

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400104402

Page: 1 of 147

TEST REPORT

Application No.: SZCR2304001044AT **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: Dime 3/Dime XT 3

Model No.: S2DCW

Trade Mark:

Skullcandy

FCC ID: Y22-S2DCW

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

Date of Receipt: 2023-04-12

Date of Test: 2023-04-15 to 2023-04-24

Date of Issue: 2023-04-27

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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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 Rem						
01		2023-04-27		Original			

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



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2 **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 Matter Part					
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	- Caspan C 1012 II	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

Details of E.U.T.

Left earbuds: Li-Ion Polymer Battery DC3.7V 38mAh (Charged by travel case)
Right earbuds: Li-Ion Polymer Battery DC3.7V 38mAh (Charged by travel case)
travel case with backup battery: Li-Ion Polymer Battery DC3.7V 175mAh (Charged by USB port)
USB cable:16cm unshielded
2402MHz to 2480MHz
V5.3 Dual mode
GFSK, pi/4DQPSK, 8DPSK
79
1MHz
Frequency Hopping Spread Spectrum(FHSS)
FPC Antenna
Left earbuds: 1.56dBi, Right earbuds: 0.63dBi
1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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

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)



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Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB
·	

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI 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.

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

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. 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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

Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Hopping Channel Numb	er				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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Dwell Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

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	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07



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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07

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	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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

15.203 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: 1.56dBi, Right earbuds: 0.63dBi.

Antenna location: Refer to internal photos



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

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

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.



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Compliance for section 15.247(h):

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

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



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Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 50.0 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

	The state of the s			
Pre-scan / Final test	Mode Code	Description		
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.		
Final test	01	TX_non-Hop mode(right earbud)_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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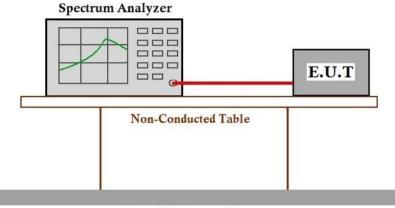


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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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

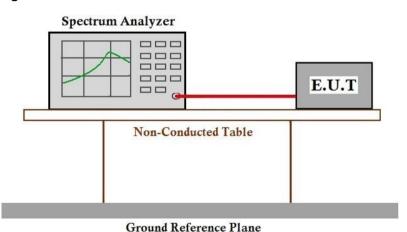
Operating Environment:

Temperature: 24.8 °C Humidity: 50.0 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_non-Hop mode(right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

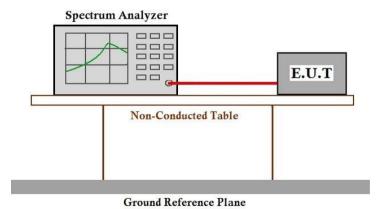
Operating Environment:

Temperature: 24.8 °C Humidity: 50.0 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	02	TX_Hop mode(left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Final test	03	TX_Hop mode(right earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Hopping Channel Number

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

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

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
002.029	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

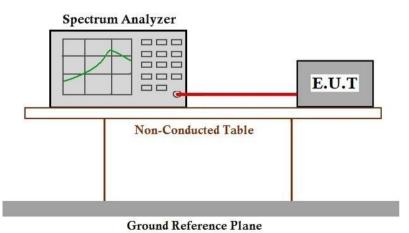
Operating Environment:

Temperature: 24.8 °C Humidity: 50.0 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	02	TX_Hop mode(left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test	03	TX_Hop mode(right earbud)_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





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7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details





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7.5 Dwell Time

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

Limit:

Frequency(MHz)	Limit			
002.029	0.4S within a 20S period(20dB bandwidth<250kHz)			
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)			
2400 2402 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: 24.8 °C Humidity: 50.0 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Final test	02	TX_Hop mode(left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test	03	TX_Hop mode(right earbud)_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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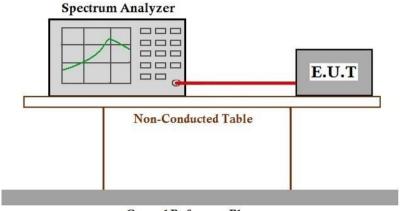


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Band Edges Measurement

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

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Atmospheric Pressure: 1015 mbar Humidity: 50.0 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_non-Hop mode(right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_Hop mode(left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX_Hop mode(right earbud)_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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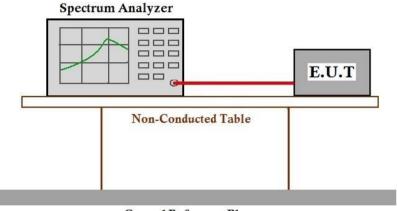


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7.6.3 Test Setup Diagram



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

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) 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: 24.8 °C Atmospheric Pressure: 1015 mbar Humidity: 50.0 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.				
Final test	01	TX_non-Hop mode(right earbud)_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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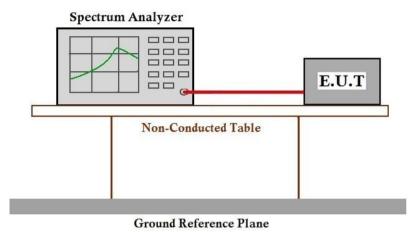


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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions which fall in the restricted bands

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

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

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: 21.6 °C Humidity: 60.0 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					
Final test	01	TX_non-Hop mode(right earbud)_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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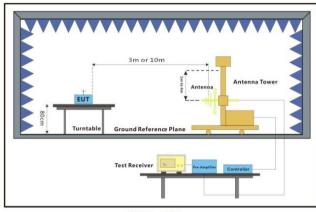


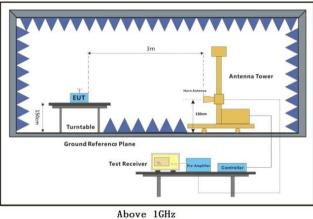
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7.8.3 Test Setup Diagram





30MHz-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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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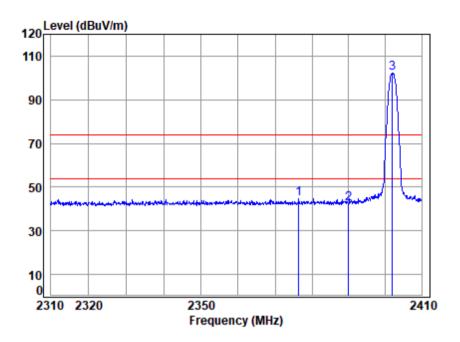


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 01044AT/01045AT Job No Mode : 2402 Band edge

Note : BT L

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2376.430	4.24	28.71	35.65	47.35	44.65	74.00	-29.35	peak	
2	2390.000	4.25	28.76	35.64	45.19	42.56	74.00	-31.44	peak	
3 a	2402.000	4.26	28.81	35.64	104.58	102.01	74.00	28.01	peak	



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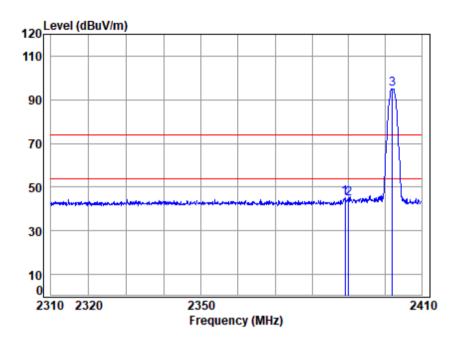


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT 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		
	2388.951	4.25	28.76	35.64	47.63	45.00	74.00	-29.00	peak	
)	2390.000	4.25	28.76	35.64	47.15	44.52	74.00	-29.48	peak	
;	q 2402.000	4.26	28.81	35.64	97.69	95.12	74.00	21.12	peak	



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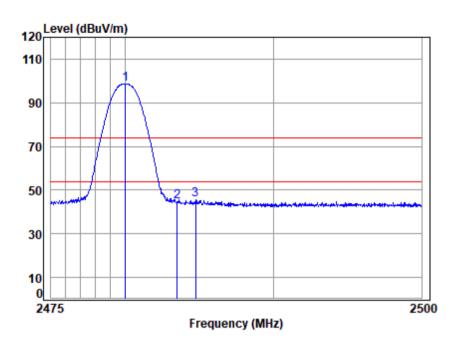


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01044AT/01045AT Job No Mode : 2480 Band edge

Note : BT L

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2480.000	4.34	29.28	35.61	100.43	98.44	74.00	24.44	peak	
2	2483.500	4.34	29.30	35.61	46.73	44.76	74.00	-29.24	peak	
3	2484.720	4.35	29.31	35.61	47.54	45.59	74.00	-28.41	peak	



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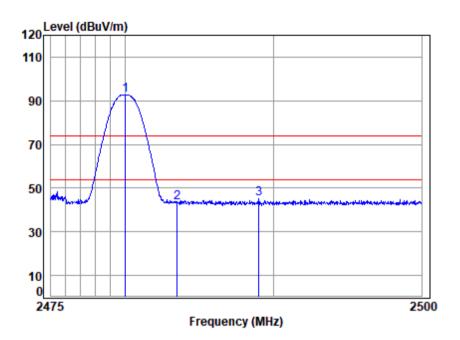


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT Mode : 2480 Band edge

Note : BT L

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2480.000	4.34	29.28	35.61	94.72	92.73	74.00	18.73	peak	
2		2483.500	4.34	29.30	35.61	45.45	43.48	74.00	-30.52	peak	
3		2488.994	4.35	29.33	35.61	46.93	45.00	74.00	-29.00	peak	



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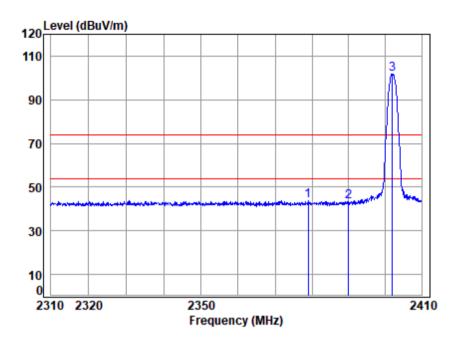


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2402 Band edge

Note : BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2378.949	4.24	28.72	35.64	46.59	43.91	74.00	-30.09	peak
2	2390.000	4.25	28.76	35.64	46.04	43.41	74.00	-30.59	peak
3 q	2402.000	4.26	28.81	35.64	104.18	101.61	74.00	27.61	peak



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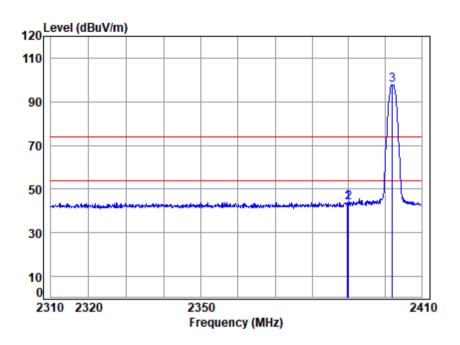


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT 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		
	2389.659	4.25	28.76	35.64	46.61	43.98	74.00	-30.02	peak	
)	2390.000	4.25	28.76	35.64	46.27	43.64	74.00	-30.36	peak	
;	q 2402.000	4.26	28.81	35.64	100.41	97.84	74.00	23.84	peak	



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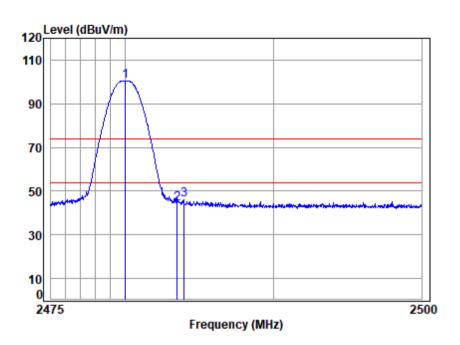


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT 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 q	2480.000	4.34	29.28	35.61	102.58	100.59	74.00	26.59	peak
2	2483.500	4.34	29.30	35.61	46.19	44.22	74.00	-29.78	peak
3	2483.946	4.34	29.30	35.61	47.87	45.90	74.00	-28.10	peak



