

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200453402

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TEST REPORT

Application No.: SZCR2412004534AT

Applicant: Edifier International Limited

Address of Applicant: P.O. Box 6264 General Post Office, Hong Kong

Manufacturer: Beijing Edifier Technology Co., Ltd.

Address of Manufacturer: 815, Floor 8, Shuanggiao Building, No.68, North Fourth Ring West Road,

Haidian District, 100080 Beijing, P.R. China

Factory: Dongguan Edifier Technology Co., Ltd.

Address of Factory: No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park,

Dongguan, 523808 Guangdong, P.R. China

Equipment Under Test (EUT):

EUT Name: True Wireless Planar Magnetic Noise Cancelling Earbuds

Model No.: EDF200185

Trade Mark: EDIFIER

FCC ID: Z9G-EDF268

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

Date of Receipt: 2024-12-02

Date of Test: 2024-12-06 to 2024-12-12

Date of Issue: 2024-12-12

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-12-12		Original			

Authorized for issue by:			
	Bris Cherr		
	Bill Chen/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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Test Summary 2

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		

Item	Standard	Method	Requirement	Result
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
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		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		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



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General Information

Details of E.U.T. 4.1

Power supply:	Lithium Ion Battery: DC 3.73V 50mAh 0.187Wh rechargeable battery which charged by charging case for left earbud and right earbud
	Lithium Ion Battery: DC 3.7V 500mAh 1.85Wh rechargeable battery which charged by USB port for charging case
Cable(s):	USB cable:30cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 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:	FPC
Antenna Gain:	Left earbud:-0.95dBi Right earbud:1.54dBi

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
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
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



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Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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.

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, Nanshan District, 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: 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

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05	

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2024-01-30	2025-01-29	
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2024-01-30	2025-01-29	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	



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Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23		
Humidity/ Temperature Indicator	, i l dell		SEM002-33	2024-07-24	2025-07-23		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17		



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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 is Left earbud:-0.95dBi Right earbud:1.54dBi. 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)

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.

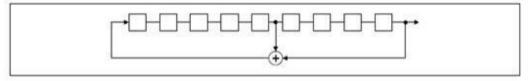
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of 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)

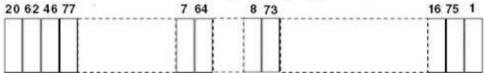
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:





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Each frequency used equally on the average by each transmitter.

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

Compliance for section 15.247(g):

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

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

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



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Radio Spectrum Matter Test Results 7

Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment:

22.2 °C Temperature: Humidity: 60.3 % RH Atmospheric Pressure: 1020 mbar



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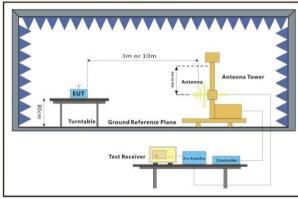
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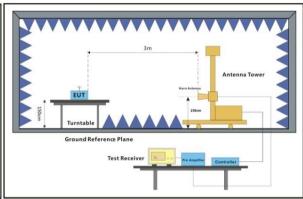
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7.1.2 Test Mode Description

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	02	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.

7.1.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.1.4 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. 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
- c. The EUT was set 3 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

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- 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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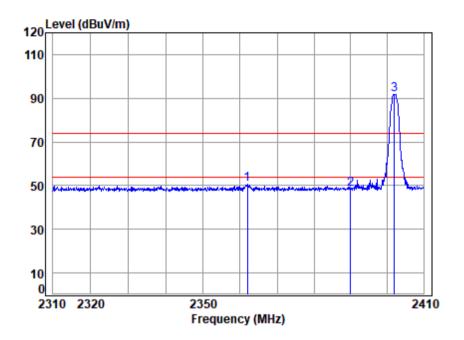


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 Band edge

: BT I

		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		
	2361.971	6.81	27.35	31.54	48.14	50.76	74.00	-23.24	peak	
	2390.000	6.82	27.46	31.54	45.55	48.29	74.00	-25.71	peak	
on	2402.000	6.84	27.50	31.54	89.05	91.85	74.00	17.85	peak	



