

Report No.: SZEM200600483502

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TEST REPORT

Application No.: SZEM2006004835CR

Applicant: Binatone Electronics International Ltd.

Address of Applicant: Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong, China

Manufacturer: Binatone Telecom Plc

Address of Manufacturer: 86 Frampton Street, London, NW8 8NQ, UK **Factory:** Binatone Electronics International Limited

Address of Factory: 25/F Guangdong Investment tower, 148 Connaught Road Central, sheung

Wan, Hong Kong

Equipment Under Test (EUT):

EUT Name: Motobuds Charge

Model No.: SH067

Trade Mark: Motorola

FCC ID: VLJ-SH067

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

Date of Receipt: 2020-06-09

Date of Test: 2020-06-17 to 2020-07-07

Date of Issue: 2020-07-16

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	Version Chapter Date Modifier Remark						
01		2020-07-16		Original			

Authorized for issue by:		
	Bin chen	
	Bill Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary

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

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



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General Information

4.1 Details of E.U.T.

Power Supply:	Charging BOX:Rechargeable battery DC 3.7V 155mAh(Charge by Type-C)
	Left earphone:Rechargeable battery DC 3.7V 50mAh(Charge by Charging BOX)
	Right earphone:Rechargeable battery DC 3.7V 50mAh(Charge by Charging BOX)
Cable:	Type-C cable:2cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	Monopole
Antenna Gain:	-2dBi
Hardware Version:	V1.0
Software version:	V2.0
Test software & version:	FCCAssist&V1.0
S/N:	748110F000001
FVIN version:	V0.1

Operation Frequency each of channel

Channel	Channel Frequency Channel Frequency Channel Frequency							
Charmer	Frequency	Charmer	Frequency	Chamilei	Frequency	Charmer	Frequency	
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz	
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz	
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz	
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz	
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz	
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz	
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz	
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz	
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz	
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz	
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz	
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz	
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz	



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14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Selected Test Channel			
Channel	Frequency		
The lowest channel (CH0)	2402MHz		
The middle channel (C39)	2441MHz		
The highest channel (CH78)	2480MHz		

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadieted newer	± 4.5dB (Below 1GHz)
1	RF Radiated power	± 4.8dB (Above 1GHz)
0	Dedicted Couriers engineers test	± 4.5dB (Below 1GHz)
8	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1°C
10	Humidity test	± 3%
11	Supply voltages	± 1%
12	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

4.7 Abnormalities from Standard Conditions



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Equipment List 5

RF Conducted					
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	2019-07-11	2020-07-10
Coaxial Cable				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	
Capyiol Cable	202	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	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							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12		
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08		
BiConiLog Antenna	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26		
(26-3000MHz)	E13-Liliugieli	31420	3E10003-01	2020-06-26	2023-06-25		
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019-09-24	2020-09-23		
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10		
Coaxial Cable	363	IN/A	3EIVIU20-U I	2020-07-10	2021-07-09		

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
(26-3000MHz)	E 13-LINDGREN	31420	SEIVIUU3-U I	2020-06-26	2023-06-25
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	202	NI/A	SEM025-01	2019-07-11	2020-07-10
Coaxial Cable	SGS N/A		3EIVIU25-U I	2020-07-10	2021-07-09



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General used equipmen	t				
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 -2dBi.

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

Conducted Peak Output Power

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

Limit: ≤20.97dBm



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 29.2 °C Atmospheric Pressure: 1005 mbar Humidity: 41.1 % RH

Test mode: b:TX non-Hop mode(Left earphone) Keep the EUT in continuously transmitting

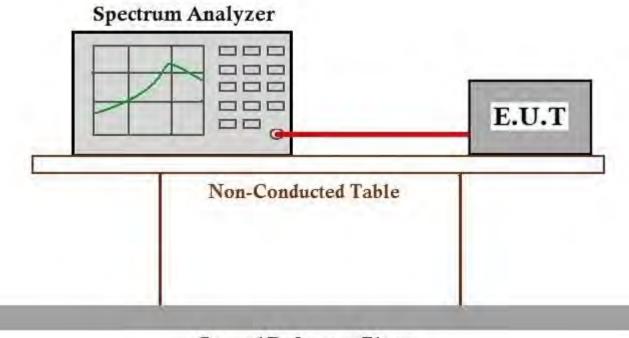
mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

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

d:TX_non-Hop mode(Right earphone)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK 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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 41.1 % RH Atmospheric Pressure: 1005 mbar

Test mode: b:TX_non-Hop mode(Left earphone)_Keep the EUT in continuously transmitting

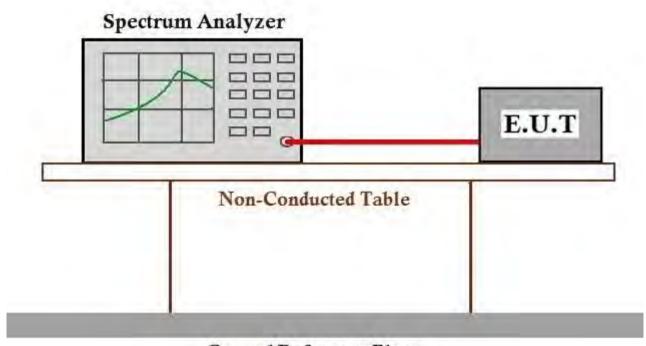
mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

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

d:TX non-Hop mode(Right earphone) Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK 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: 29.2 °C % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: a:TX Hop mode(Left earphone) Keep the EUT in frequency hopping mode with

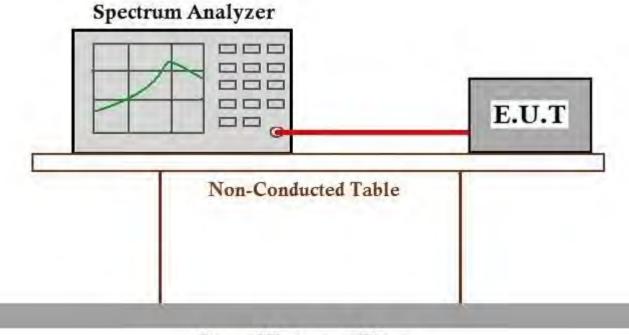
GFSK modulation, π/4DQPSK modulation. All modes have been tested and only

the data of worst case is recorded in the report.

c:TX Hop mode(Right earphone) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK 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
902-928	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: 29.2 °C % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: a:TX Hop mode(Left earphone) Keep the EUT in frequency hopping mode with

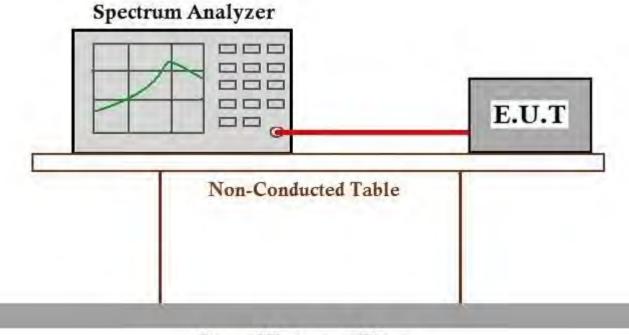
GFSK modulation, π/4DQPSK modulation. All modes have been tested and only

the data of worst case is recorded in the report.

c:TX Hop mode(Right earphone) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK 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)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400 2492 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: 29.2 °C % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: a:TX Hop mode(Left earphone) Keep the EUT in frequency hopping mode with

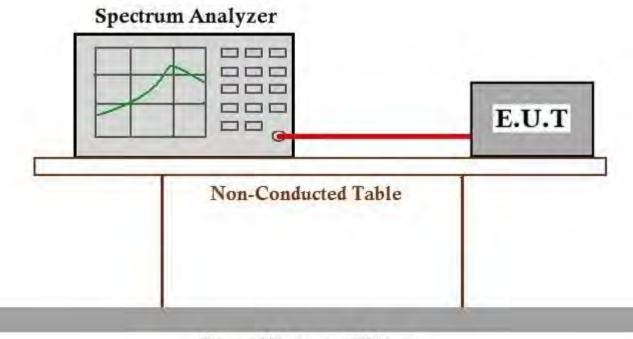
GFSK modulation, π/4DQPSK modulation. All modes have been tested and only

the data of worst case is recorded in the report.

c:TX Hop mode(Right earphone) Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK 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) Test Method: ANSI C63.10 (2013) Section 7.8.6

In any 100 kHz bandwidth outside the frequency band in which the spread Limit:

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

§15.209(a) (see §15.205(c)

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 29.2 °C Humidity: 41 % RH Atmospheric Pressure: 1005 mbar

Test mode: a:TX Hop mode(Left earphone) Keep the EUT in frequency hopping mode with

GFSK modulation, π/4DQPSK modulation. All modes have been tested and only

the data of worst case is recorded in the report.

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

c:TX_Hop mode(Right earphone)_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested and only

the data of worst case is recorded in the report.

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



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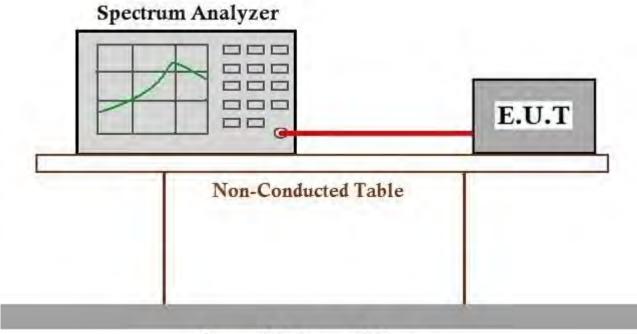
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7.6.2 Test Setup Diagram



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:

Temperature: 29.2 °C % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: b:TX non-Hop mode(Left earphone) Keep the EUT in continuously transmitting

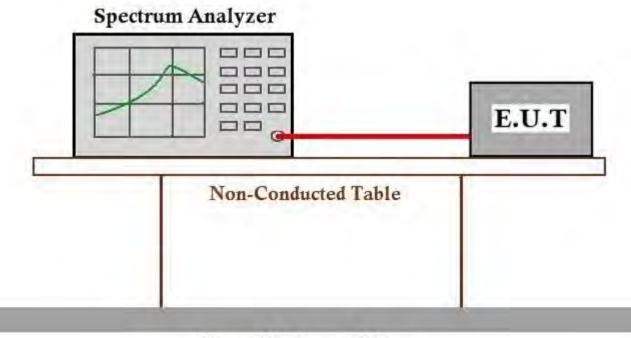
mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

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

d:TX_non-Hop mode(Right earphone)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK 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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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C 52.4 % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: b:TX non-Hop mode(Left earphone) Keep the EUT in continuously transmitting

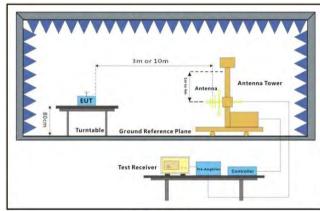
mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

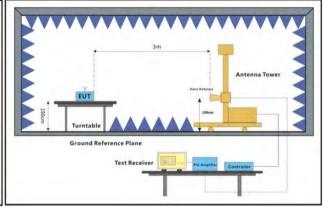
and only the data of worst case is recorded in the report.

d:TX_non-Hop mode(Right earphone)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

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

7.8.2 Test Setup Diagram





Above 1GHz 30MHz-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.

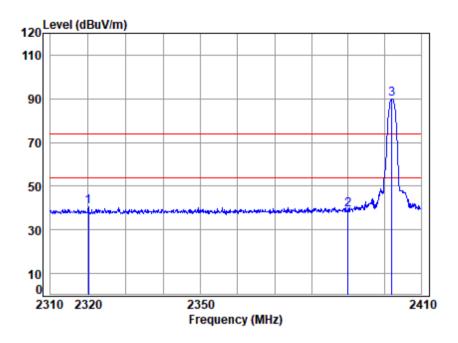




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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR Mode : 2402 Band edge

Note : BT L

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2320.105 2 2390.000 3 * 2402.000	4.34	28.52	40.97	47.30	39.19	74.00	-34.81	peak



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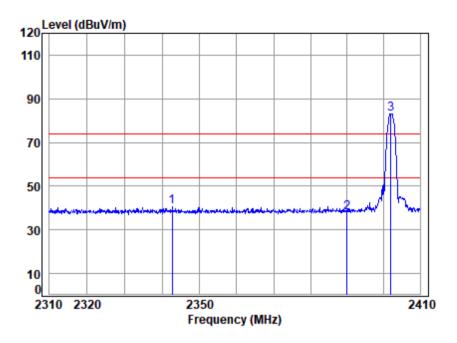
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 04835CR/04836CR Mode : 2402 Band edge

: BT I 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	2342.731	4.27	28.44	40.95	48.88	40.64	74.00	-33.36	peak	
2	2390.000	4.34	28.52	40.97	46.05	37.94	74.00	-36.06	peak	
3 *	2402.000	4.36	28.54	40.98	91.33	83.25	74.00	9.25	peak	



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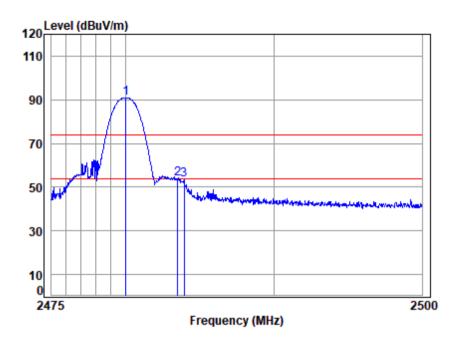
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR Mode : 2480 Band edge

Note : BT L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2480.000 2483.500 2483.921	4.49	28.67	41.01	61.83	53.98	74.00	-20.02	peak



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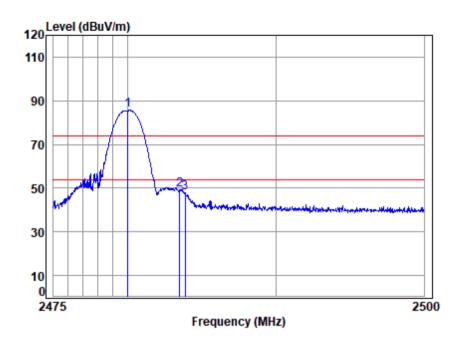
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04835CR/04836CR Mode : 2480 Band edge

Note : BT L

Frea			Preamp Factor					Remark
MHz			dB				dB	
1 * 2480.000 2 2483.500 3 2483.871	4.49	28.67	41.01	57.25	49.40	74.00	-24.60	peak



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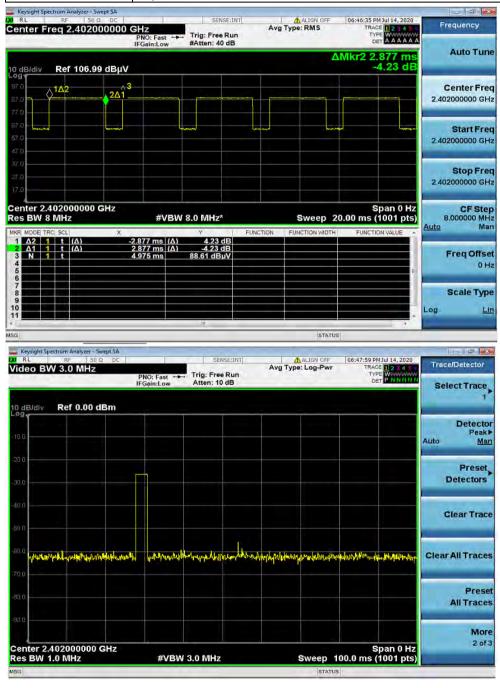


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Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)= 20 log(2.877/100)=-30.82dB
	Duty cycle= T on time / T period
Test data:	T_{on} time = =2.877ms
	T period =100ms





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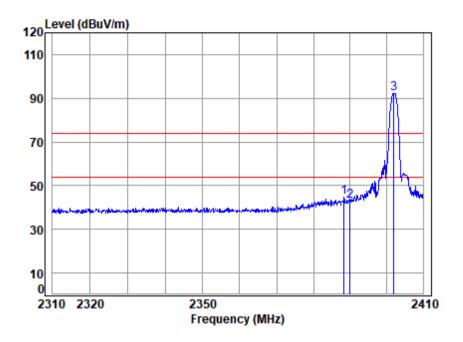
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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04835CR/04836CR Job No Mode : 2402 Band edge

· RT R Note

_	. 01	IX.							
		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	
	2388.343	4.34	28.52	40.97	52.80	44.69	74.00	-29.31	peak
	2390.000	4.34	28.52	40.97	51.10	42.99	74.00	-31.01	peak
*	2402.000	4.36	28.54	40.98	100.44	92.36	74.00	18.36	neak



1 2

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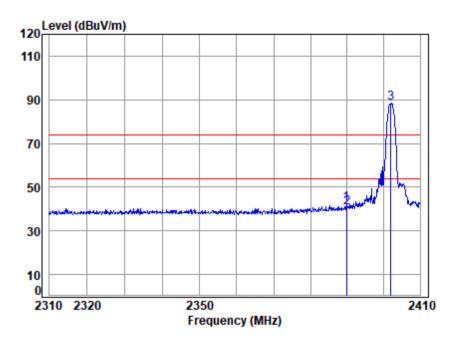
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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 04835CR/04836CR Mode : 2402 Band edge

