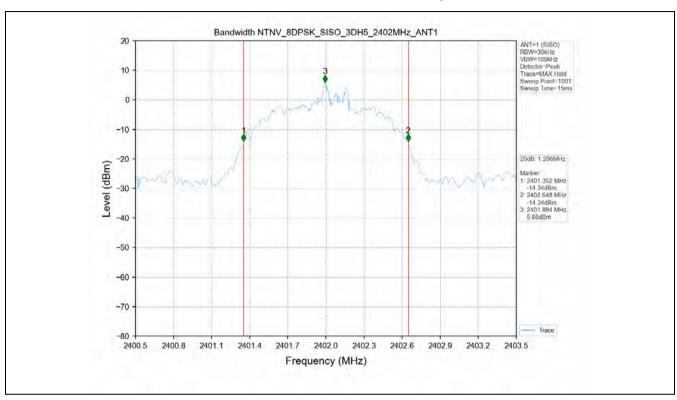
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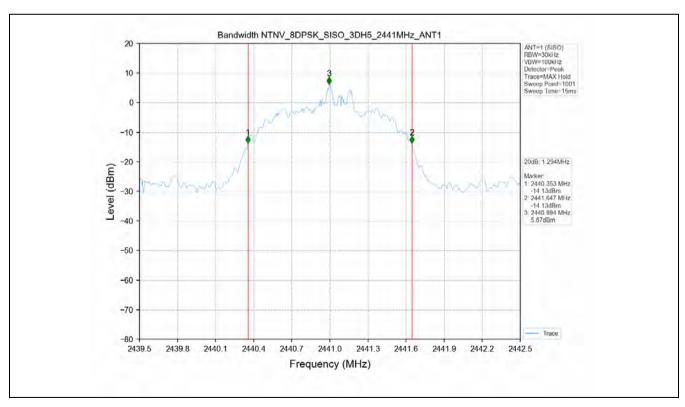
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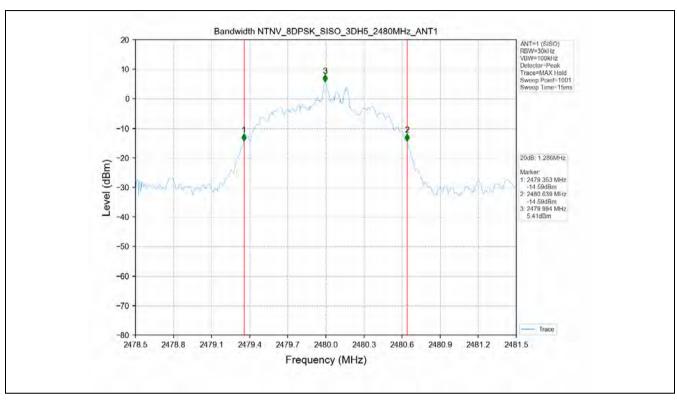
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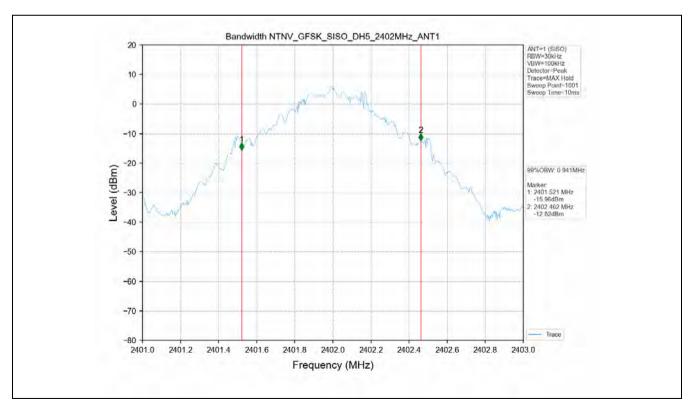


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1.3 Test Graph - 99% Occupied Bandwidth





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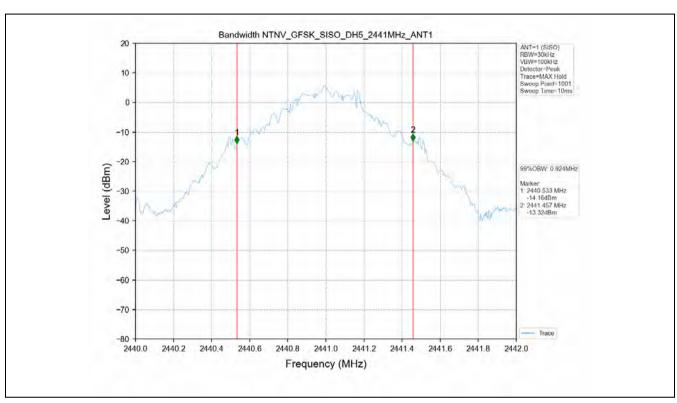
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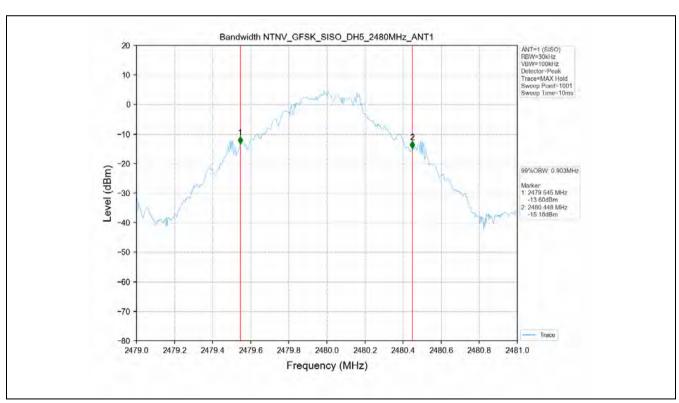
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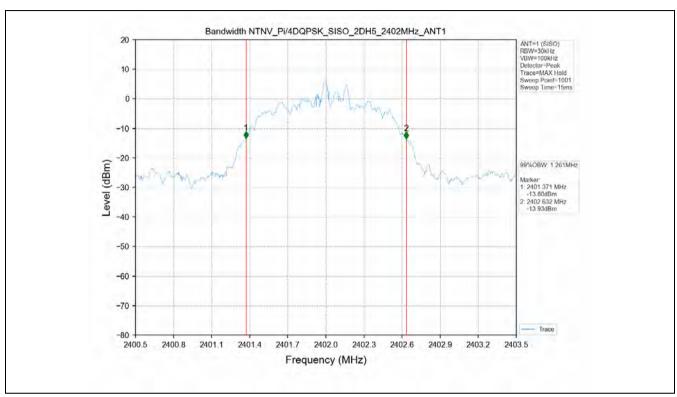
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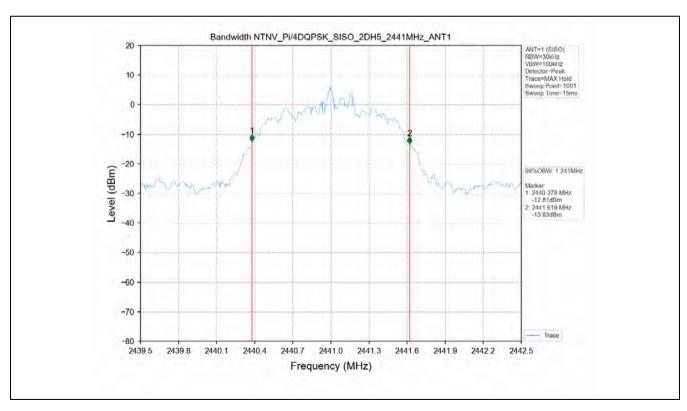
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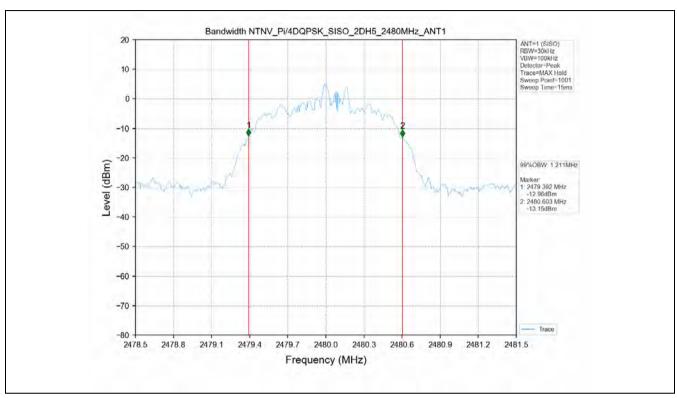
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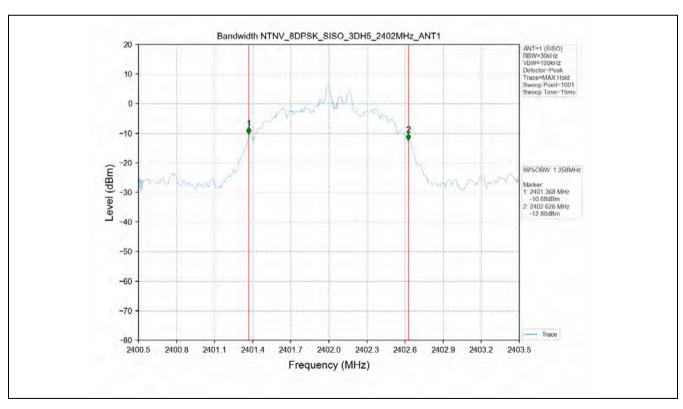
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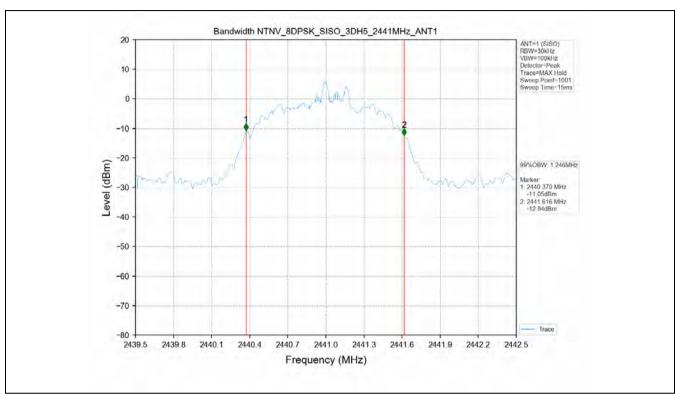