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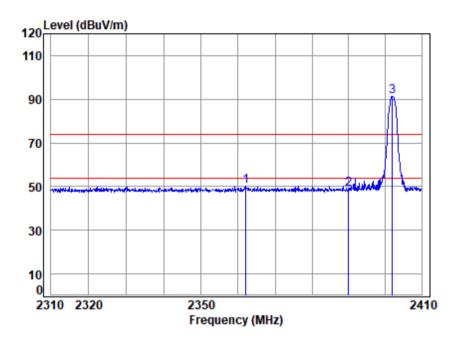


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2402 Band edge

: BT L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2362.072	6.81	27.35	31.54	47.59	50.21	74.00	-23.79	peak
2	2390.000	6.82	27.46	31.54	45.98	48.72	74.00	-25.28	peak
3 рр	2402.000	6.84	27.50	31.54	88.42	91.22	74.00	17.22	peak



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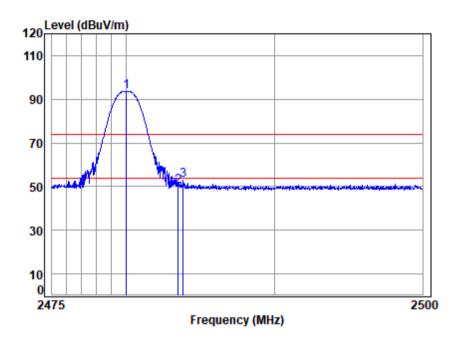


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 Band edge

RT

	. 01	6 1 3						^		
				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	ДB	dR/m	dB	dBuV	dRu\//m	dBuV/m	dB		-
	11112	ub	ub/III	ub	ubuv	ubuv/iii	ubuv/III	ub		
1 pp	2480.000	7.37	27.78	31.55	90.11	93.71	74.00	19.71	peak	
2	2483.500	7.40	27.80	31.55	46.72	50.37	74.00	-23.63	peak	
									•	
3	2483.821	7.40	27.80	31.55	49.31	52.96	74.00	-21.04	peak	



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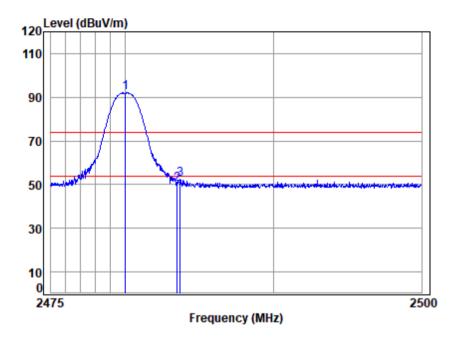


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2480 Band edge

RT

	. 01									
		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		
	pp 2480.000	7.37	27.78	31.55	88.36	91.96	74.00	17.96	peak	
)	2483.500									
;	2483.697								•	



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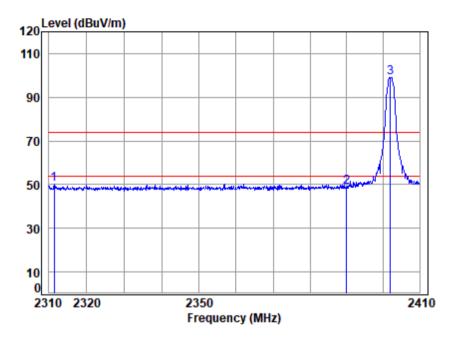


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 Band edge

RT

		11								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2311.371	6.79	27.22	31.53	47.67	50.15	74.00	-23.85	peak	
	2390.000	6.82	27.46	31.54	45.97	48.71	74.00	-25.29	peak	
g	2402.000	6.84	27.50	31.54	96.42	99.22	74.00	25.22	peak	



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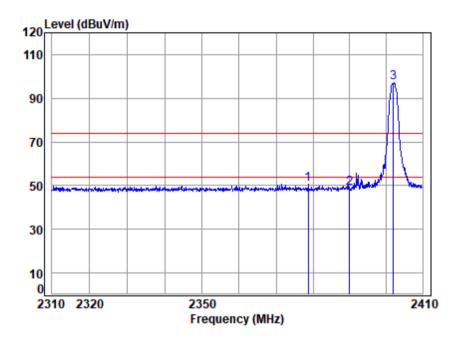


