

Report No.: SZCR210602136802

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TEST REPORT

Application No.: SZCR2106021368AT **Applicant:** SKULLCANDY, INC.

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

Manufacturer: SKULLCANDY, INC.

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

Equipment Under Test (EUT):

EUT Name: Indy EVO/IndyXT EVO

Model No.: S1IVW
Trade Mark:

Skullcandy

FCC ID: Y22-S1IVW

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

Date of Receipt: 2021-06-03

Date of Test: 2021-06-07 to 2021-06-29

Date of Issue: 2021-07-01

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-07-01		Original			

Authorized for issue by:		
	Benson Wong	
	Benson Wang/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary

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

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



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General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 40mAh (Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 40mAh (Charge by travel case)
	travel case with backup battery: Li-Ion Polymer Battery 3.7V 500mAh (Charged by Type-C port)
Cable(s):	Type-C cable: 13cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Integral Antenna
Antenna Gain:	Left earbuds: 3.11dBi; Right earbuds: 4.59dBi

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

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

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

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



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4.4 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.

VCCI (Member No. 1937)

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. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Carrier Frequencies Separation						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	



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Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	Coaxial Cable SGS		SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Radiated Emissions wh	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	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	Coaxial Cable SGS		SEM026-01	2020-07-10	2021-07-09	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23	

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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Radio Spectrum Technical Requirement 6

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: Left earbuds: 3.11dBi; Right earbuds: 4.59dBi

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):



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According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

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



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Radio Spectrum Matter Test Results 7

7.1 Conducted Peak Output Power

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description			
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.			
Final test	07	TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.			



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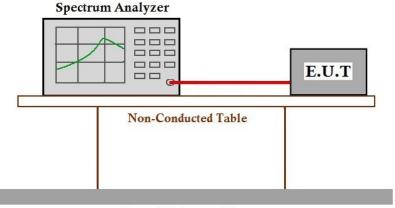
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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.2 20dB Bandwidth

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

7.2.1 E.U.T. Operation

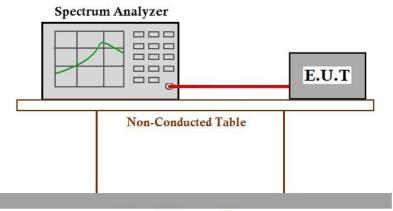
Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Carrier Frequencies Separation

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

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3.1 E.U.T. Operation

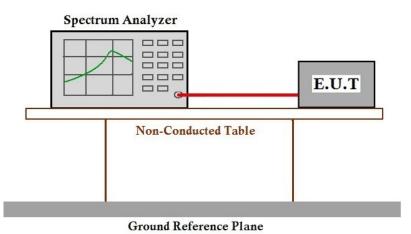
Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

	1001 mode 2000. p.i.o.i			
Pre-scan / Final test	Mode Code	Description		
Final test	03	TX_Hop mode(Left earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.		
Final test	08	TX_Hop mode(Right earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.		

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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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)				
000 000	50 for 20dB bandwidth <250kHz				
902-928	25 for 20dB bandwidth ≥250kHz				
2400-2483.5	15				
5725-5850	75				

7.4.1 E.U.T. Operation

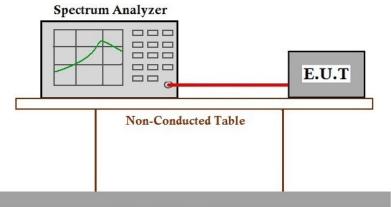
Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_Hop mode(Left earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test 08 modulat		TX_Hop mode(Right earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Ground Reference Plane



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7.4.4 Measurement Procedure and Data

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7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii) Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit			
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)			
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)			
2400 2482 5	0.4S within a period of 0.4S multiplied by the number			
2400-2483.5	of hopping channels			
5725-5850	0.4S within a 30S period			

7.5.1 E.U.T. Operation

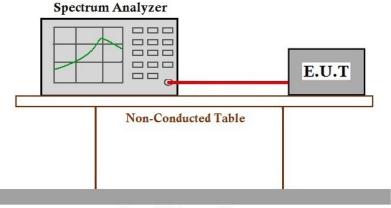
Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test 03 Final test 08		TX_Hop mode(Left earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
		TX_Hop mode(Right earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					

7.5.3 Test Setup Diagram



Ground Reference Plane



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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Band Edges Measurement

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

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

1.0.2 Test mode Description							
Pre-scan / Final test	Mode Code	Description					
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Final test	03	TX_Hop mode(Left earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Final test 07		TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Final test	08	TX_Hop mode(Right earubds)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					



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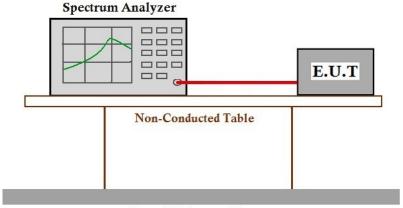
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Conducted Spurious Emissions

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

Limit:

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

7.7.1 E.U.T. Operation

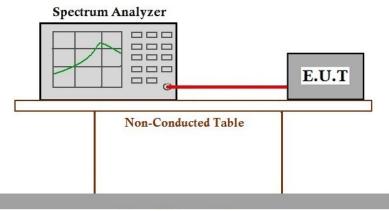
Operating Environment:

Temperature: 21.1 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test 07		TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



Ground Reference Plane



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7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,205 & 15,209 Test Requirement

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

Measurement Distance: 3m

Limit:

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

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 53.7 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

	7.0.2 Test mode bescription							
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test 07		TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						



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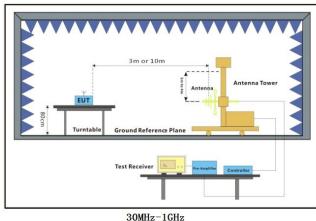
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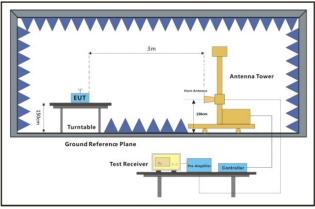


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7.8.3 Test Setup Diagram





Above 1GHz

7.8.4 Measurement Procedure and Data

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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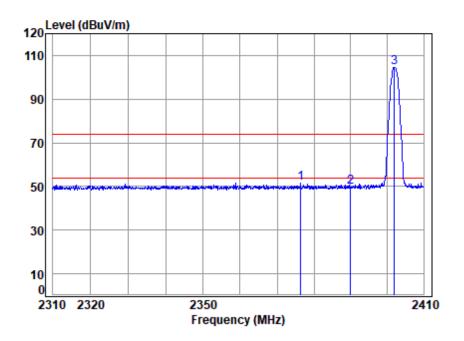
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT Mode : 2402 Band edge

Note : BT-L

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.329	4.32	28.85	40.41	58.97	51.73	74.00	-22.27	peak
2	2390.000	4.34	28.88	40.42	57.09	49.89	74.00	-24.11	peak
3	. 2402.000	4.36	28.90	40.43	111.63	104.46	74.00	30.46	peak



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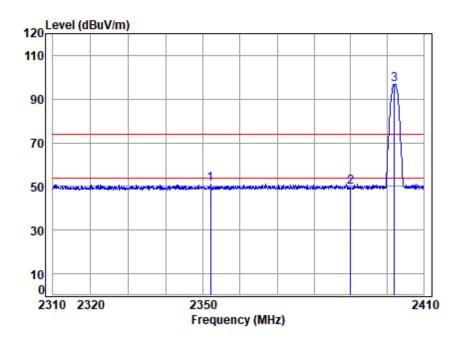
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT Mode : 2402 Band edge

Note : BT-L

> 1 2 3

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
							•			
	2352.083	4.28	28.80	40.40	58.29	50.97	74.00	-23.03	peak	
2	2390.000	4.34	28.88	40.42	56.80	49.60	74.00	-24.40	peak	
	2402.000	4.36	28.90	40.43	104.08	96.91	74.00	22.91	peak	



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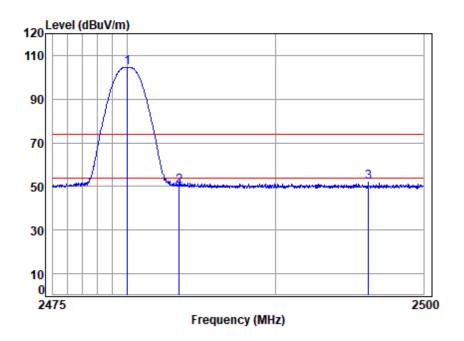
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT Mode : 2480 Band edge

Note : BT-L

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2480.000	4.49	29.06	40.47	111.56	104.64	74.00	30.64	peak
2	2483.500	4.49	29.07	40.47	57.26	50.35	74.00	-23.65	peak
3	2496.259	4.51	29.09	40.47	58.68	51.81	74.00	-22.19	peak



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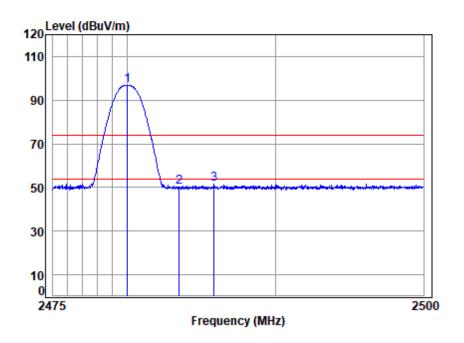
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT Mode : 2480 Band edge

Note : BT-L

> 1 2 3

Freq				Read Level			Over Limit	Remark
MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
2480.000								•
2483.500								•



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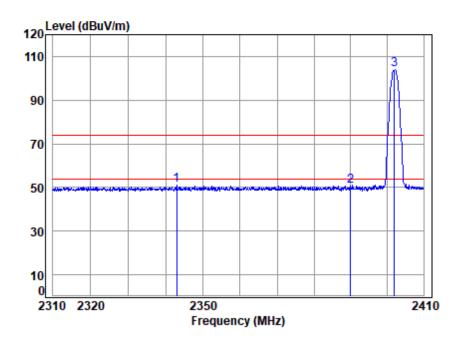
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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT Mode : 2402 Band edge

Note : BT-R

> 1 2

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										-
	MHz	dB	dB/m	dВ	dBuV	dBuV/m	dBuV/m	dB		
	2242 020	4 27	20.70	40 40	E0 30	F1 04	74.00	22.00		
	2342.930	4.2/	20./0	40.40	50.59	51.04	74.00	-22.96	peak	
2	2390.000	4.34	28.88	40.42	57.99	50.79	74.00	-23.21	peak	
	2402 000	4 36	28 90	40 43	111 01	103 84	74 00	29 84	neak	



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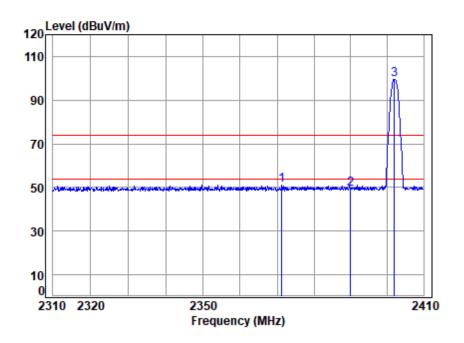
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT Mode : 2402 Band edge

Note : BT-R

> 1 2 3

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2371.299	4.31	28.84	40.41	58.57	51.31	74.00	-22.69	peak	
2390.000	4.34	28.88	40.42	56.38	49.18	74.00	-24.82	peak	
2402.000	4.36	28.90	40.43	106.67	99.50	74.00	25.50	peak	



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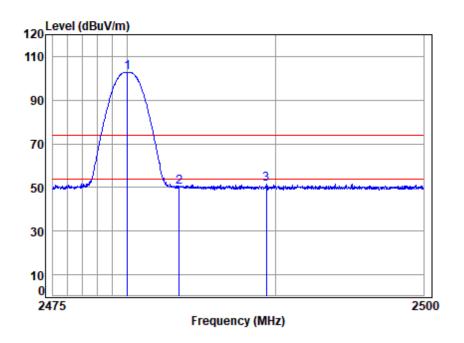
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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT Mode : 2480 Band edge

Note : BT-R

> 1 2 3

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	. 2480.000	4.49	29.06	40.47	109.65	102.73	74.00	28.73	peak
	2483.500	4.49	29.07	40.47	56.95	50.04	74.00	-23.96	peak
;	2489.369	4.50	29.08	40.47	58.59	51.70	74.00	-22.30	peak



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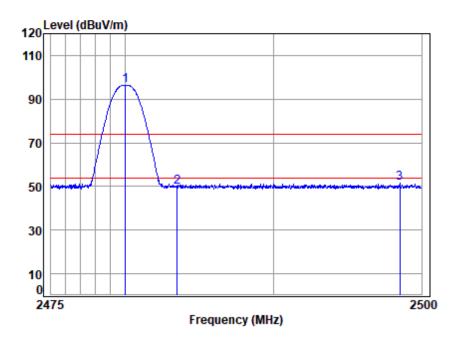
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT Mode : 2480 Band edge

Note : BT-R

> 1 2 3

Freq				Read Level				Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000 2483.500								•
2/198 5/13	1 52	29 10	10 17	52 22	51 //3	71 aa	-22 57	neak



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7.9 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 57.8 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

		I
Pre-scan / Final test	Mode Code	Description
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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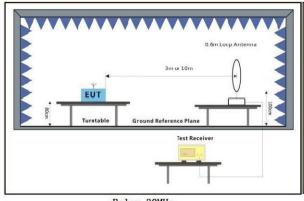
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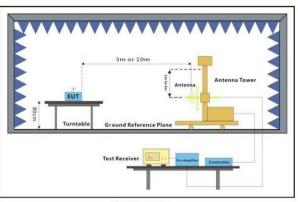