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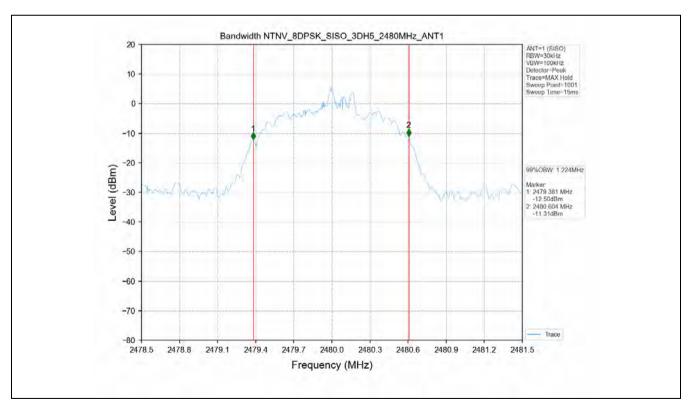
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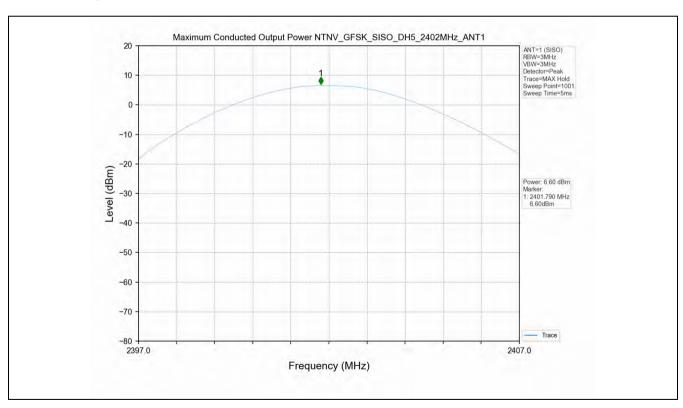
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(1411 12)		Ant 1			
	2402	SISO	6.60	20.97	PASS	
GFSK	2441	SISO	6.29	20.97	PASS	
	2480	SISO	5.62	20.97	PASS	
Pi/4DQPSK	2402	SISO	6.66	20.97	PASS	
	2441	SISO	6.30	20.97	PASS	
	2480	SISO	5.67	20.97	PASS	
8DPSK	2402	SISO	6.69	20.97	PASS	
	2441	SISO	6.33	20.97	PASS	
	2480	SISO	5.67	20.97	PASS	

2.2 Test Graph





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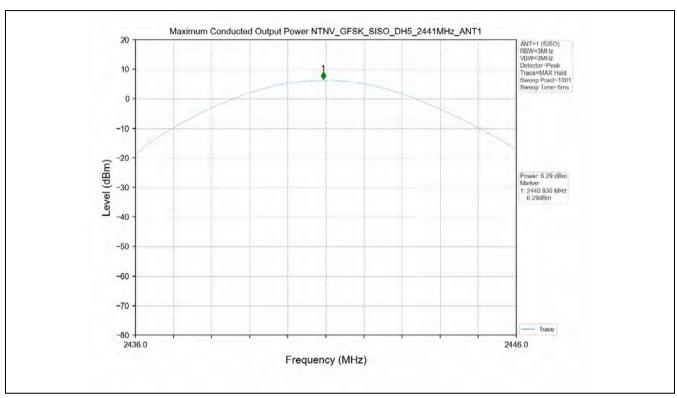
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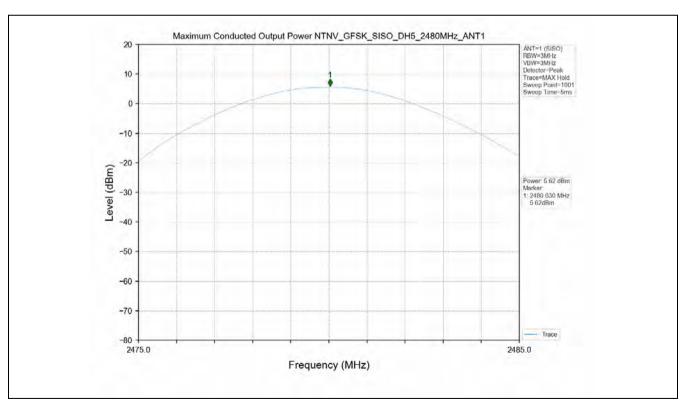
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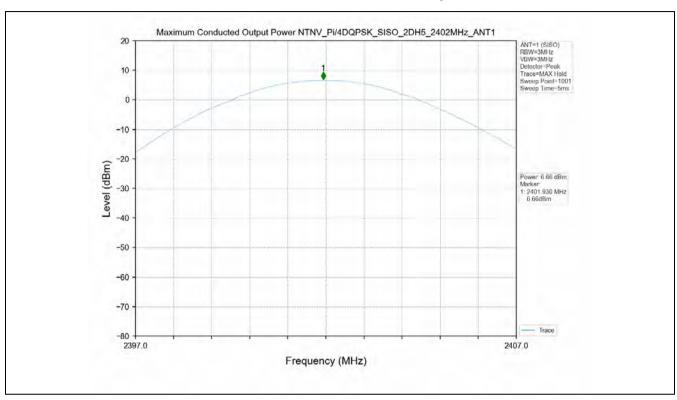
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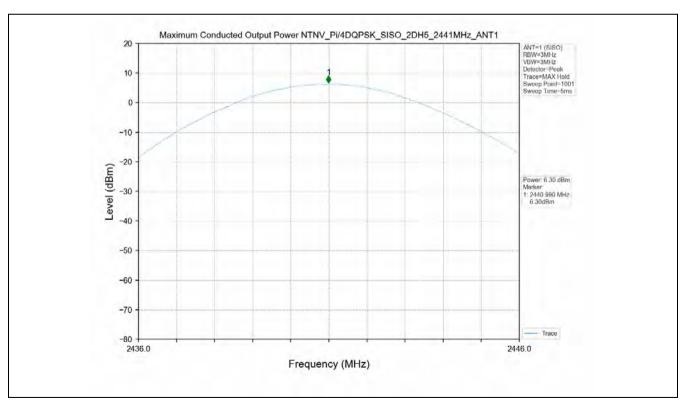
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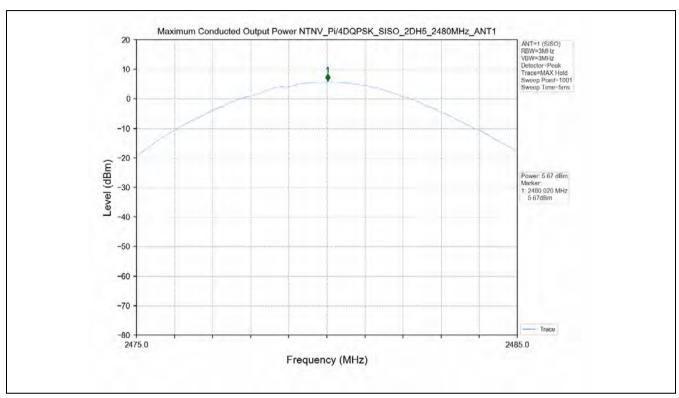