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2402 Band edge

RT

	. 01	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	
	2378.747	6.82	27.41	31.54	47.79	50.48	74.00	-23.52	peak
	2390.000	6.82	27.46	31.54	45.99	48.73	74.00	-25.27	peak
pp	2402.000	6.84	27.50	31.54	94.17	96.97	74.00	22.97	peak



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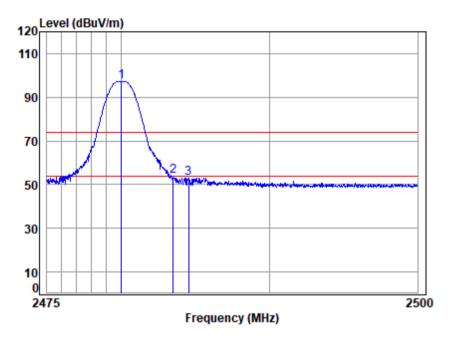


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 Band edge

RT

		11								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2480.000	7.37	27.78	31.55	93.80	97.40	74.00	23.40	peak	
	2483.500									
3	2484.520	7.40	27.81	31.55	49.43	53.09	74.00	-20.91	Peak	



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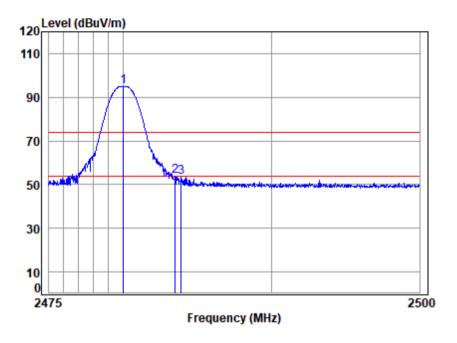


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT Mode : 2480 Band edge

RT

		11								
		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 pp	2480.000	7.37	27.78	31.55	91.39	94.99	74.00	20.99	peak	
2	2483.500	7.40	27.80	31.55	50.14	53.79	74.00	-20.21	peak	
3	2483.896	7.40	27.80	31.55	49.78	53.43	74.00	-20.57	peak	



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7.2 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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

1.2.2 1 CSt IV	ouc Dc.	scription							
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	02	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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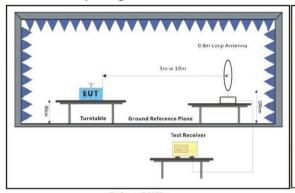
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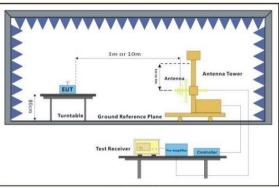


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7.2.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.2.4 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 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.



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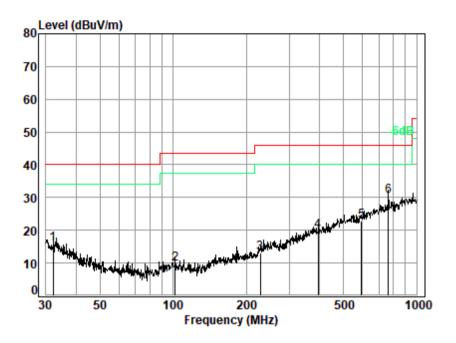


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04534AT/04535AT

Test Mode: 00/01

		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	32.179	20.20	0.66	27.80	22.77	15.83	40.00	-24.17	QP
2	102.001	12.33	1.20	27.60	23.66	9.59	43.50	-33.91	QP
3	227.691	16.12	1.85	27.15	22.32	13.14	46.00	-32.86	QP
4	394.855	20.70	2.53	27.31	23.85	19.77	46.00	-26.23	QP
5	593.050	24.45	3.19	28.20	23.30	22.74	46.00	-23.26	QP
6 a	766.057	26.59	3.72	27.72	27.79	30.38	46.00	-15.62	OP