: BT R Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.761	4.34	28.52	40.97	50.32	42.21	74.00	-31.79	peak	
2	2390.000	4.34	28.52	40.97	48.65	40.54	74.00	-33.46	peak	
3 *	2402.000	4.36	28.54	40.98	96.40	88.32	74.00	14.32	peak	



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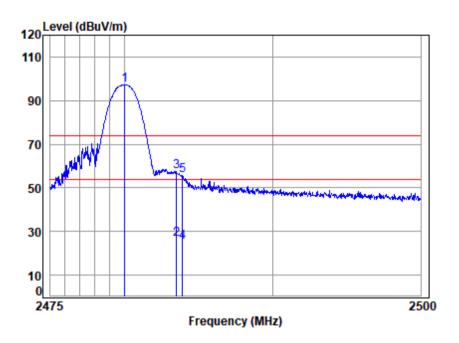
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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR Mode : 2480 Band edge

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	104.93	97.08	74.00	23.08	peak
2	2483.500	4.49	28.67	41.01	34.47	26.62	54.00	-27.38	Average
3	2483.500	4.49	28.67	41.01	65.29	57.44	74.00	-16.56	peak
4	2483.896	4.49	28.67	41.01	32.73	24.88	54.00	-29.12	Average
5	2483.896	4.49	28.67	41.01	63.55	55.70	74.00	-18.30	peak



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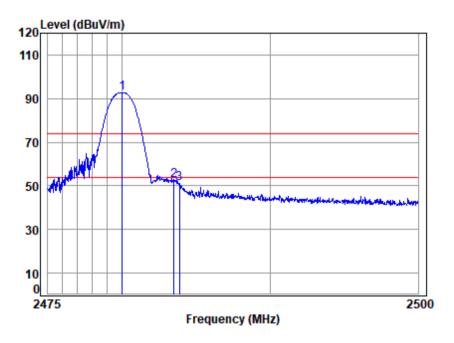
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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL : 04835CR/04836CR Mode : 2480 Band edge

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	100.48	92.63	74.00	18.63	peak
2	2483.500	4.49	28.67	41.01	60.17	52.32	74.00	-21.68	peak
3	2483.871	4.49	28.67	41.01	59.14	51.29	74.00	-22.71	peak



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7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 ANSI C63.10 (2013) Section 6.4,6.5,6.6 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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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C 58.4 % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode: b:TX non-Hop mode(Left earphone) Keep the EUT in continuously transmitting

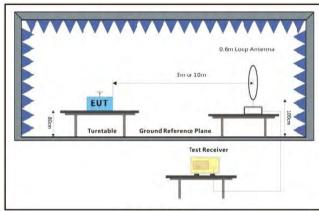
mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

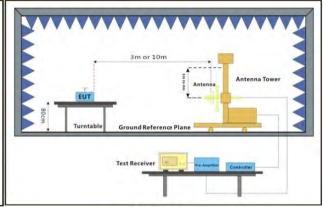
and only the data of worst case is recorded in the report.

d:TX_non-Hop mode(Right earphone)_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation. All modes have been tested

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

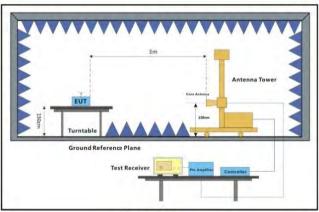
7.9.2 Test Setup Diagram





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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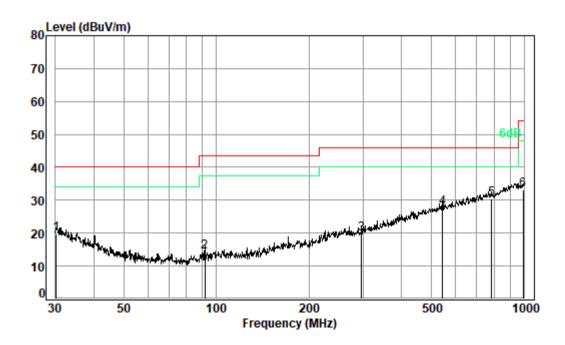


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Below 1GHz

Mode: b; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 04835CR

Test Mode: b

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	0.60	22.38	27.73	24.39	19.64	40.00	-20.36	QP
2	91.82	1.12	13.27	27.62	27.43	14.20	43.50	-29.30	QP
3	296.18	1.88	19.45	26.88	25.46	19.91	46.00	-26.09	QP
4	543.27	2.65	25.51	27.95	27.54	27.75	46.00	-18.25	QP
5 pp	785.09	3.16	28.42	27.76	26.73	30.55	46.00	-15.45	QP
6	993.01	3.69	30.27	26.69	25.82	33.09	54.00	-20.91	OP



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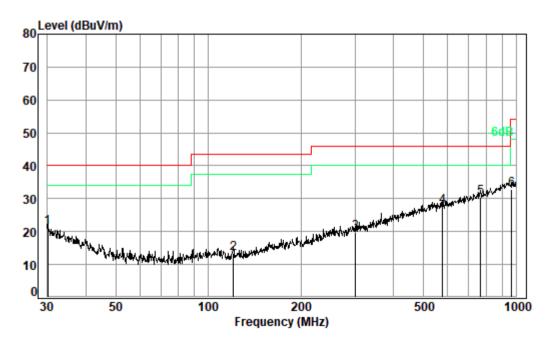
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Mode: b; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 04835CR

Test Mode: b

		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	20 11	0 60	22 44	27 74	26 02	21 22	40.00	10 60	OD
	30.11			27.74					•
2	120.70	1.25	13.12	27.48	26.40	13.29	43.50	-30.21	QP
3	300.37	1.90	19.61	26.87	25.02	19.66	46.00	-26.34	QP
4	576.64	2.68	26.16	28.06	26.78	27.56	46.00	-18.44	QP
5 pp	766.06	3.11	28.31	27.79	26.82	30.45	46.00	-15.55	QP
6	968 93	3 67	30 15	26 81	25 99	33 00	54 00	-21 00	OP



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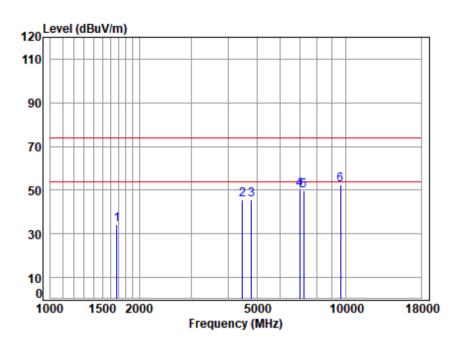


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR

Mode : 2402 TX SE

: BT L 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	1677.621	3.41	26.58	40.62	45.01	34.38	74.00	-39.62	peak
2	4469.214	6.73	33.55	42.53	48.09	45.84	74.00	-28.16	peak
3	4804.000	7.10	33.97	42.77	47.53	45.83	74.00	-28.17	peak
4	6995.172	8.54	35.90	41.69	47.30	50.05	74.00	-23.95	peak
5	7206.000	8.74	36.07	41.58	46.63	49.86	74.00	-24.14	peak
6	9608.000	10.81	37.67	38.57	42.69	52.60	74.00	-21.40	peak



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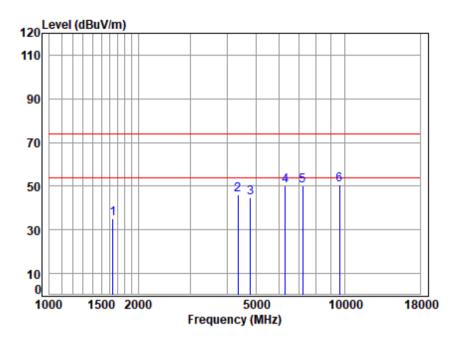
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Report No.: SZEM200600483502

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



Site : chamber

Condition: 3m VERTICAL : 04835CR/04836CR

Mode : 2402 TX SE

: BT I Note

Job No

IO CC									
		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	1639.274	3.38	26.42	40.59	45.71	34.92	74.00	-39.08	peak
2	4354.454	6.63	33.35	42.44	48.42	45.96	74.00	-28.04	peak
3	4804.000	7.10	33.97	42.77	46.22	44.52	74.00	-29.48	peak
4	6303.890	8.27	35.41	42.06	48.55	50.17	74.00	-23.83	peak
5	7206.000	8.74	36.07	41.58	47.15	50.38	74.00	-23.62	peak
6	9608.000	10.81	37.67	38.57	40.91	50.82	74.00	-23.18	peak



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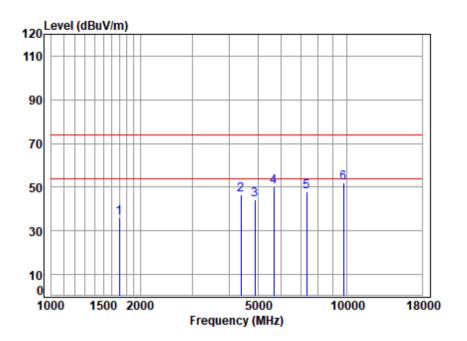
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR

Mode : 2441 TX SE

Note : BT L

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.43	26.66	40.63	46.61	36.07	74.00	-37.93	peak
2	4379.699	6.65	33.39	42.46	48.86	46.44	74.00	-27.56	peak
3	4882.000	7.18	34.06	42.82	45.88	44.30	74.00	-29.70	peak
4	5664.525	8.21	34.77	42.45	49.85	50.38	74.00	-23.62	peak
5	7323.000	8.85	36.16	41.52	44.60	48.09	74.00	-25.91	peak
6	9764,000	10.76	37.76	38.34	41.93	52.11	74.00	-21.89	peak



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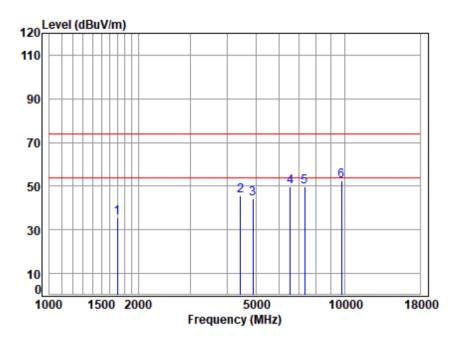
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 04835CR/04836CR

Mode : 2441 TX SE

: BT L 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	1702.042	3.43	26.68	40.63	45.89	35.37	74.00	-38.63	peak
2	4430.628	6.70	33.48	42.50	48.16	45.84	74.00	-28.16	peak
3	4882.000	7.18	34.06	42.82	46.00	44.42	74.00	-29.58	peak
4	6545.263	8.30	35.63	41.93	47.54	49.54	74.00	-24.46	peak
5	7323.000	8.85	36.16	41.52	46.11	49.60	74.00	-24.40	peak
6	9764.000	10.76	37.76	38.34	42.50	52.68	74.00	-21.32	peak



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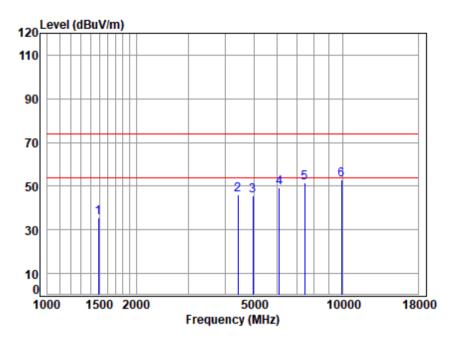
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR

Mode : 2480 TX SE

Note : BT L

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1490.142	3.25	25.76	40.50	47.08	35.59	74.00	-38.41	peak
2	4417.841	6.68	33.46	42.49	48.54	46.19	74.00	-27.81	peak
3	4960.000	7.26	34.15	42.87	46.89	45.43	74.00	-28.57	peak
4	6106.616	8.26	35.21	42.18	47.93	49.22	74.00	-24.78	peak
5	7440.000	8.96	36.25	41.46	47.89	51.64	74.00	-22.36	peak
6	9920.000	10.71	37.85	38.12	42.70	53.14	74.00	-20.86	peak



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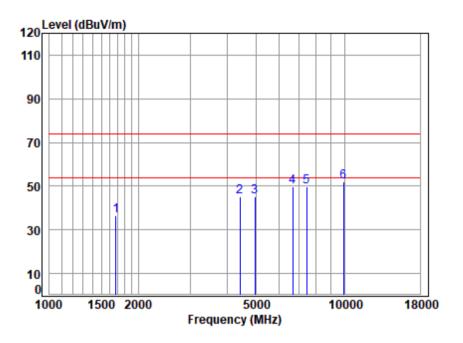
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 04835CR/04836CR

Mode : 2480 TX SE

: BT I 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	d Bu V/m	dB	
1	1682.477	3.42	26.60	40.62	47.11	36.51	74.00	-37.49	peak
2	4417.841	6.68	33.46	42.49	47.70	45.35	74.00	-28.65	peak
3	4960.000	7.26	34.15	42.87	46.59	45.13	74.00	-28.87	peak
4	6679.040	8.38	35.71	41.85	47.33	49.57	74.00	-24.43	peak
5	7440.000	8.96	36.25	41.46	45.86	49.61	74.00	-24.39	peak
6	9920.000	10.71	37.85	38.12	41.58	52.02	74.00	-21.98	peak



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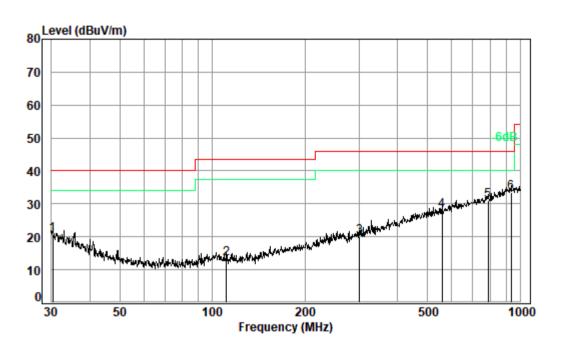


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Below 1GHz

Mode: d; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 04835CR

Test Mode: d

_											
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	_										
	1	30.32	0.60	22.32	27.73	25.53	20.72	40.00	-19.28	QP	
	2	110.96	1.23	13.49	27.54	26.16	13.34	43.50	-30.16	QP	
	3	300.37	1.90	19.61	26.87	25.35	19.99	46.00	-26.01	QP	
	4	558.73	2.66	25.82	28.00	27.36	27.84	46.00	-18.16	QP	
	5	787.85	3.17	28.43	27.75	27.10	30.95	46.00	-15.05	QP	
	6 nn	035 55	3 64	20 08	26 08	26 87	22 51	16 00	12 /0	ΛD	



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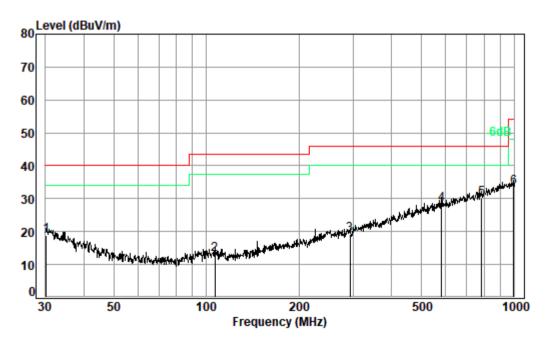
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Mode: d; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 04835CR

Test Mode: d

		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	
	20.04	0.60	20. 20	07.70	22.60	40.03	40.00	24 07	0.0
1				27.73					•
2	106.76	1.22	13.68	27.57	25.74	13.07	43.50	-30.43	QP
3	293.08	1.87	19.33	26.89	24.73	19.04	46.00	-26.96	QP
4	580.70	2.68	26.24	28.07	27.58	28.43	46.00	-17.57	QP
5 pp	785.09	3.16	28.42	27.76	26.41	30.23	46.00	-15.77	QP
6	996.50	3.70	30.28	26.68	26.23	33.53	54.00	-20.47	OP



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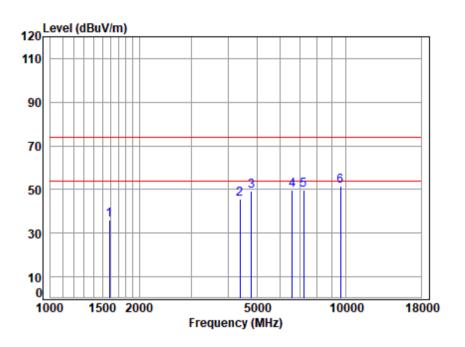


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL : 04835CR/04836CR

Mode : 2402 TX SE

: BT R Note

ote		IX.								
		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	1587.975	3.34	26.20	40.56	47.24	36.22	74.00	-37.78	peak	
2	4379.699	6.65	33.39	42.46	48.26	45.84	74.00	-28.16	peak	
3	4804.000	7.10	33.97	42.77	51.15	49.45	74.00	-24.55	peak	
4	6602.265	8.33	35.66	41.89	47.82	49.92	74.00	-24.08	peak	
5	7206.000	8.74	36.07	41.58	46.39	49.62	74.00	-24.38	peak	
6	9608,000	10.81	37.67	38.57	41.51	51.42	74.00	-22.58	neak	