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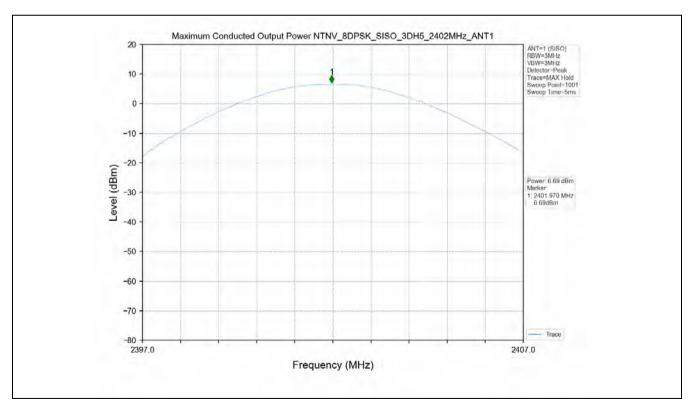
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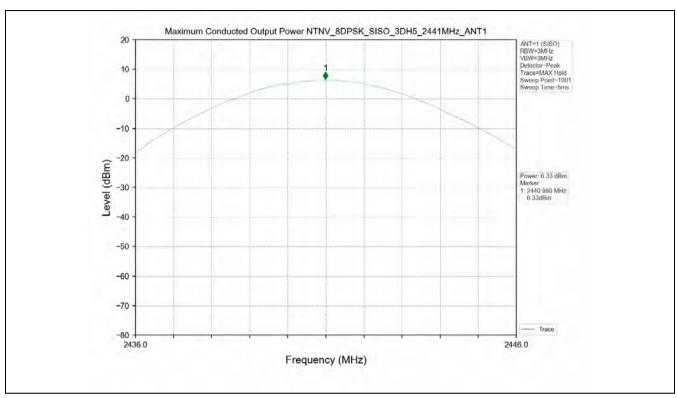
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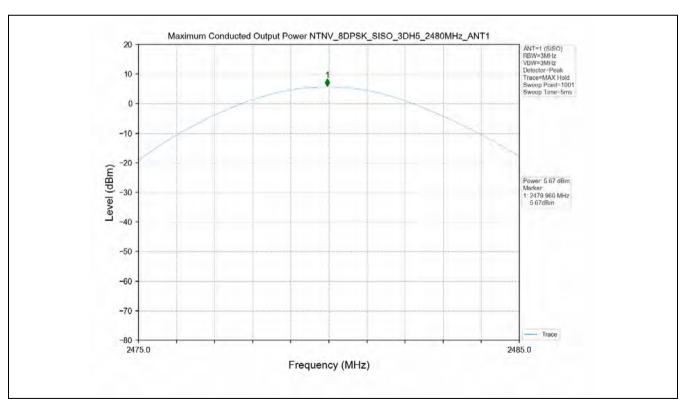
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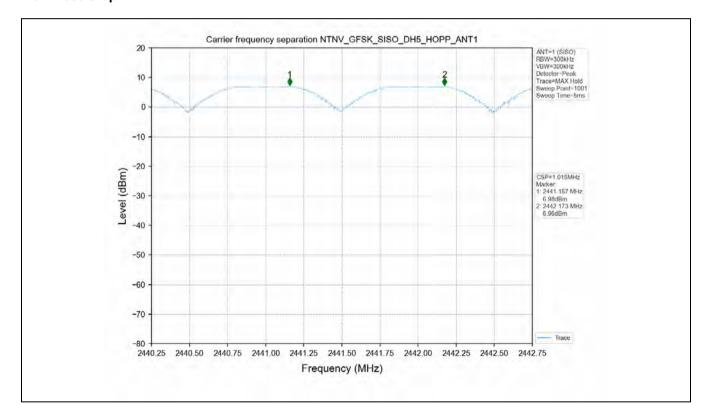
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.015	1.038	≥0.692	PASS
Pi/4DQPSK	SISO	1	0.993	1.271	≥0.847	PASS
8DPSK	SISO	1	1.020	1.296	≥0.864	PASS

3.2 Test Graph





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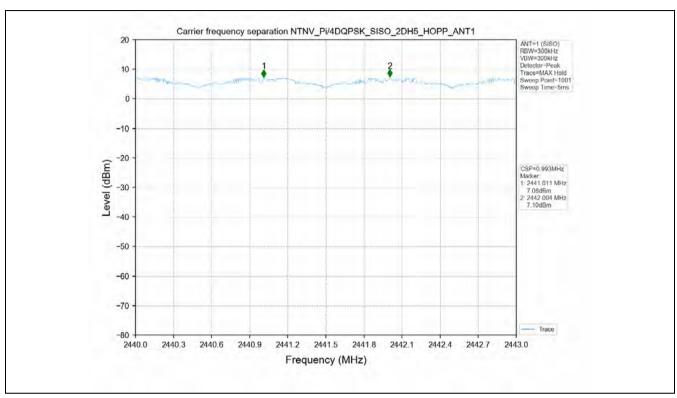
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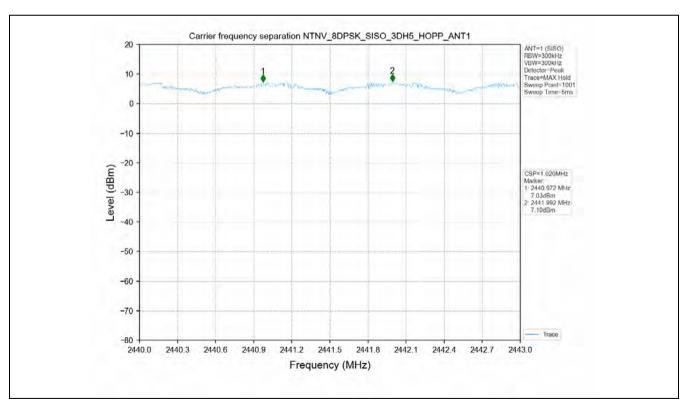
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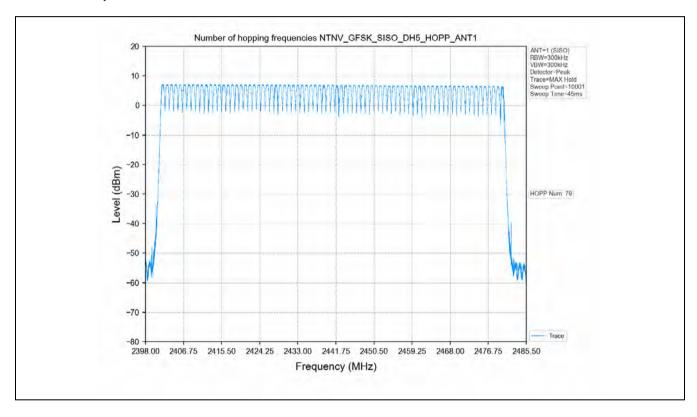
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4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph





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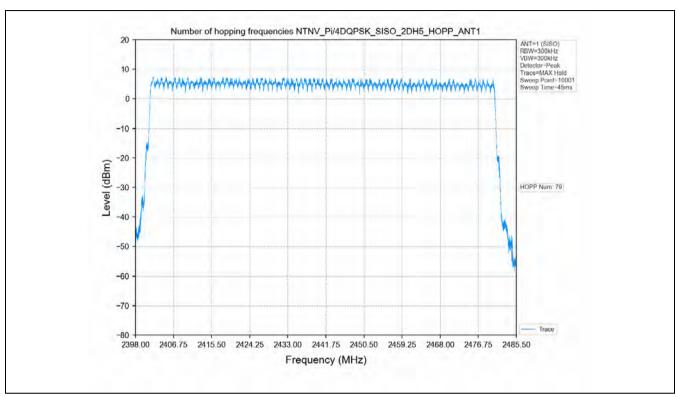