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7.9.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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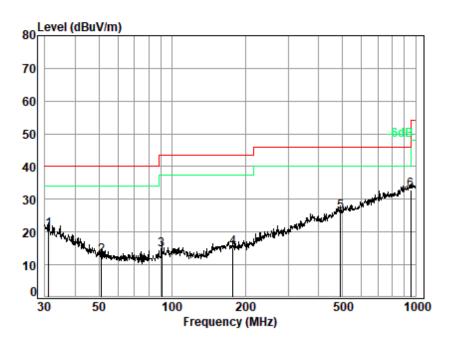
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 21368AT

Test mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.07	22.19	0.61	27.73	25.69	20.76	40.00	-19.24	QP
2	51.30	13.71	0.71	27.68	25.98	12.72	40.00	-27.28	QΡ
3	90.54	13.21	1.29	27.62	27.78	14.66	43.50	-28.84	QP
4	177.51	15.45	1.18	27.22	25.88	15.29	43.50	-28.21	QΡ
5	492.47	24.25	2.49	27.77	27.07	26.04	46.00	-19.96	QΡ
6 a	955.44								-



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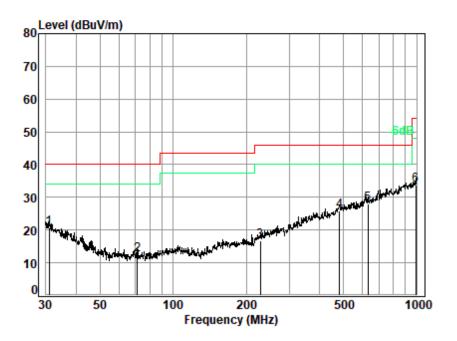
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No. : 21368AT

Test mode: 02

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	22.27	0.61	27.73	25.60	20.75	40.00	-19.25	QΡ
2	71.33	12.57	0.86	27.65	26.75	12.53	40.00	-27.47	QP
3	227.69	17.19	1.46	27.06	25.15	16.74	46.00	-29.26	QP
4	482.22	24.30	2.47	27.73	26.75	25.79	46.00	-20.21	QP
5 q	631.69	26.45	2.77	28.06	26.98	28.14	46.00	-17.86	QP
6	993.01	29.70	3.59	26.69	27.31	33.91	54.00	-20.09	OP



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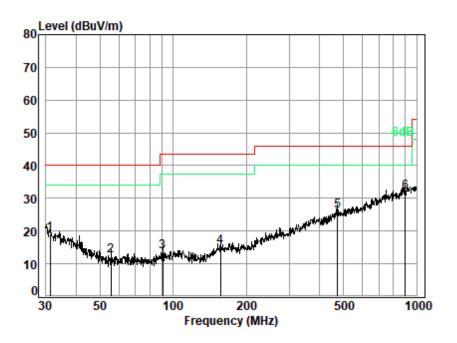
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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 21368AT

Test mode: 07

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.18	22.10	0.61	27.73	24.11	19.09	40.00	-20.91	QP
2	55.61	13.02	0.76	27.67	26.25	12.36	40.00	-27.64	QP
3	90.54	13.21	1.29	27.62	26.73	13.61	43.50	-29.89	QP
4	156.46	15.16	1.16	27.31	26.23	15.24	43.50	-28.26	QР
5	473.83	23.87	2.45	27.70	27.56	26.18	46.00	-19.82	QР
6 a		28.93	3.49	27.18	26.82	32.06	46.00	-13.94	OP.



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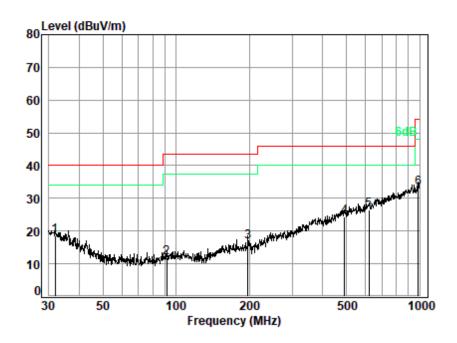
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No. : 21368AT

Test mode: 07

	mouc. o,								
		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.84	21.61	0.62	27.73	24.12	18.62	40.00	-21.38	QP
2	91.49	13.40	1.27	27.62	24.82	11.87	43.50	-31.63	QP
3	197.20	15.72	1.20	27.15	26.88	16.65	43.50	-26.85	QP
4	492.47	24.25	2.49	27.77	25.38	24.35	46.00	-21.65	QP
5 q	620.71	26.69	2.74	28.08	25.14	26.49	46.00	-19.51	QP
6	989.54	29.64	3.59	26.71	26.51	33.03	54.00	-20.97	OP



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7.10 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.10.1 E.U.T. Operation

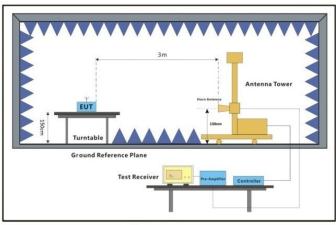
Operating Environment:

21.6 °C Humidity: 53.8 % RH Temperature: Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX_non-Hop mode(Left earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_non-Hop mode(Right earubds)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram







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7.10.4 Measurement Procedure and Data

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

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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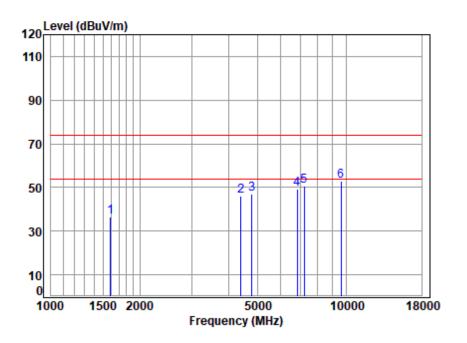
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2402 TX RSE

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	1592.571	3.34	26.18	40.00	47.08	36.60	74.00	-37.40	peak
2	4405.090	6.67	32.93	41.79	48.35	46.16	74.00	-27.84	peak
3	4804.000	7.10	33.62	42.14	48.25	46.83	74.00	-27.17	peak
4	6835.278	8.46	35.21	41.81	47.64	49.50	74.00	-24.50	peak
5	7206.000	8.74	35.67	41.50	47.70	50.61	74.00	-23.39	peak
6	9608.000	10.81	37.34	37.76	42.67	53.06	74.00	-20.94	peak



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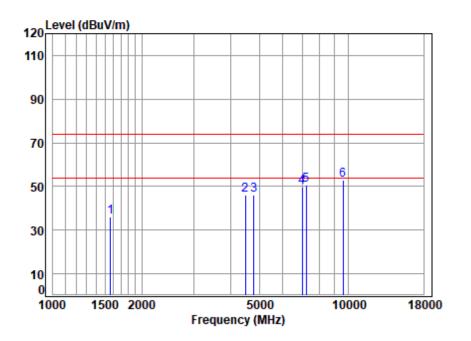
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2402 TX RSE

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	1565.191	3.32	26.04	39.99	46.86	36.23	74.00	-37.77	peak
2	4495.125	6.76	33.00	41.87	48.05	45.94	74.00	-28.06	peak
3	4804.000	7.10	33.62	42.14	47.59	46.17	74.00	-27.83	peak
4	6974.982	8.53	35.46	41.72	47.42	49.69	74.00	-24.31	peak
5	7206.000	8.74	35.67	41.50	47.56	50.47	74.00	-23.53	peak
6	9608.000	10.81	37.34	37.76	42.37	52.76	74.00	-21.24	peak



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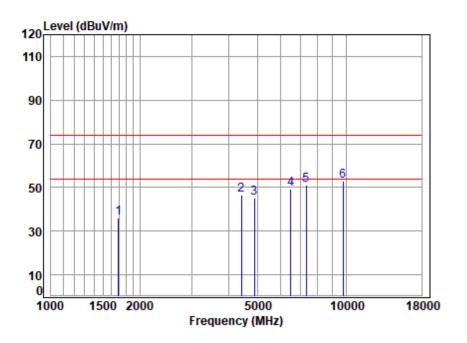
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2441 TX RSE

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	1692.231	3.42	26.66	40.06	46.00	36.02	74.00	-37.98	peak
2	4417.841	6.68	32.94	41.80	48.83	46.65	74.00	-27.35	peak
3	4882.000	7.18	33.77	42.20	46.62	45.37	74.00	-28.63	peak
4	6488.754	8.28	34.60	42.04	48.62	49.46	74.00	-24.54	peak
5	7323.000	8.85	35.76	41.40	47.96	51.17	74.00	-22.83	peak
6	9764.000	10.76	37.41	37.50	42.26	52.93	74.00	-21.07	peak



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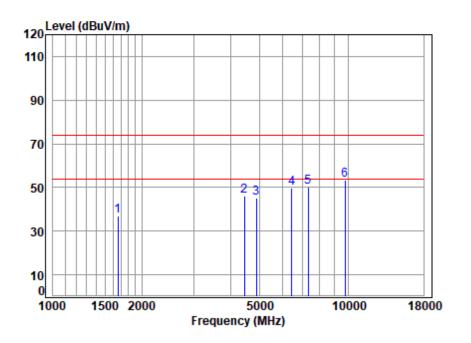
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2441 TX RSE

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	1658.337	3.40	26.50	40.04	47.06	36.92	/4.00	-3/.08	peak
2	4456.315	6.72	32.97	41.84	48.37	46.22	74.00	-27.78	peak
3	4882.000	7.18	33.77	42.20	46.61	45.36	74.00	-28.64	peak
4	6432.732	8.28	34.60	42.08	49.08	49.88	74.00	-24.12	peak
5	7323.000	8.85	35.76	41.40	47.09	50.30	74.00	-23.70	peak
6	9764.000	10.76	37.41	37.50	42.56	53.23	74.00	-20.77	peak



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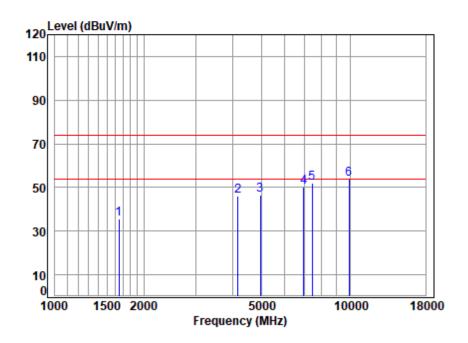
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2480 TX RSE

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	1648.778	3.39	26.46	40.03	45.88	35.70	74.00	-38.30	peak
2	4169.698	6.45	32.74	41.57	48.55	46.17	74.00	-27.83	peak
3	4960.000	7.26	33.92	42.27	47.82	46.73	74.00	-27.27	peak
4	6954.852	8.52	35.42	41.73	47.90	50.11	74.00	-23.89	peak
5	7440.000	8.96	35.85	41.29	48.30	51.82	74.00	-22.18	peak
6	9920.000	10.71	37.47	37.23	42.73	53.68	74.00	-20.32	peak



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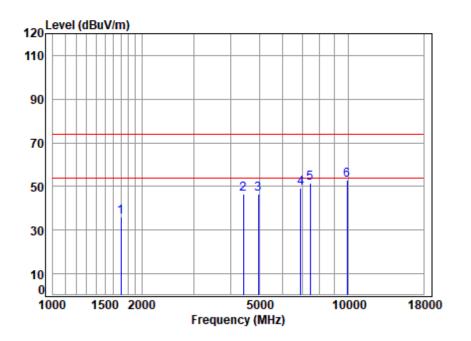
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2480 TX RSE

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	1702.042	3.43	26.71	40.06	45.82	35.90	74.00	-38.10	peak
2	4417.841	6.68	32.94	41.80	48.80	46.62	74.00	-27.38	peak
3	4960.000	7.26	33.92	42.27	47.52	46.43	74.00	-27.57	peak
4	6914.763	8.50	35.35	41.76	47.40	49.49	74.00	-24.51	peak
5	7440.000	8.96	35.85	41.29	48.03	51.55	74.00	-22.45	peak
6	9920 000	10 71	37 /17	37 23	12 08	53 03	7/ 00	-20 97	neak



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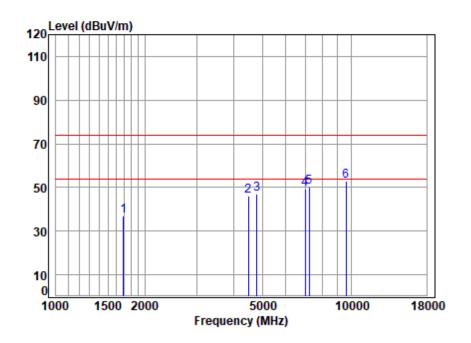
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2402 TX RSE

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	1692.231	3.42	26.66	40.06	46.93	36.95	74.00	-37.05	peak
2	4482.150	6.74	32.99	41.86	48.42	46.29	74.00	-27.71	peak
3	4804.000	7.10	33.62	42.14	48.25	46.83	74.00	-27.17	peak
4	6974.982	8.53	35.46	41.72	46.83	49.10	74.00	-24.90	peak
5	7206.000	8.74	35.67	41.50	47.09	50.00	74.00	-24.00	peak
6	9608.000	10.81	37.34	37.76	42.33	52.72	74.00	-21.28	peak



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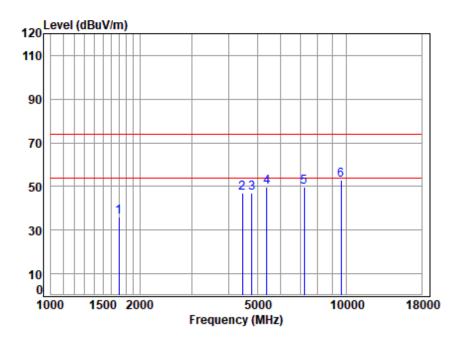
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2402 TX RSE

Note : BT-R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						4D: A//	JD: 3//		
	MHz	dB	ub/m	dB	abuv	abuv/m	abuv/m	dB	
1	1697.129	3.43	26.69	40.06	46.03	36.09	74.00	-37.91	peak
2	4456.315	6.72	32.97	41.84	49.09	46.94	74.00	-27.06	peak
3	4804.000	7.10	33.62	42.14	48.47	47.05	74.00	-26.95	peak
4	5377.354	7.97	34.15	42.34	49.96	49.74	74.00	-24.26	peak
5	7206.000	8.74	35.67	41.50	46.96	49.87	74.00	-24.13	peak
6	9608.000	10.81	37.34	37.76	42.67	53.06	74.00	-20.94	peak