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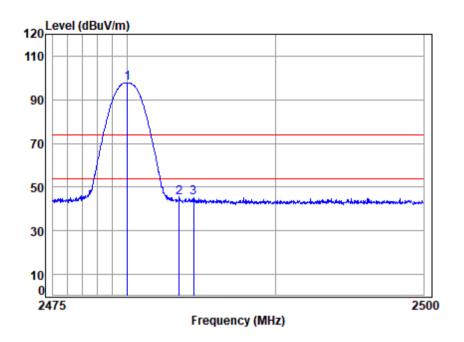


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT Mode : 2480 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	dB	dBuV	dBuV/m	dBuV/m	dB		
q	2480.000	4.34	29.28	35.61	99.57	97.58	74.00	23.58	peak	
2	2483.500	4.34	29.30	35.61	47.21	45.24	74.00	-28.76	peak	
;	2484.470	4.34	29.31	35.61	47.32	45.36	74.00	-28.64	peak	



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7.9 Radiated Spurious Emissions Below 1GHz

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

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test 00		TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_non-Hop mode(right earbud)_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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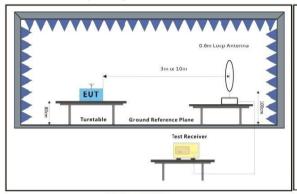


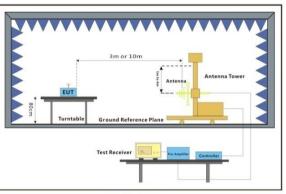
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7.9.3 Test Setup Diagram





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 or 10 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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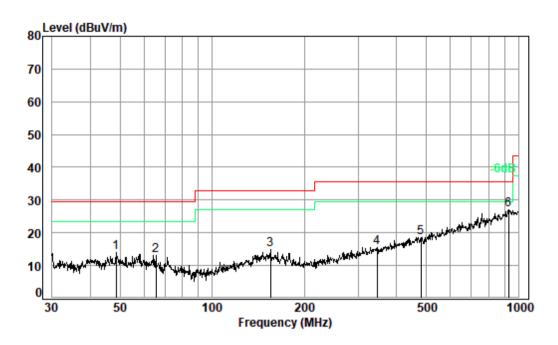


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Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 01044AT

Test Mode: 00

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.672	28.45	17.20	0.61	32.40	13.86	29.50	-15.64	
2	65.573	28.88	16.00	0.70	32.40	13.18	29.50	-16.32	
3	154.821	28.35	17.82	1.03	32.40	14.80	33.00	-18.20	
4	345.595	27.92	18.55	1.51	32.40	15.58	35.60	-20.02	
5	480.528	27.87	21.49	1.81	32.48	18.69	35.60	-16.91	
6 pp	929.008	27.97	28.10	2.47	31.44	27.10	35.60	-8.50	



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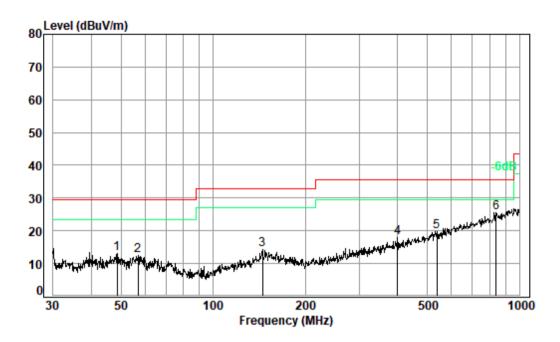


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Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL

: 01044AT Job No.

Test Mode: 00

		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	48.502	27.57	17.21	0.61	32.40	12.99	29.50	-16.51		
2	56.792	26.90	17.29	0.64	32.40	12.43	29.50	-17.07		
3	144.842	28.43	17.26	0.99	32.40	14.28	33.00	-18.72		
4	400.432	28.95	19.82	1.60	32.40	17.97	35.60	-17.63		
5	537.589	27.67	22.64	1.92	32.50	19.73	35.60	-15.87		
6 p	p 839.182	28.55	26.80	2.37	32.06	25.66	35.60	-9.94		



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Test result from 10m to 3m distance:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
48.67	13.86	4.93	16.44	24.32	40.00	-15.68	Н
65.57	13.18	4.56	15.20	23.64	40.00	-16.36	Н
154.82	14.80	5.50	18.32	25.26	43.50	-18.24	Н
345.60	15.58	6.01	20.04	26.04	46.00	-19.96	Н
480.53	18.69	8.60	28.67	29.15	46.00	-16.85	Н
929.01	27.10	22.65	75.49	37.56	46.00	-8.44	Н
48.50	12.99	4.46	14.87	23.45	40.00	-16.55	V
56.79	12.43	4.18	13.94	22.89	40.00	-17.11	V
144.84	14.28	5.18	17.25	24.74	43.50	-18.76	V
400.43	17.97	7.92	26.39	28.43	46.00	-17.57	V
537.59	19.73	9.69	32.31	30.19	46.00	-15.81	V
839.18	25.66	19.19	63.96	36.12	46.00	-9.88	V



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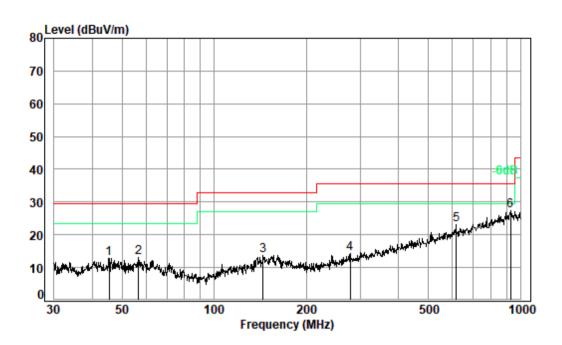


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Test Mode: 01; Polarity: Horizontal



Condition: 10m HORIZONTAL

: 01044AT Job No.

Test Mode: 01

		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
_										
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	45.375	27.30	17.29	0.61	32.42	12.78	29.50	-16.72		
2	56.593	27.61	17.30	0.64	32.40	13.15	29.50	-16.35		
3	144.335	27.96	17.24	0.99	32.40	13.79	33.00	-19.21		
4	278.067	27.95	17.24	1.39	32.40	14.18	35.60	-21.42		
5	616.372	29.42	24.06	2.06	32.50	23.04	35.60	-12.56		
6 pp	929.008	28.20	28.10	2.47	31.44	27.33	35.60	-8.27		



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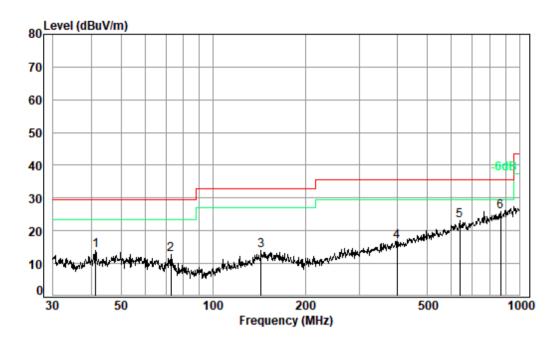


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Test Mode: 01; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 01044AT

Test Mode: 01

		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	41.422	28.73	17.18	0.60	32.43	14.08	29.50	-15.42		
2	72.847	29.73	14.64	0.76	32.40	12.73	29.50	-16.77		
3	143.326	28.09	17.21	0.99	32.40	13.89	33.00	-19.11		
4	399.030	27.74	19.83	1.60	32.40	16.77	35.60	-18.83		
5	638.369	28.89	24.48	2.10	32.50	22.97	35.60	-12.63		
6 pp	869.130	28.32	26.96	2.40	31.89	25.79	35.60	-9.81		
	2 3 4 5	MHz 1 41.422 2 72.847 3 143.326 4 399.030 5 638.369	Freq Level MHz dBuV 1 41.422 28.73 2 72.847 29.73 3 143.326 28.09 4 399.030 27.74 5 638.369 28.89	Freq Level Factor MHz dBuV dB/m 1 41.422 28.73 17.18 2 72.847 29.73 14.64 3 143.326 28.09 17.21 4 399.030 27.74 19.83 5 638.369 28.89 24.48	Freq Level Factor Loss MHz dBuV dB/m dB/m dB 1 41.422 28.73 17.18 0.60 0.60 2 72.847 29.73 14.64 0.76 0.76 3 143.326 28.09 17.21 0.99 0.99 4 399.030 27.74 19.83 1.60 1.60 5 638.369 28.89 24.48 2.10	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 1 41.422 28.73 17.18 0.60 32.43 2 72.847 29.73 14.64 0.76 32.40 3 143.326 28.09 17.21 0.99 32.40 4 399.030 27.74 19.83 1.60 32.40 5 638.369 28.89 24.48 2.10 32.50	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 1 41.422 28.73 17.18 0.60 32.43 14.08 2 72.847 29.73 14.64 0.76 32.40 12.73 3 143.326 28.09 17.21 0.99 32.40 13.89 4 399.030 27.74 19.83 1.60 32.40 16.77 5 638.369 28.89 24.48 2.10 32.50 22.97	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 1 41.422 28.73 17.18 0.60 32.43 14.08 29.50 2 72.847 29.73 14.64 0.76 32.40 12.73 29.50 3 143.326 28.09 17.21 0.99 32.40 13.89 33.00 4 399.030 27.74 19.83 1.60 32.40 16.77 35.60 5 638.369 28.89 24.48 2.10 32.50 22.97 35.60	MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 1 41.422 28.73 17.18 0.60 32.43 14.08 29.50 -15.42 2 72.847 29.73 14.64 0.76 32.40 12.73 29.50 -16.77 3 143.326 28.09 17.21 0.99 32.40 13.89 33.00 -19.11 4 399.030 27.74 19.83 1.60 32.40 16.77 35.60 -18.83 5 638.369 28.89 24.48 2.10 32.50 22.97 35.60 -12.63	Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dBuV/m dB 1 41.422 28.73 17.18 0.60 32.43 14.08 29.50 -15.42 2 72.847 29.73 14.64 0.76 32.40 12.73 29.50 -16.77 3 143.326 28.09 17.21 0.99 32.40 13.89 33.00 -19.11 4 399.030 27.74 19.83 1.60 32.40 16.77 35.60 -18.83 5 638.369 28.89 24.48 2.10 32.50 22.97 35.60 -12.63



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Test result from 10m to 3m distance:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
45.38	12.78	4.36	14.52	23.24	40.00	-16.76	Н
56.59	13.15	4.54	15.15	23.61	40.00	-16.39	Н
144.34	13.79	4.89	16.31	24.25	43.50	-19.25	Н
278.07	14.18	5.12	17.06	24.64	46.00	-21.36	Н
616.37	23.04	14.19	47.30	33.50	46.00	-12.50	Н
929.01	27.33	23.25	77.51	37.79	46.00	-8.21	Н
45.38	12.78	4.36	14.52	23.24	40.00	-16.76	V
56.59	13.15	4.54	15.15	23.61	40.00	-16.39	V
144.34	13.79	4.89	16.31	24.25	43.50	-19.25	V
278.07	14.18	5.12	17.06	24.64	46.00	-21.36	V
616.37	23.04	14.19	47.30	33.50	46.00	-12.50	V
929.01	27.33	23.25	77.51	37.79	46.00	-8.21	V



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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

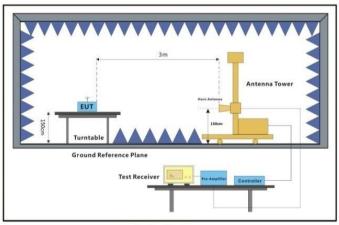
Operating Environment:

21.6 °C Temperature: Humidity: 60.0 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_non-Hop mode(right earbud)_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