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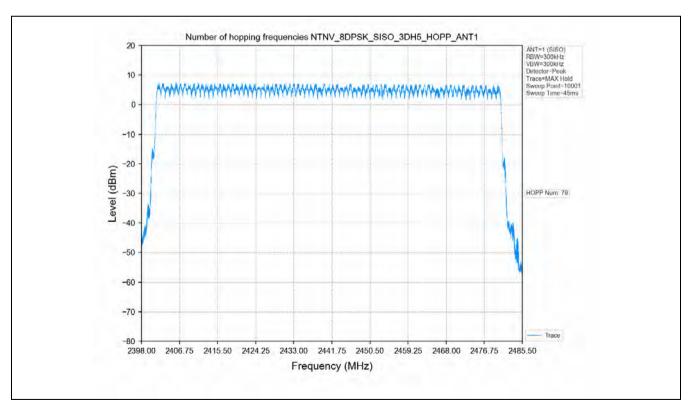
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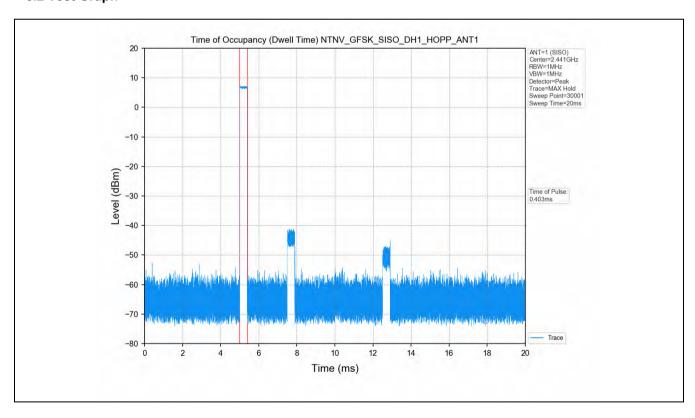
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	NIO	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.403	31.6	158	63.674	≤400	PASS
GFSK	DH3	SISO	1	1.659	31.6	112	185.808	≤400	PASS
	DH5	SISO	1	2.907	31.6	79	229.653	≤400	PASS
D:/4D.O	2DH1	SISO	1	0.414	31.6	157	64.998	≤400	PASS
Pi/4DQ ,	2DH3	SISO	1	1.665	31.6	108	179.820	≤400	PASS
1 OIX	2DH5	SISO	1	2.914	31.6	85	247.690	≤400	PASS
	3DH1	SISO	1	0.413	31.6	157	64.841	≤400	PASS
8DPSK	3DH3	SISO	1	1.662	31.6	107	177.834	≤400	PASS
	3DH5	SISO	1	2.915	31.6	80	233.200	≤400	PASS

5.2 Test Graph





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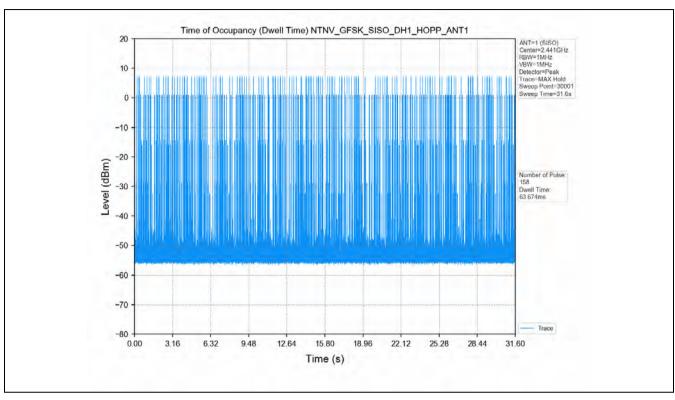
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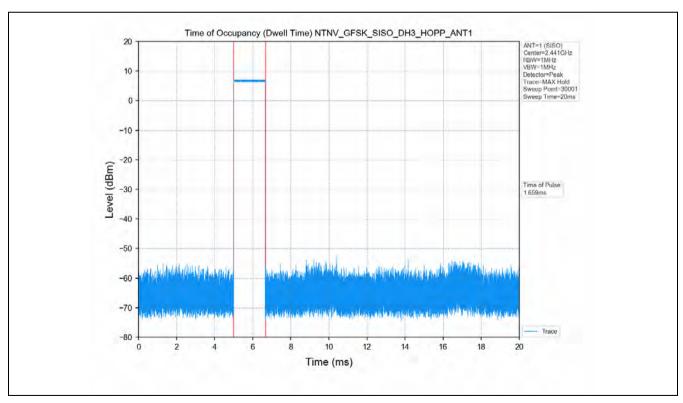
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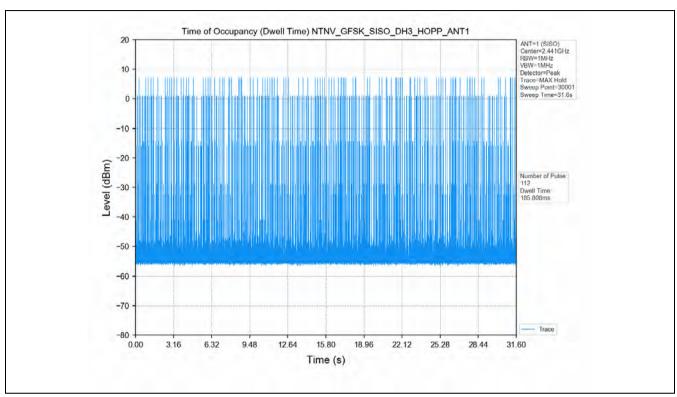
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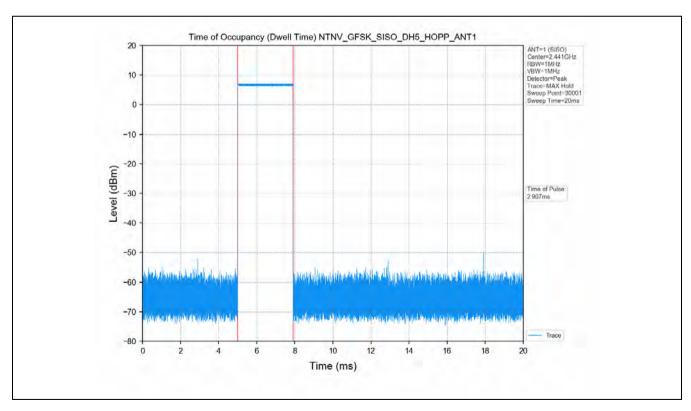