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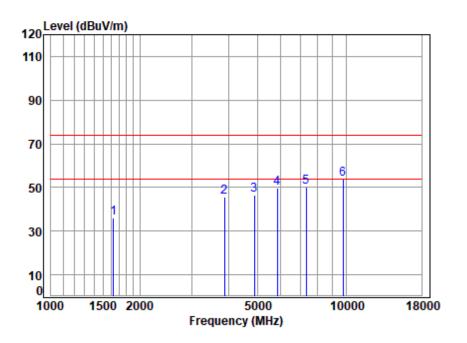
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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2441 TX RSE

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	1629.825	3.37	26.36	40.02	46.40	36.11	74.00	-37.89	peak
2	3879.027	6.11	32.39	41.33	48.39	45.56	74.00	-28.44	peak
3	4882.000	7.18	33.77	42.20	47.64	46.39	74.00	-27.61	peak
4	5847.517	8.24	34.48	42.39	49.36	49.69	74.00	-24.31	peak
5	7323.000	8.85	35.76	41.40	46.96	50.17	74.00	-23.83	peak
6	9764.000	10.76	37.41	37.50	42.97	53.64	74.00	-20.36	peak



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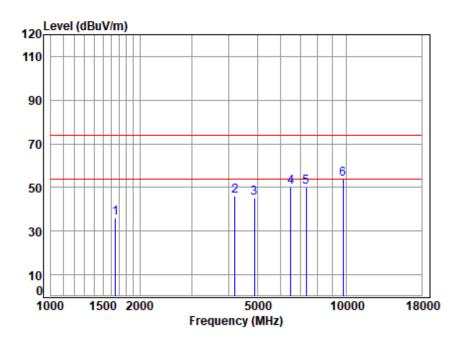
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2441 TX RSE

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	1653.550	3.39	26.48	40.04	46.18	36.01	74.00	-37.99	peak
2	4206.011	6.48	32.77	41.60	48.63	46.28	74.00	-27.72	peak
3	4882.000	7.18	33.77	42.20	46.34	45.09	74.00	-28.91	peak
4	6488.754	8.28	34.60	42.04	49.16	50.00	74.00	-24.00	peak
5	7323.000	8.85	35.76	41.40	47.14	50.35	74.00	-23.65	peak
6	9764.000	10.76	37.41	37.50	43.04	53.71	74.00	-20.29	peak



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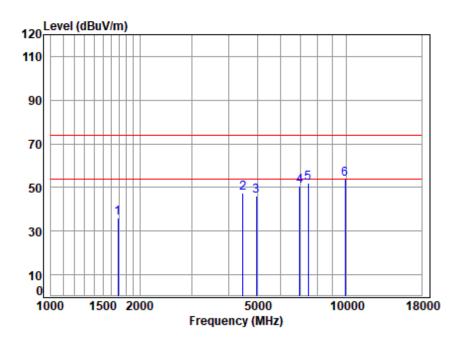
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Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21368AT/21369AT

Mode : 2480 TX RSE

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	1687.347	3.42	26.64	40.05	46.03	36.04	74.00	-37.96	peak
2	4469.214	6.73	32.98	41.85	49.47	47.33	74.00	-26.67	peak
3	4960.000	7.26	33.92	42.27	47.00	45.91	74.00	-28.09	peak
4	6954.852	8.52	35.42	41.73	48.64	50.85	74.00	-23.15	peak
5	7440.000	8.96	35.85	41.29	48.30	51.82	74.00	-22.18	peak
6	9920.000	10.71	37.47	37.23	42.72	53.67	74.00	-20.33	peak



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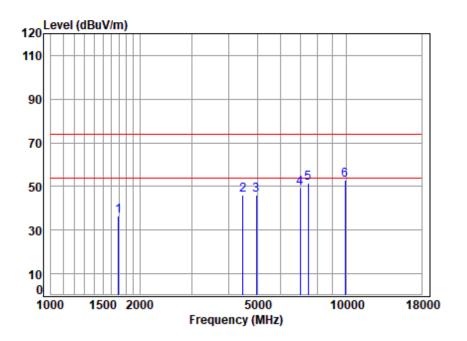
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21368AT/21369AT

Mode : 2480 TX RSE

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	
	4600 034	2 40	25.55	40.00	46.34	26.26	74.00	27.64	
1	1692.231	3.42	26.66	40.06	46.34	36.36	74.00	-3/.64	peak
2	4469.214	6.73	32.98	41.85	48.26	46.12	74.00	-27.88	peak
3	4960.000	7.26	33.92	42.27	47.33	46.24	74.00	-27.76	peak
4	6974.982	8.53	35.46	41.72	47.14	49.41	74.00	-24.59	peak
5	7440.000	8.96	35.85	41.29	47.83	51.35	74.00	-22.65	peak
6	9920.000	10.71	37.47	37.23	41.87	52.82	74.00	-21.18	peak



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Test Setup Photo 8

Refer to Setup Photos

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2106021368AT



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10 Appendix

For Right earbuds

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency	Packet Type	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
Wiode	ix iypo	(MHz)	1 donot Type	Ant1	Littile (IVII IZ)	VCIGIO
		2402	DH5	0.884	/	Note1
GFSK	SISO	2441	DH5	0.883	/	Note1
		2480	DH5	0.885	/	Note1
		2402	2DH5	1.163	/	Note1
Pi/4DQPSK	SISO	2441	2DH5	1.158	/	Note1
		2480	2DH5	1.158	/	Note1
		2402	3DH5	1.167	/	Note1
8DPSK	SISO	2441	3DH5	1.166	/	Note1
		2480	3DH5	1.162	/	Note1
Note1: Onl	y for Rep	ort Use				·



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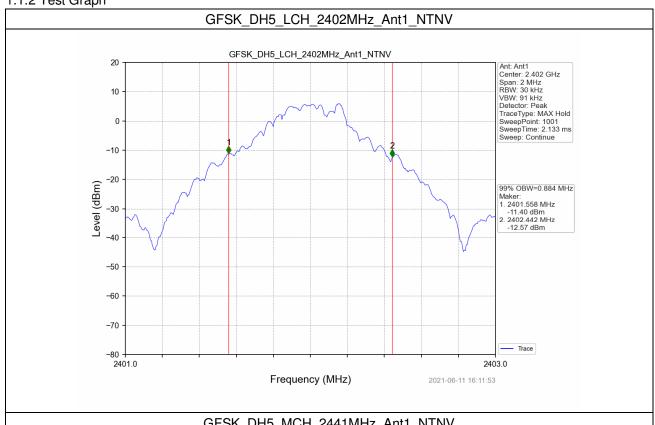
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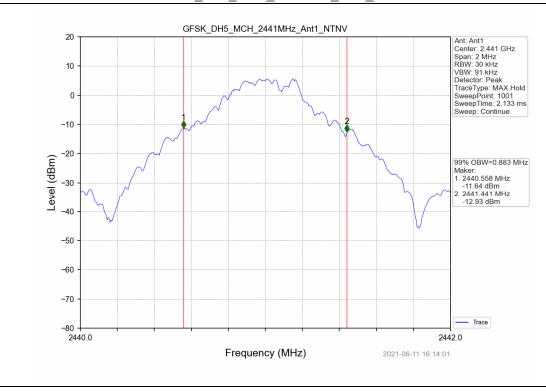
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1.1.2 Test Graph



GFSK DH5 MCH 2441MHz Ant1 NTNV





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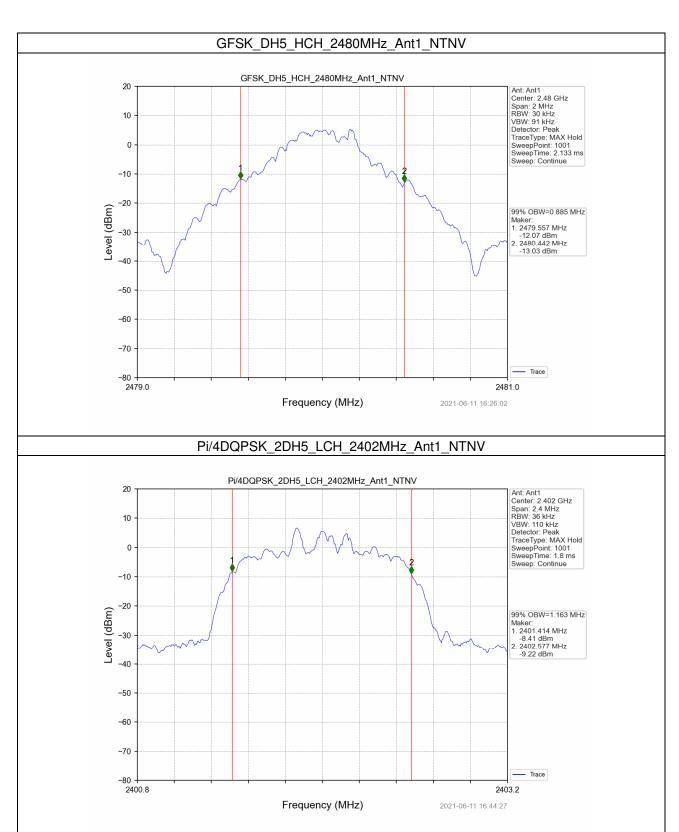
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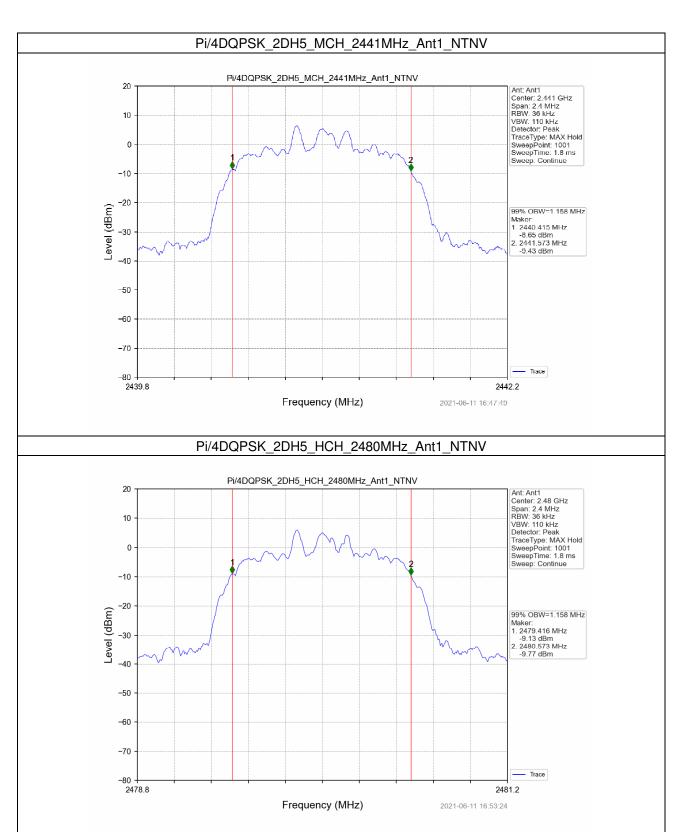
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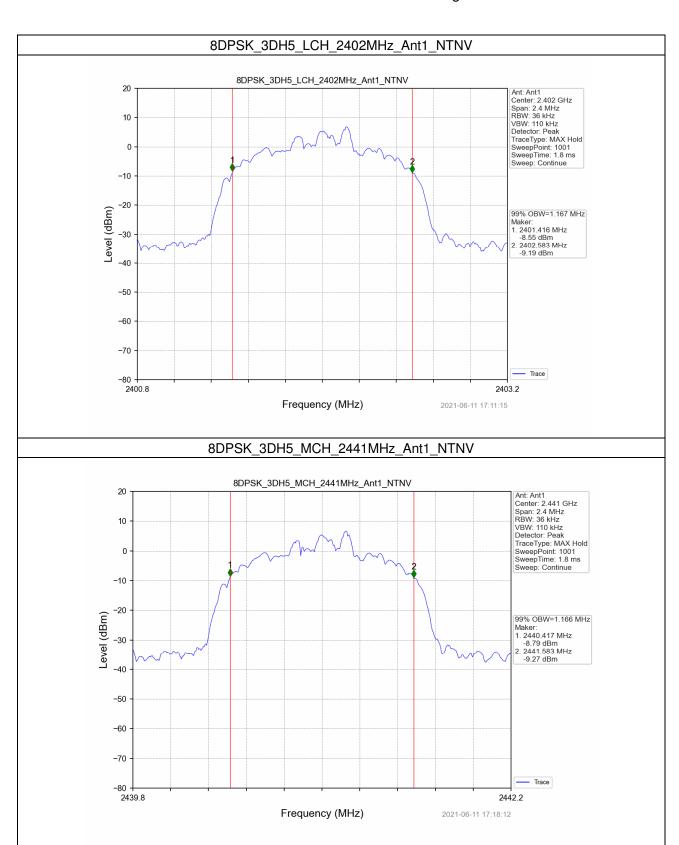
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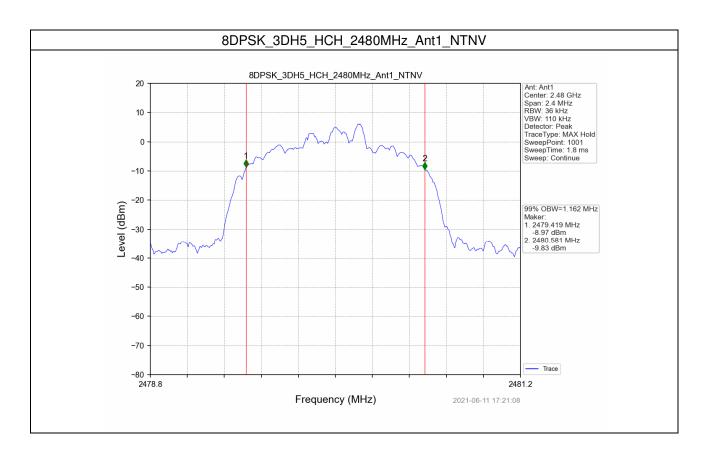
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1.2 20dB bandwidth