Above 1GHz



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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. Remark:
- 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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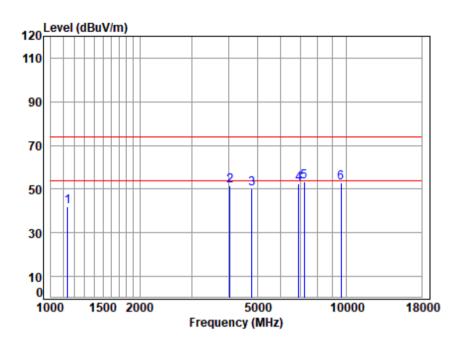


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2402 TX RSE

: 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		1138.904	2.70	24.16	37.91	52.96	41.91	74.00	-32.09	peak
2		4039.212	6.32	32.86	34.36	46.55	51.37	74.00	-22.63	peak
3		4804.000	7.04	33.82	34.86	44.06	50.06	74.00	-23.94	peak
4		6894.806	8.30	35.60	35.82	44.36	52.44	74.00	-21.56	peak
5	q	7206.000	8.52	35.80	35.95	44.92	53.29	74.00	-20.71	peak
6		9608 000	10 39	37 10	35 55	/11 15	53 09	7/ 00	-20 91	neak



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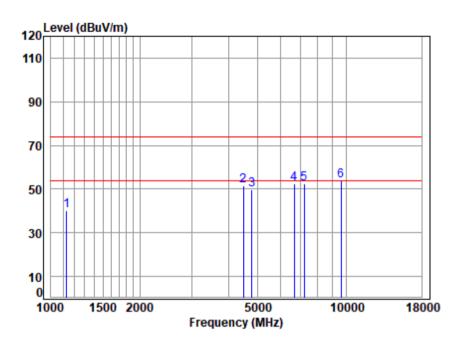


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Report No.: SZCR230400104402

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2402 TX RSE

: 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	1129.072	2.68	24.12	37.94	51.38	40.24	74.00	-33.76	peak
2	4495.125	6.77	33.50	34.67	45.85	51.45	74.00	-22.55	peak
3	4804.000	7.04	33.82	34.86	43.76	49.76	74.00	-24.24	peak
4	6679.040	8.27	35.60	35.65	44.28	52.50	74.00	-21.50	peak
5	7206.000	8.52	35.80	35.95	44.14	52.51	74.00	-21.49	peak
6	q 9608.000	10.39	37.10	35.55	41.83	53.77	74.00	-20.23	peak



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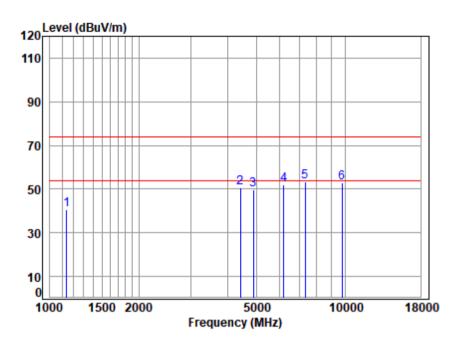


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Report No.: SZCR230400104402

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2441 TX RSE

: 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		1138.904	2.70	24.16	37.91	51.75	40.70	74.00	-33.30	peak
2		4417.841	6.69	33.50	34.62	45.11	50.68	74.00	-23.32	peak
3		4882.000	7.11	34.06	34.91	43.68	49.94	74.00	-24.06	peak
4		6195.508	8.19	35.20	35.22	44.01	52.18	74.00	-21.82	peak
5	q	7323.000	8.62	35.90	35.97	44.63	53.18	74.00	-20.82	peak
6	Ī	9764.000	10.45	37.20	35.56	40.98	53.07	74.00	-20.93	peak



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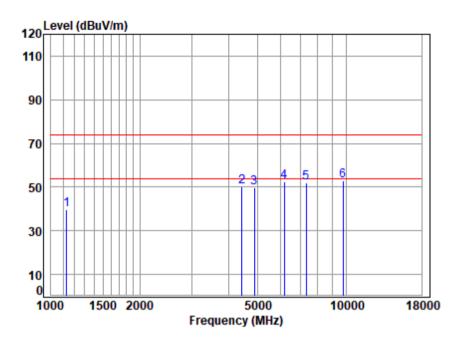


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2441 TX RSE

: BT L

			_							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1		1129.072	2.68	24.12	37.94	51.04	39.90	74.00	-34.10	peak
2		4430.628	6.71	33.50	34.63	44.52	50.10	74.00	-23.90	peak
3		4882.000	7.11	34.06	34.91	43.45	49.71	74.00	-24.29	peak
4		6177.627	8.19	35.20	35.20	44.44	52.63	74.00	-21.37	peak
5		7323.000	8.62	35.90	35.97	43.49	52.04	74.00	-21.96	peak
6	q	9764.000	10.45	37.20	35.56	41.05	53.14	74.00	-20.86	peak



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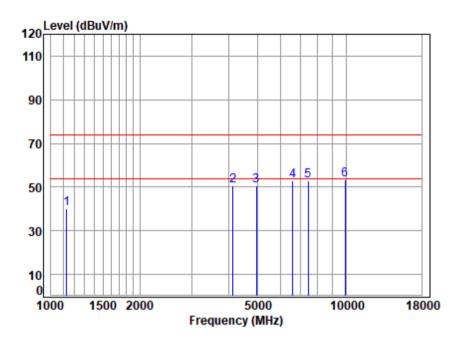


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2480 TX RSE

: BT L

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB	
1	1129.072	2.68	24.12	37.94	51.24	40.10	74.00	-33.90	peak
2	4133.699	6.42	33.07	34.43	45.55	50.61	74.00	-23.39	peak
3	4960.000	7.18	34.22	34.96	44.39	50.83	74.00	-23.17	peak
4	6602.265	8.26	35.60	35.58	44.57	52.85	74.00	-21.15	peak
5	7440.000	8.73	35.90	35.99	44.23	52.87	74.00	-21.13	peak
6	q 9920.000	10.52	37.30	35.57	40.98	53.23	74.00	-20.77	peak



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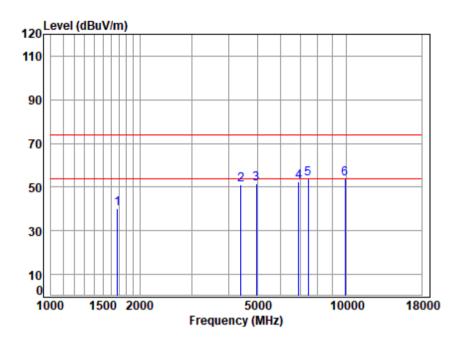


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2480 TX RSE

: 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		1677.621	3.46	26.76	36.45	46.34	40.11	74.00	-33.89	peak
2		4405.090	6.68	33.50	34.61	45.42	50.99	74.00	-23.01	peak
3		4960.000	7.18	34.22	34.96	44.91	51.35	74.00	-22.65	peak
4		6914.763	8.31	35.63	35.84	44.40	52.50	74.00	-21.50	peak
5	q	7440.000	8.73	35.90	35.99	45.12	53.76	74.00	-20.24	peak
6		9920.000	10.52	37.30	35.57	41.41	53.66	74.00	-20.34	peak



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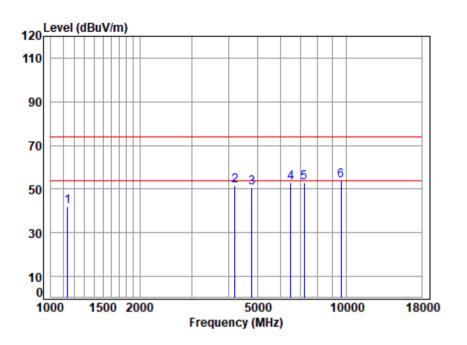


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT : 2402 TX RSE

Mode

: 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	1138.904	2.70	24.16	37.91	53.16	42.11	74.00	-31.89	peak
2	4206.011	6.49	33.42	34.48	46.14	51.57	74.00	-22.43	peak
3	4804.000	7.04	33.82	34.86	44.77	50.77	74.00	-23.23	peak
4	6488.754	8.24	35.48	35.48	44.67	52.91	74.00	-21.09	peak
5	7206.000	8.52	35.80	35.95	44.55	52.92	74.00	-21.08	peak
6 (9608.000	10.39	37.10	35.55	42.04	53.98	74.00	-20.02	peak



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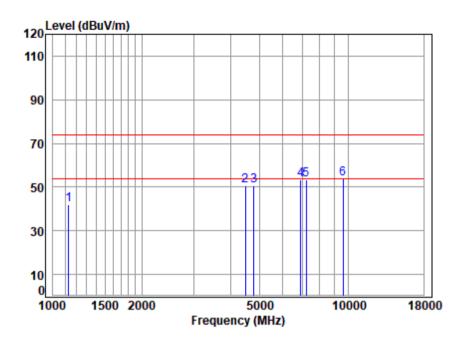


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2402 TX RSE

: BT R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	1129.072	2.68	24.12	37.94	53.21	42.07	74.00	-31.93	peak
2	4495.125	6.77	33.50	34.67	45.03	50.63	74.00	-23.37	peak
3	4804.000	7.04	33.82	34.86	44.48	50.48	74.00	-23.52	peak
4	6894.806	8.30	35.60	35.82	45.33	53.41	74.00	-20.59	peak
5	7206.000	8.52	35.80	35.95	44.90	53.27	74.00	-20.73	peak
6	q 9608.000	10.39	37.10	35.55	41.75	53.69	74.00	-20.31	peak



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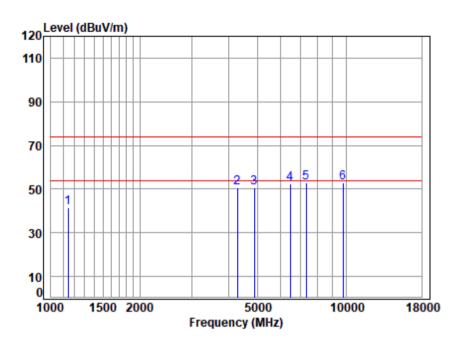


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2441 TX RSE

: 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		1145.507	2.71	24.18	37.89	52.49	41.49	74.00	-32.51	peak
2		4291.977	6.57	33.60	34.54	44.88	50.51	74.00	-23.49	peak
3		4882.000	7.11	34.06	34.91	44.37	50.63	74.00	-23.37	peak
4		6470.026	8.24	35.44	35.47	44.18	52.39	74.00	-21.61	peak
5		7323.000	8.62	35.90	35.97	44.30	52.85	74.00	-21.15	peak
6	q	9764.000	10.45	37.20	35.56	41.00	53.09	74.00	-20.91	peak



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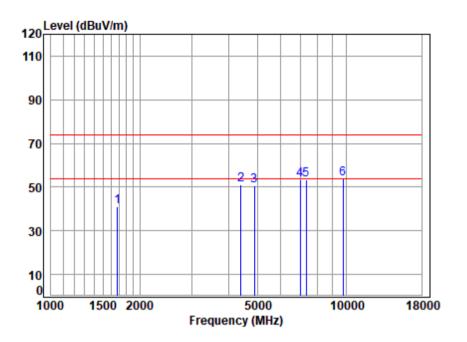


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Report No.: SZCR230400104402

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



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2441 TX RSE

: 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		1682.477	3.47	26.77	36.44	47.12	40.92	74.00	-33.08	peak	
2		4405.090	6.68	33.50	34.61	45.43	51.00	74.00	-23.00	peak	
3		4882.000	7.11	34.06	34.91	44.20	50.46	74.00	-23.54	peak	
4		6974.982	8.32	35.75	35.89	45.02	53.20	74.00	-20.80	peak	
5		7323.000	8.62	35.90	35.97	44.77	53.32	74.00	-20.68	peak	
6	-	9764 999	10 /5	37 20	35 56	/11 85	53 9/	7/ 00	-20 06	neak	