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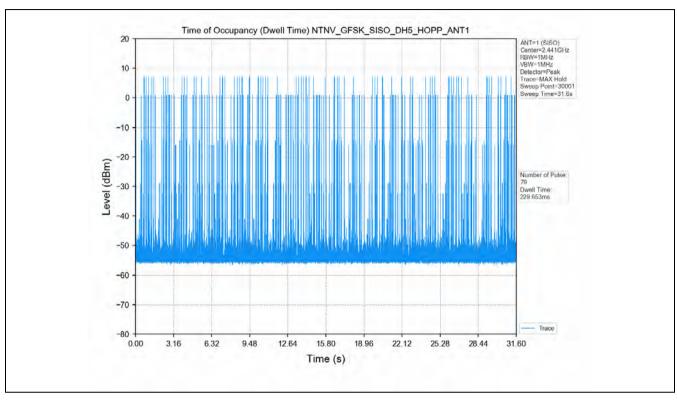
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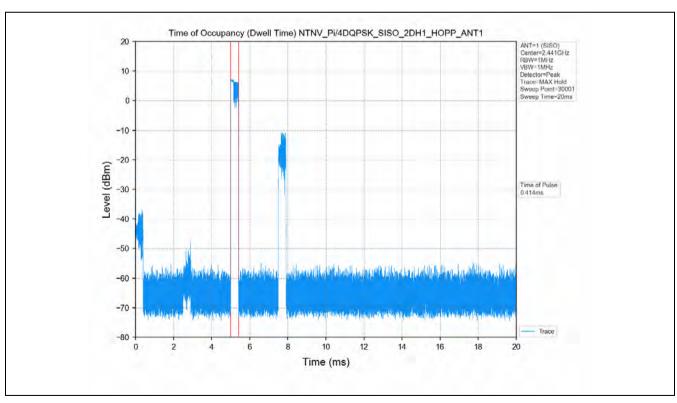
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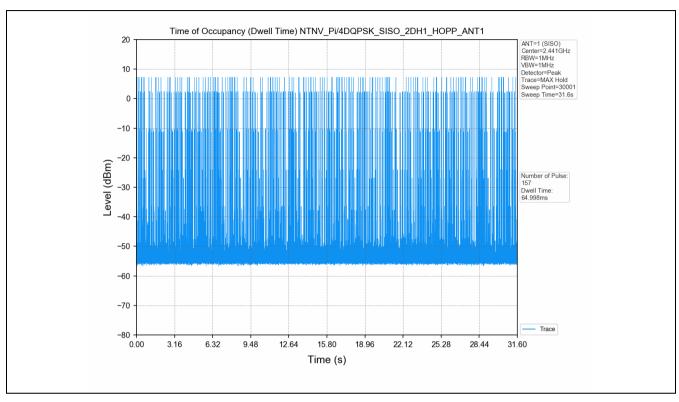
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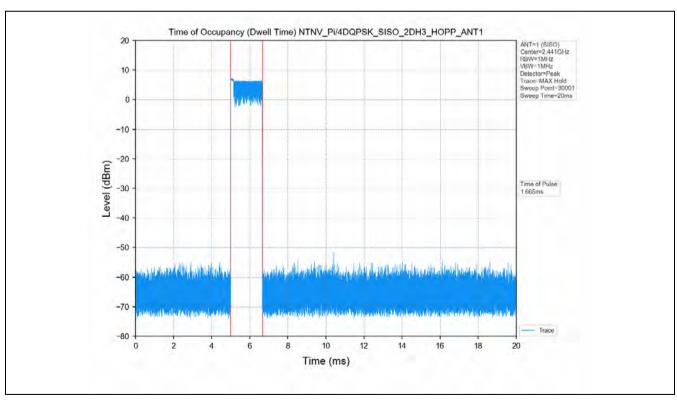
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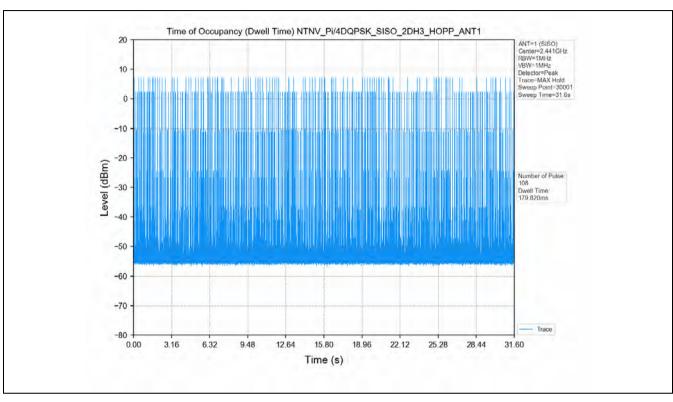
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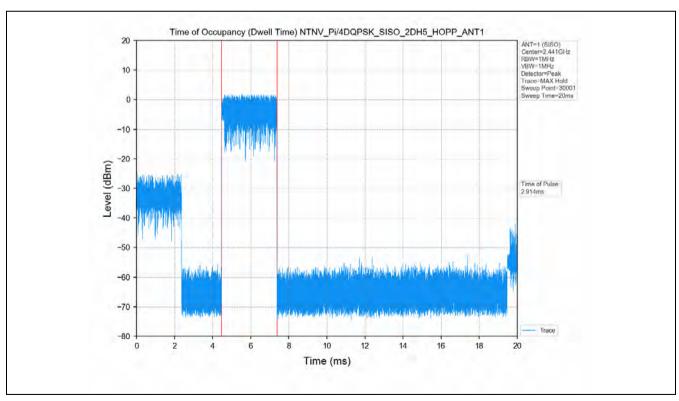
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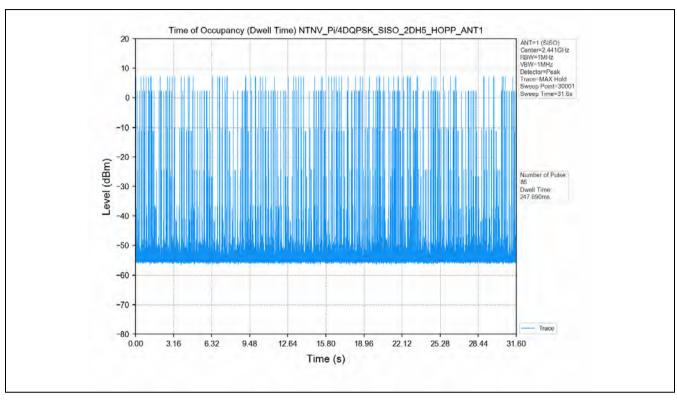
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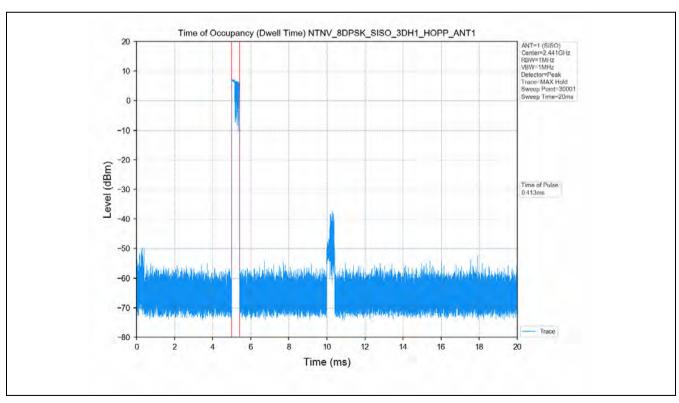
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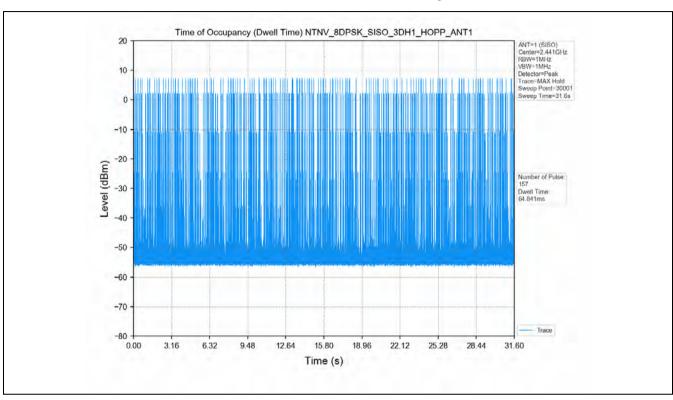
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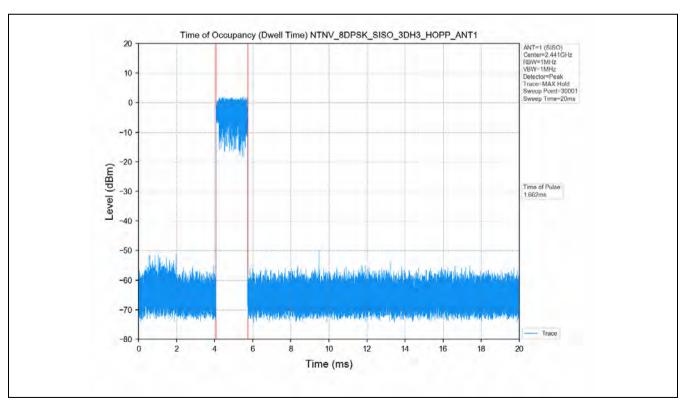
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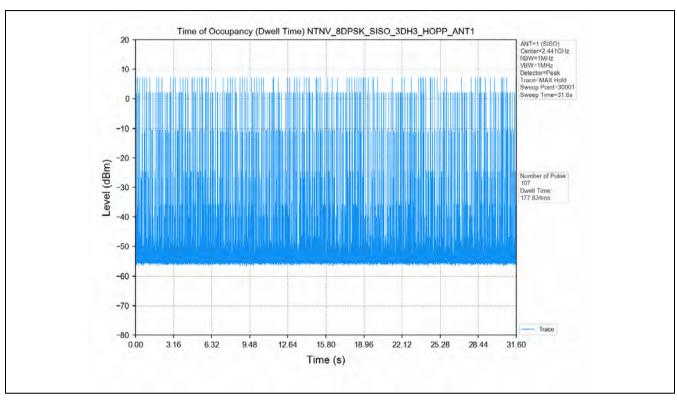