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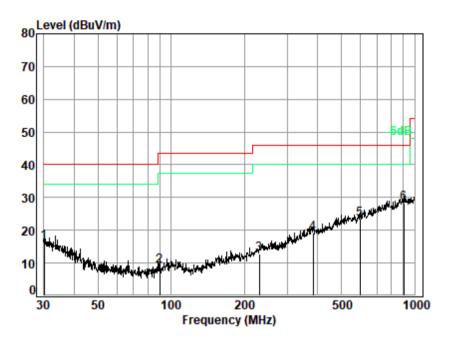


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 04534AT/04535AT

Test Mode: 00/01

		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	30.105	21.15	0.64	27.80	22.52	16.51	40.00	-23.49	QP		
2	89.905	11.72	1.13	27.64	23.95	9.16	43.50	-34.34	QP		
3	230.099	16.46	1.86	27.14	21.63	12.81	46.00	-33.19	QP		
4	382.588	20.90	2.48	27.26	22.90	19.02	46.00	-26.98	QP		
5	597.223	24.44	3.20	28.22	24.12	23.54	46.00	-22.46	QP		
6 q	903.309	27.83	4.10	27.11	23.62	28.44	46.00	-17.56	QP		



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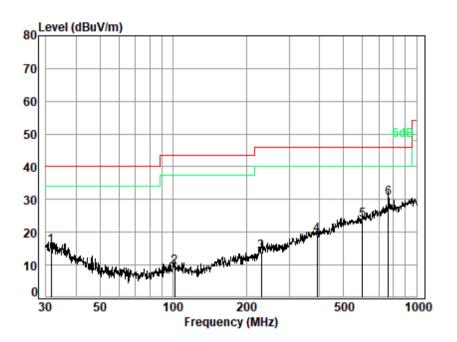


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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04534AT/04535AT

Test Mode: 02/03

		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	31.510	20.50	0.66	27.80	22.31	15.67	40.00	-24.33	QP
2	101.289	12.33	1.20	27.61	23.43	9.35	43.50	-34.15	QP
3	230.099	16.46	1.86	27.14	22.77	13.95	46.00	-32.05	QP
4	390.723	20.75	2.51	27.30	23.23	19.19	46.00	-26.81	QP
5	599.321	24.42	3.21	28.23	24.43	23.83	46.00	-22.17	QP
6 a	766.057	26.59	3.72	27.72	27.94	30.53	46.00	-15.47	OP



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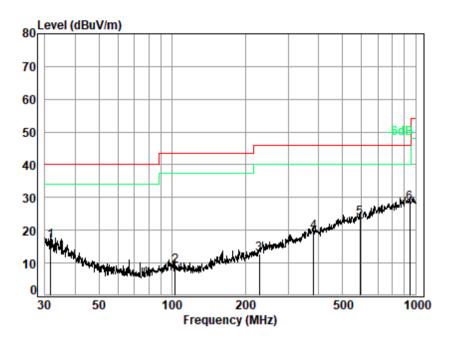


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Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 04534AT/04535AT

Test Mode: 02/03

		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	31.731	20.39	0.66	27.80	23.62	16.87	40.00	-23.13	QP
2	102.719	12.29	1.20	27.60	23.15	9.04	43.50	-34.46	QP
3	227.691	16.12	1.85	27.15	21.84	12.66	46.00	-33.34	QP
4	381.249	20.91	2.48	27.25	23.25	19.39	46.00	-26.61	QP
5	590.974	24.44	3.18	28.19	24.26	23.69	46.00	-22.31	QP
6 a	948.761	28.23	4.22	26.90	22.64	28.19	46.00	-17.81	OP



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7.3 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		

7.3.1 E.U.T. Operation

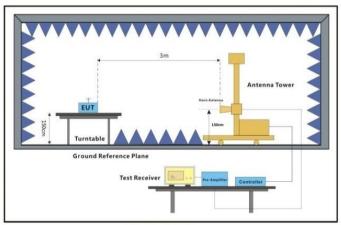
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.0 °C Humidity: 61.1 % RH

7.3.2 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	02	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.