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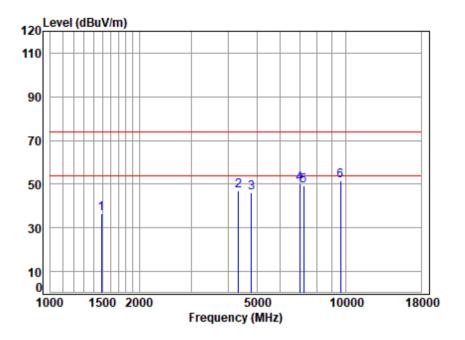
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Report No.: SZEM200600483502

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



Site : chamber

Condition: 3m VERTICAL

Job No : 04835CR/04836CR

Mode : 2402 TX SE

: BT R Note

000		11							
		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	1490.142	3.25	25.76	40.50	48.03	36.54	74.00	-37.46	peak
2	4329.354	6.60	33.30	42.42	49.42	46.90	74.00	-27.10	peak
3	4804.000	7.10	33.97	42.77	47.73	46.03	74.00	-27.97	peak
4	6995.172	8.54	35.90	41.69	47.43	50.18	74.00	-23.82	peak
5	7206.000	8.74	36.07	41.58	45.93	49.16	74.00	-24.84	peak
6	9608.000	10.81	37.67	38.57	41.86	51.77	74.00	-22.23	peak



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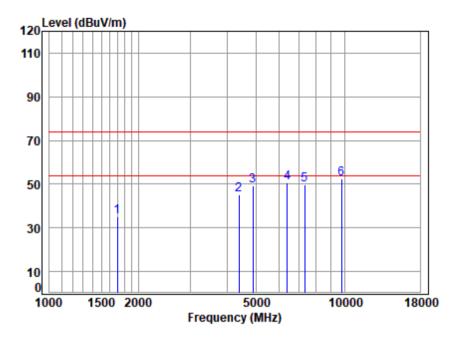
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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR

Mode : 2441 TX SE

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.43	26.66	40.63	45.47	34.93	74.00	-39.07	peak
2	4392.376	6.66	33.42	42.47	47.60	45.21	74.00	-28.79	peak
3	4882.000	7.18	34.06	42.82	50.93	49.35	74.00	-24.65	peak
4	6395.654	8.28	35.50	42.01	48.84	50.61	74.00	-23.39	peak
5	7323.000	8.85	36.16	41.52	46.37	49.86	74.00	-24.14	peak
6	9764.000	10.76	37.76	38.34	42.26	52.44	74.00	-21.56	peak



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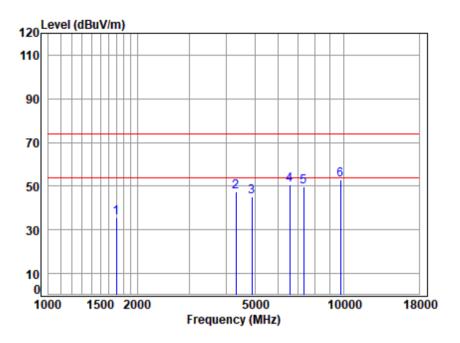
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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 04835CR/04836CR

Mode : 2441 TX SE

Note : BT R

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	1702.042	3.43	26.68	40.63	46.30	35.78	74.00	-38.22	peak
2	4316.859	6.59	33.28	42.41	49.80	47.26	74.00	-26.74	peak
3	4882.000	7.18	34.06	42.82	46.67	45.09	74.00	-28.91	peak
4	6564.209	8.31	35.64	41.92	48.69	50.72	74.00	-23.28	peak
5	7323.000	8.85	36.16	41.52	46.39	49.88	74.00	-24.12	peak
6	9764.000	10.76	37.76	38.34	42.54	52.72	74.00	-21.28	peak



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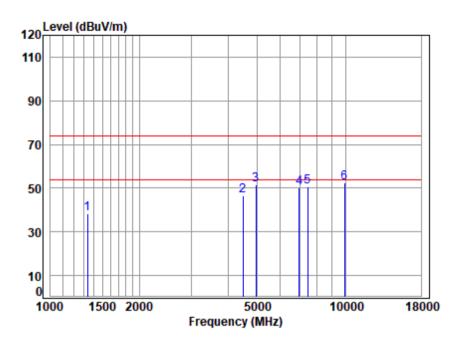
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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 04835CR/04836CR

Mode : 2480 TX SE

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	40.39	50.63	38.41	74.00	-35.59	peak
2	4482.150	6.74	33.57	42.54	48.78	46.55	74.00	-27.45	peak
3	4960.000	7.26	34.15	42.87	53.12	51.66	74.00	-22.34	peak
4	6954.852	8.52	35.87	41.71	47.53	50.21	74.00	-23.79	peak
5	7440.000	8.96	36.25	41.46	46.87	50.62	74.00	-23.38	peak
6	9920.000	10.71	37.85	38.12	42.04	52.48	74.00	-21.52	peak



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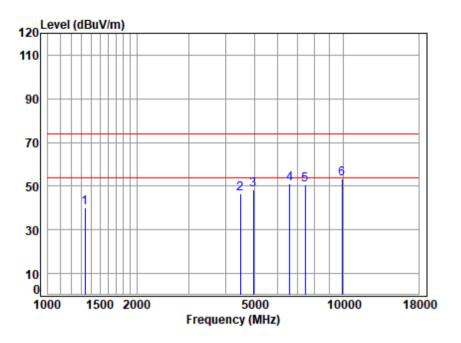
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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL : 04835CR/04836CR

Mode : 2480 TX SE

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3 00	25 17	10 39	52 38	<i>1</i> 0 16	7/ 00	_33 8/	neak
2	4495.125								•
3	4960.000								•
4	6583.209								•
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	43.02	53.46	74.00	-20.54	neak



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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 for 15.247—Left

1. Bandwidth

1.1 Test Result

Test Mode	Frequency	TX Type	ANT No.	20dB Bandwidth	Verdict
1 est Mode	(MHz)	17 Type	ANTINO.	Test Result (MHz)	Verdict
	2402	SISO	1	0.805	PASS
GFSK	2441	SISO	1	0.805	PASS
	2480	SISO	1	0.805	PASS
	2402	SISO	1	1.218	PASS
Pi/4DQPSK	2441	SISO	1	1.215	PASS
	2480	SISO	1	1.217	PASS

T4 N41 -	Frequency	TV Type	ANT No.	99% Occupied Bandwidth				
Test Mode	(MHz)	TX Type		Test Res	ult (MHz)			
	2402	SISO	1	0.811	Only for Report Use			
GFSK	2441	SISO	1	0.818	Only for Report Use			
	2480	SISO	1	0.825	Only for Report Use			
	2402	SISO	1	1.165	Only for Report Use			
Pi/4DQPSK	2441	SISO	1	1.166	Only for Report Use			
	2480	SISO	1	1.164	Only for Report Use			



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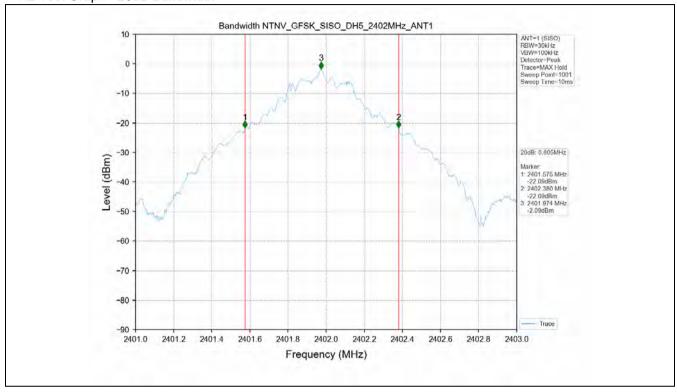
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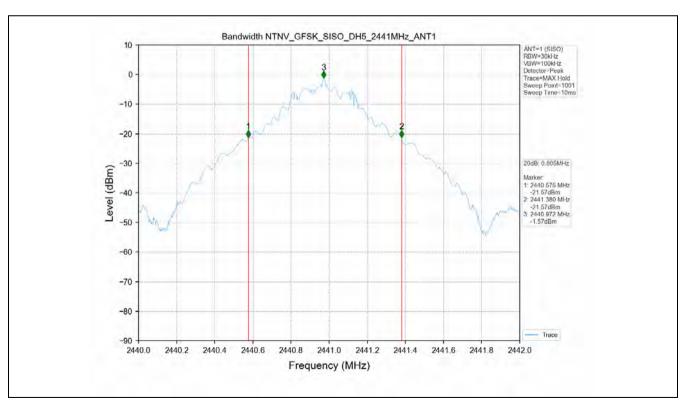


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1.2 Test Graph - 20dB Bandwidth







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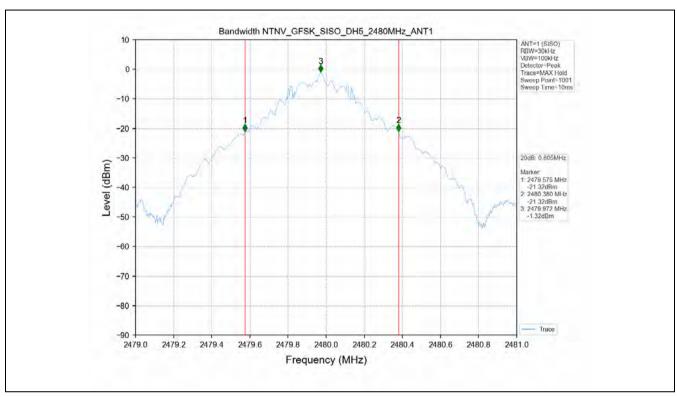
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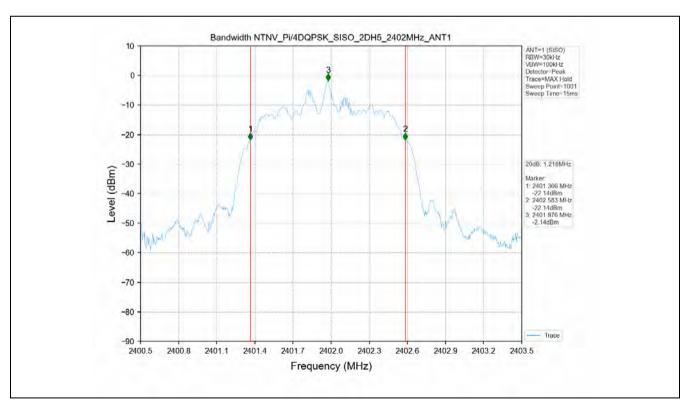
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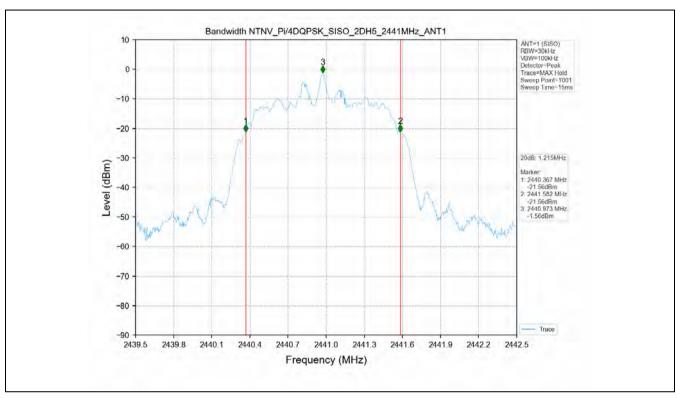
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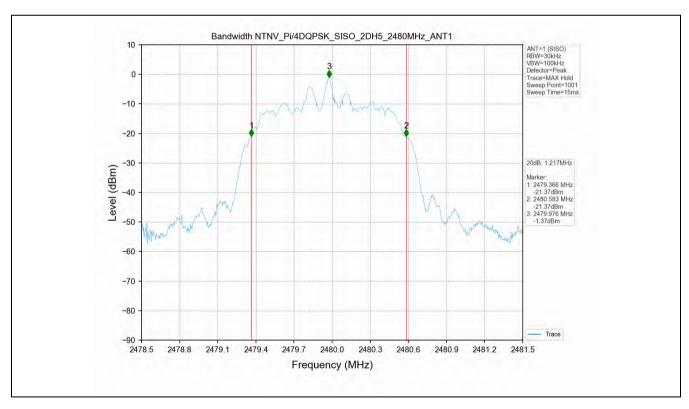
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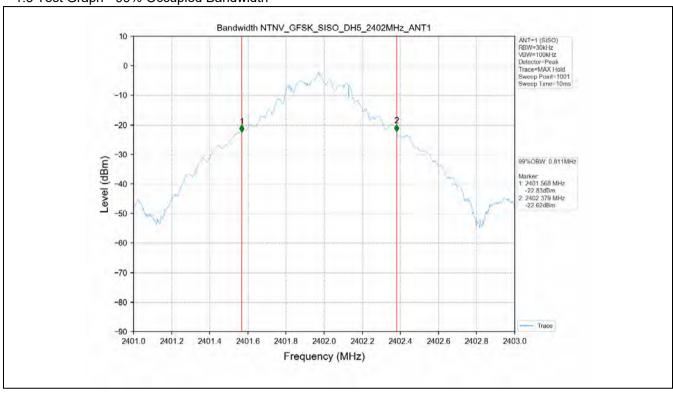
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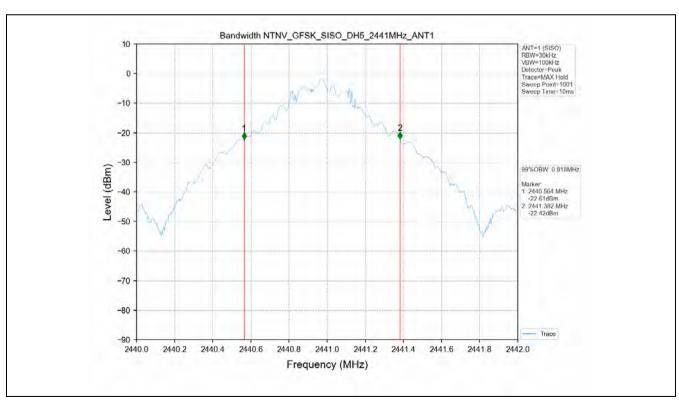


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1.3 Test Graph - 99% Occupied Bandwidth







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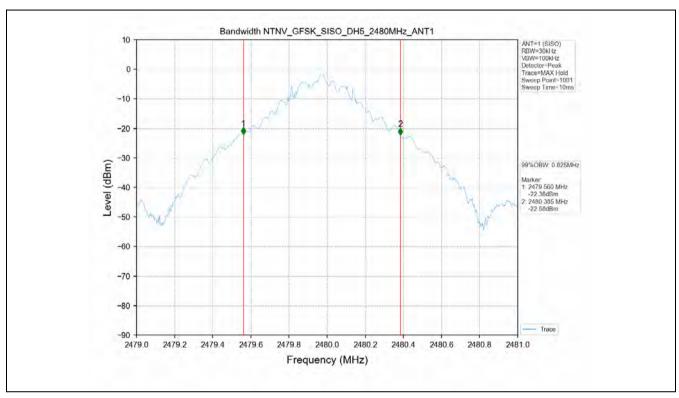
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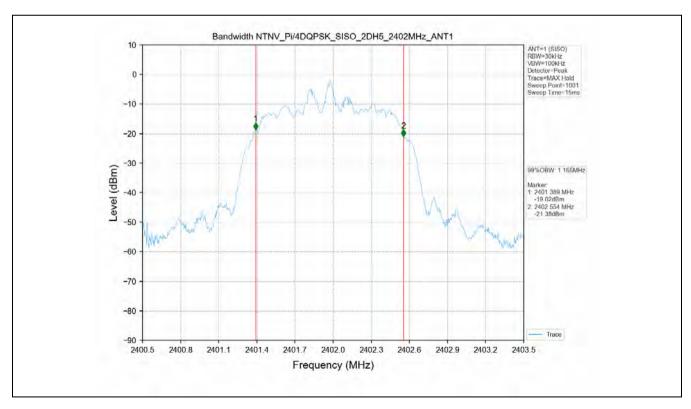
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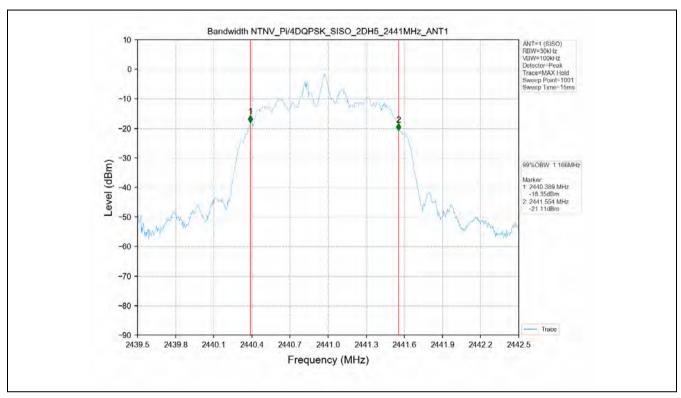
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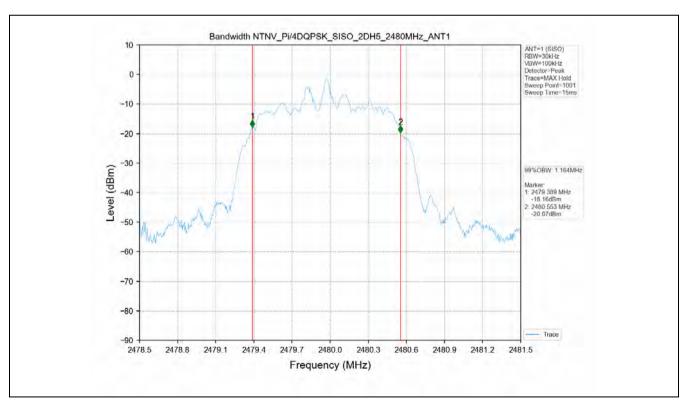
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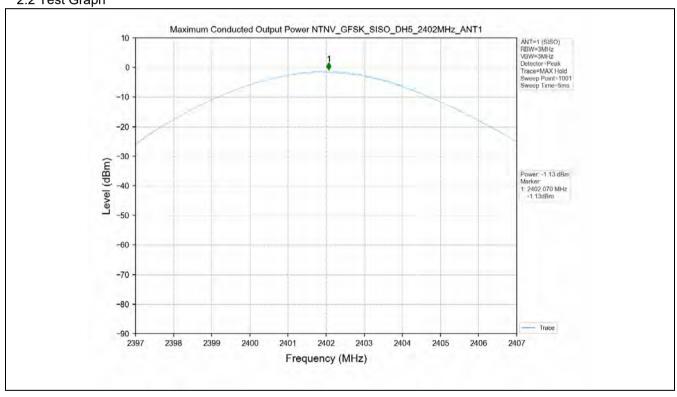
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Power Set	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	10	-1.13	20.97	PASS
GFSK	2441	10	-0.61	20.97	PASS
	2480	10	-0.33	20.97	PASS
	2402	10	-0.85	20.97	PASS
Pi/4DQPSK	2441	10	-0.33	20.97	PASS
	2480	10	-0.01	20.97	PASS