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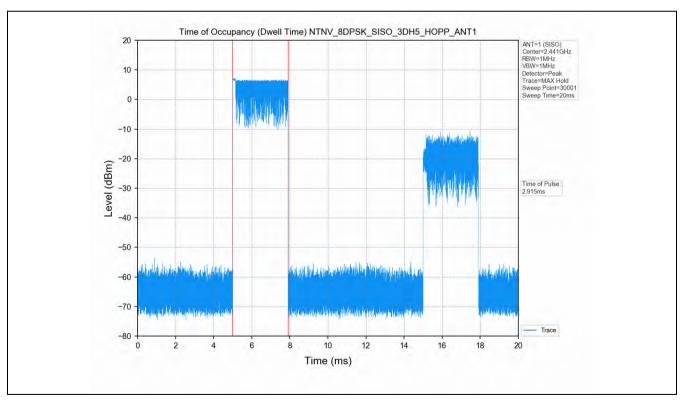
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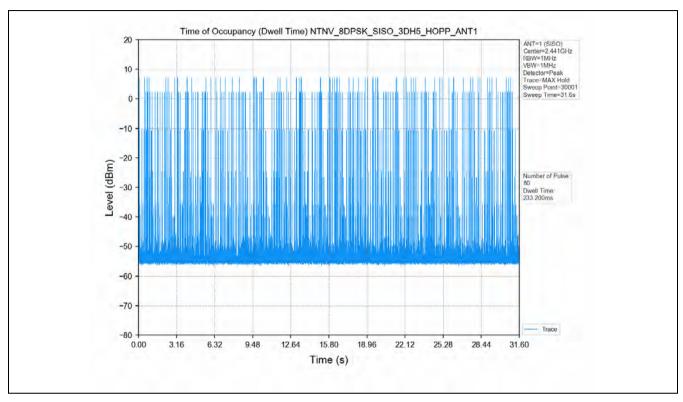
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-12.93	PASS
OFOK	2441	SISO	1	Refer to test graph	-12.93	PASS
GFSK	2480	SISO	1	Refer to test graph	-12.93	PASS
	Hopping	SISO	1	Refer to test graph	-12.93	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-12.94	PASS
	2441	SISO	1	Refer to test graph	-12.94	PASS
	2480	SISO	1	Refer to test graph	-12.94	PASS
	Hopping	SISO	1	Refer to test graph	-12.94	PASS
8DPSK	2402	SISO	1	Refer to test graph	-12.93	PASS
	2441	SISO	1	Refer to test graph	-12.93	PASS
	2480	SISO	1	Refer to test graph	-12.93	PASS
	Hopping	SISO	1	Refer to test graph	-12.93	PASS



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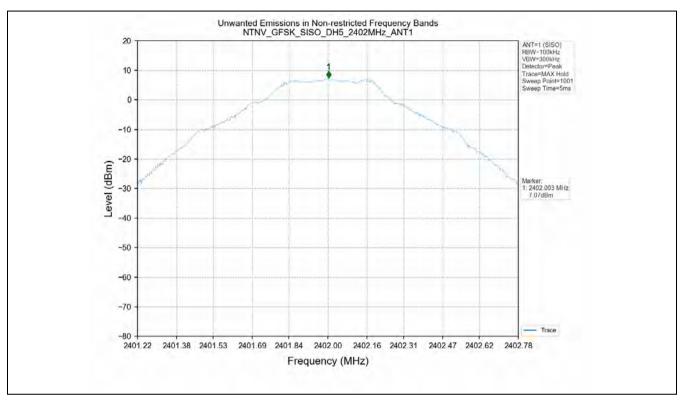
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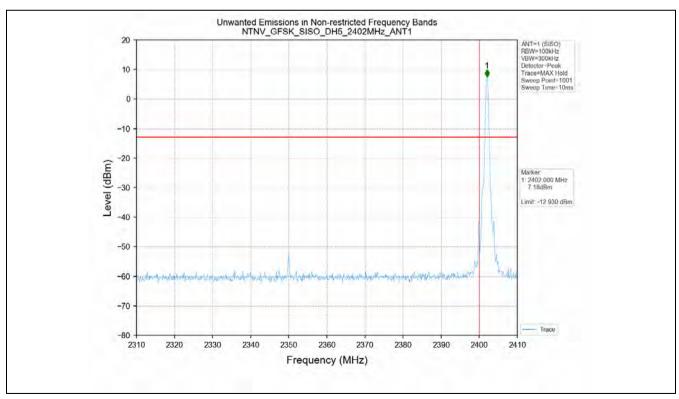


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6.2 Test Graph