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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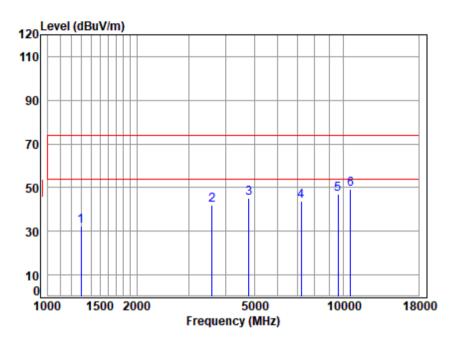


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Report No.: SZCR241200453402

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



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT

Mode : 2402 TX RSE

1

2

3

4

5

: BT Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 25.21 54.70 54.54 32.20 74.00 -41.80 peak 1293.359 7.15 3598.203 7.76 29.90 55.36 59.55 41.85 74.00 -32.15 peak 4804.000 8.90 31.92 56.16 60.43 45.09 74.00 -28.91 peak 7206.000 11.10 36.60 56.54 52.59 43.75 74.00 -30.25 peak 12.38 38.78 54.45 50.27 46.98 74.00 -27.02 peak 9608.000 6 pp10575.540 13.35 39.25 53.75 50.63 49.48 74.00 -24.52 peak



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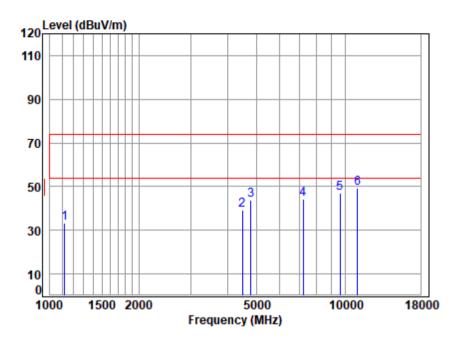


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Report No.: SZCR241200453402

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



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2402 TX RSE

: BT L

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	7.12	25.51	54.70	55.21	33.14	74.00	-40.86	peak
2	4495.125	8.56	31.58	55.95	55.07	39.26	74.00	-34.74	peak
3	4804.000	8.90	31.92	56.16	59.25	43.91	74.00	-30.09	peak
4	7206.000	11.10	36.60	56.54	53.31	44.47	74.00	-29.53	peak
5	9608.000	12.38	38.78	54.45	50.42	47.13	74.00	-26.87	peak
6	pp11012.250								-



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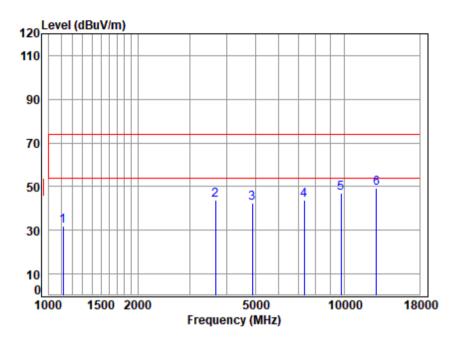


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Report No.: SZCR241200453402

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



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT 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	1119.323	7.12	25.52	54.70	54.15	32.09	74.00	-41.91	peak
2	3661.149	7.84	29.80	55.40	61.59	43.83	74.00	-30.17	peak
3	4882.000	8.98	32.16	56.22	57.70	42.62	74.00	-31.38	peak
4	7323.000	11.12	36.75	56.44	52.41	43.84	74.00	-30.16	peak
5	9764.000	12.86	38.60	54.31	49.71	46.86	74.00	-27.14	peak
6	pp12872.440	15.22	40.37	54.41	47.96	49.14	74.00	-24.86	peak



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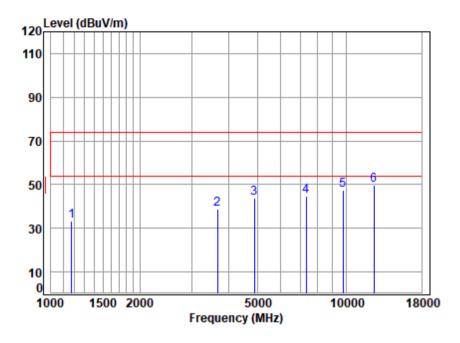