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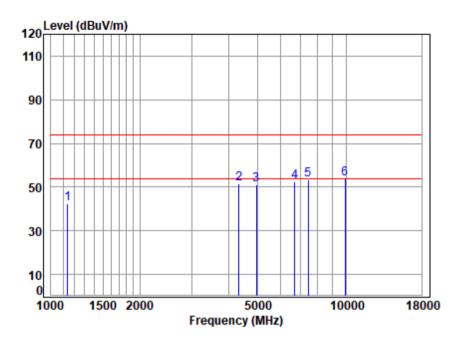


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 01044AT/01045AT Mode : 2480 TX RSE

: 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	1138.904	2.70	24.16	37.91	53.37	42.32	74.00	-31.68	peak
2	4341.886	6.62	33.60	34.57	46.10	51.75	74.00	-22.25	peak
3	4960.000	7.18	34.22	34.96	44.45	50.89	74.00	-23.11	peak
4	6698.373	8.27	35.60	35.66	44.47	52.68	74.00	-21.32	peak
5	7440.000	8.73	35.90	35.99	44.64	53.28	74.00	-20.72	peak
6	q 9920.000	10.52	37.30	35.57	41.60	53.85	74.00	-20.15	peak



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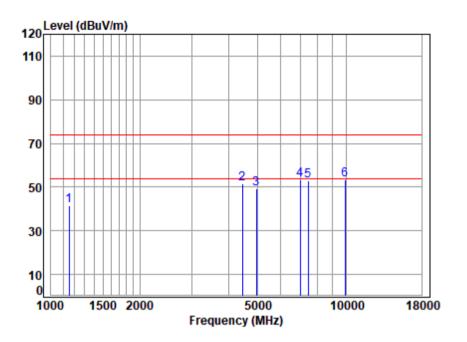


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01044AT/01045AT

Mode : 2480 TX RSE

: 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	1152.148	2.72	24.21	37.87	52.32	41.38	74.00	-32.62	peak
2	4456.315	6.73	33.50	34.64	45.85	51.44	74.00	-22.56	peak
3	4960.000	7.18	34.22	34.96	42.85	49.29	74.00	-24.71	peak
4	6974.982	8.32	35.75	35.89	45.14	53.32	74.00	-20.68	peak
5	7440.000	8.73	35.90	35.99	44.39	53.03	74.00	-20.97	peak
6	q 9920.000	10.52	37.30	35.57	41.21	53.46	74.00	-20.54	peak



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2304001044AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2304001044AT.



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10 Appendix

For right earbud:

1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict
iviode	Туре	(MHz)	Type	AINI	Result	verdict
		2402	DH5	1	0.964	Pass
GFSK	SISO	2441	DH5	1	0.964	Pass
		2480	DH5	1	0.966	Pass
		2402	2DH5	1	1.274	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.270	Pass
		2480	2DH5	1	1.270	Pass
		2402	3DH5	1	1.287	Pass
8DPSK	SISO	2441	3DH5	1	1.285	Pass
		2480	3DH5	1	1.279	Pass



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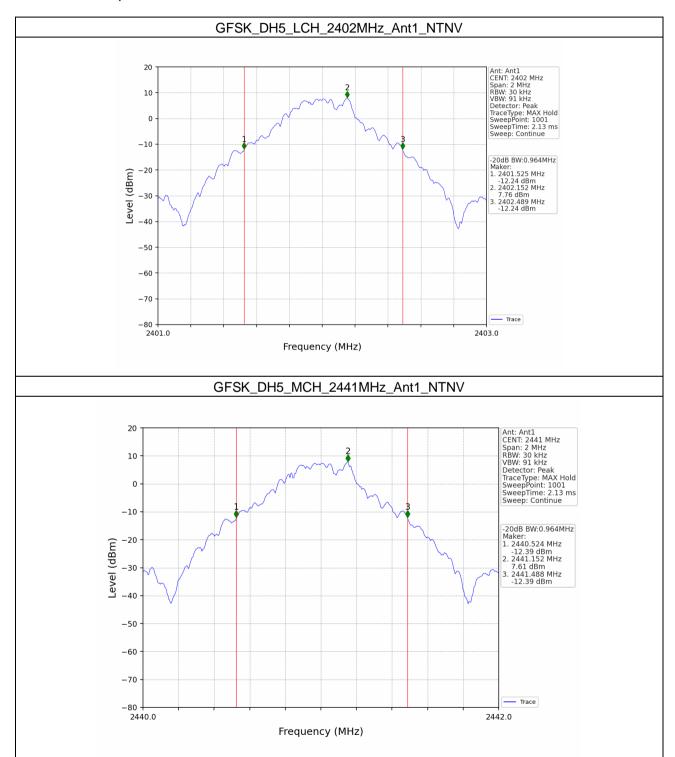


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1.1.2 Test Graph





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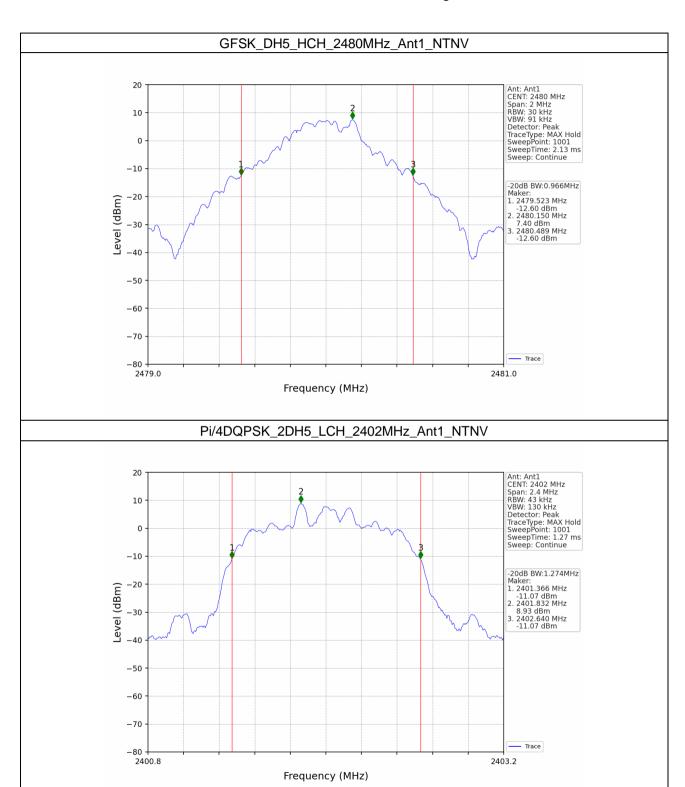
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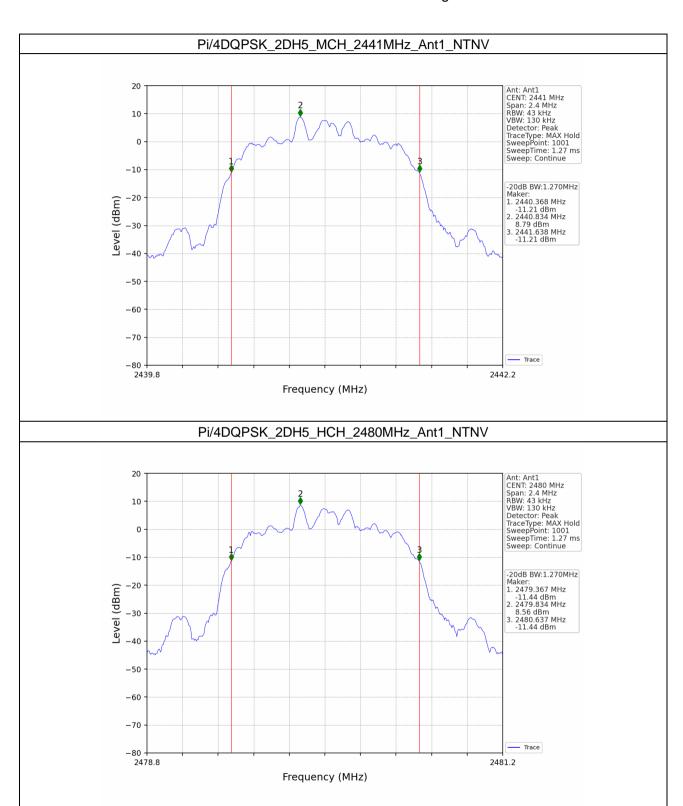
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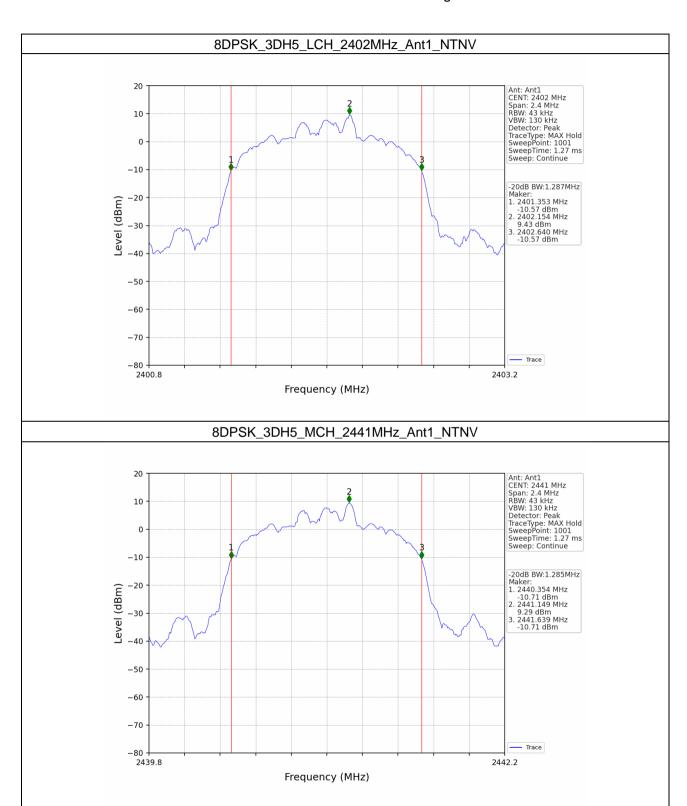
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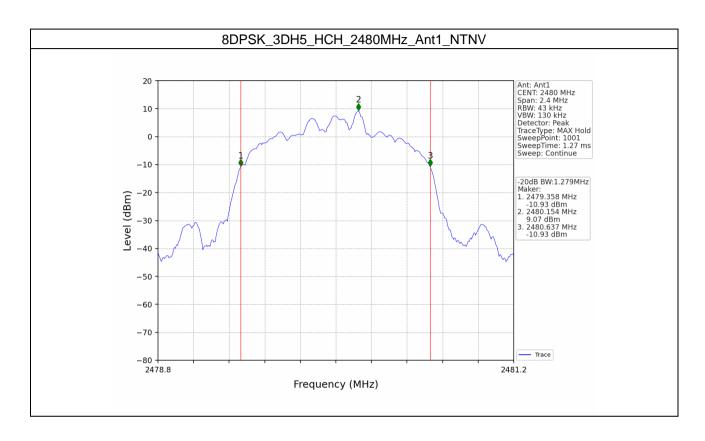
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX	Frequency	Packet	Maximum Peak Conduc	ted Output Power (dBm)	Verdict
iviode	Type	(MHz)	Type	ANT1	Limit	verdict
		2402	DH5	10.04	<=30	Pass
GFSK	SISO	2441	DH5	9.86	<=30	Pass
		2480	DH5	9.67	<=30	Pass
		2402	2DH5	10.06	<=20.97	Pass
Pi/4DQPSK	SISO	2441	2DH5	9.91	<=20.97	Pass
		2480	2DH5	9.69	<=20.97	Pass
		2402	3DH5	10.12	<=20.97	Pass
8DPSK	SISO	2441	3DH5	9.97	<=20.97	Pass
		2480	3DH5	9.78	<=20.97	Pass



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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	0.994	0.966	>=0.966	Pass				
Pi/4DQPSK	SISO	HOPP	2DH5	1.003	1.274	>=0.849	Pass				
8DPSK	SISO	HOPP	3DH5	1.003	1.287	>=0.858	Pass				