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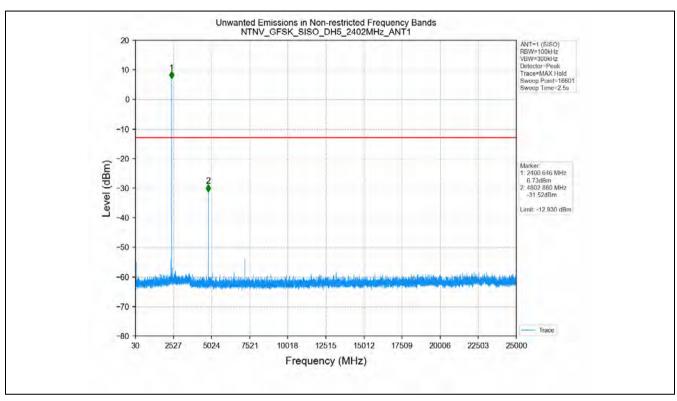
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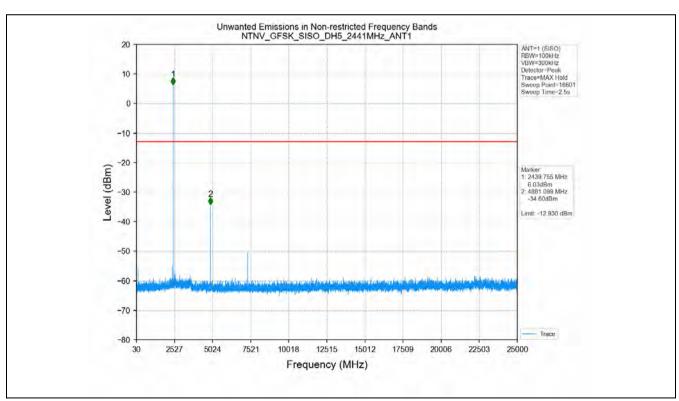
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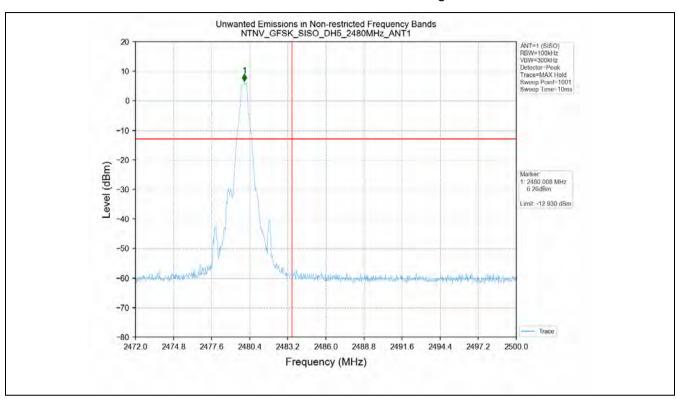
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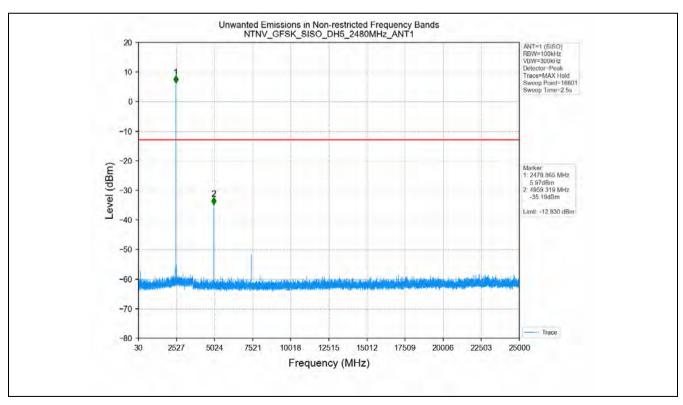
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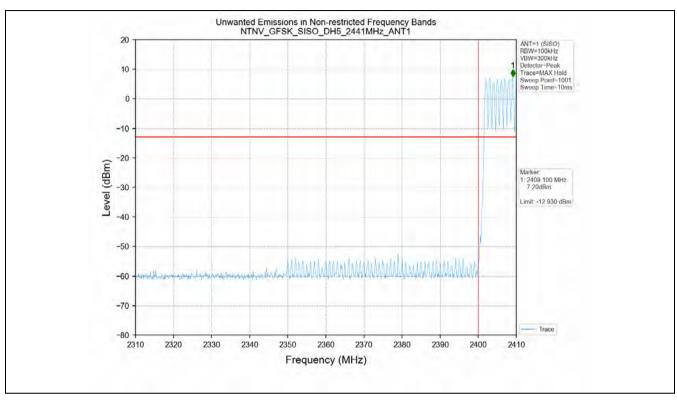
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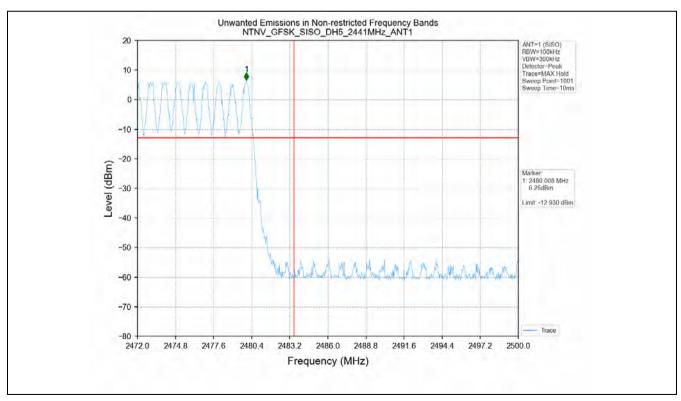
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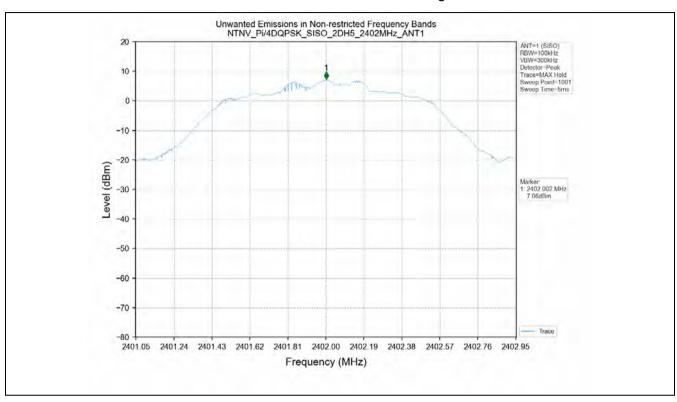
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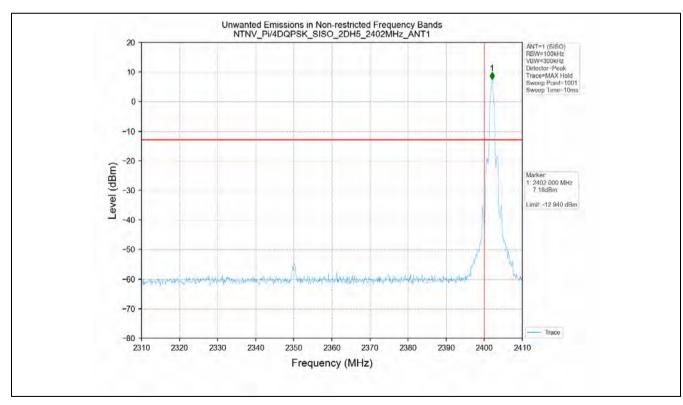
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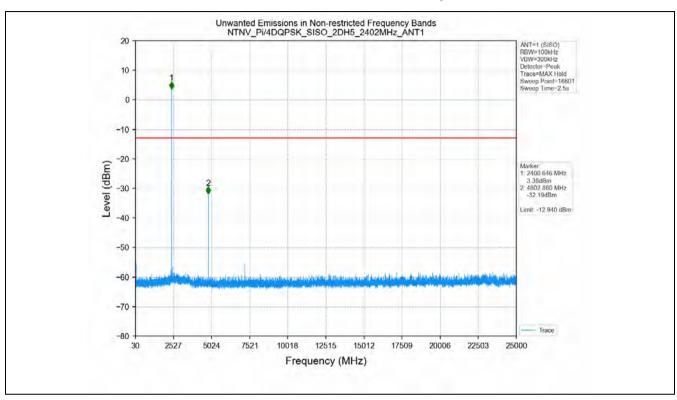
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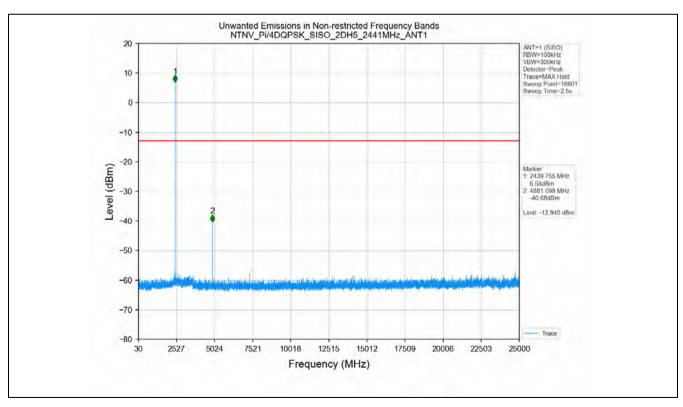
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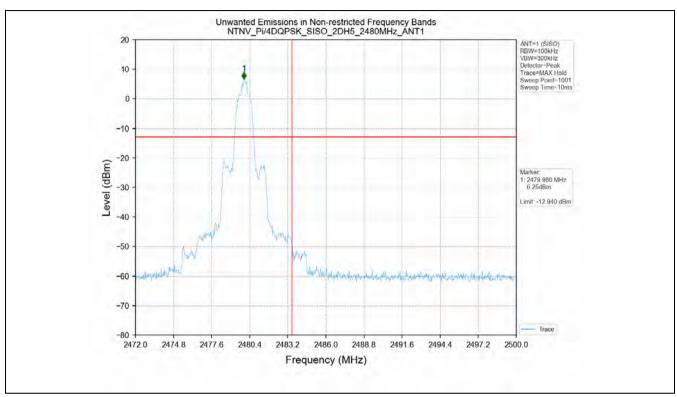