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Report No.: SZCR241200453402

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



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

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	1175.697	7.17	25.35	54.70	55.31	33.13	74.00	-40.87	peak
2	3661.149	7.84	29.80	55.40	56.43	38.67	74.00	-35.33	Peak
3	4882.000	8.98	32.16	56.22	58.97	43.89	74.00	-30.11	peak
4	7323.000	11.12	36.75	56.44	53.19	44.62	74.00	-29.38	peak
5	9764.000	12.86	38.60	54.31	50.48	47.63	74.00	-26.37	peak
6	pp12397.740	14.75	39.90	54.08	48.96	49.53	74.00	-24.47	peak



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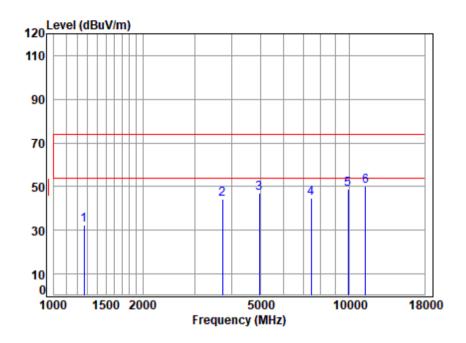


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Report No.: SZCR241200453402

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



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 TX RSE

: BT

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Limit Remark Line Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	7.16	25.27	54.70	54.81	32.54	74.00	-41.46	peak
2	3725.195	7.92	29.85	55.44	61.82	44.15	74.00	-29.85	peak
3	4960.000	9.07	32.20	56.27	61.79	46.79	74.00	-27.21	peak
4	7440.000	11.08	36.78	56.35	53.40	44.91	74.00	-29.09	peak
5	9920.000	12.73	38.90	54.17	51.51	48.97	74.00	-25.03	peak
6	pp11335.190	14.29	39.70	53.60	49.77	50.16	74.00	-23.84	peak



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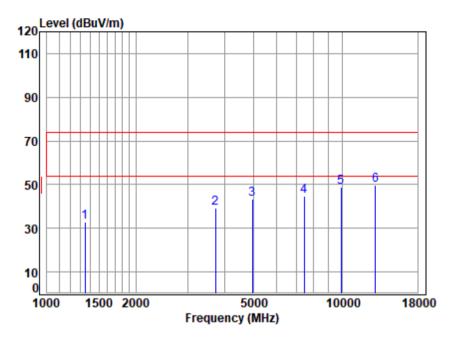


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Report No.: SZCR241200453402

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



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

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	1346.769	7.18	25.11	54.70	55.42	33.01	74.00	-40.99	peak
2	3725.195	7.92	29.85	55.44	56.82	39.15	74.00	-34.85	peak
3	4960.000	9.07	32.20	56.27	58.22	43.22	74.00	-30.78	peak
4	7440.000	11.08	36.78	56.35	53.12	44.63	74.00	-29.37	peak
5	9920.000	12.73	38.90	54.17	51.43	48.89	74.00	-25.11	peak
6	pp12947.070	15.25	40.35	54.46	48.56	49.70	74.00	-24.30	peak



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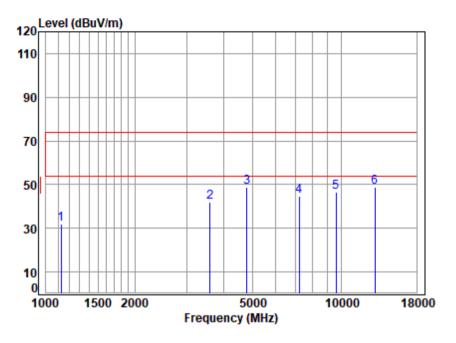


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Report No.: SZCR241200453402