1.2.1 Test Result

Mode	TX	Frequency	Dooket Type	20dB Bandwidth (MHz)	Limit (MILIT)	Verdict
Mode	Type	(MHz)	Packet Type	Ant1	Limit (MHz)	verdict
		2402	DH5	1.024	/	Note1
GFSK	SISO	2441	DH5	0.965	/	Note1
		2480	DH5	0.964	/	Note1
		2402	2DH5	1.274	/	Note1
Pi/4DQPSK	SISO	2441	2DH5	1.274	/	Note1
		2480	2DH5	1.273	/	Note1
		2402	3DH5	1.290	/	Note1
8DPSK	SISO	2441	3DH5	1.288	/	Note1
		2480	3DH5	1.286	/	Note1
Note1: Onl	y for Re	eport Use				

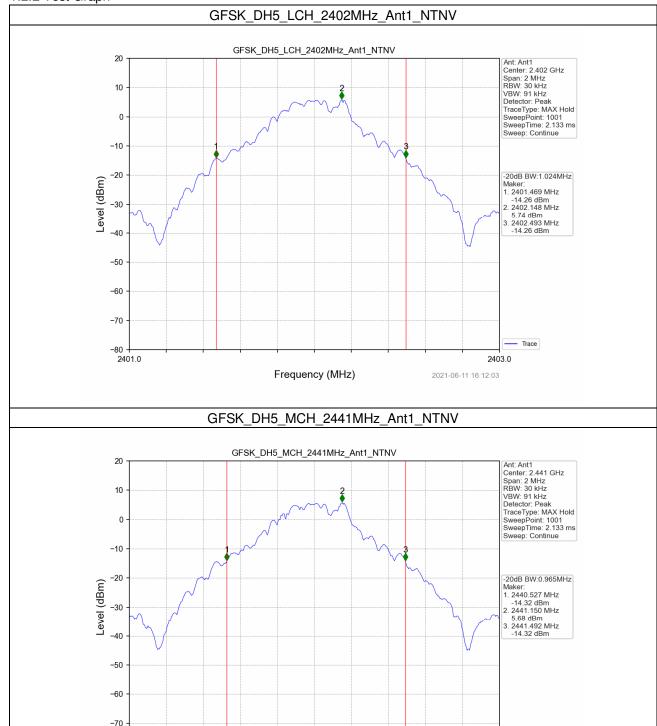




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1.2.2 Test Graph





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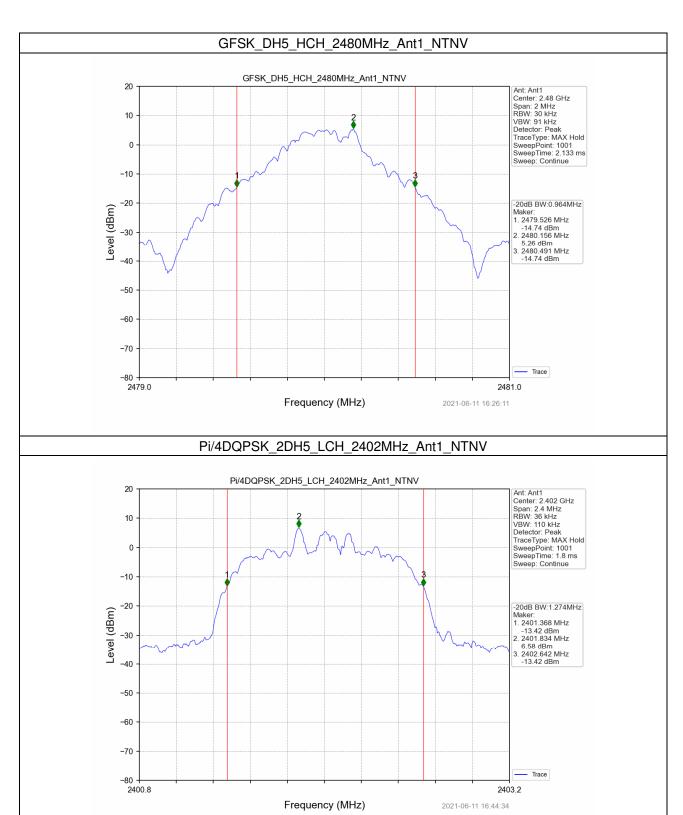
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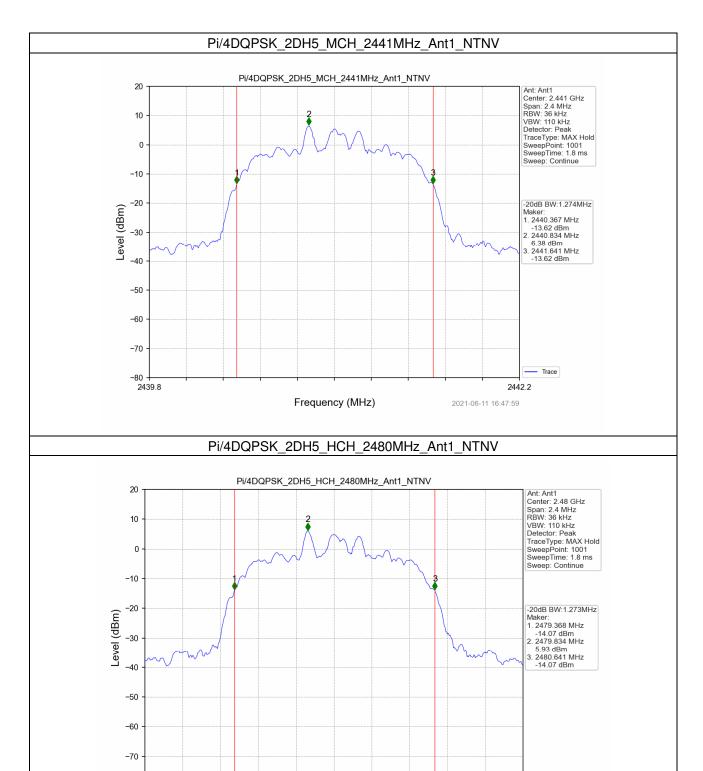
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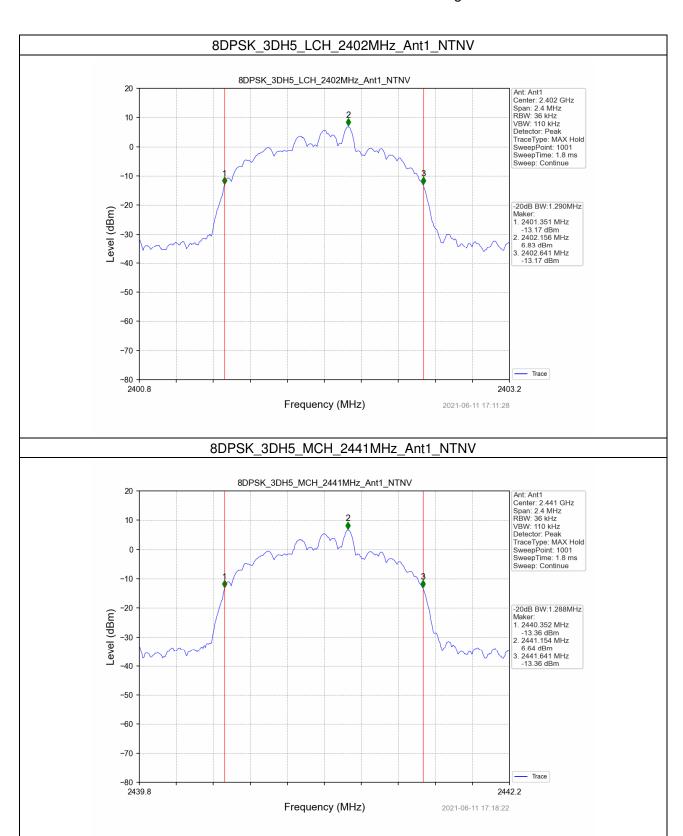
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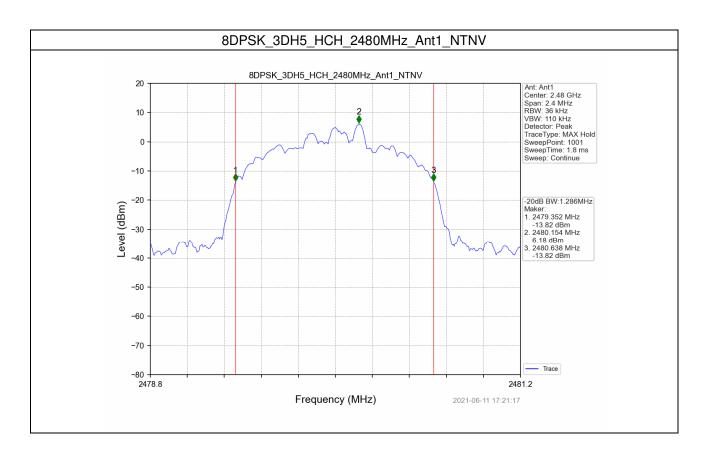
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Measured Peak Output Power (dBm) Ant1	Limit (dBm)	Verdict
		2402	DH5	8.18	<=30	Pass
GFSK	SISO	2441	DH5	7.98	<=30	Pass
		2480	DH5	7.50	<=30	Pass
		2402	2DH5	8.15	<=20.97	Pass
Pi/4DQPSK	SISO	2441	2DH5	7.96	<=20.97	Pass
		2480	2DH5	7.53	<=20.97	Pass
		2402	3DH5	8.21	<=20.97	Pass
8DPSK	SISO	2441	3DH5	8.04	<=20.97	Pass
		2480	3DH5	7.59	<=20.97	Pass