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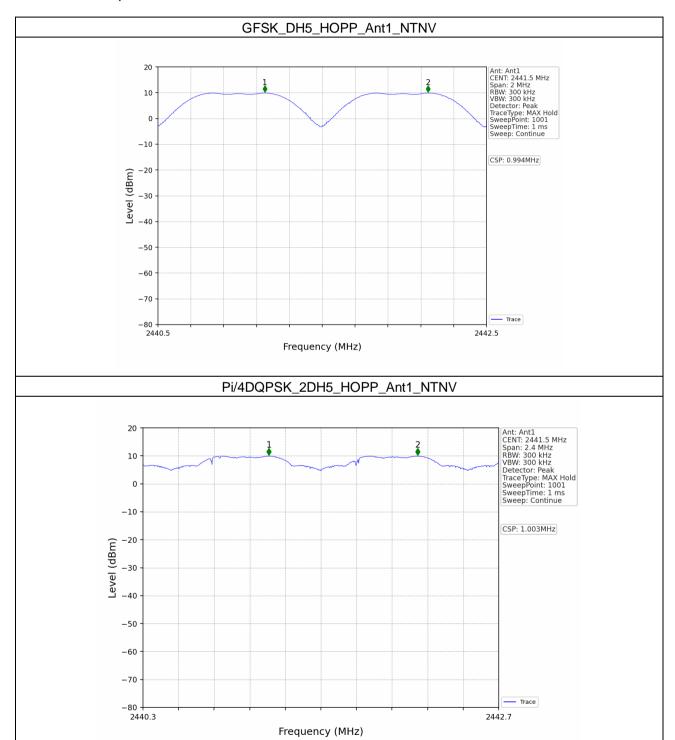


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3.1.2 Test Graph





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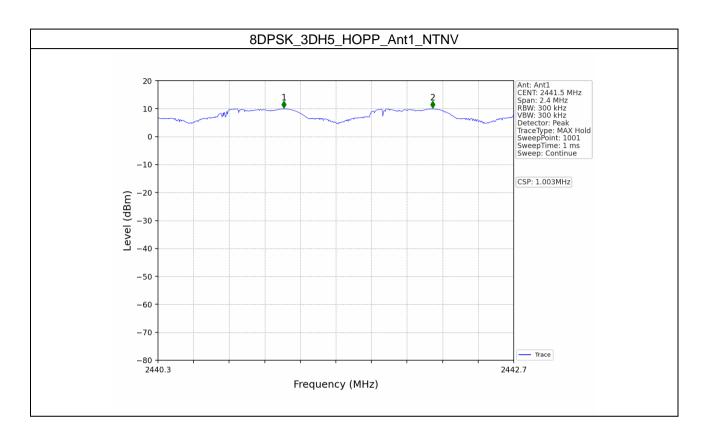
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Vardiet
	Type			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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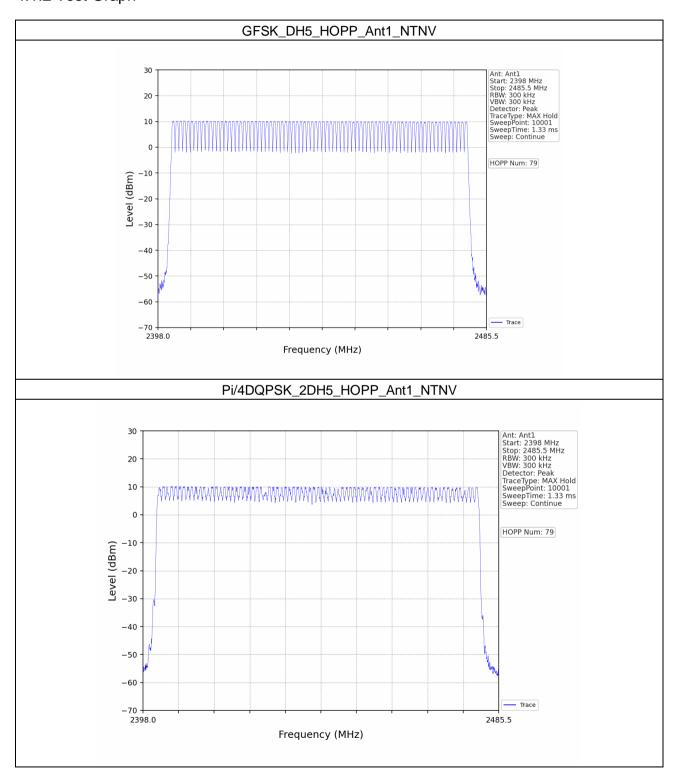


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4.1.2 Test Graph





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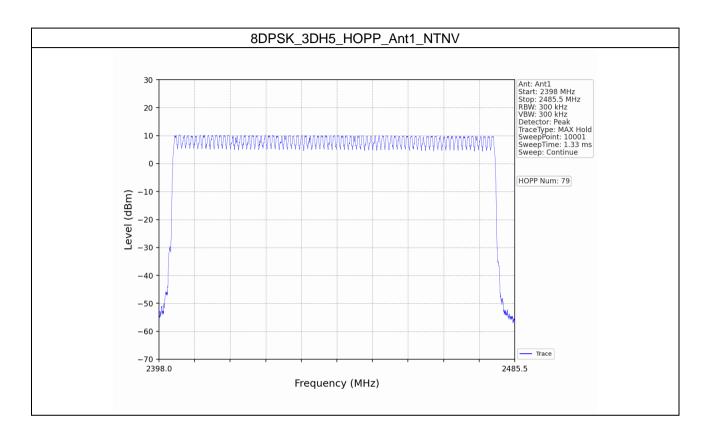
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5. Time of Occupancy (Dwell Time)

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
GFSK	SISO	НОРР	DH1	0.378	31.600	320	120.960	<=400	Pass
			DH3	1.634	31.600	160	261.440	<=400	Pass
			DH5	2.880	31.600	106	305.280	<=400	Pass
Pi/4DQPSK	SISO	НОРР	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.634	31.600	160	261.440	<=400	Pass
			2DH5	2.882	31.600	106	305.492	<=400	Pass
8DPSK	SISO	НОРР	3DH1	0.380	31.600	320	121.600	<=400	Pass
			3DH3	1.632	31.600	160	261.120	<=400	Pass
			3DH5	2.884	31.600	107	308.588	<=400	Pass



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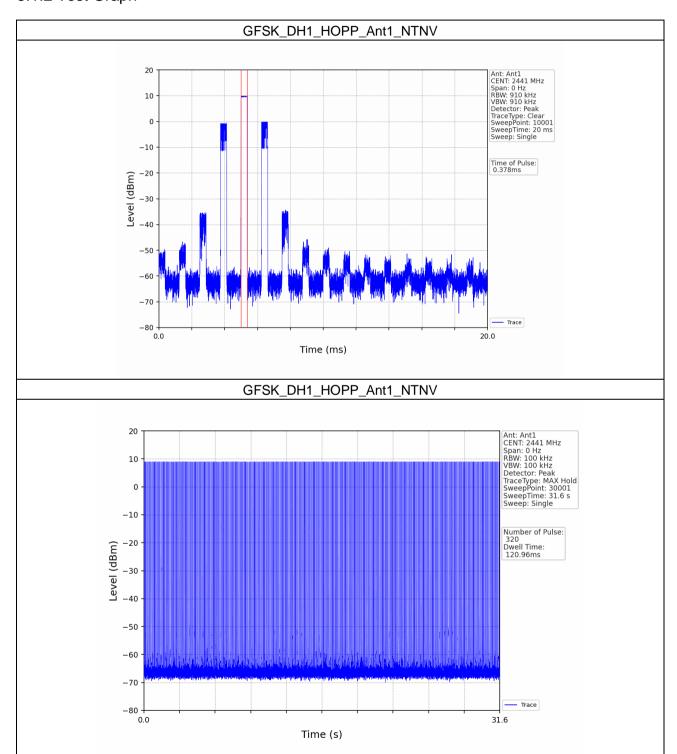