2.2 Test Graph





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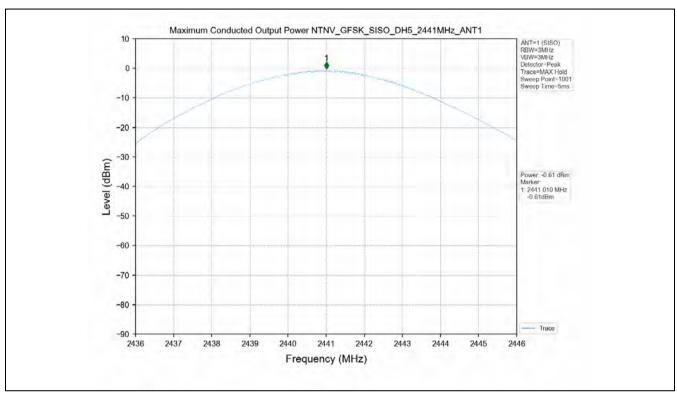
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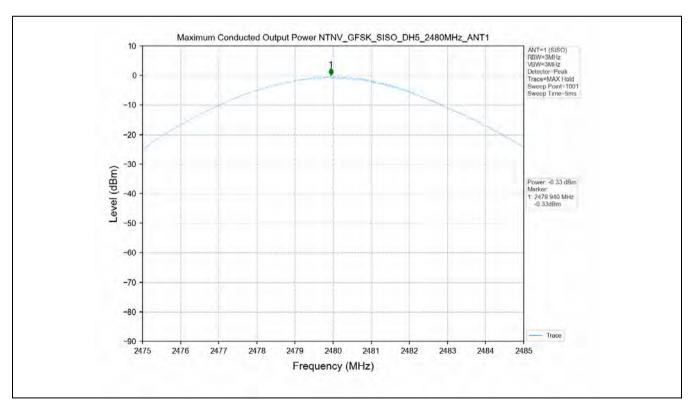
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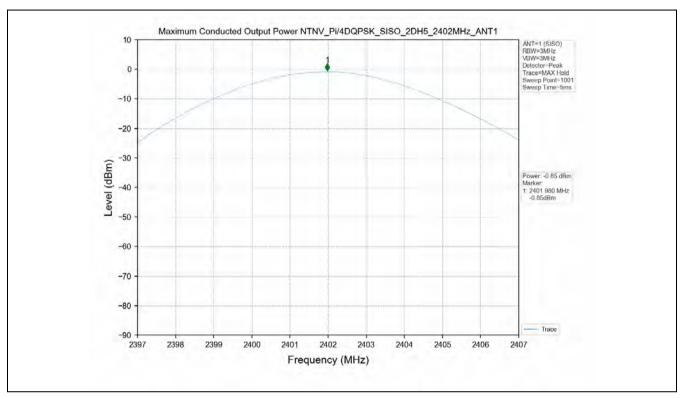
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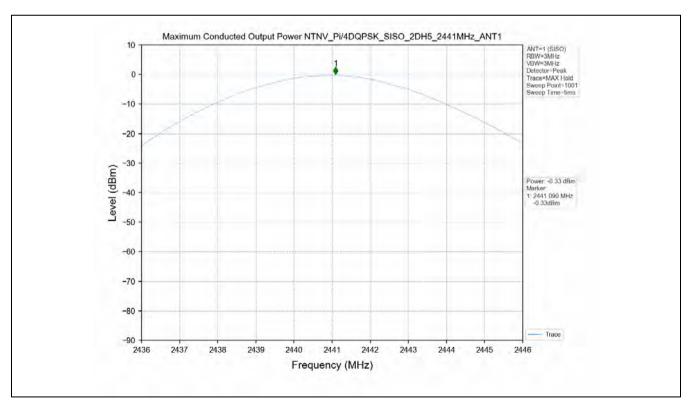
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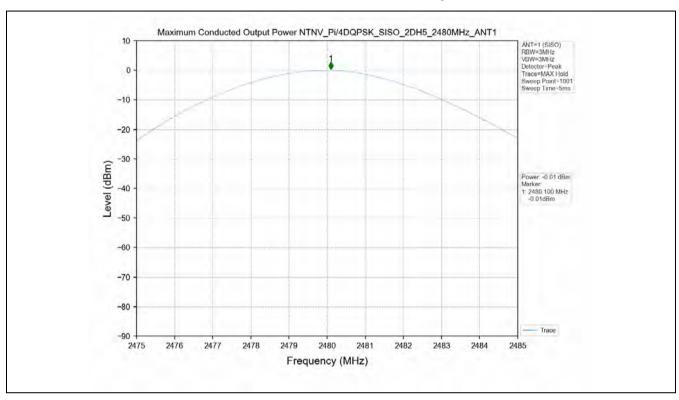
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3. Carrier frequency separation

3.1 Test Result

Test Mode	ТХ Туре	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.975	0.805	≥0.805	PASS
Pi/4DQPSK	SISO	1	0.978	1.218	≥0.812	PASS



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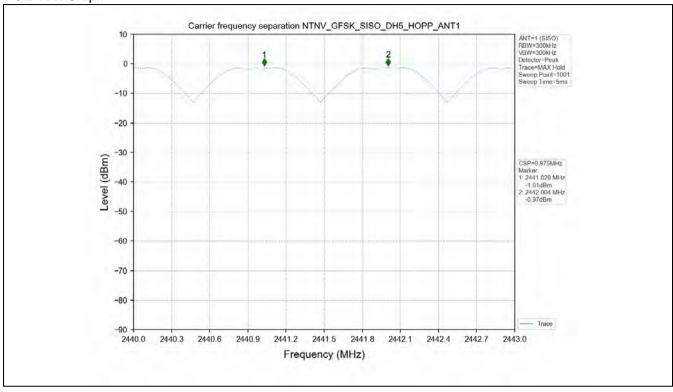
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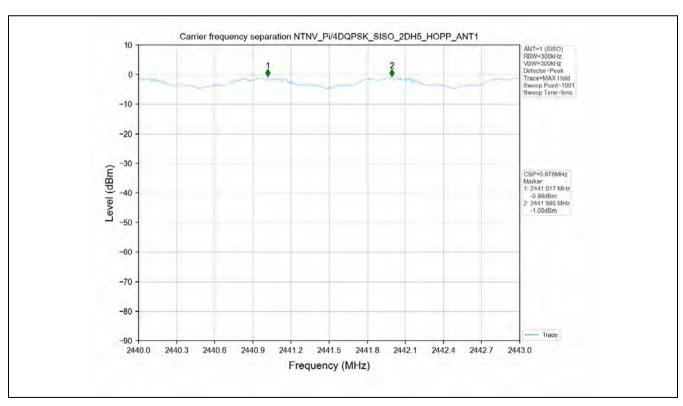


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3.2 Test Graph







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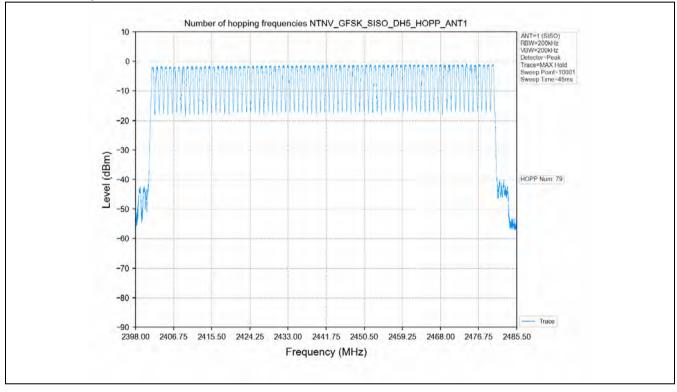
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4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph





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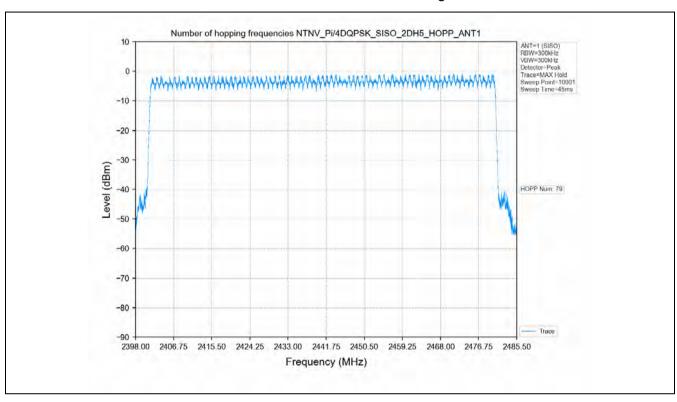
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5. Time of Occupancy (Dwell Time)

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
GFSK	DH1	SISO	1	0.424	31.6	317	134.408	≤400	PASS
	DH3	SISO	1	1.680	31.6	166	278.880	≤400	PASS
	DH5	SISO	1	2.927	31.6	89	260.503	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.433	31.6	320	138.560	≤400	PASS
	2DH3	SISO	1	1.686	31.6	155	261.330	≤400	PASS
	2DH5	SISO	1	2.934	31.6	109	319.806	≤400	PASS



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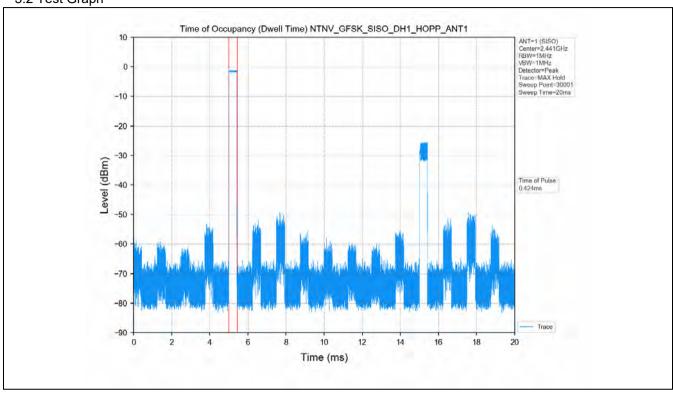
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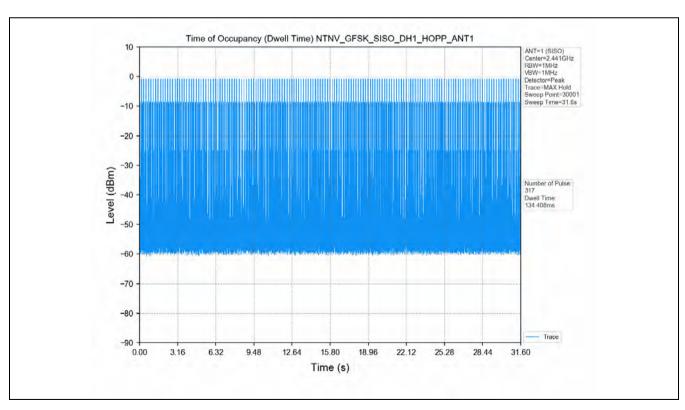