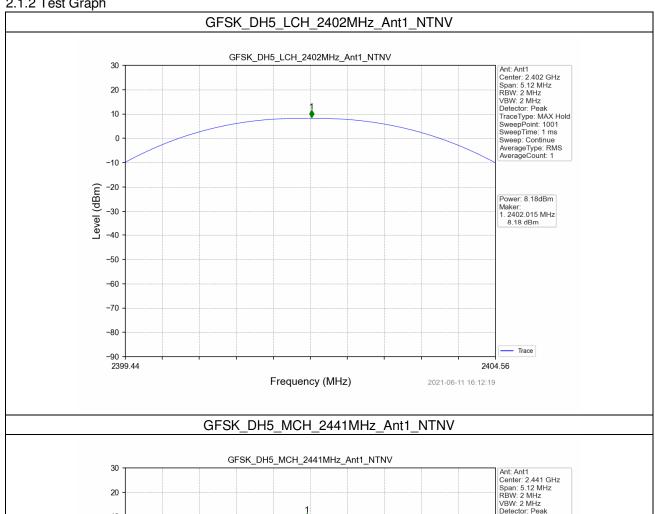


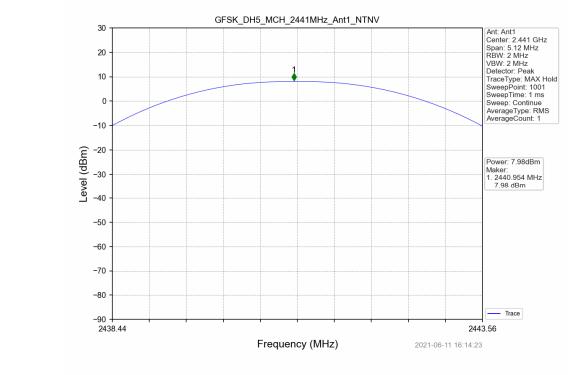


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2.1.2 Test Graph







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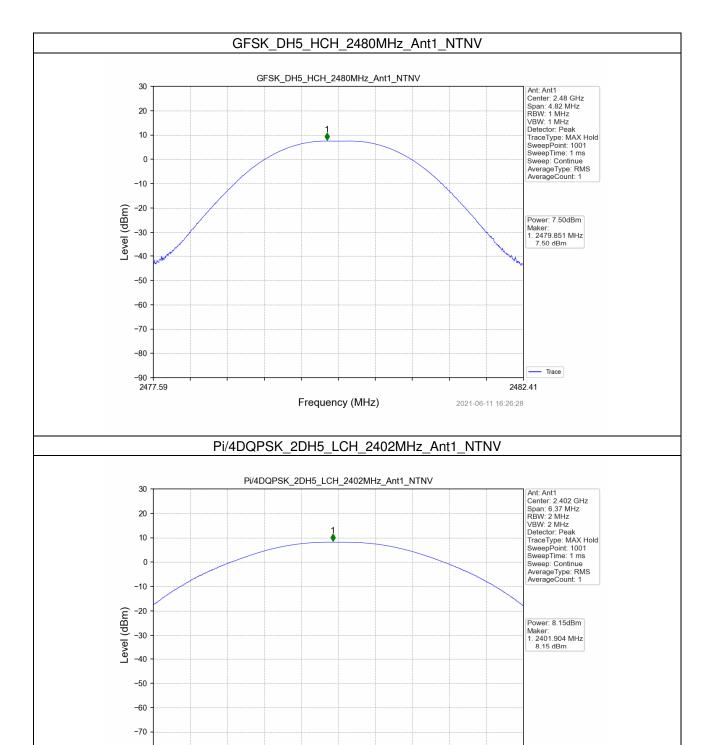
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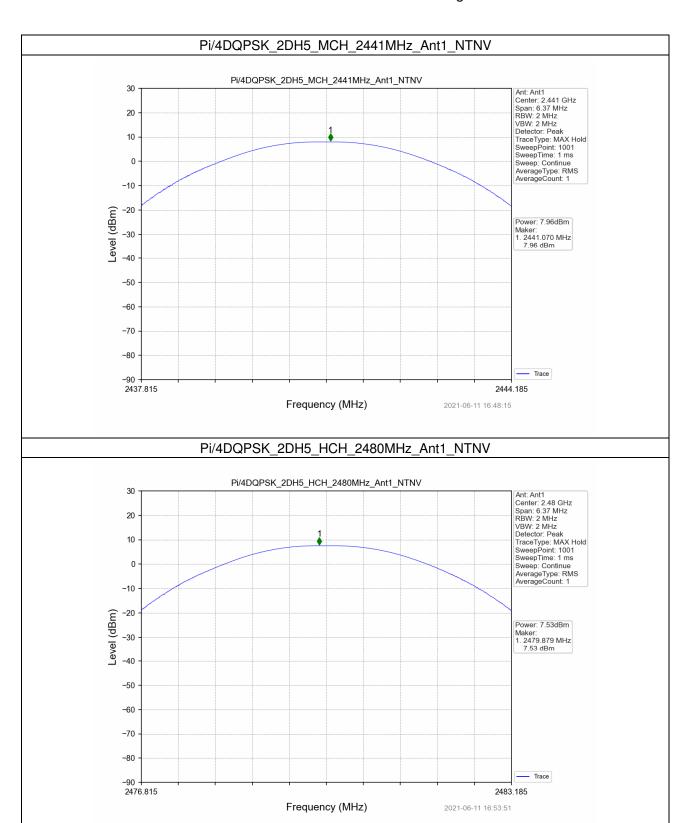
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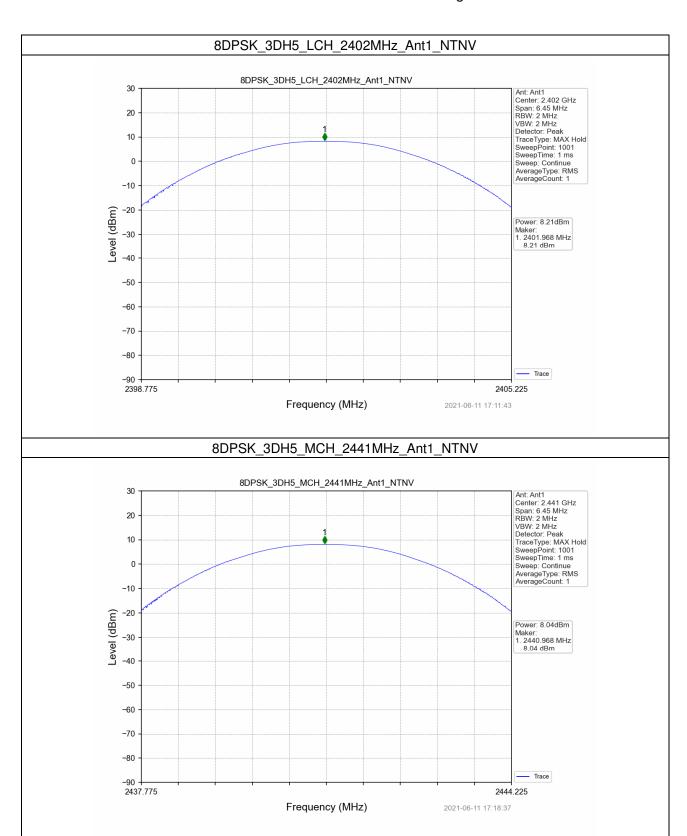
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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1										
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict			
GFSK	SISO	HOPP	DH5	1.00	1.02	>=0.683	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	0.99	1.27	>=0.849	Pass			
8DPSK	SISO	HOPP	3DH5	1.00	1.29	>=0.86	Pass			



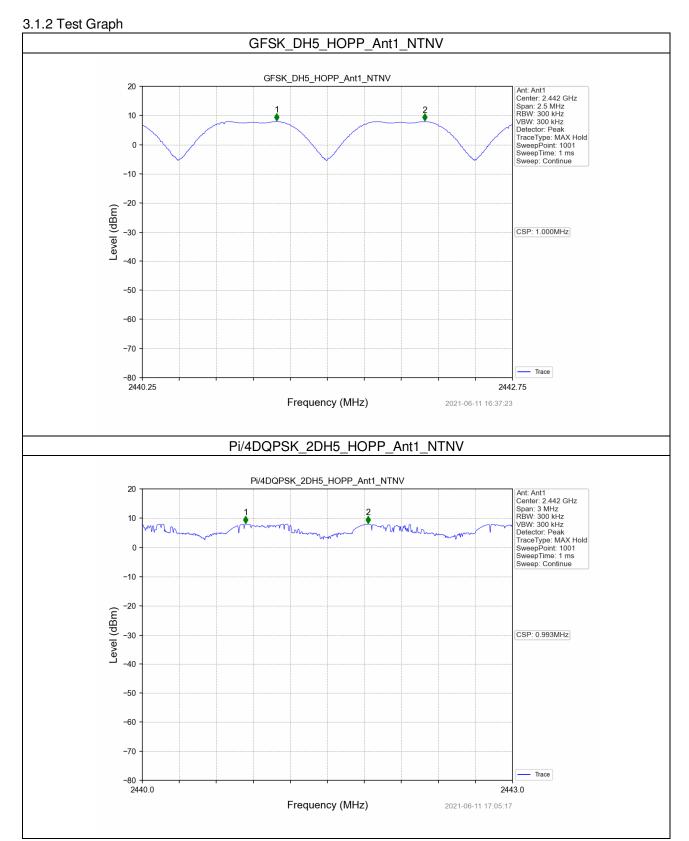
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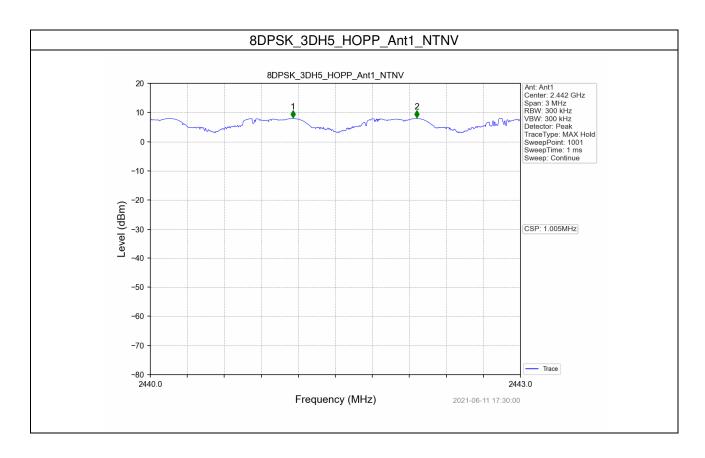
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies Ant1	Limit	Verdict
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



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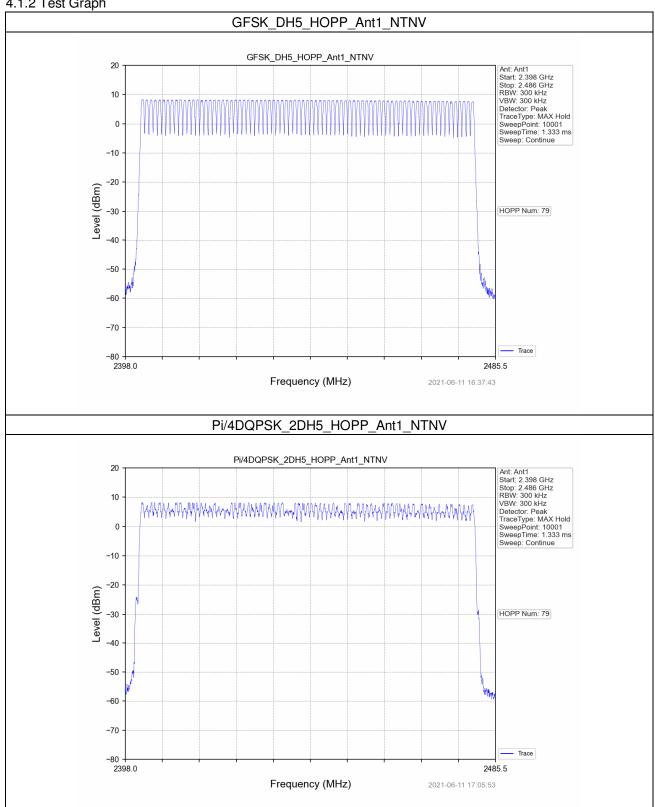
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4.1.2 Test Graph





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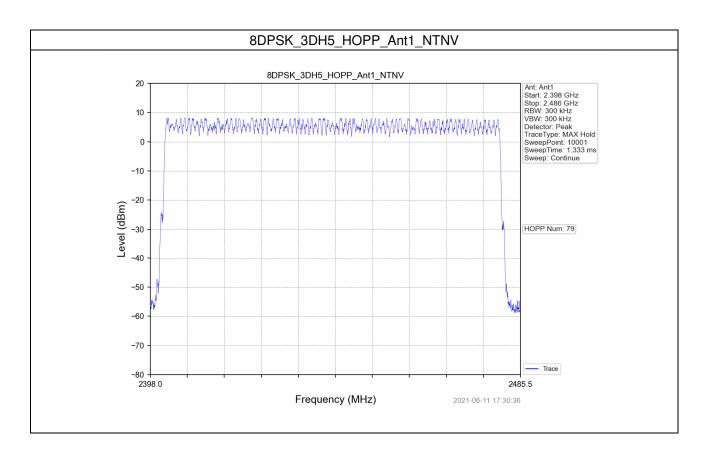
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

	Ant1										
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict		
	SISO	HOPP	DH1	0.38	31.60	319	119.94	<=400	Pass		
GFSK			DH3	1.63	31.60	159	259.81	<=400	Pass		
			DH5	2.88	31.60	106	305.28	<=400	Pass		
	SISO	SISO HOPP	2DH1	0.38	31.60	319	121.86	<=400	Pass		
Pi/4DQPSK			2DH3	1.63	31.60	159	259.81	<=400	Pass		
			2DH5	2.88	31.60	105	302.61	<=400	Pass		
	SISO	SISO HOPP	3DH1	0.38	31.60	319	121.86	<=400	Pass		
8DPSK			3DH3	1.63	31.60	159	259.49	<=400	Pass		
			3DH5	2.88	31.60	105	302.82	<=400	Pass		

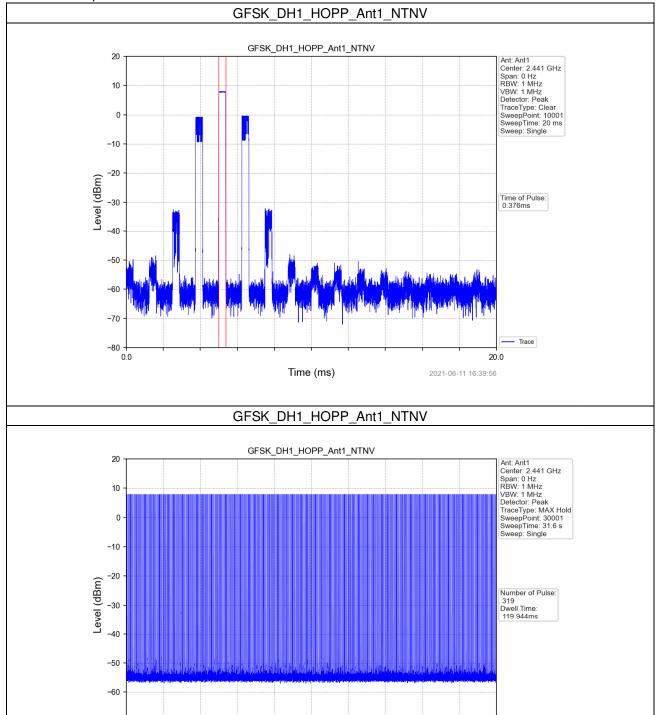




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5.1.2 Test Graph





-70

-80 0.0

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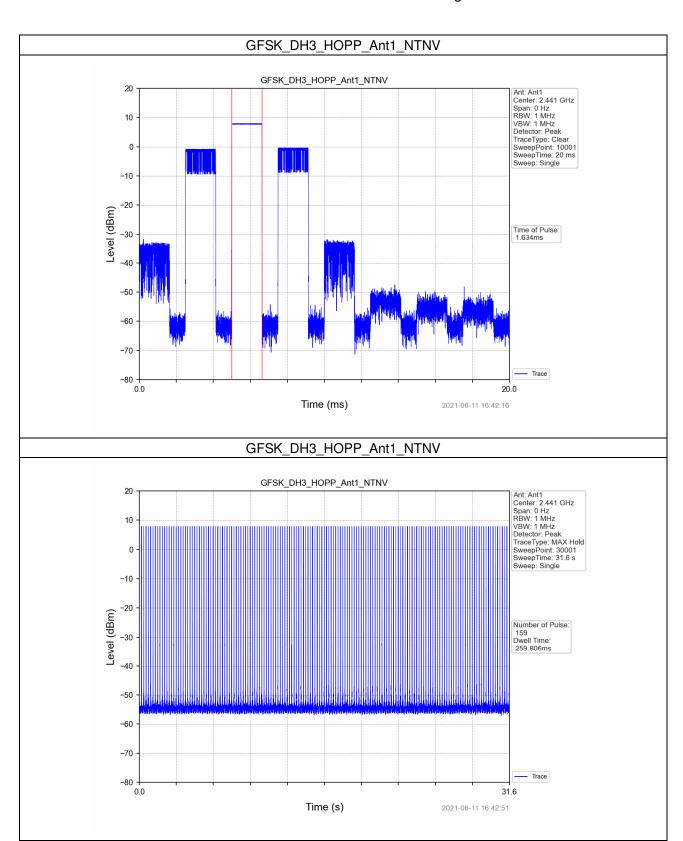
Trace