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5.1.2 Test Graph





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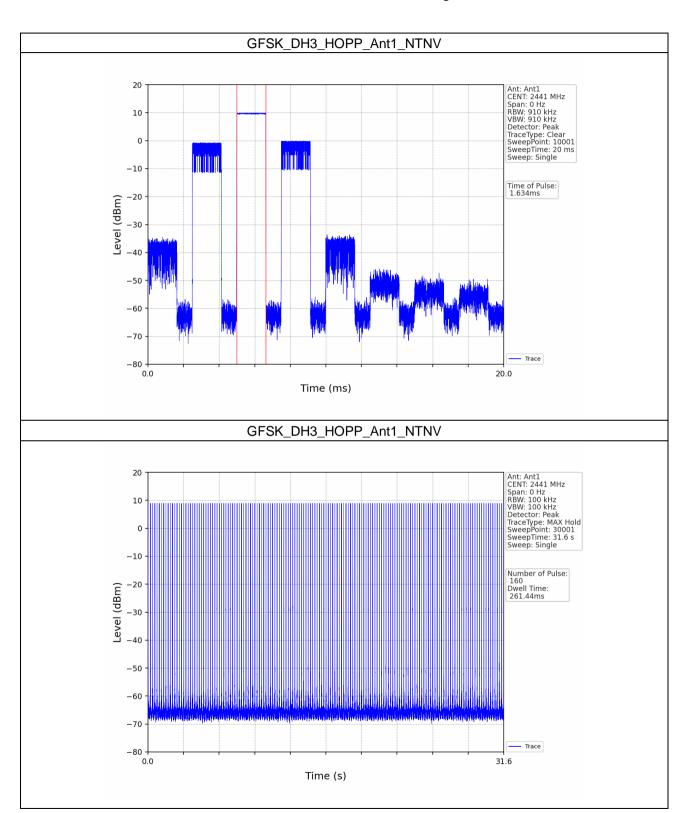
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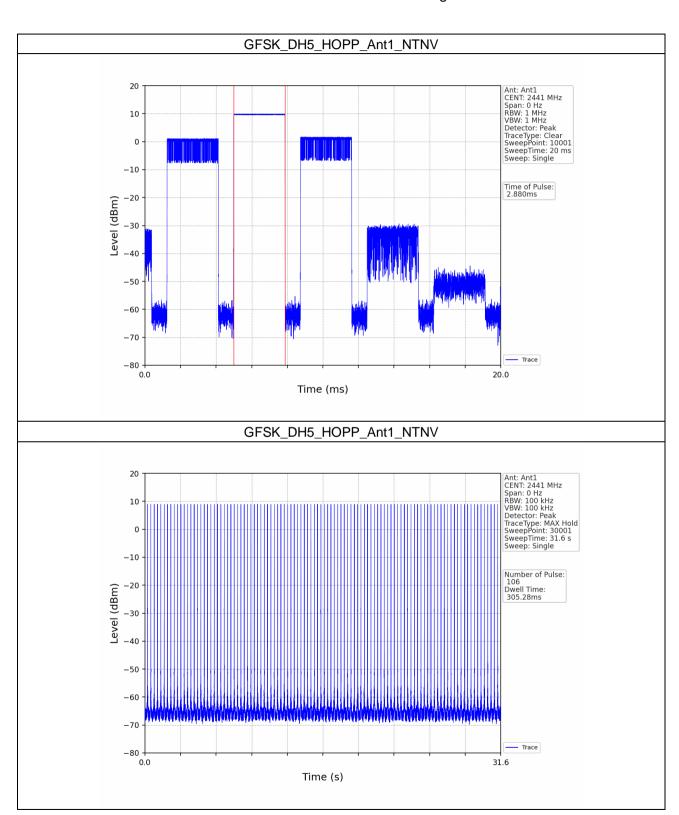
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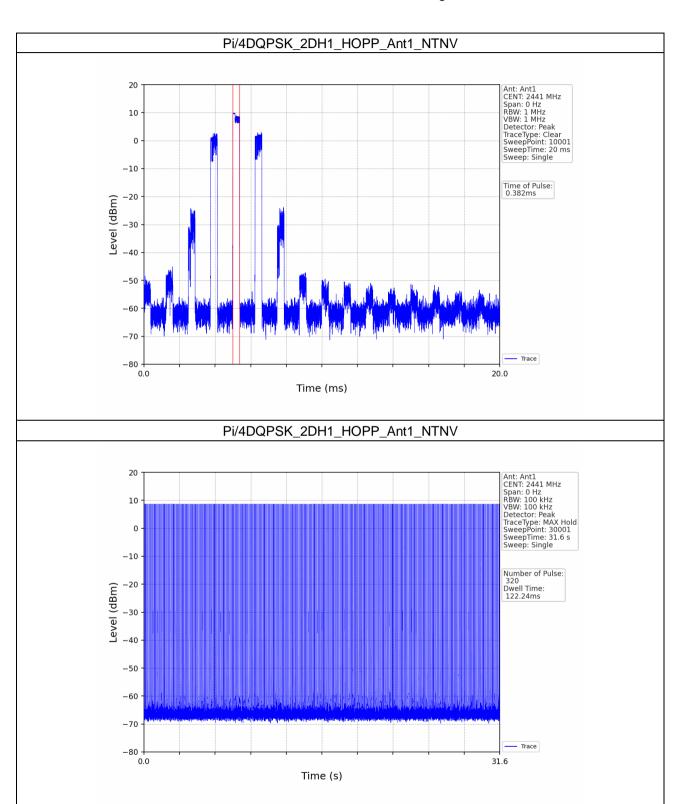
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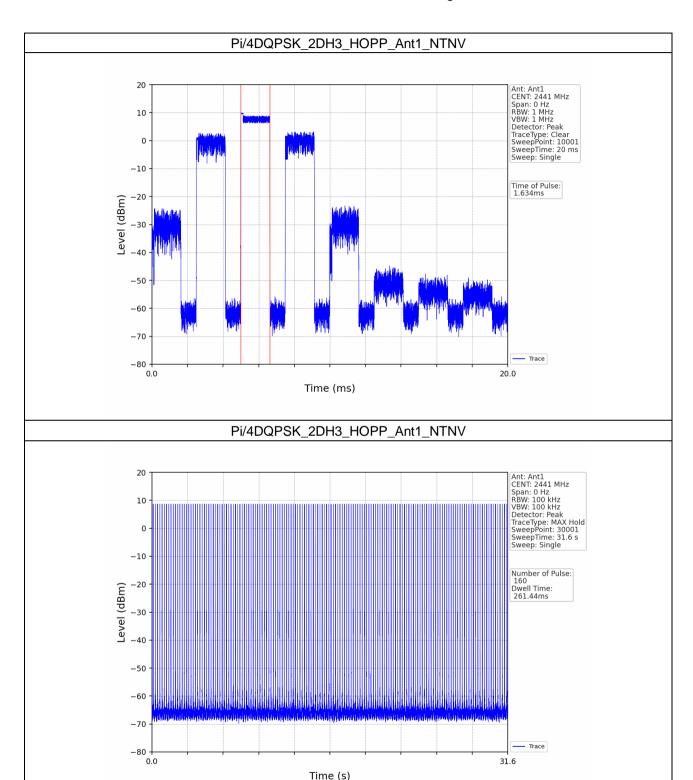
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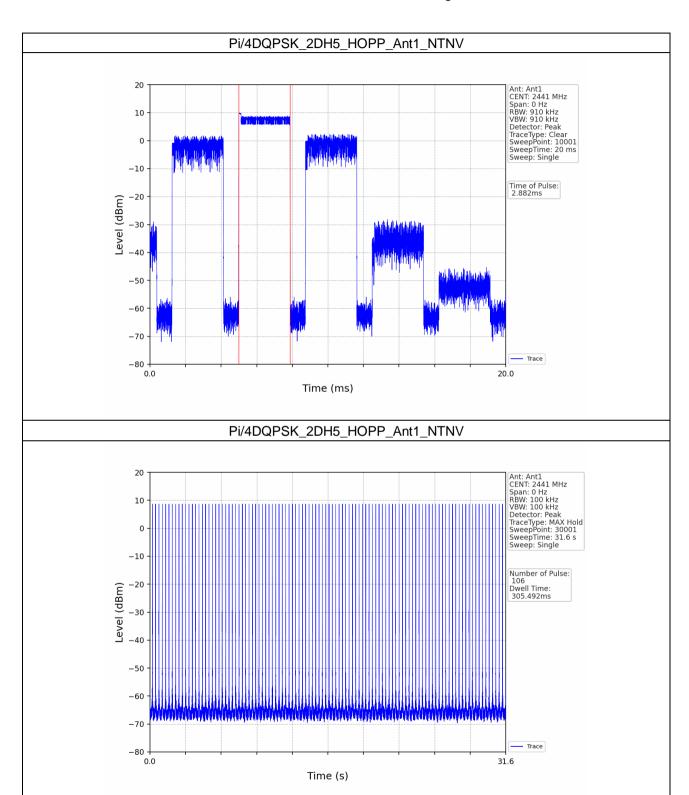
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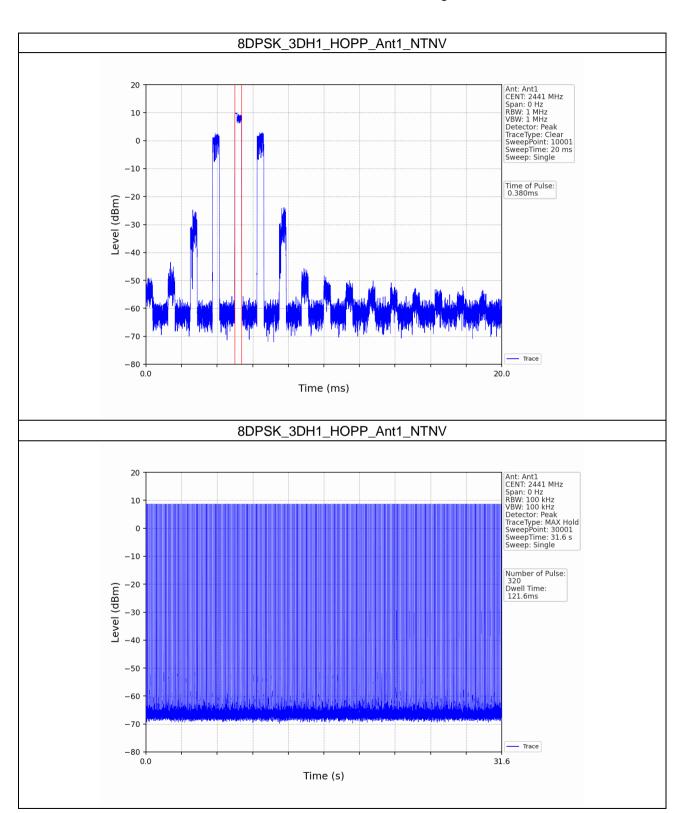
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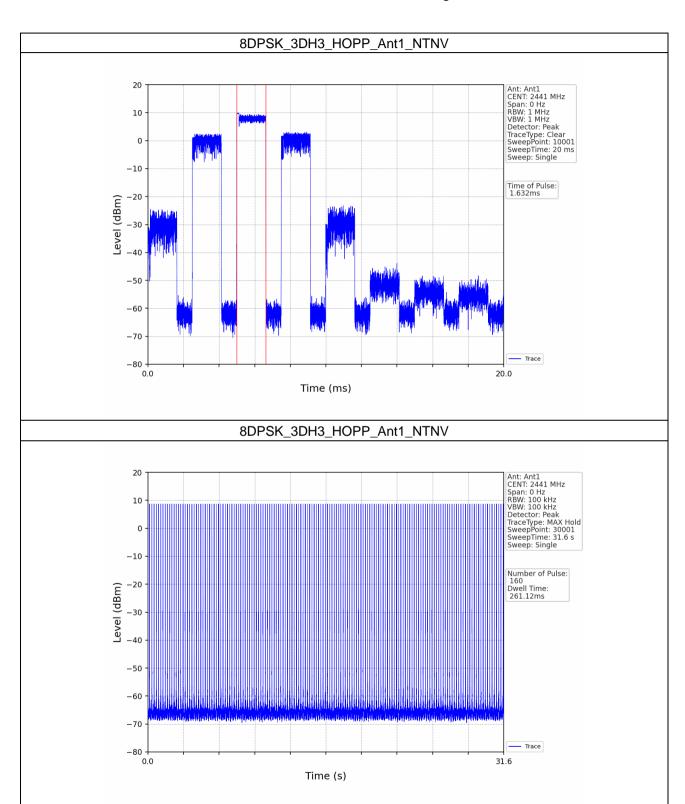
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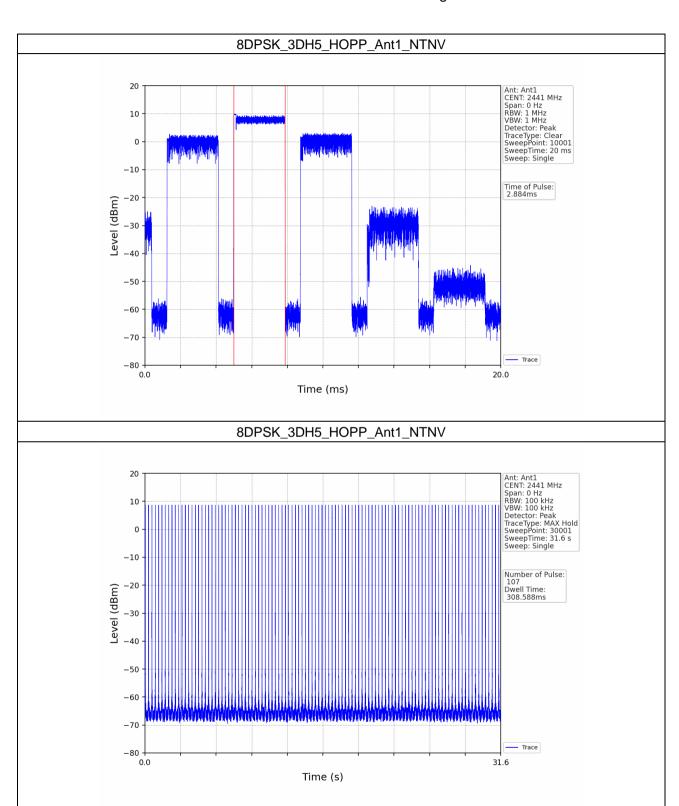
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	
		2402	DH5	1	9.97	
GFSK	SISO	2441	DH5	1	9.81	
		2480	DH5	1	9.60	
	SISO	2402	2DH5	1	9.99	
Pi/4DQPSK		2441	2DH5	1	9.82	
		2480	2DH5	1	9.61	
	SISO	2402	3DH5	1	9.99	
8DPSK		2441	3DH5	1	9.80	
		2480	3DH5	1	9.63	



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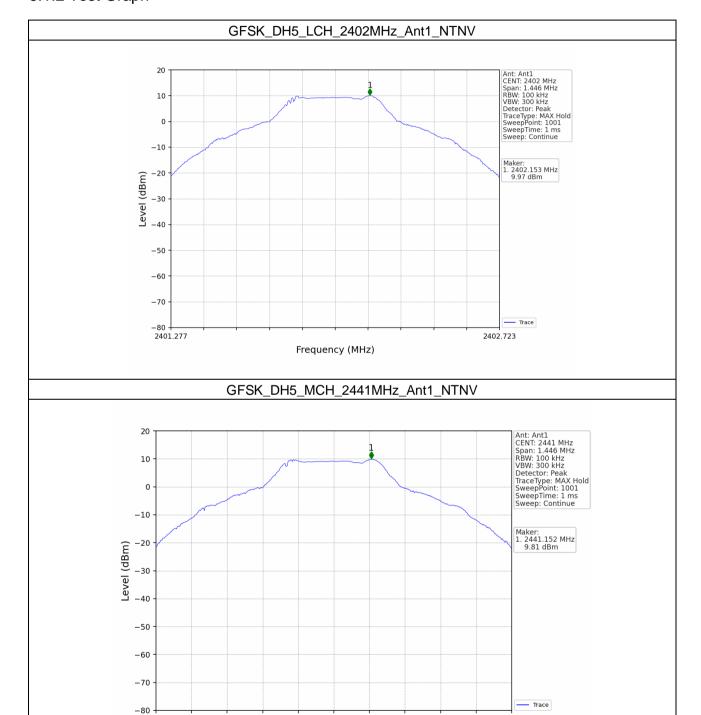