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5.2 Test Graph







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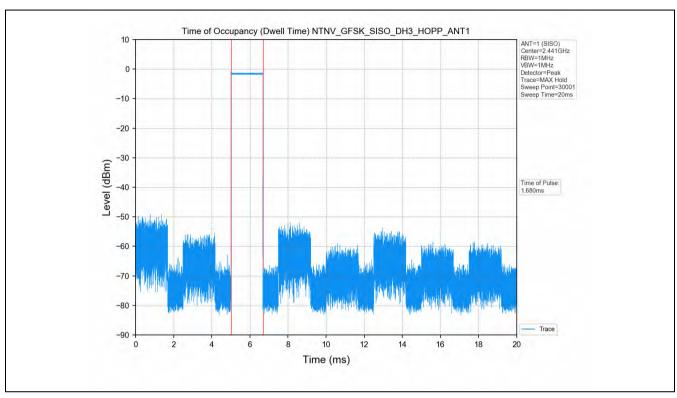
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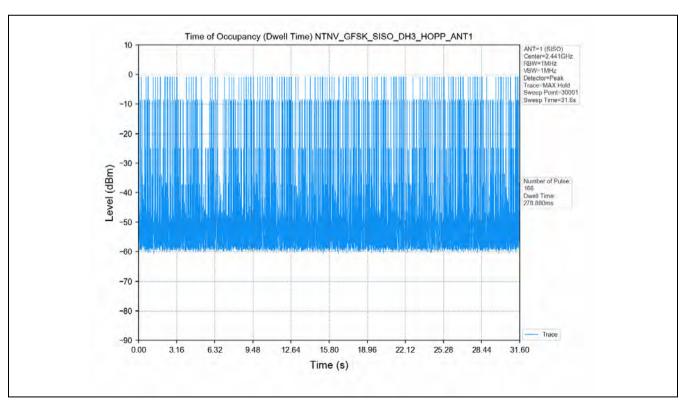
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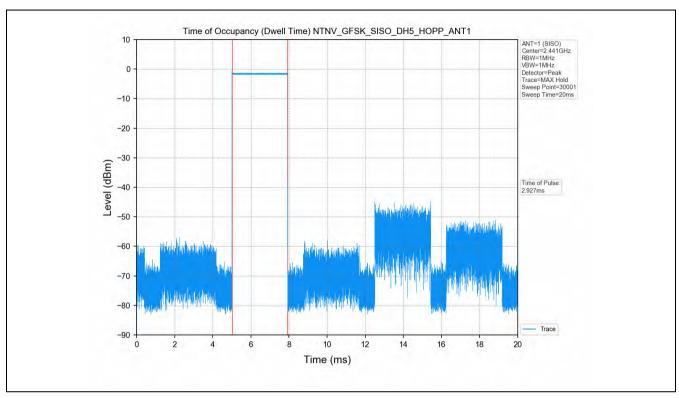
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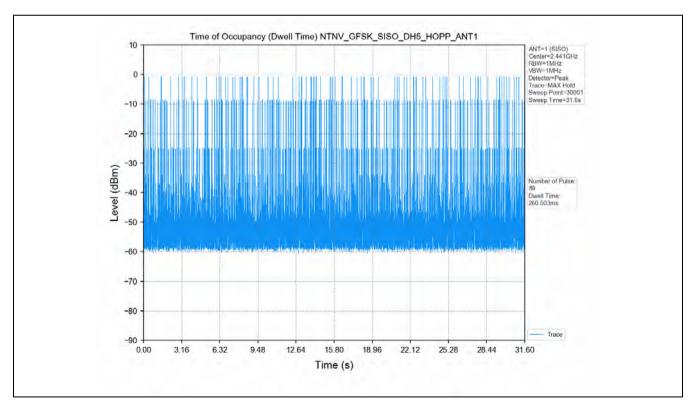
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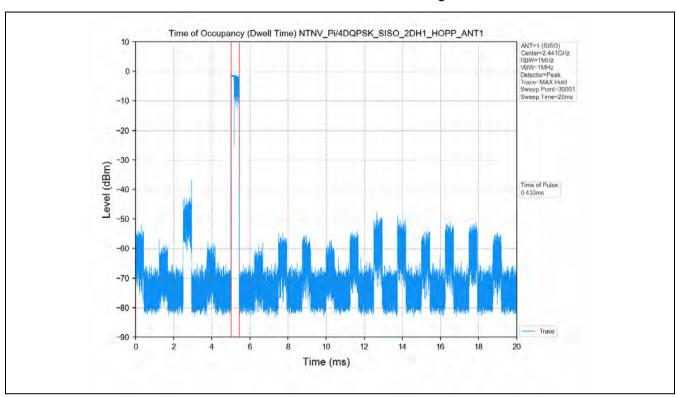
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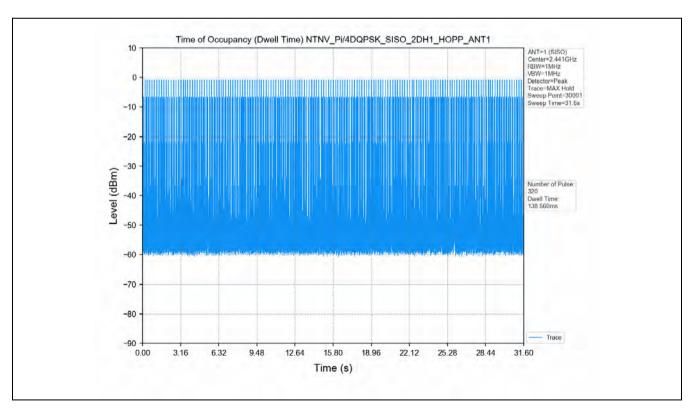
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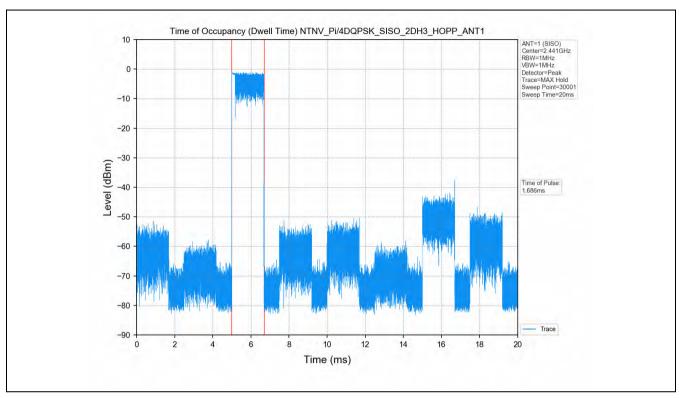
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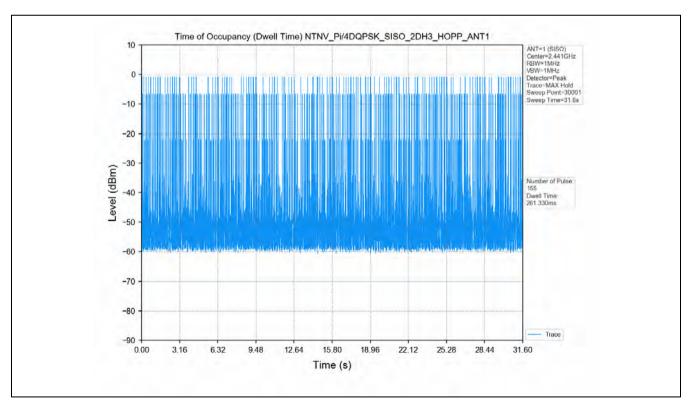
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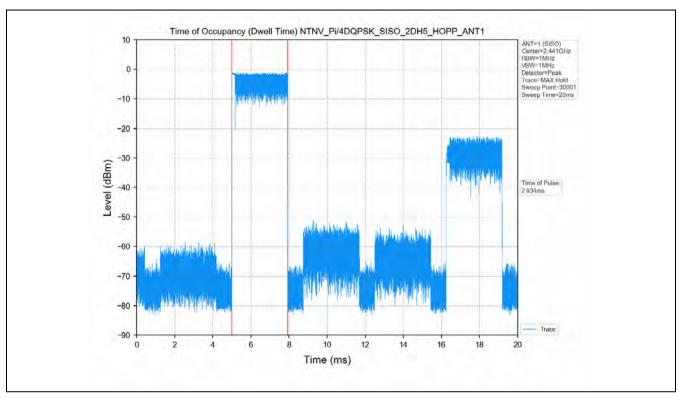
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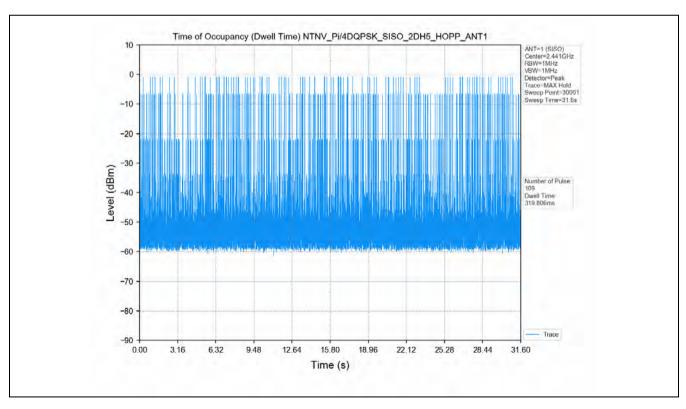
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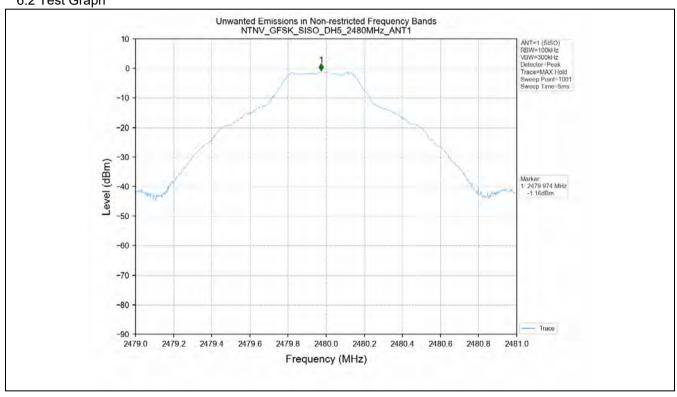
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6. Unwanted Emissions in Non-restricted Frequency Bands

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	-21.16	PASS
CECK	2441	SISO	1	Refer to test graph	-21.16	PASS
GFSK	2480	SISO	1	Refer to test graph	-21.16	PASS
	Hopping	SISO	1	Refer to test graph	-21.16	PASS
	2402	SISO	1	Refer to test graph	-21.18	PASS
Pi/4DQPSK	2441	SISO	1	Refer to test graph	-21.18	PASS
	2480	SISO	1	Refer to test graph	-21.18	PASS
	Hopping	SISO	1	Refer to test graph	-21.18	PASS

6.2 Test Graph





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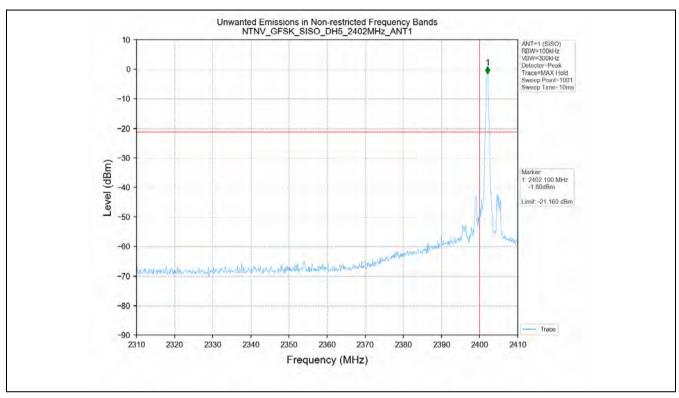
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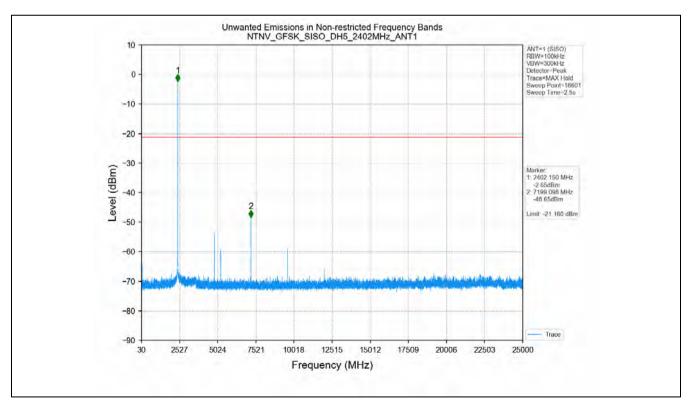
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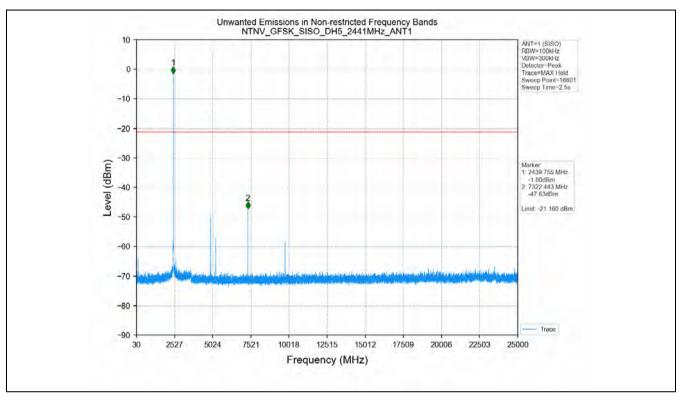
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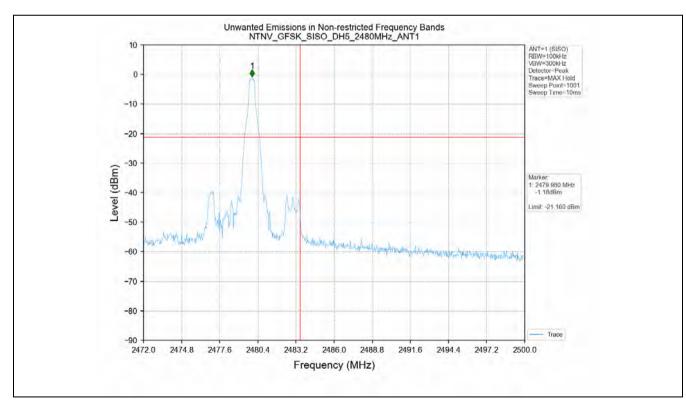
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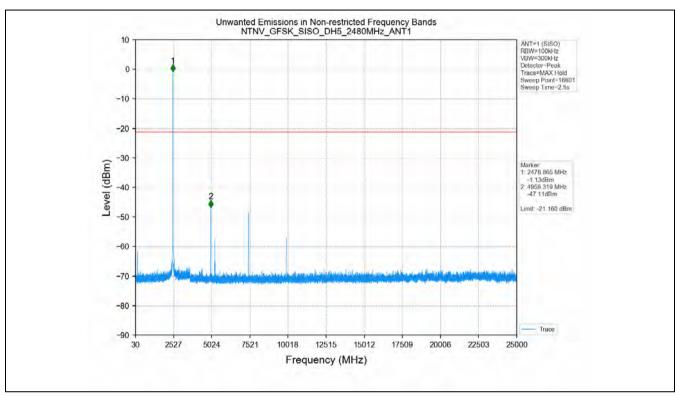
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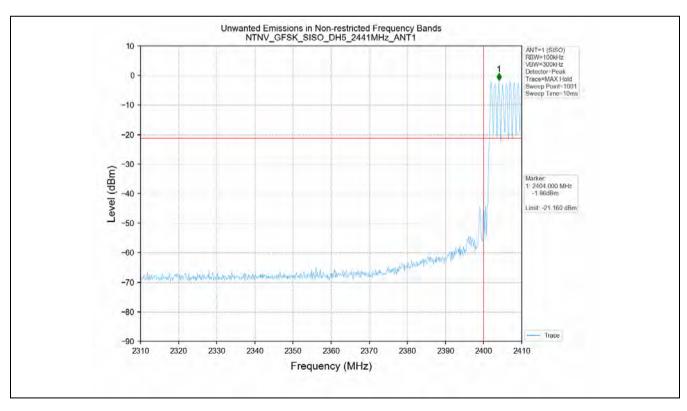
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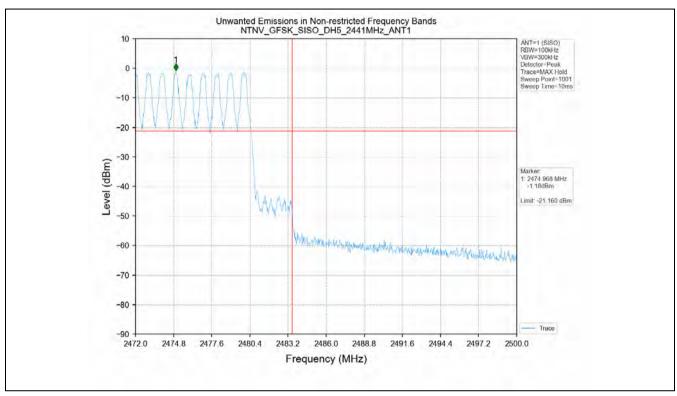
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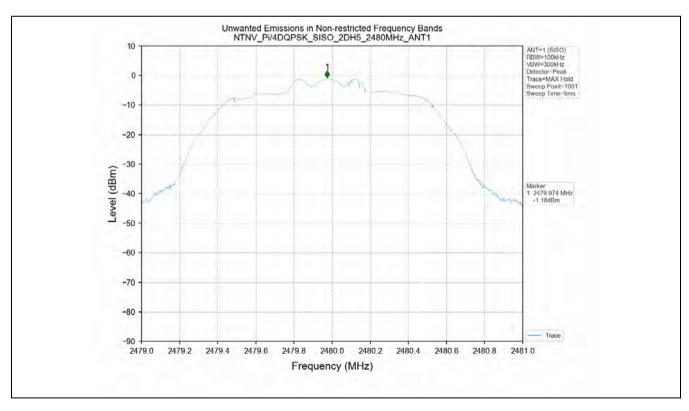
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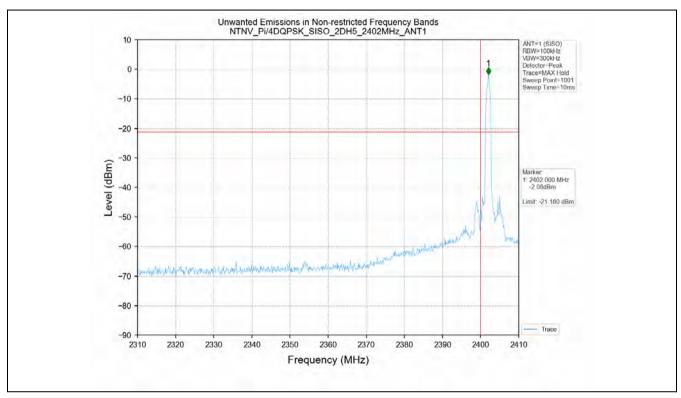
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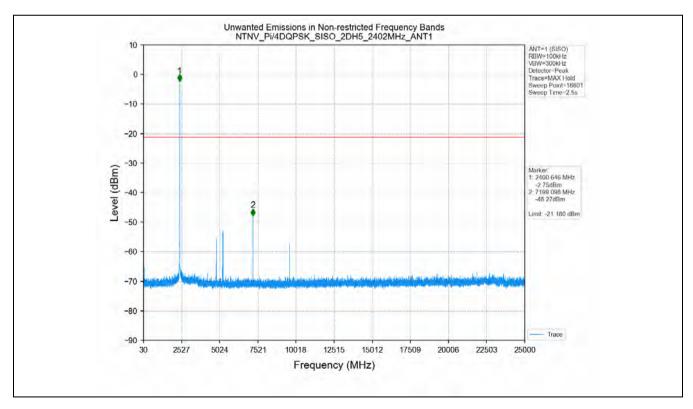
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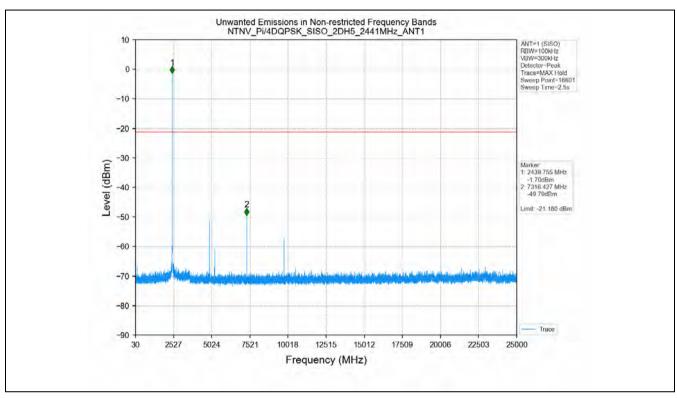
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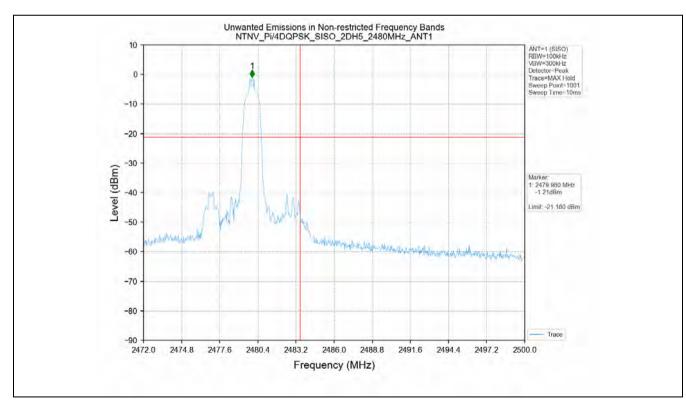
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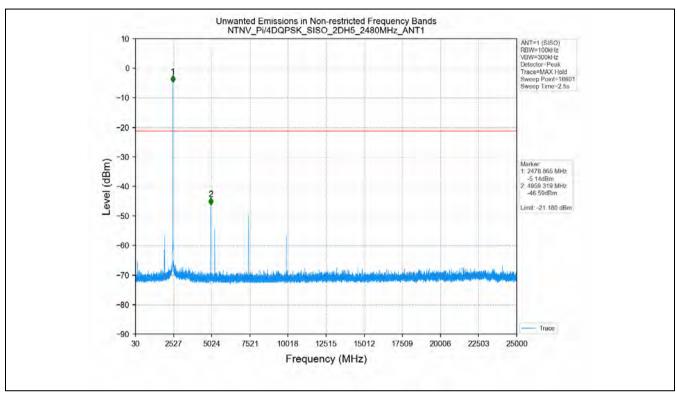
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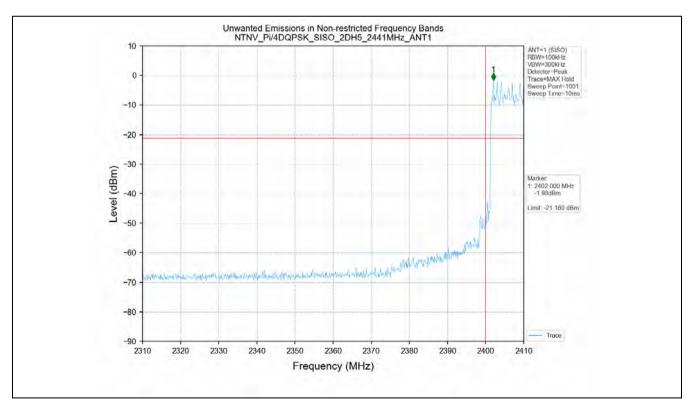
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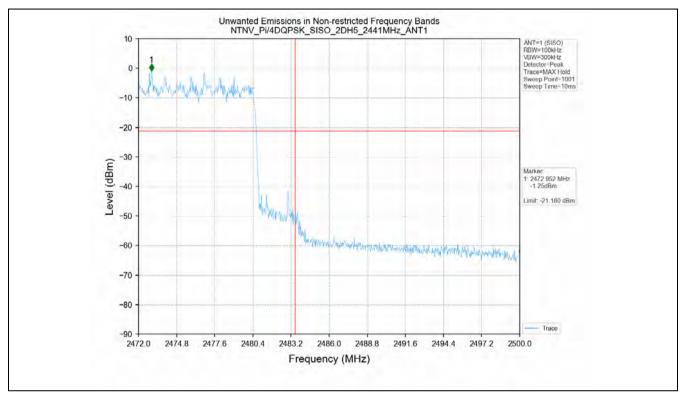
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9.2 Appendix for 15.247—Right