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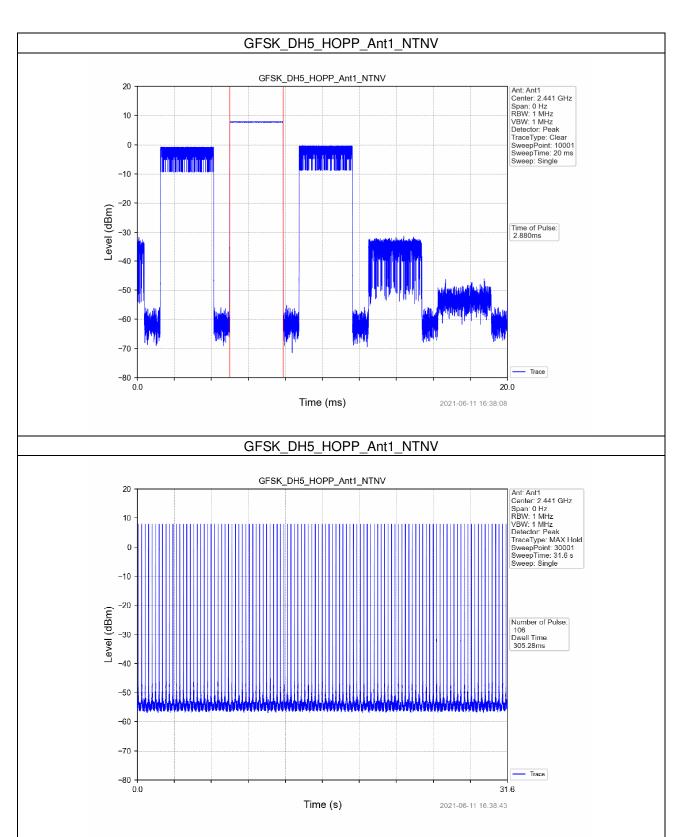
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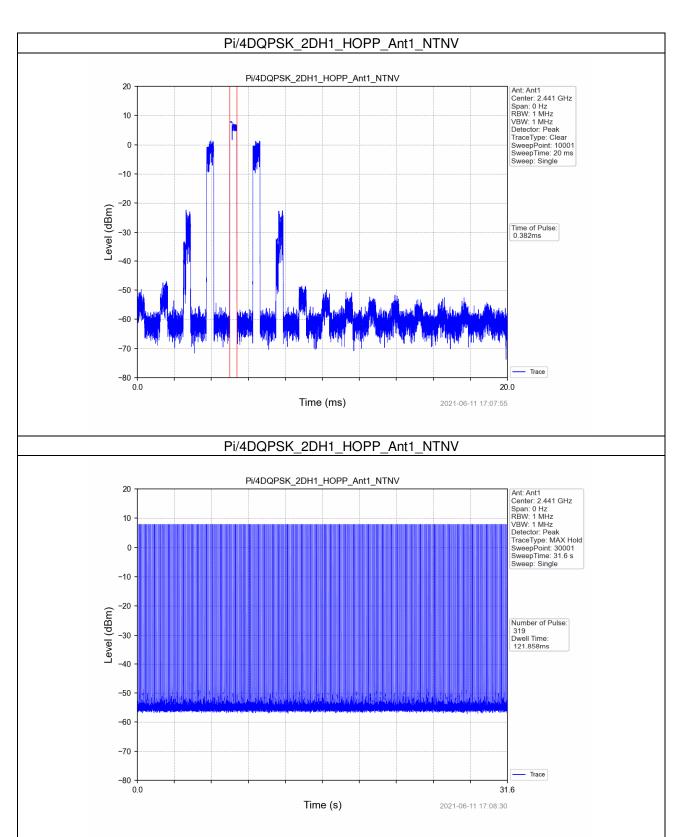
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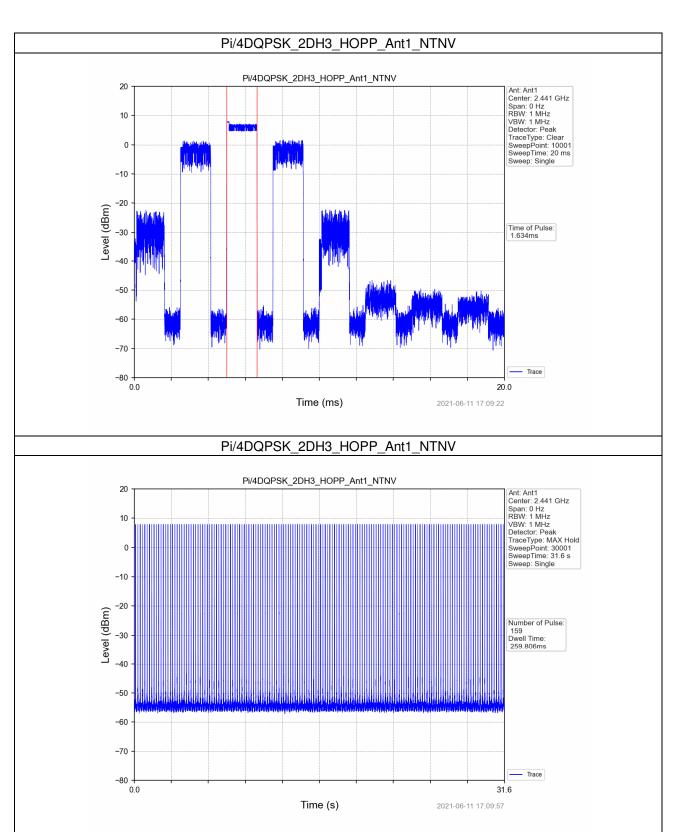
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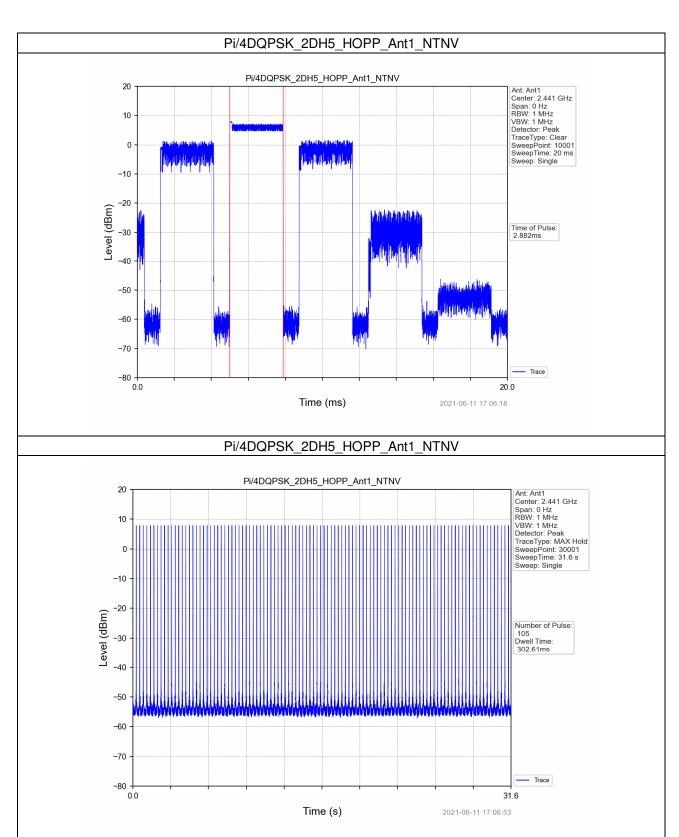
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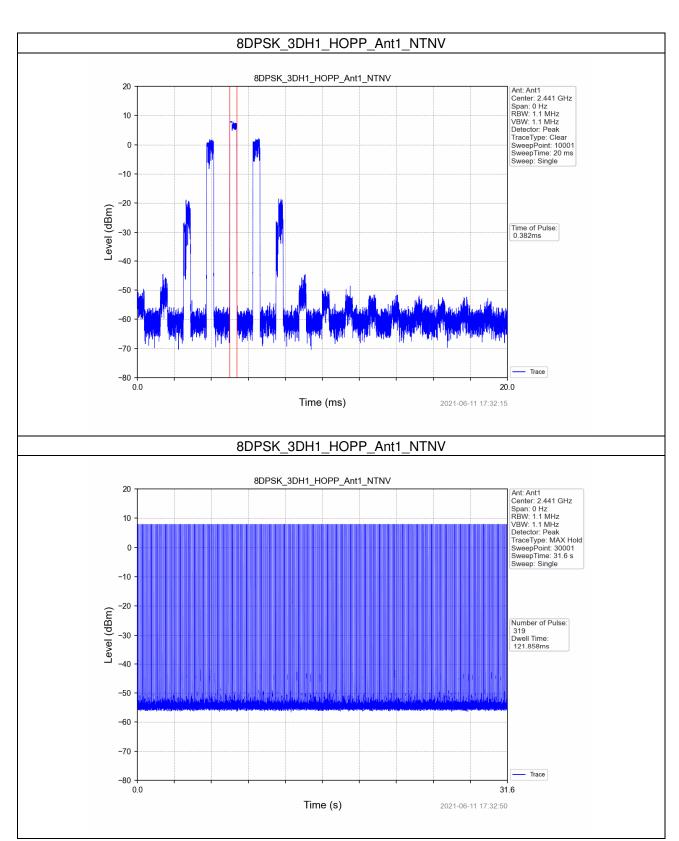
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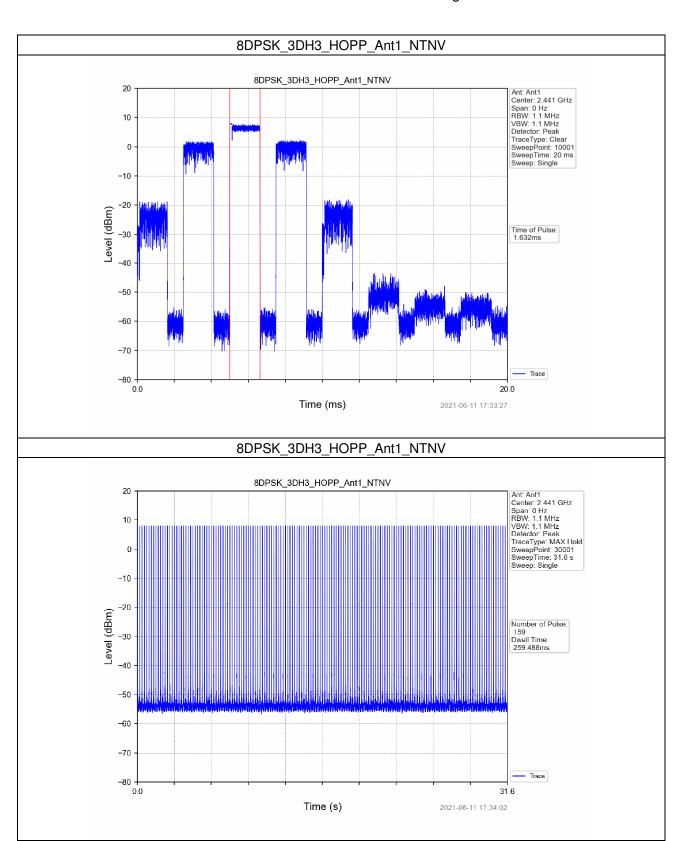
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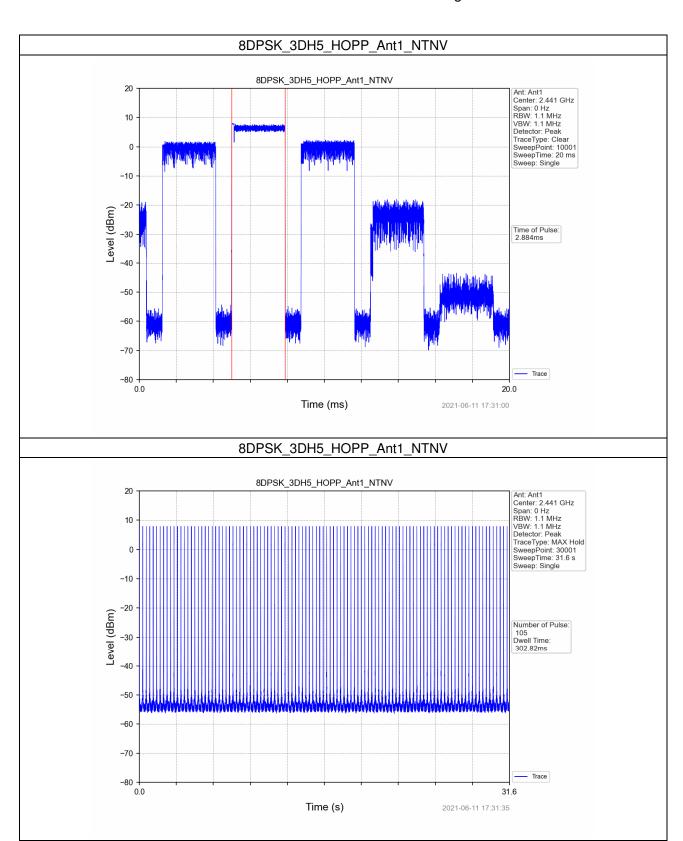
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	8.13	/	/
GFSK	SISO	2441	DH5	1	7.92	/	/
		2480	DH5	1	7.48	/	/
		2402	2DH5	1	8.11	/	/
Pi/4DQPSK	SISO	2441	2DH5	1	7.86	/	/
		2480	2DH5	1	7.41	/	/
8DPSK	SISO	2402	3DH5	1	8.11	/	/
		2441	3DH5	1	7.94	/	/
		2480	3DH5	1	7.48	/	/