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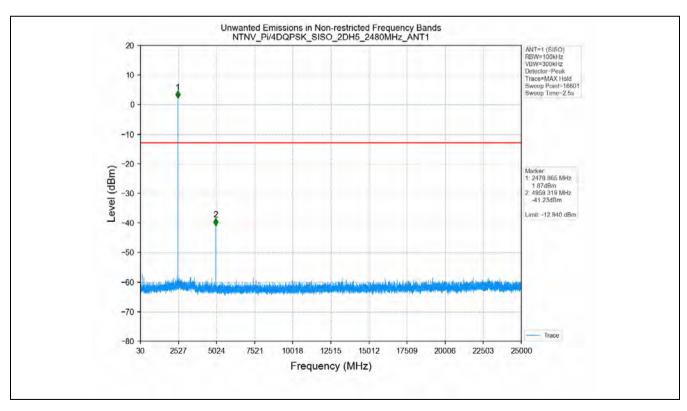
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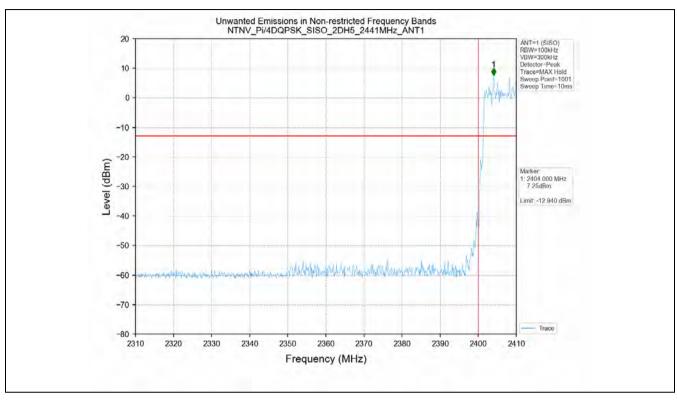
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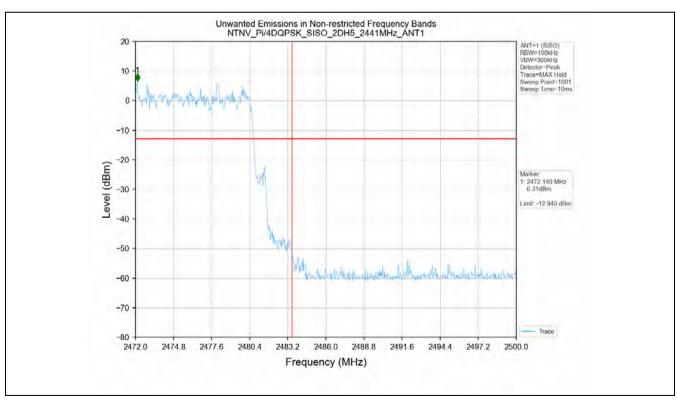
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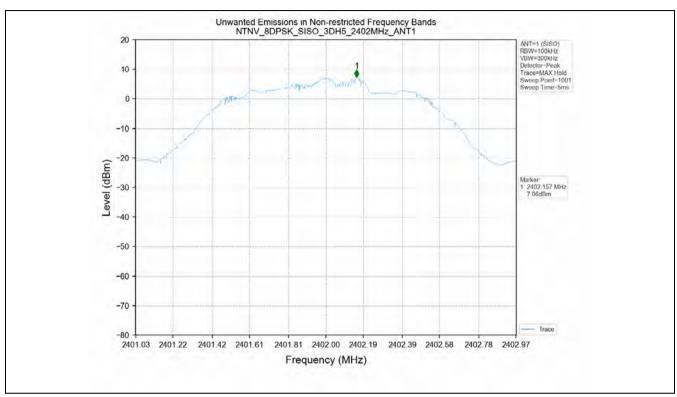
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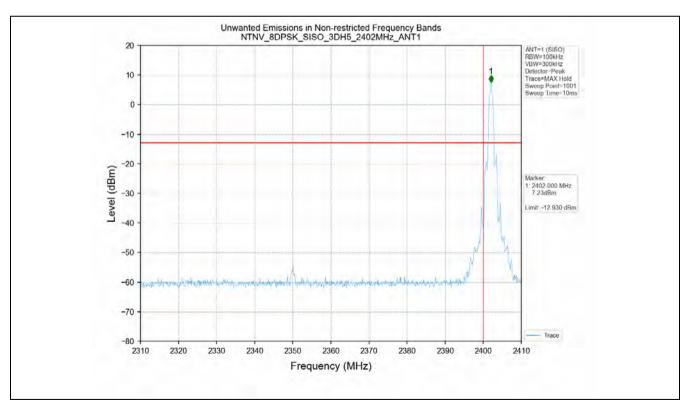
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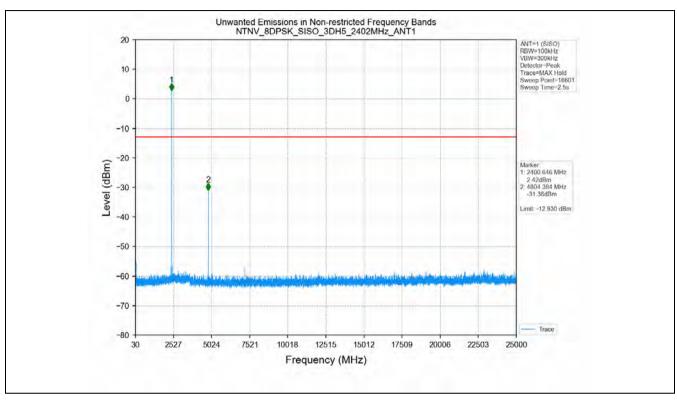
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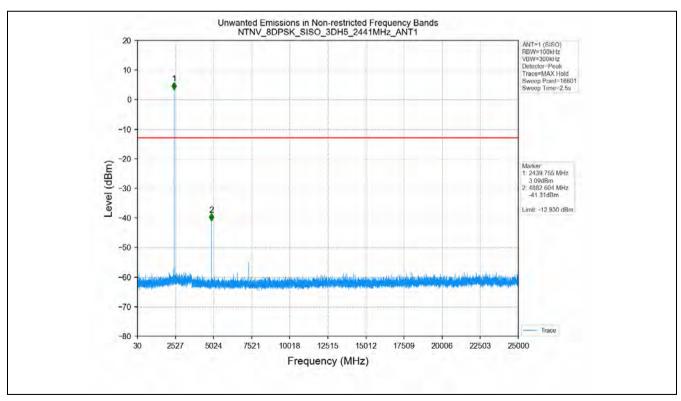
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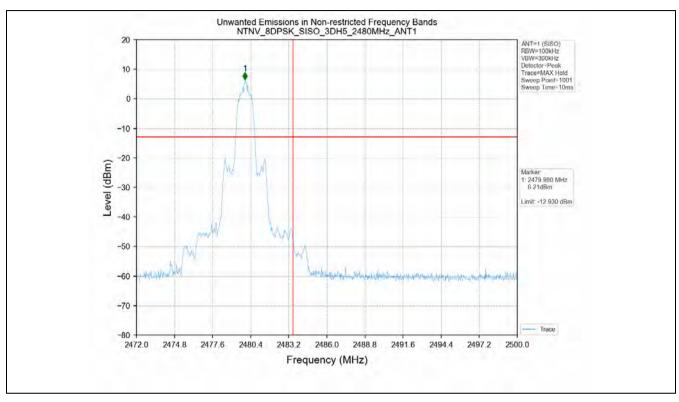
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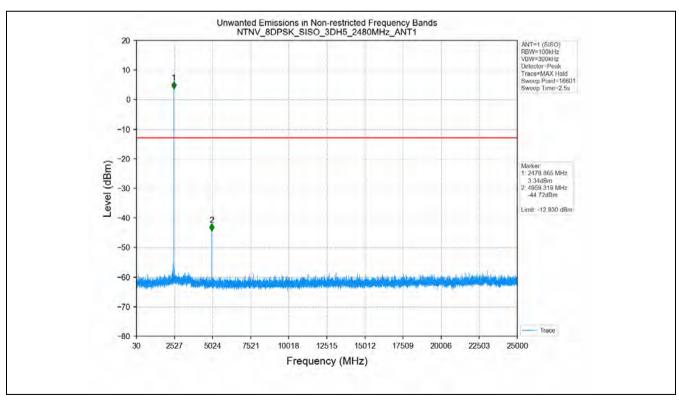
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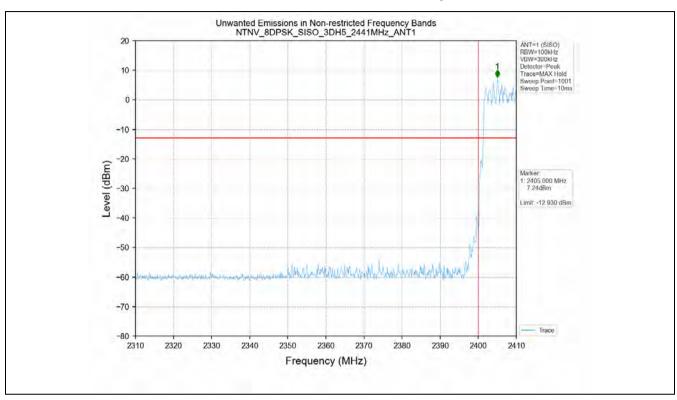
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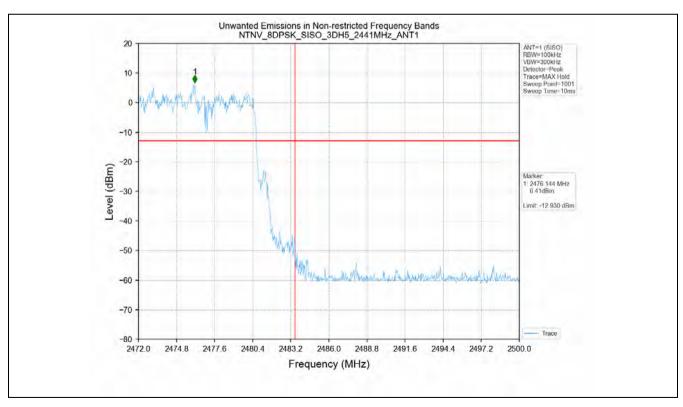
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