1. Bandwidth

1.1 Test Result

Test Mode	Frequency	TV Turns	ANT No	20dB Bandwidth	Verdict
	(MHz)	TX Type	ANT No.	Test Result (MHz)	verdict
GFSK	2402	SISO	1	0.805	PASS
	2441	SISO	1	0.804	PASS
	2480	SISO	1	0.806	PASS
	2402	SISO	1	1.217	PASS
Pi/4DQPSK	2441	SISO	1	1.218	PASS
	2480	SISO	1	1.218	PASS

Test Mode	Frequency	TV T	ANT No.	99% Occupied Bandwidth Test Result (MHz)			
	(MHz)	TX Type					
	2402	SISO	1	0.810	Only for Report Use		
GFSK	2441	SISO	1	0.816	Only for Report Use		
	2480	SISO	1	0.821	Only for Report Use		
	2402	SISO	1	1.166	Only for Report Use		
Pi/4DQPSK	2441	SISO	1	1.166	Only for Report Use		
	2480	SISO	1	1.164	Only for Report Use		



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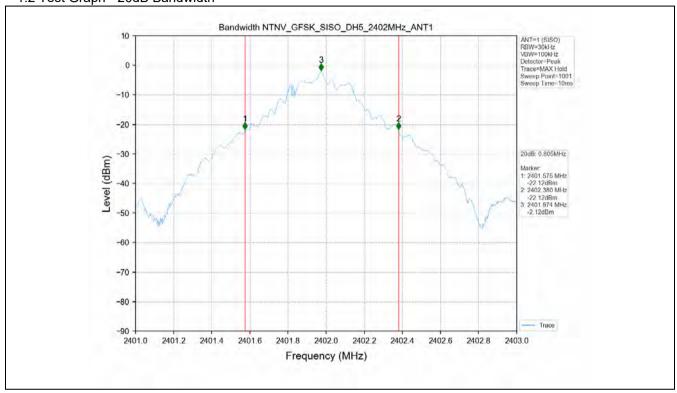
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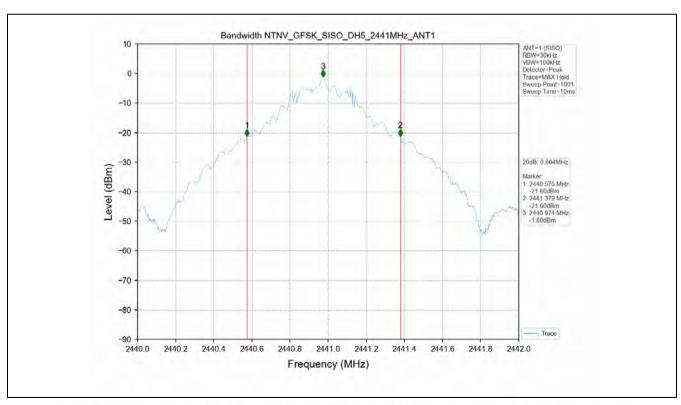


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1.2 Test Graph - 20dB Bandwidth







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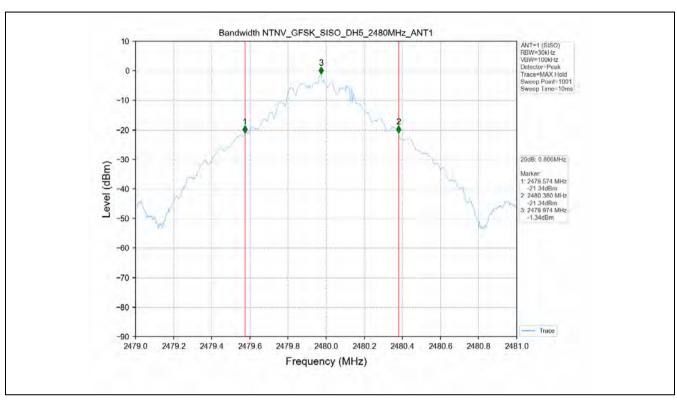
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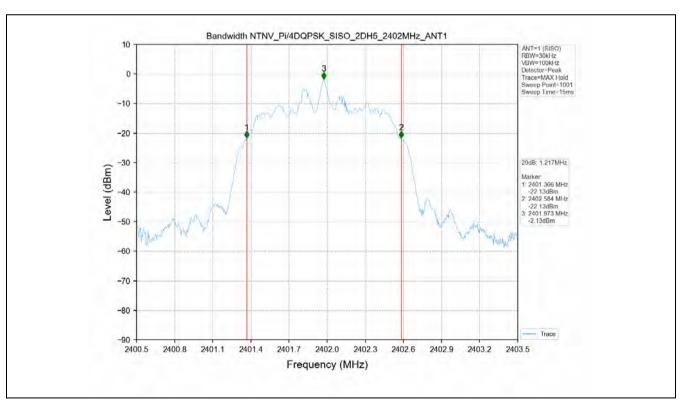
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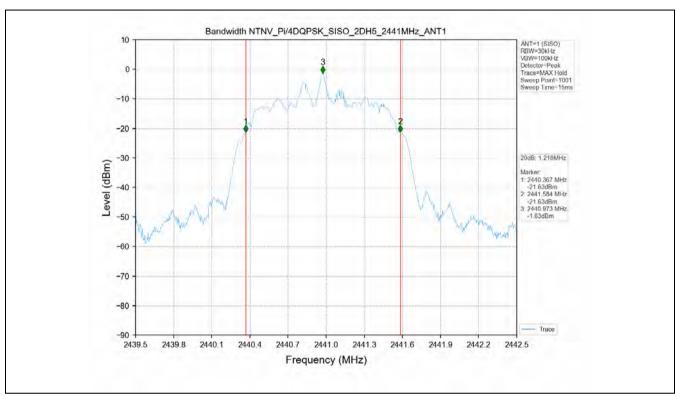
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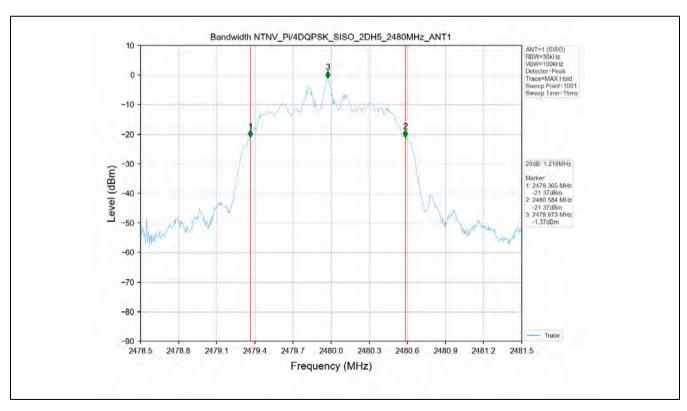
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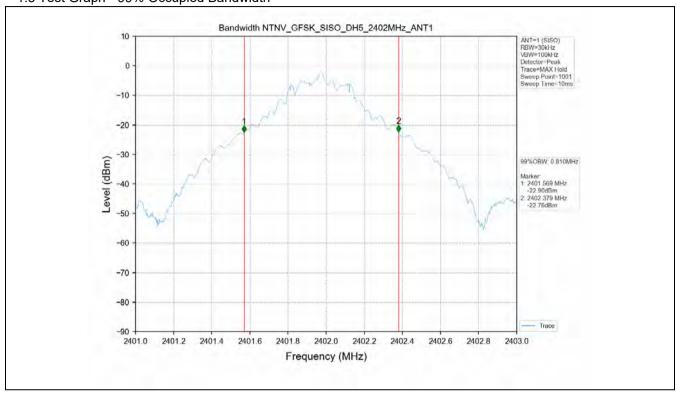
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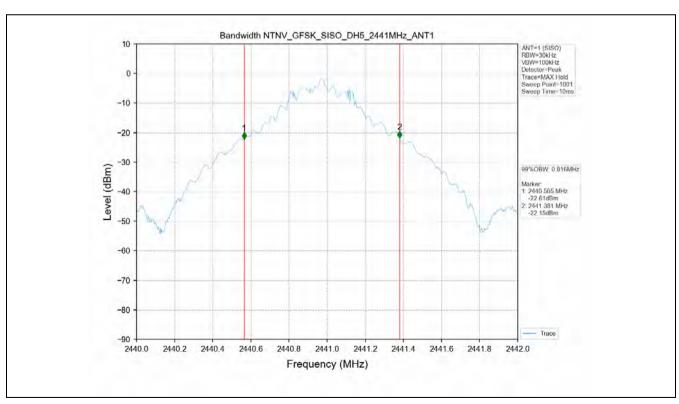


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1.3 Test Graph - 99% Occupied Bandwidth







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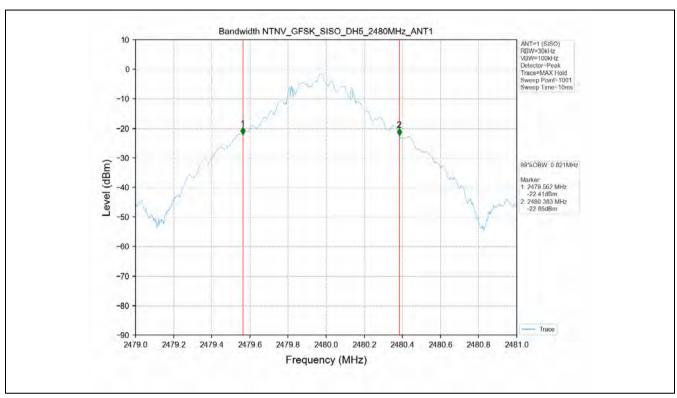
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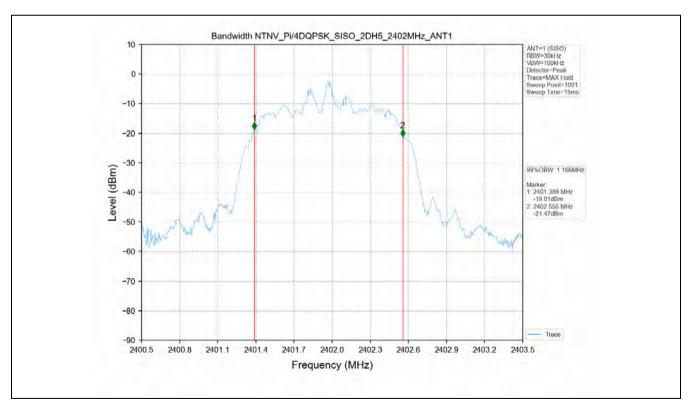
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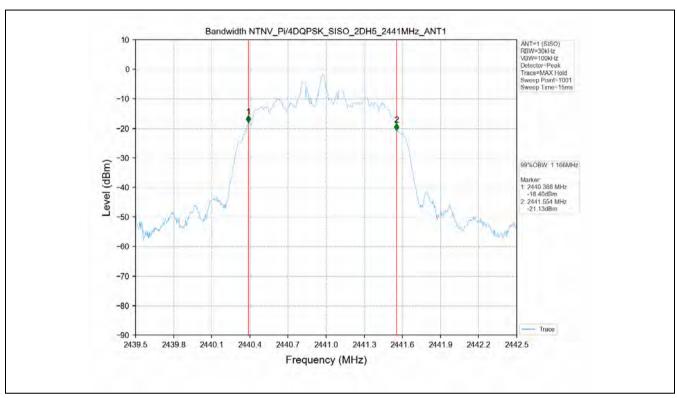
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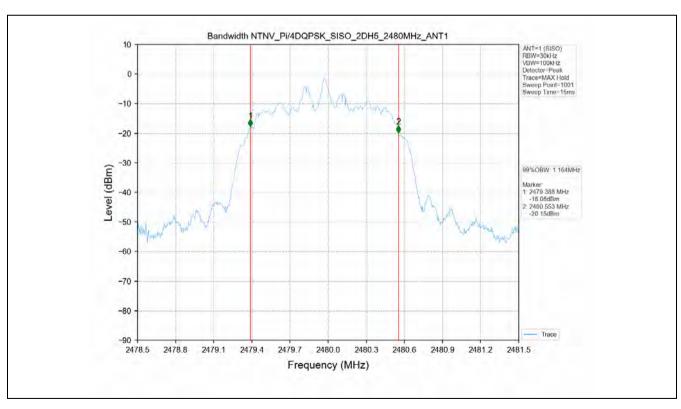
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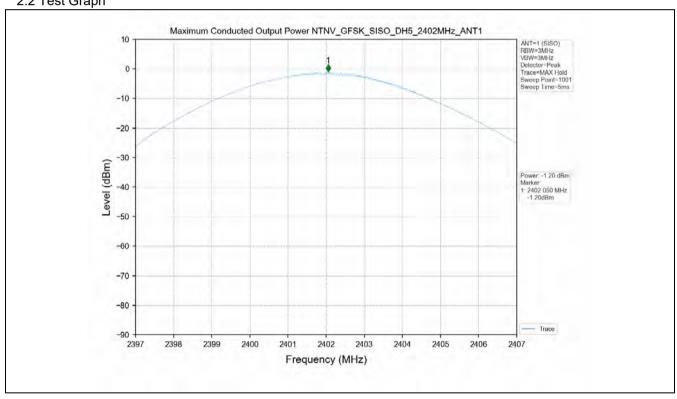
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Power Set	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(1411 12)		Ant 1			
	2402	10	-1.20	20.97	PASS	
GFSK	2441	10	-0.69	20.97	PASS	
	2480	10	-0.39	20.97	PASS	
	2402	10	-0.87	20.97	PASS	
Pi/4DQPSK	2441	10	-0.38	20.97	PASS	
	2480	10	-0.07	20.97	PASS	