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use

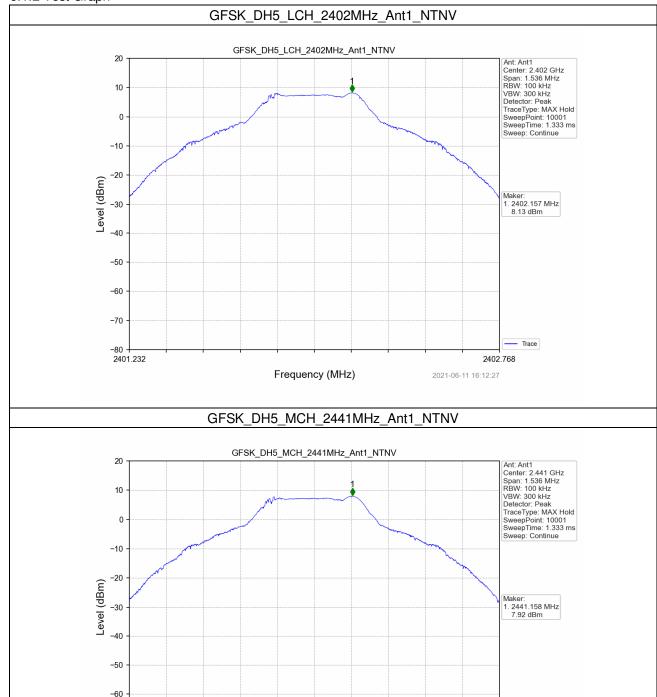




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6.1.2 Test Graph





-70

2440.232

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Frequency (MHz)

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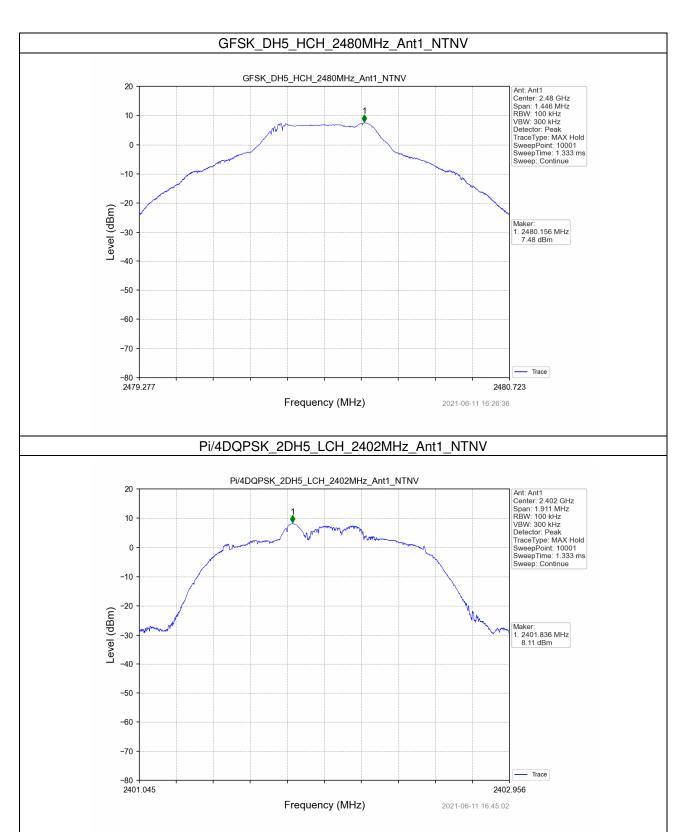
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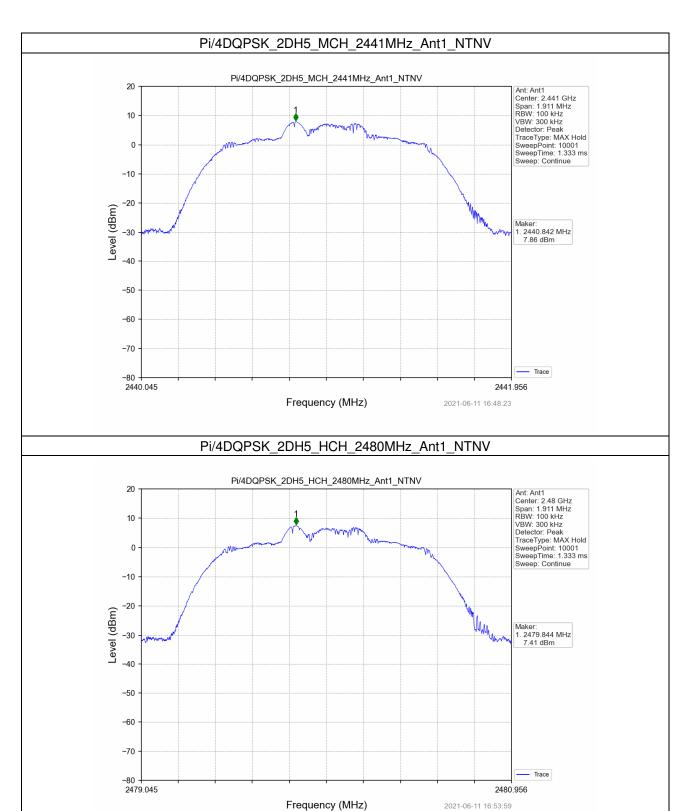
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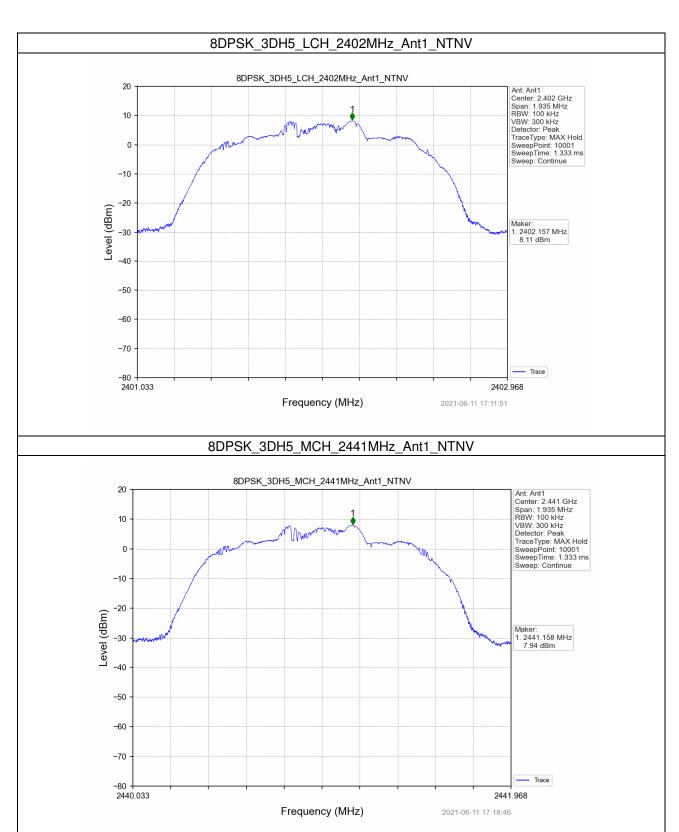
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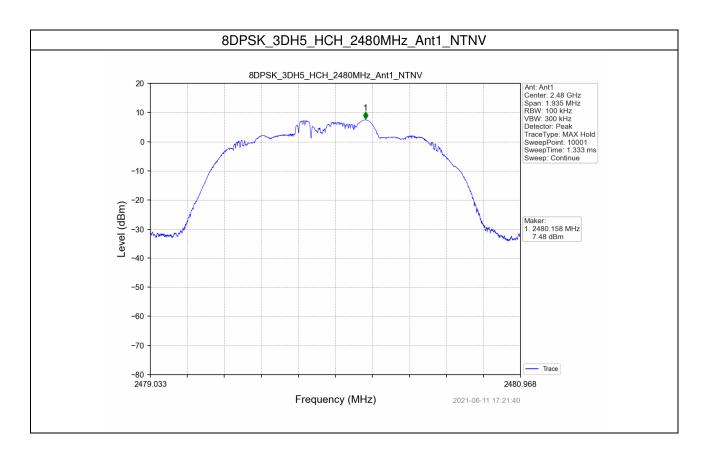
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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict		
		2402	DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
GFSK	SISO	2441	DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
GFSK	5150	2480	DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
		HOPP	DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
	SISO			2402	2DH5	1	Refer To Test Graph	Refer To Test Graph	Pass
Pi/4DQPSK		2441	2DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
FI/4DQF3N		2480	2DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
		НОРР	2DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
	SISO	2402	3DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
8DPSK		2441	3DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
		2480	3DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		
		НОРР	3DH5	1	Refer To Test Graph	Refer To Test Graph	Pass		

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use



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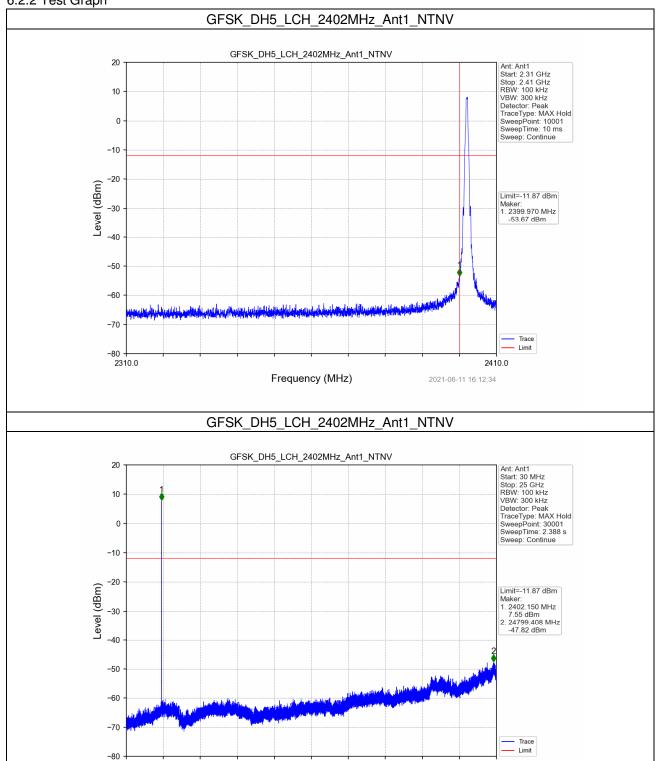
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6.2.2 Test Graph