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6.1.2 Test Graph





2440.277

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Frequency (MHz)

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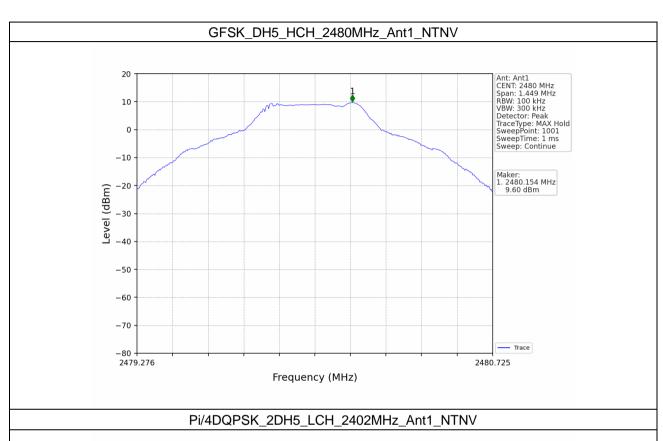
2441.723

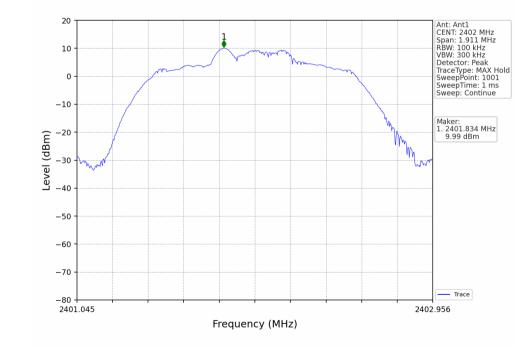


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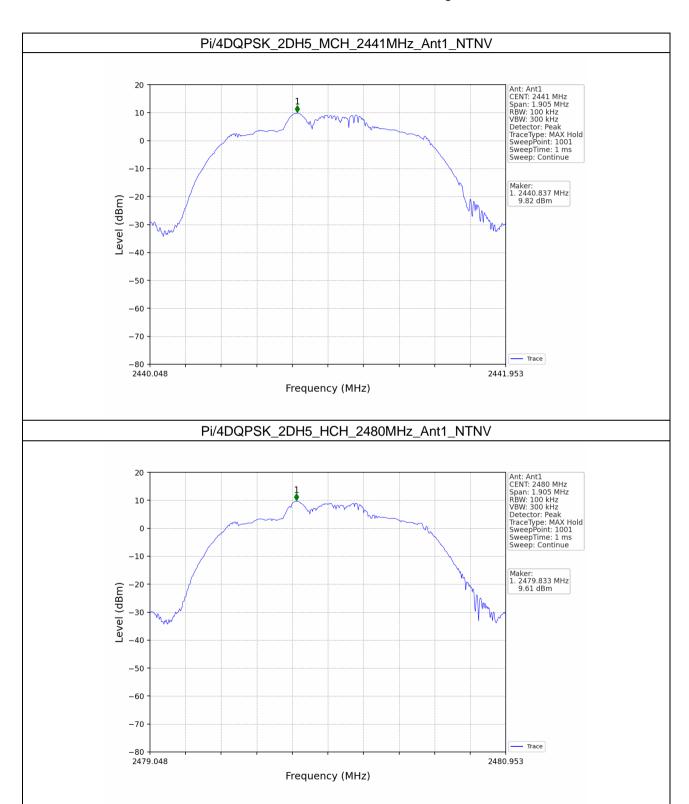
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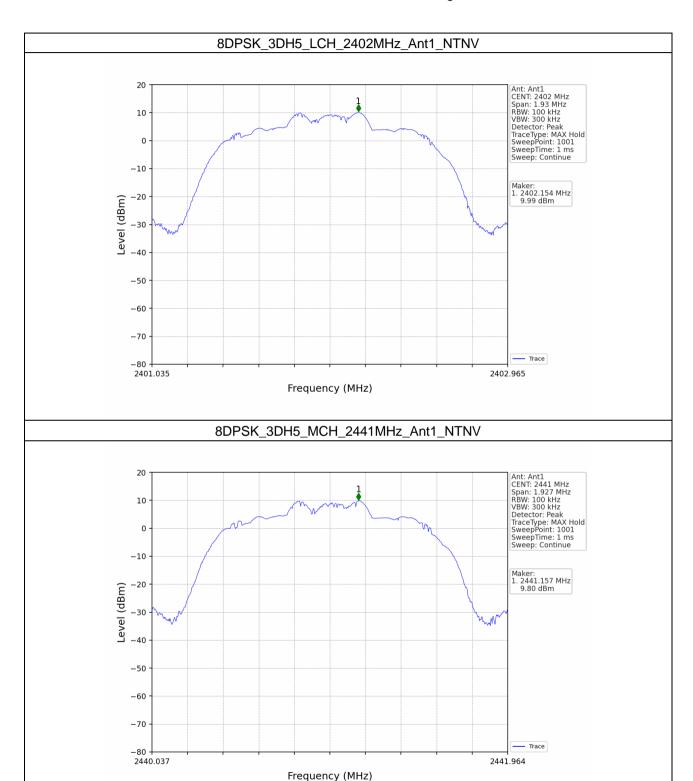
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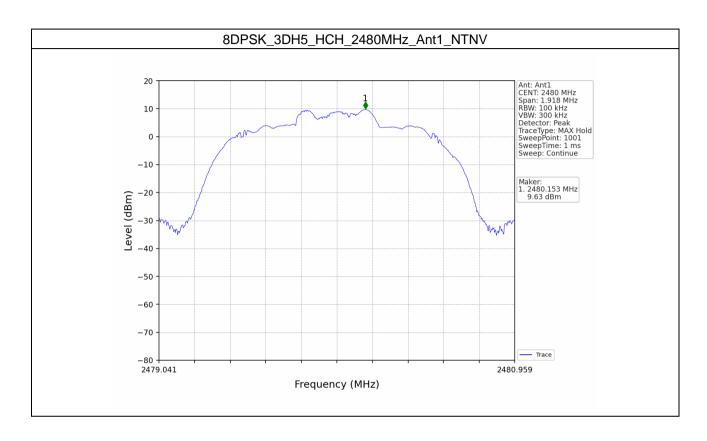
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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	9.97	-10.03	Pass
		2441	DH5	1	9.97	-10.03	Pass
		2480	DH5	1	9.97	-10.03	Pass
		HOPP	DH5	1	9.97	-10.03	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.99	-10.01	Pass
		2441	2DH5	1	9.99	-10.01	Pass
		2480	2DH5	1	9.99	-10.01	Pass
		HOPP	2DH5	1	9.99	-10.01	Pass
8DPSK	SISO	2402	3DH5	1	9.99	-10.01	Pass
		2441	3DH5	1	9.99	-10.01	Pass
		2480	3DH5	1	9.99	-10.01	Pass
		HOPP	3DH5	1	9.99	-10.01	Pass



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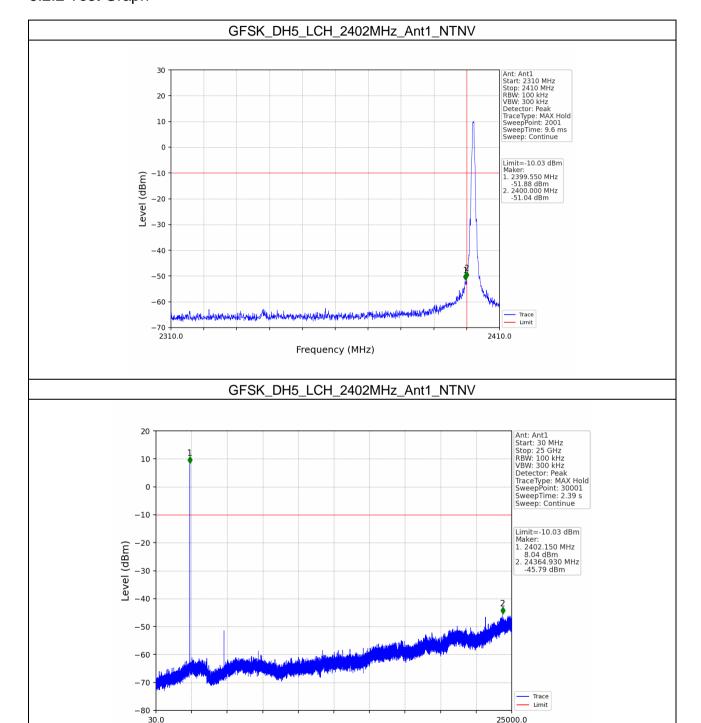


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6.2.2 Test Graph





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Frequency (MHz)