2.2 Test Graph





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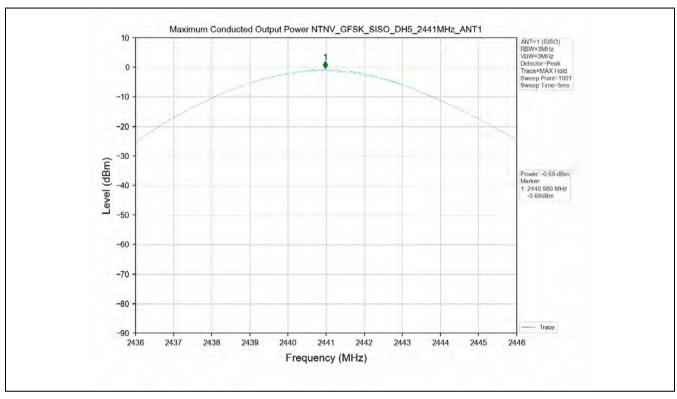
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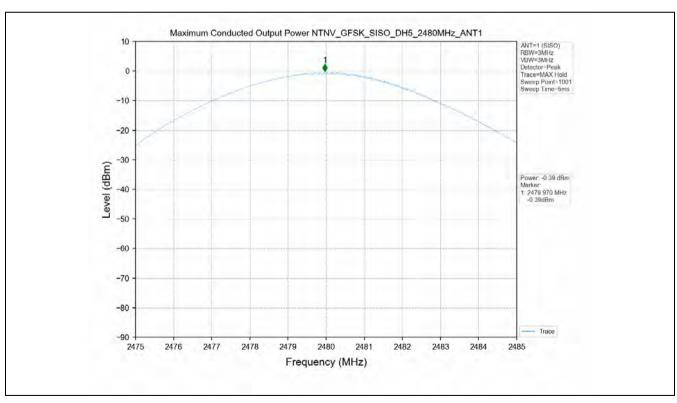
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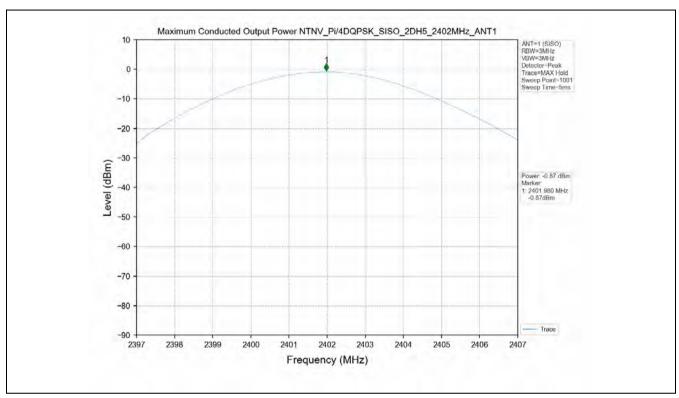
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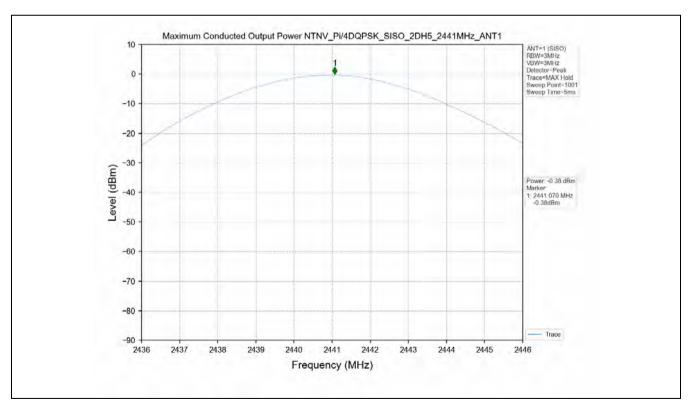
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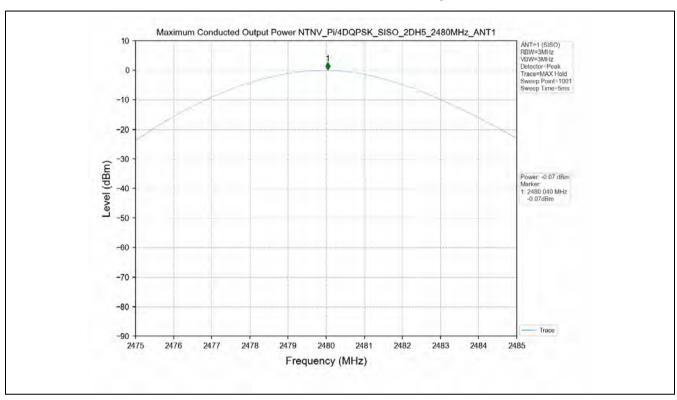
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.026	0.806	≥0.806	PASS
Pi/4DQPSK	SISO	1	0.990	1.218	≥0.812	PASS



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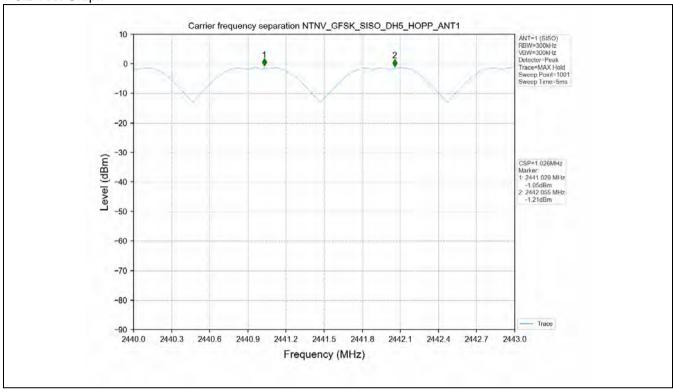
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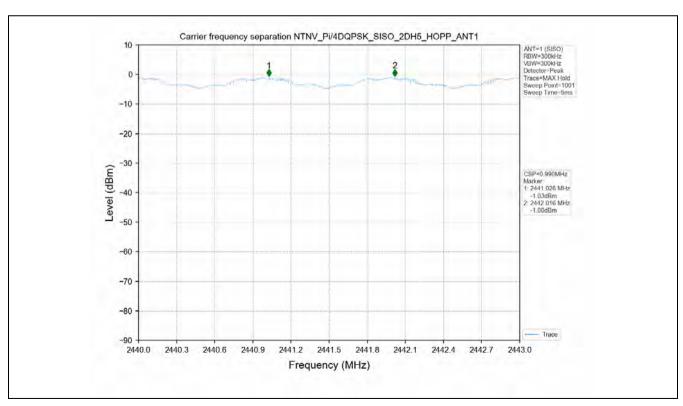


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3.2 Test Graph







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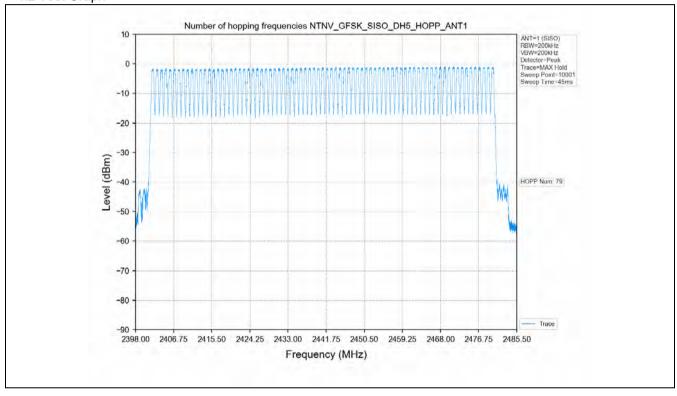
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4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph





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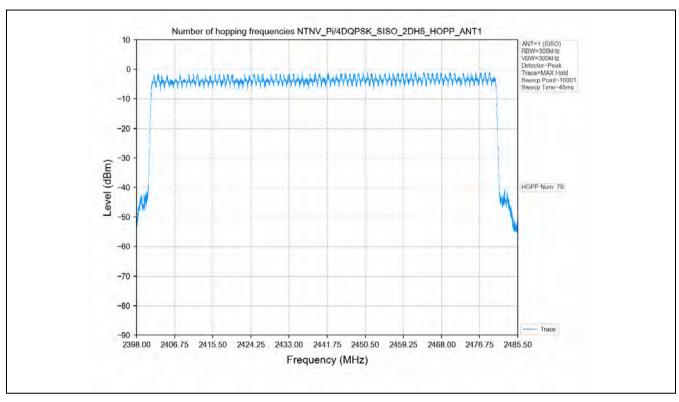
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANI	Duration of Single Pulse (ms)	ation Period	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.424	31.6	320	135.680	≤400	PASS
GFSK	DH3	SISO	1	0.425	31.6	320	136.000	≤400	PASS
	DH5	SISO	1	2.928	31.6	105	307.440	≤400	PASS
D:/4D.O	2DH1	SISO	1	0.434	31.6	320	138.880	≤400	PASS
Pi/4DQ PSK	2DH3	SISO	1	1.686	31.6	170	286.620	≤400	PASS
· Sit	2DH5	SISO	1	2.933	31.6	105	307.965	≤400	PASS



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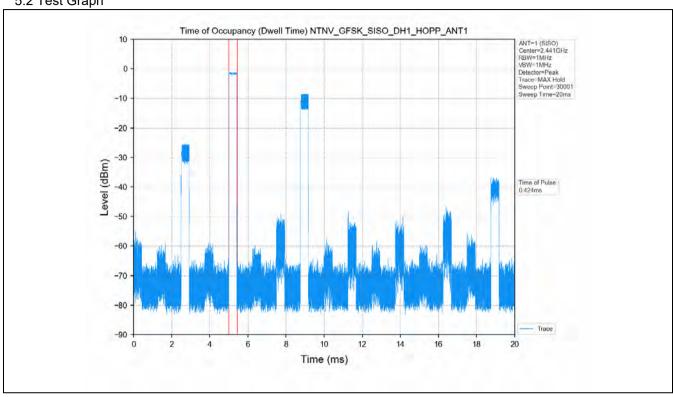
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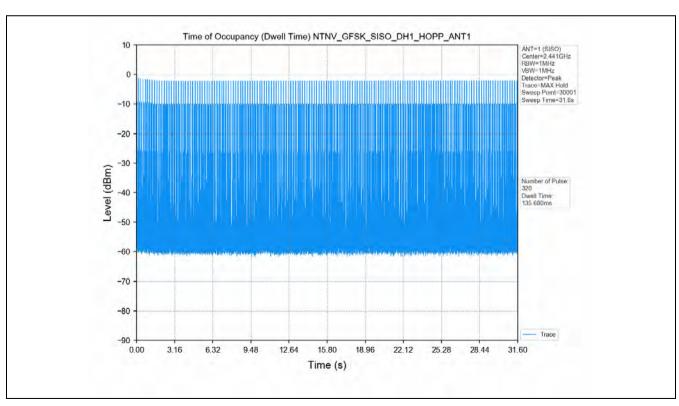


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5.2 Test Graph







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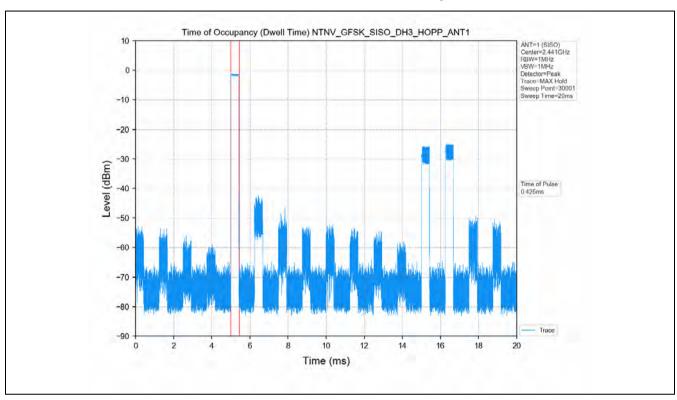
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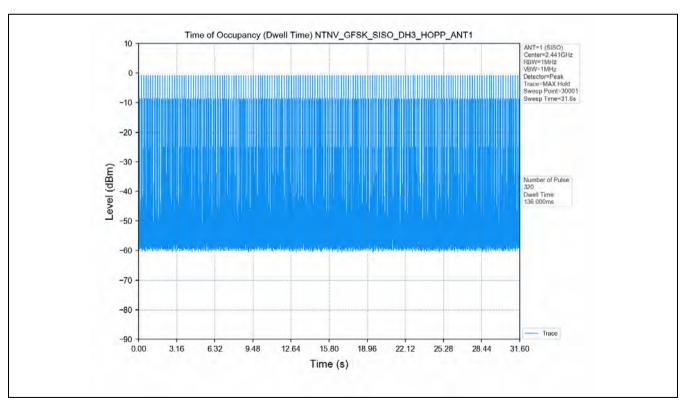
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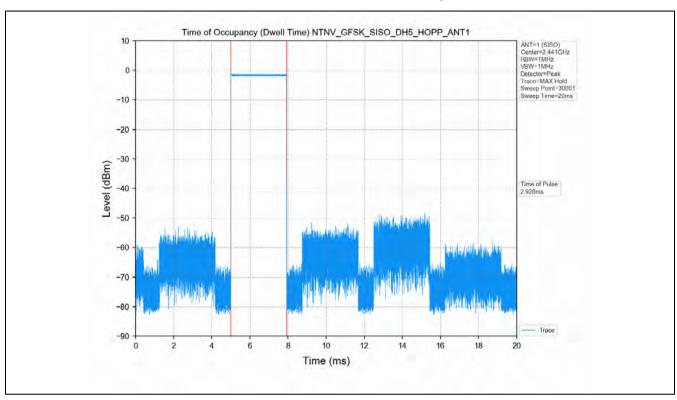
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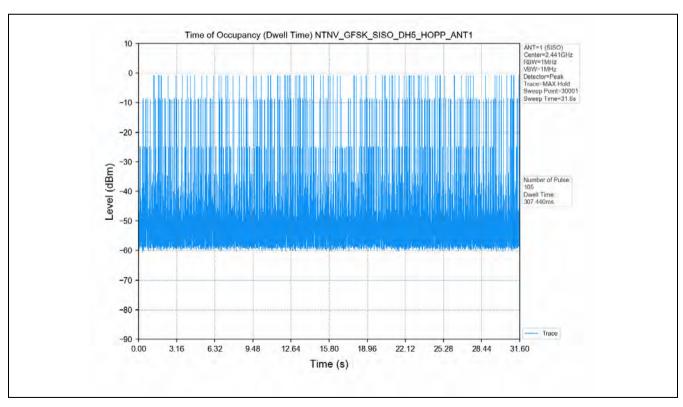
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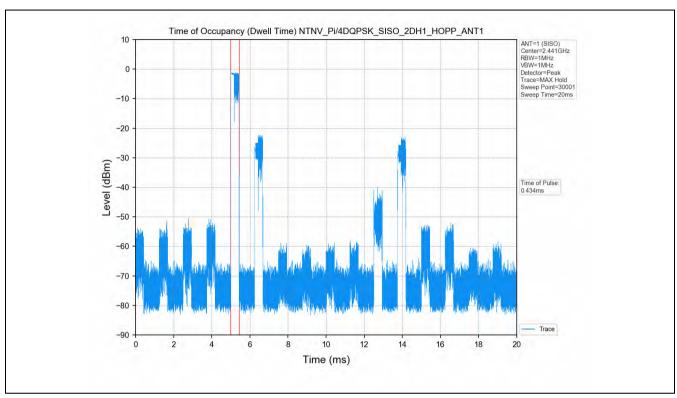
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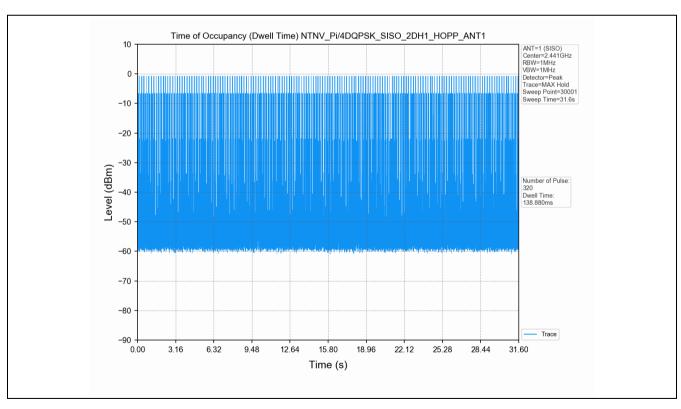
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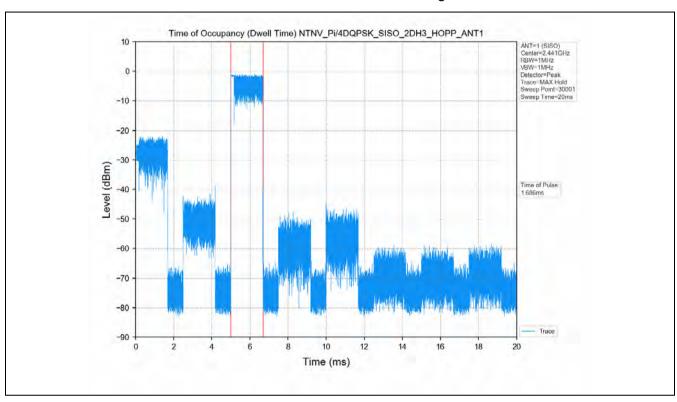
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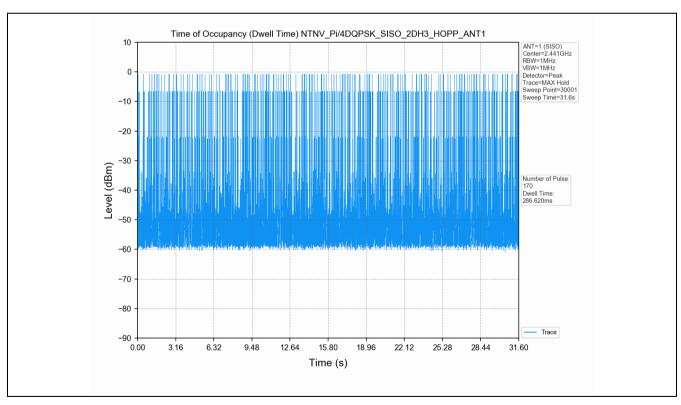
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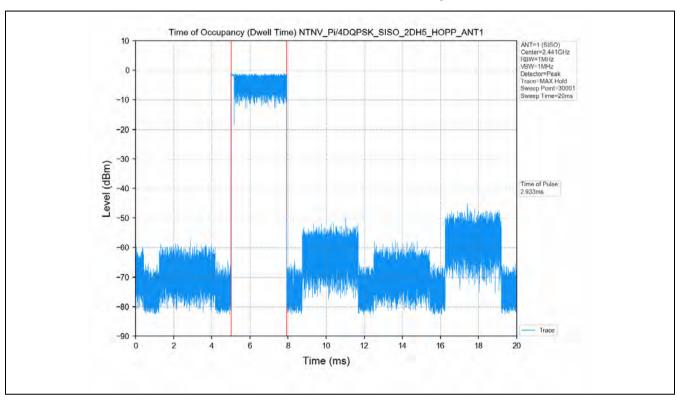
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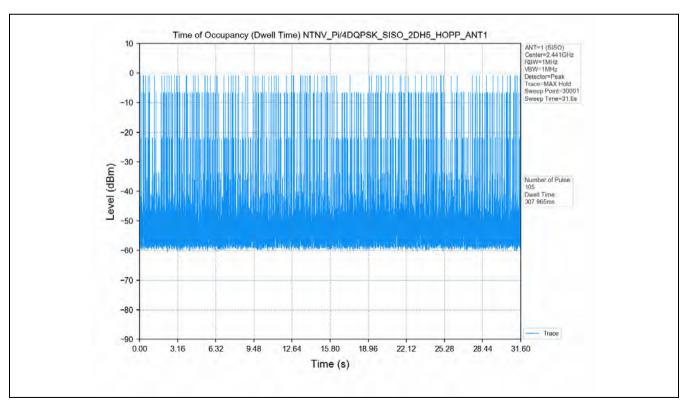
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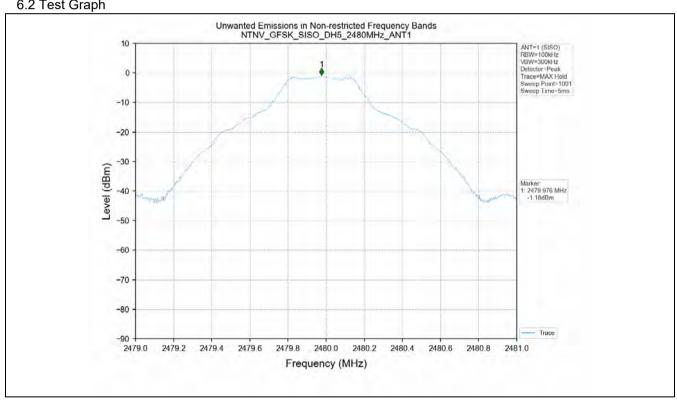
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6. Unwanted Emissions in Non-restricted Frequency Bands