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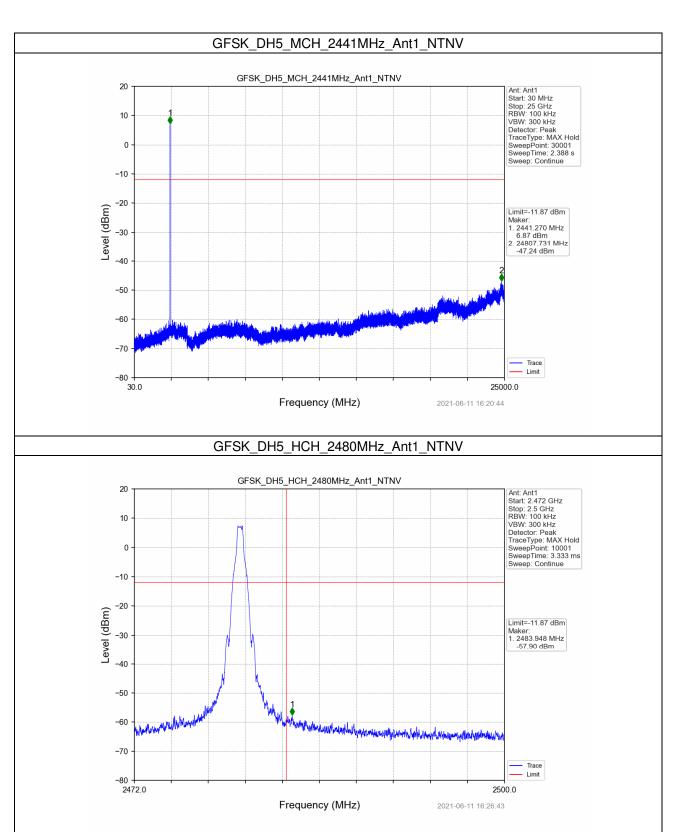
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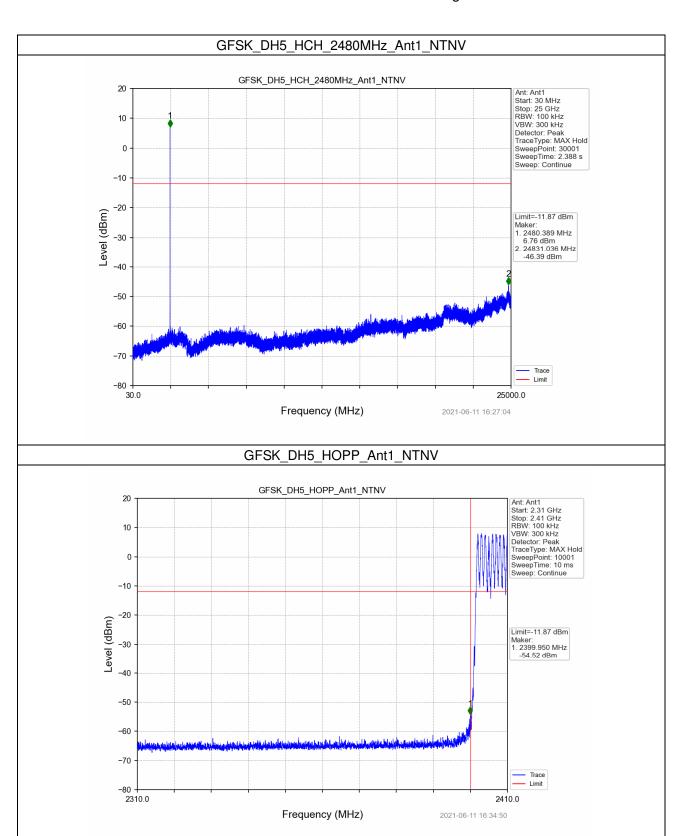
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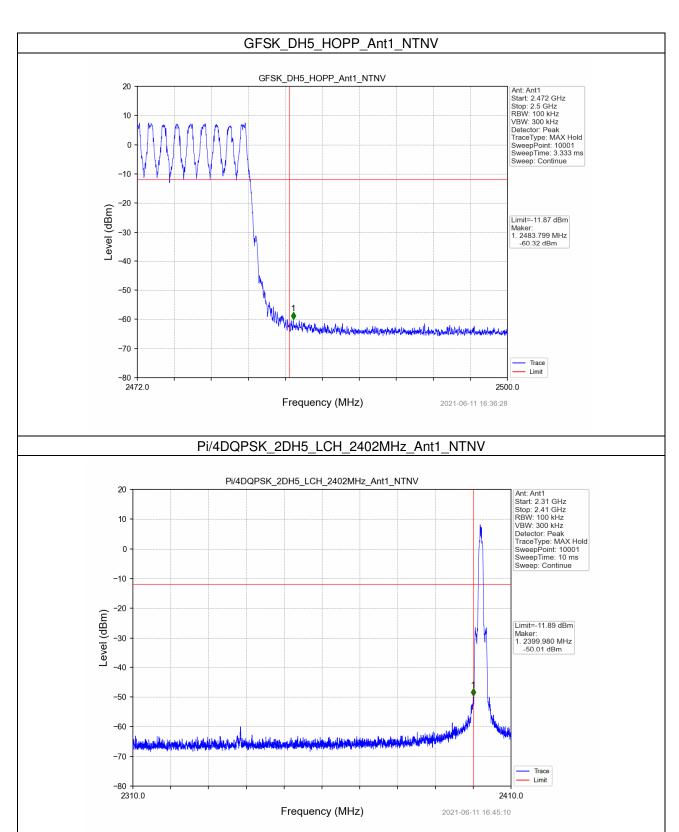
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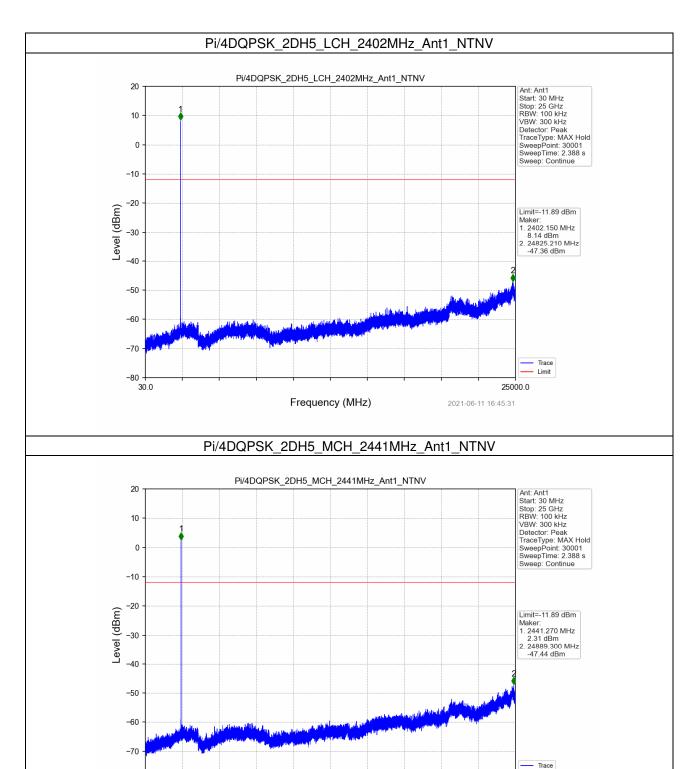
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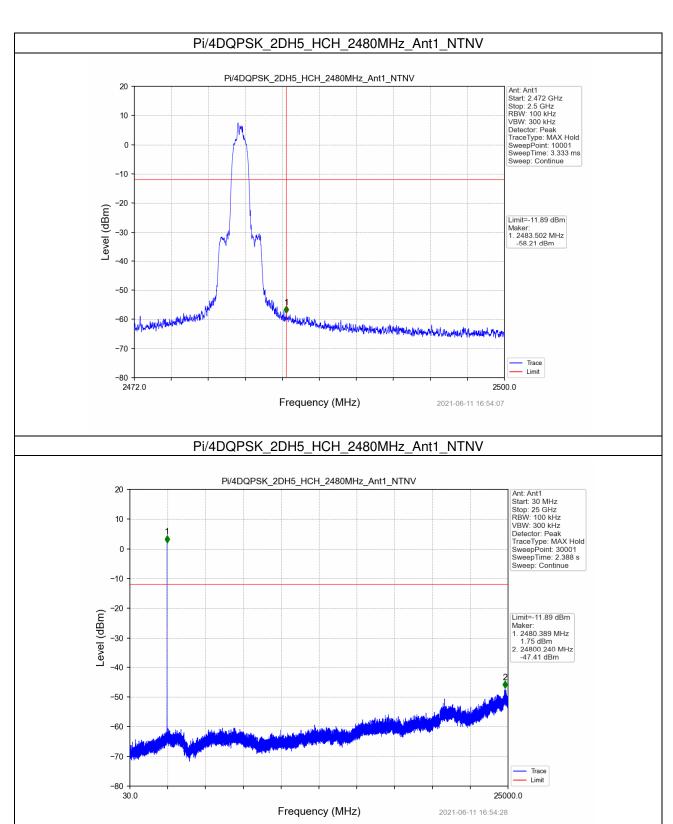
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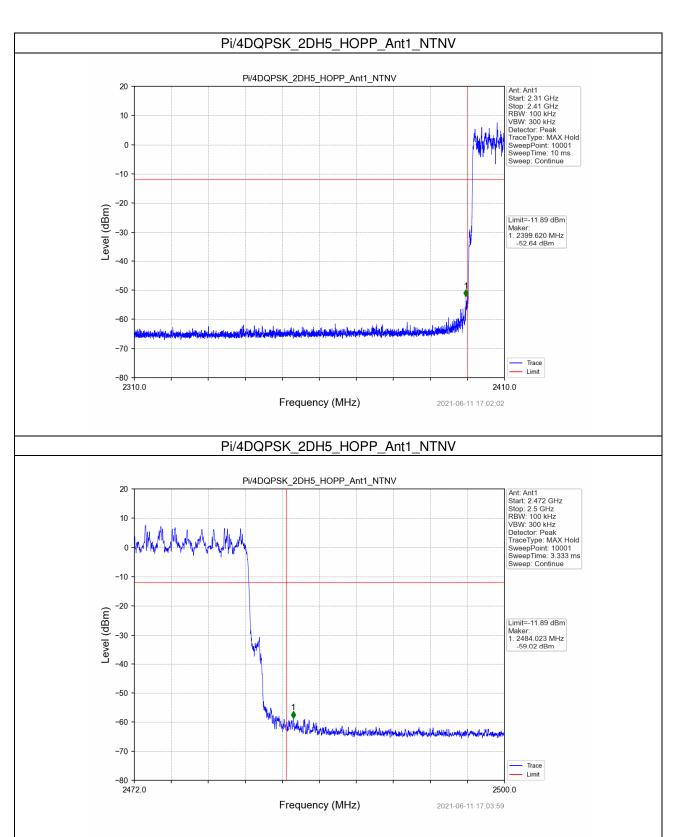
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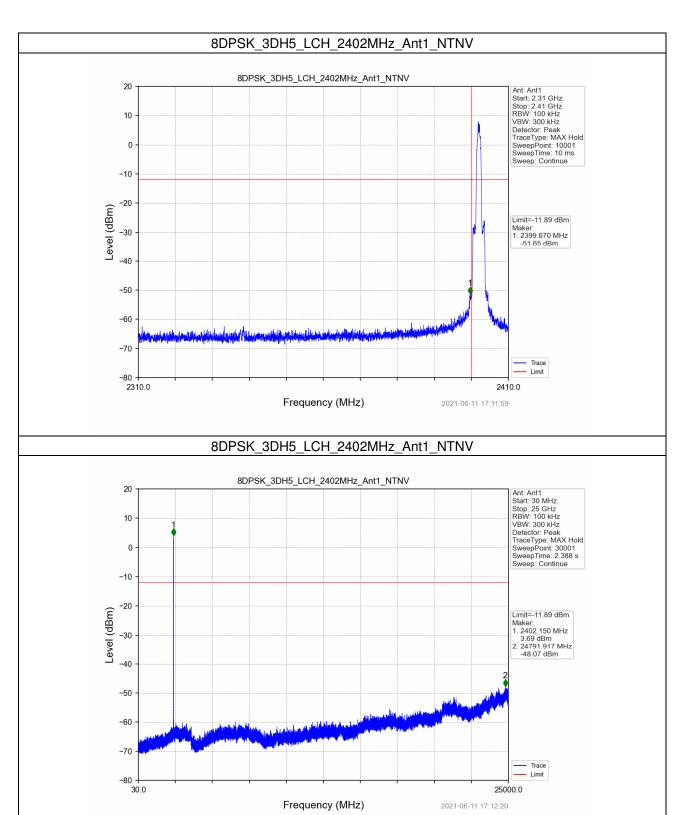
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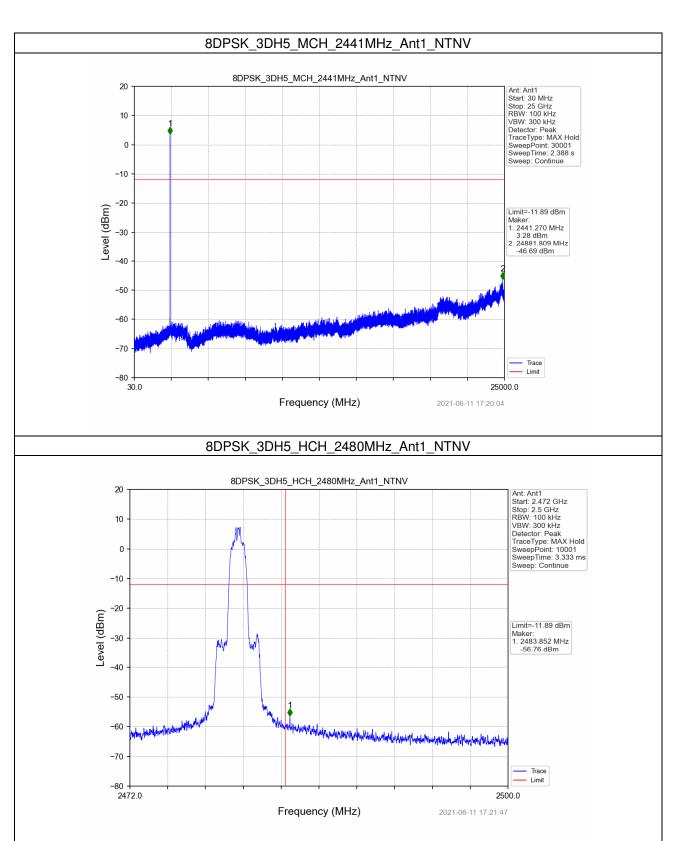
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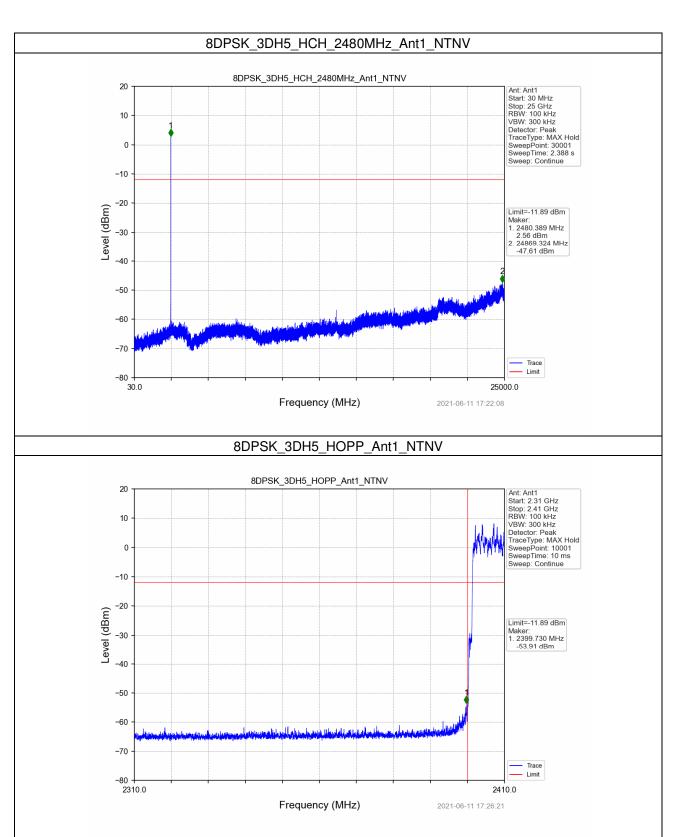
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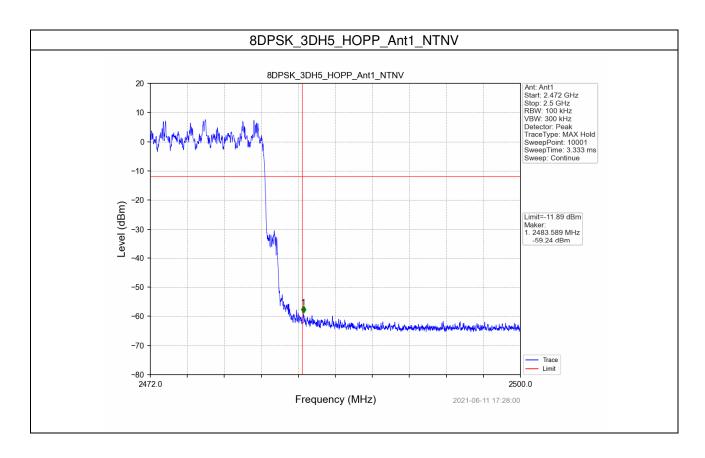
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For Left earbuds

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency	Packet Type	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict			
Mode		(MHz)		Ant1	LITTIL (IVIF12)	verdict			
		2402	DH5	0.885	/	Note1			
GFSK	SISO	2441	DH5	0.885	/	Note1			
		2480	DH5	0.882	/	Note1			
	SISO	2402	2DH5	1.160	/	Note1			
Pi/4DQPSK		2441	2DH5	1.157	/	Note1			
		2480	2DH5	1.156	/	Note1			
	SISO	2402	3DH5	1.168	/	Note1			
8DPSK		2441	3DH5	1.165	/	Note1			
		2480	3DH5	1.164	/	Note1			
Note1: Onl	Note1: Only for Report Use								