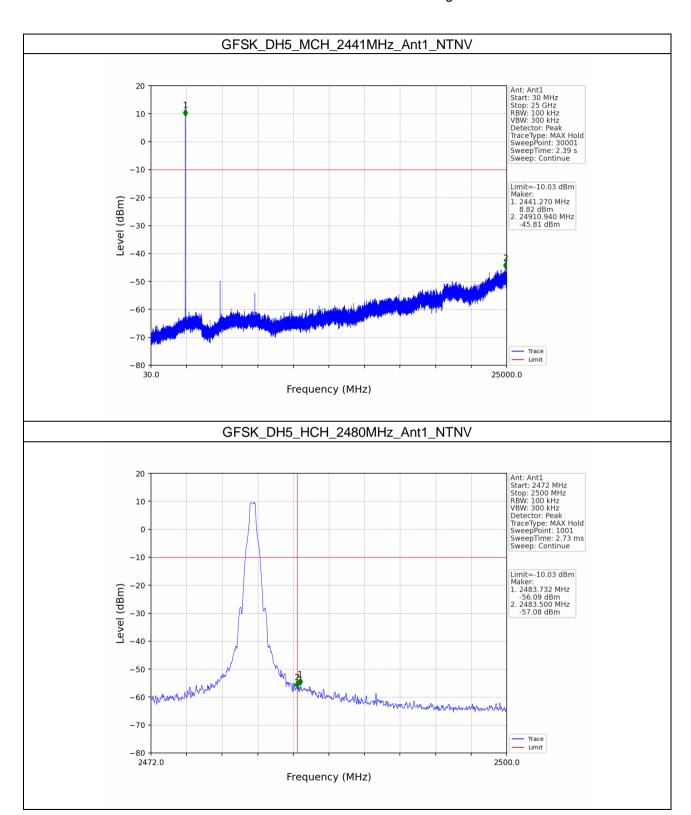
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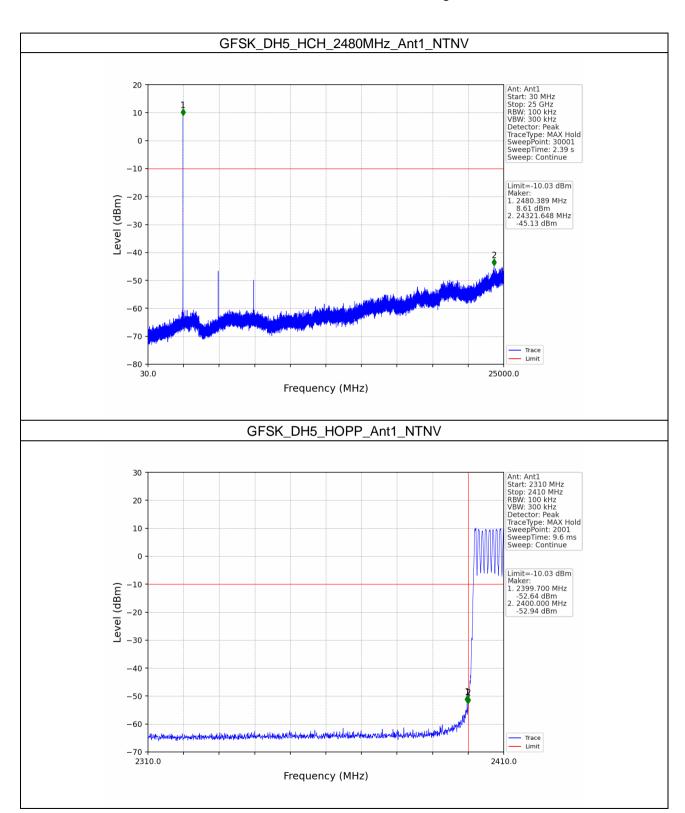
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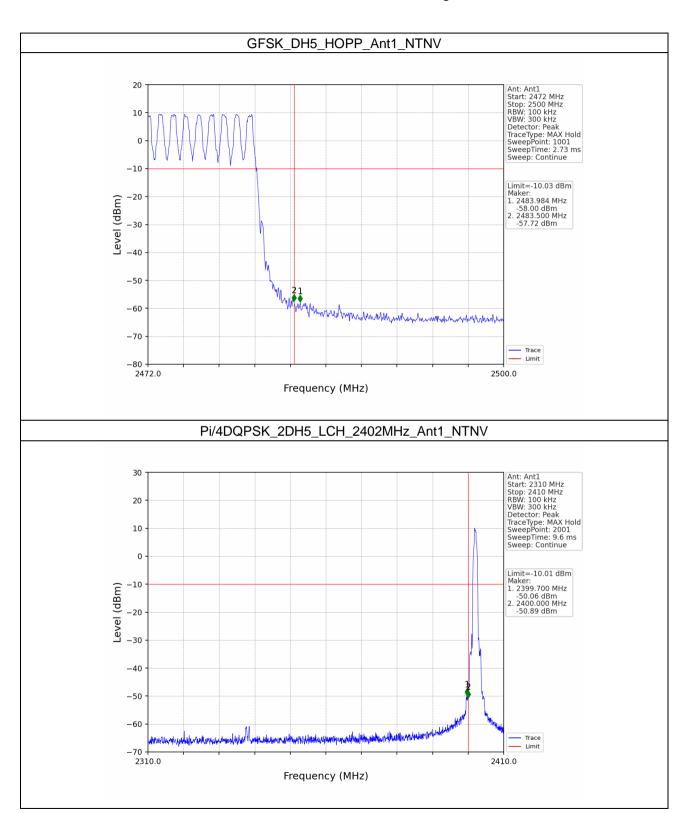
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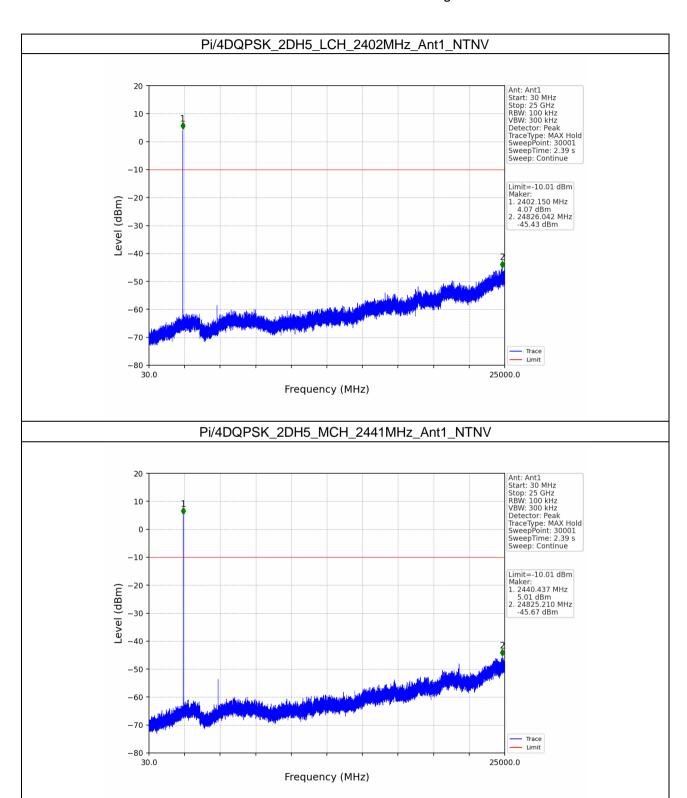
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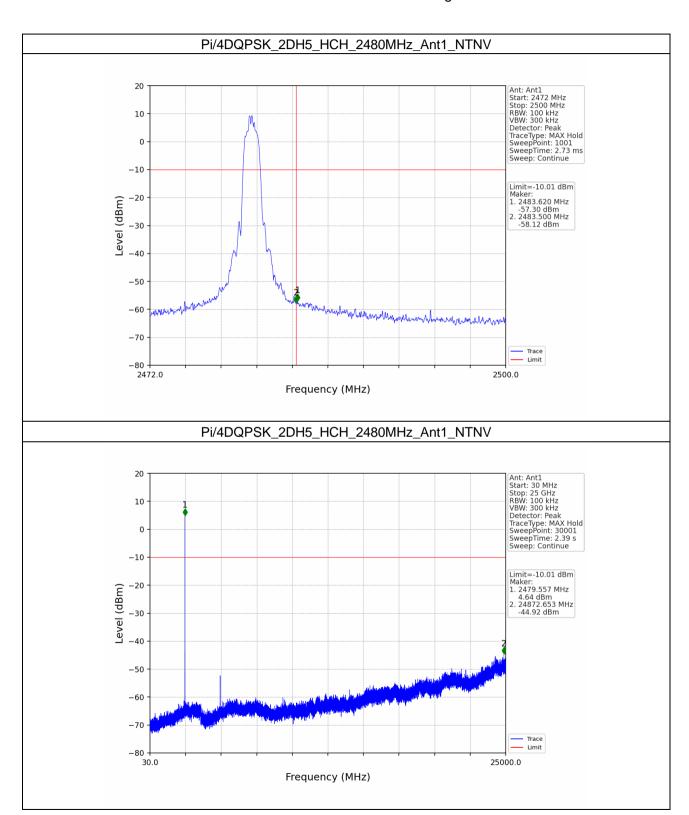
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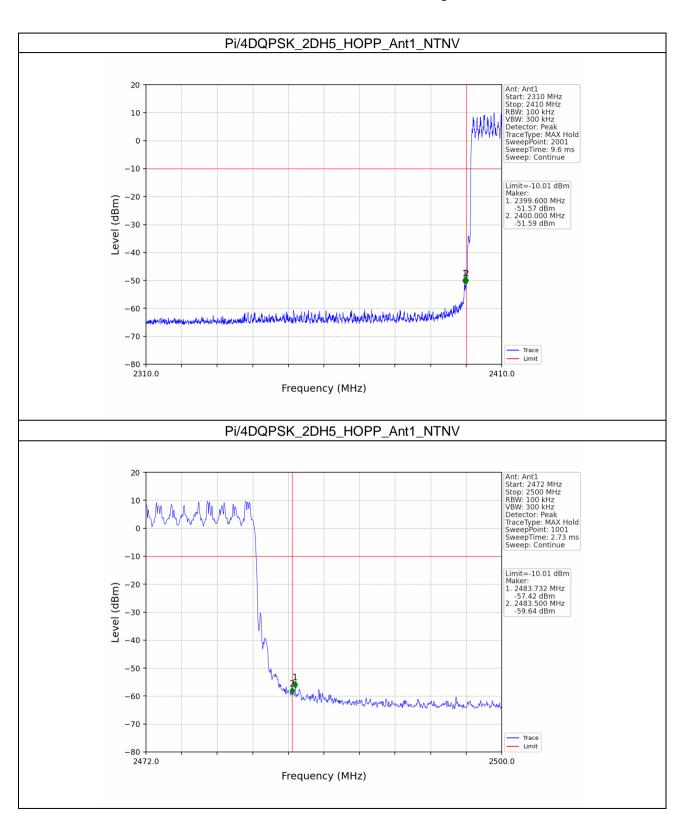
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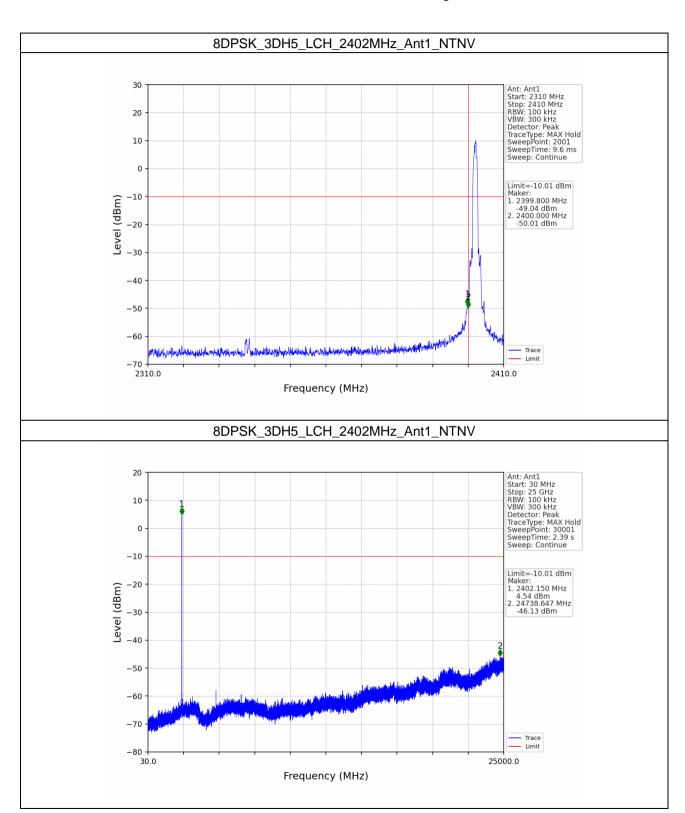
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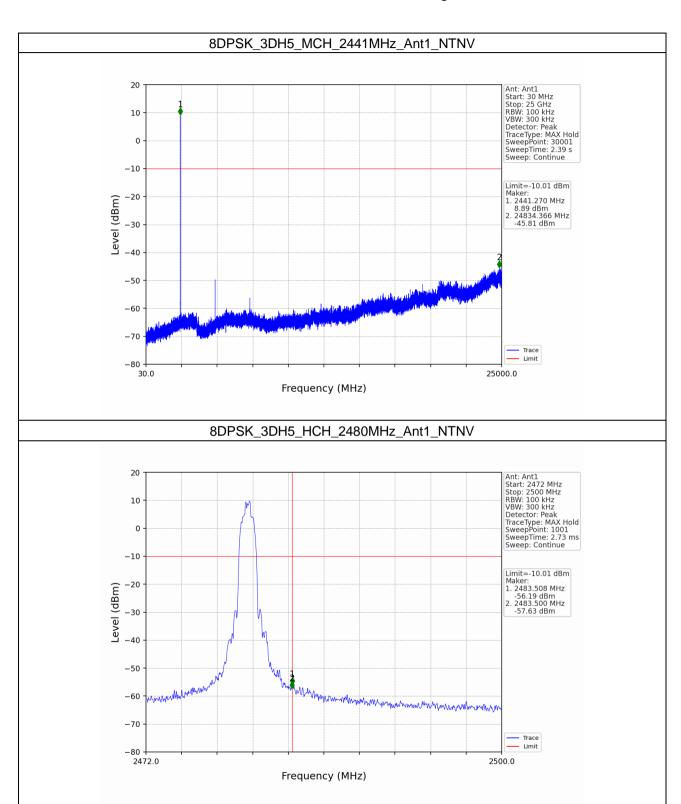
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