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	-21.18	PASS
CECK	2441	SISO	1	Refer to test graph	-21.18	PASS
GFSK	2480	SISO	1	Refer to test graph	-21.18	PASS
	Hopping	SISO	1	Refer to test graph	-21.18	PASS
	2402	SISO	1	Refer to test graph	-21.18	PASS
Pi/4DQPSK	2441	SISO	1	Refer to test graph	-21.18	PASS
	2480	SISO	1	Refer to test graph	-21.18	PASS
	Hopping	SISO	1	Refer to test graph	-21.18	PASS

6.2 Test Graph





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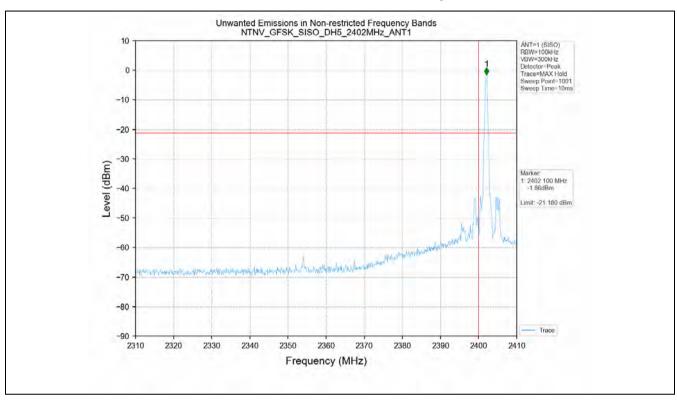
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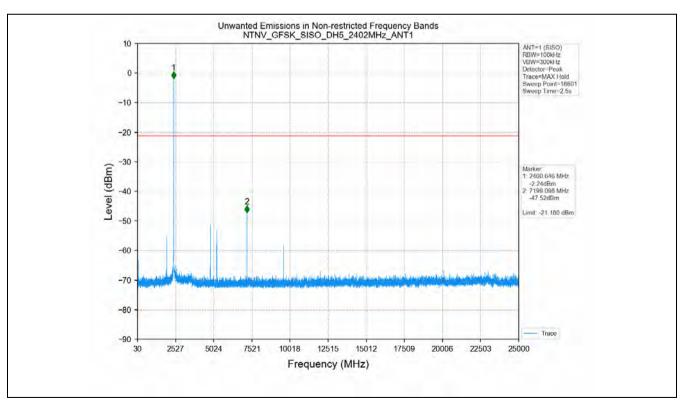
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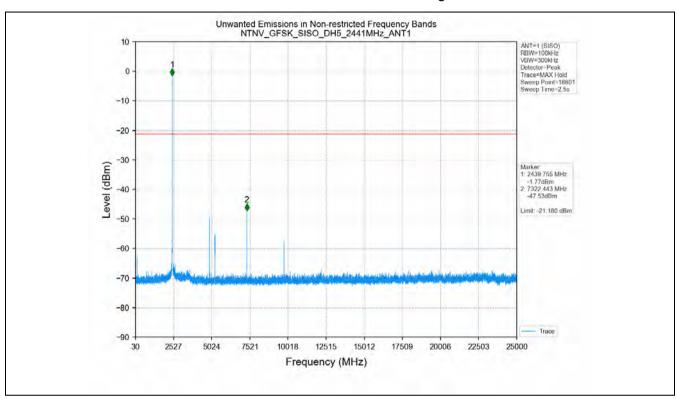
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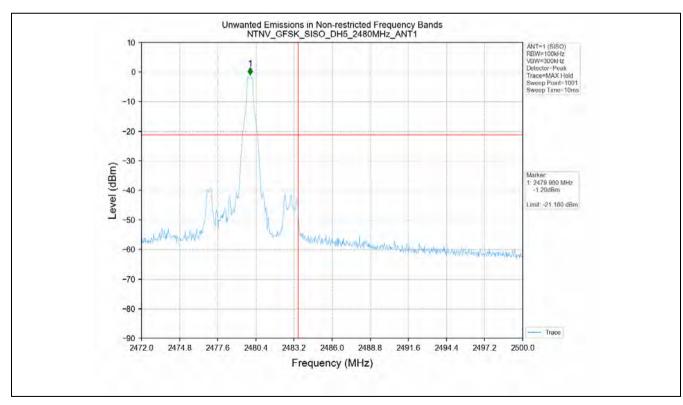
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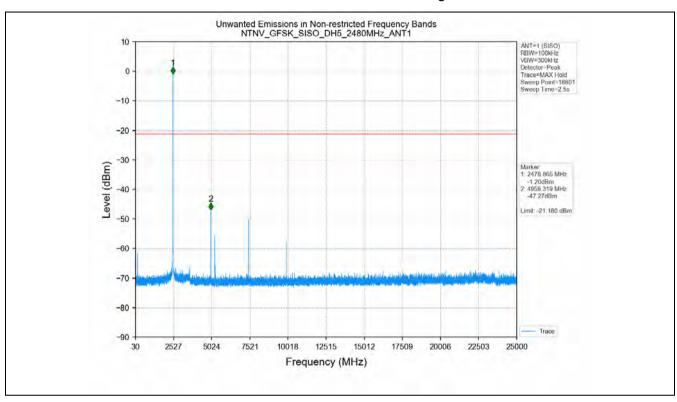
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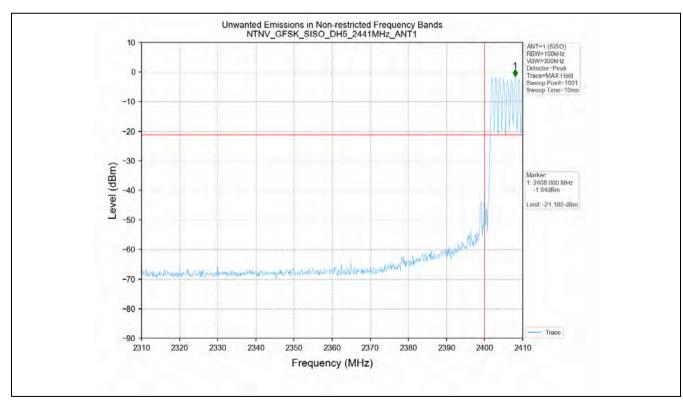
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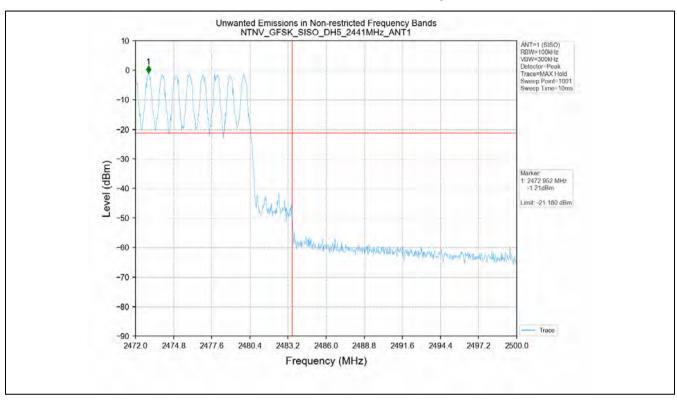
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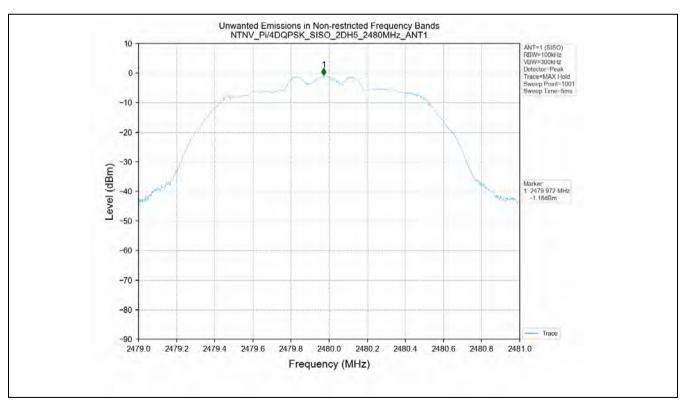
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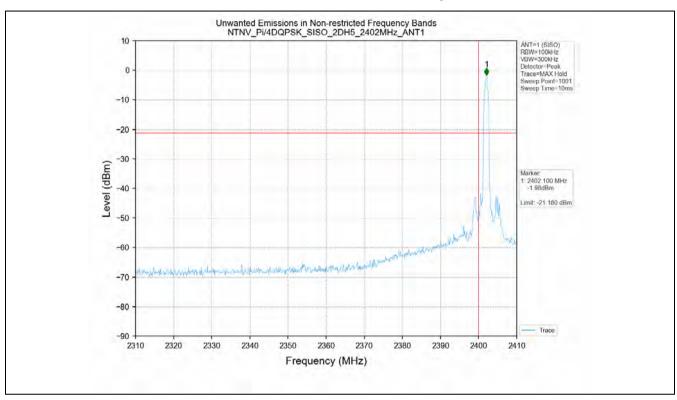
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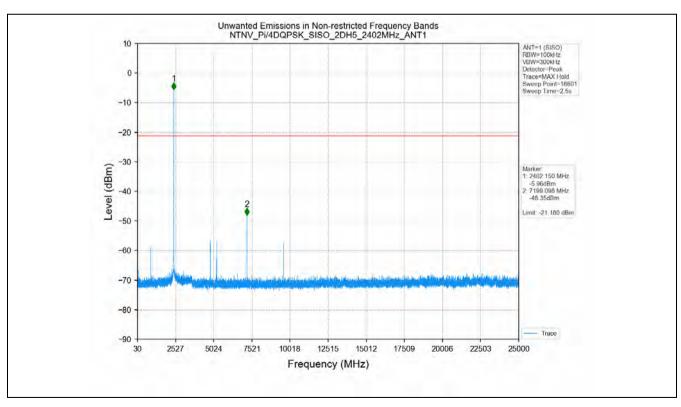
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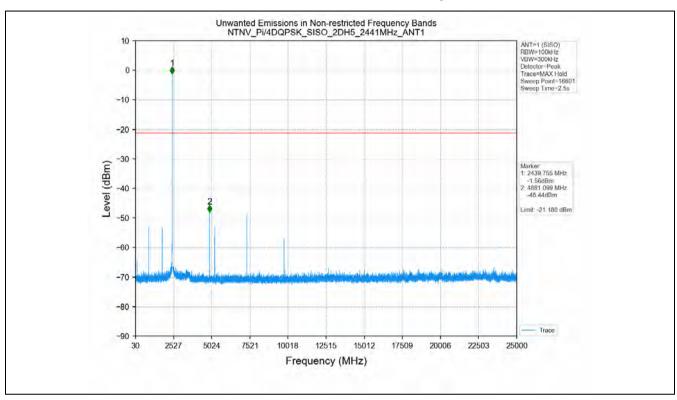
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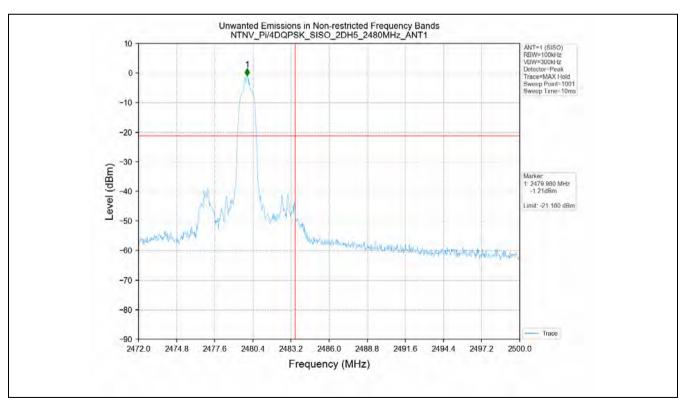
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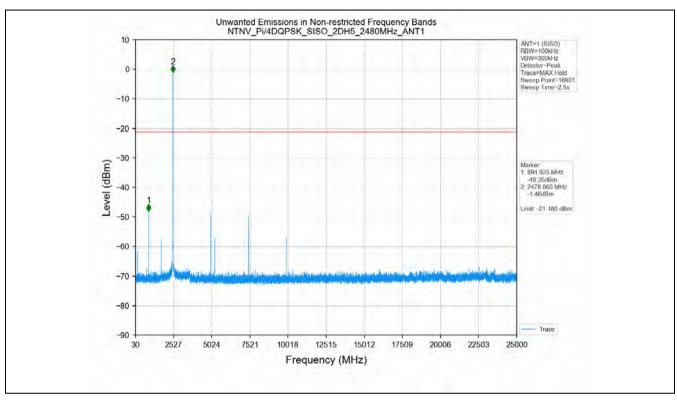
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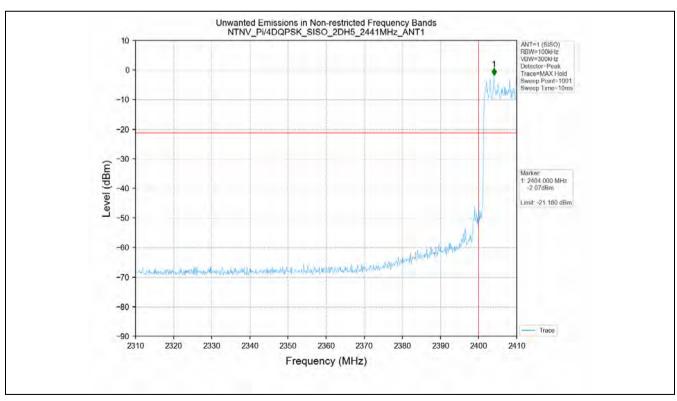
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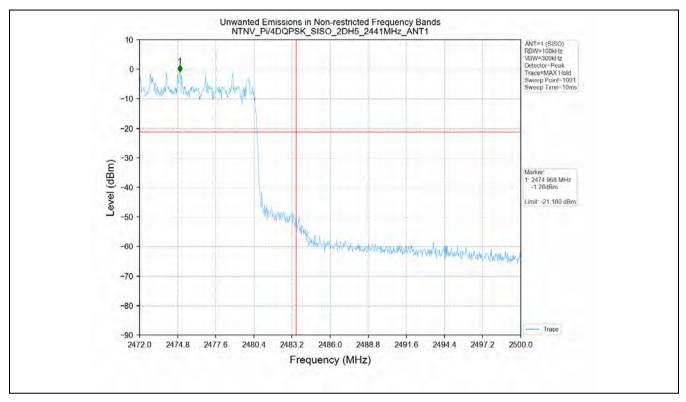
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