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



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2402 TX RSE

: BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	7.12	25.50	54.70	54.24	32.16	74.00	-41.84	peak
2	3598.203	7.76	29.90	55.36	59.72	42.02	74.00	-31.98	peak
3 p	p 4804.000	8.90	31.92	56.16	64.30	48.96	74.00	-25.04	peak
4	7206.000	11.10	36.60	56.54	53.44	44.60	74.00	-29.40	peak
5	9608.000	12.38	38.78	54.45	49.91	46.62	74.00	-27.38	peak
6	12984.540	15.26	40.32	54.49	47.79	48.88	74.00	-25.12	peak



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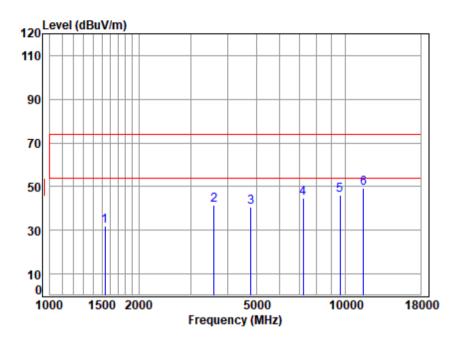


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Report No.: SZCR241200453402

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



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2402 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	7.17	24.98	54.70	54.55	32.00	74.00	-42.00	peak
2	3598.203	7.76	29.90	55.36	59.31	41.61	74.00	-32.39	peak
3	4804.000	8.90	31.92	56.16	56.07	40.73	74.00	-33.27	peak
4	7206.000	11.10	36.60	56.54	53.76	44.92	74.00	-29.08	peak
5	9608.000	12.38	38.78	54.45	49.46	46.17	74.00	-27.83	peak
6	pp11533.480	14.31	39.60	53.66	48.96	49.21	74.00	-24.79	peak



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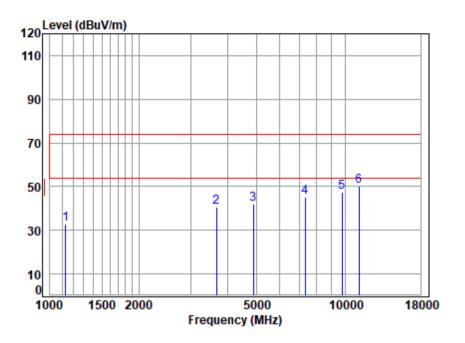


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Report No.: SZCR241200453402

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



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT

Mode : 2441 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122 240	7 12	25 47	E4 70	E4 00	22 90	74.00	41 11	noole
T	1132.340	/.13	25.4/	54.70	54.99	32.09	74.00	-41.11	peak
2	3661.149	7.84	29.80	55.40	58.15	40.39	74.00	-33.61	peak
3	4882.000	8.98	32.16	56.22	56.91	41.83	74.00	-32.17	peak
4	7323.000	11.12	36.75	56.44	53.70	45.13	74.00	-28.87	peak
5	9764.000	12.86	38.60	54.31	50.13	47.28	74.00	-26.72	peak
6	pp11140.310	14.17	39.54	53.54	49.93	50.10	74.00	-23.90	peak



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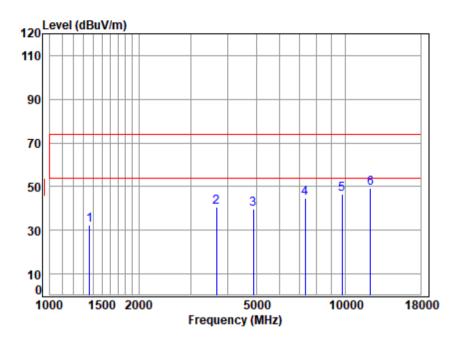


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Report No.: SZCR241200453402

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



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2441 TX RSE

: BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1362.430	7.19	25.08	54.70	54.82	32.39	74.00	-41.61	peak
2	3661.149	7.84	29.80	55.40	58.17	40.41	74.00	-33.59	peak
3	4882.000	8.98	32.16	56.22	54.57	39.49	74.00	-34.51	peak
4	7323.000	11.12	36.75	56.44	53.06	44.49	74.00	-29.51	peak
5	9764.000	12.86	38.60	54.31	49.19	46.34	74.00	-27.66	peak
6	pp12184.580	14.48	39.87	53.93	48.84	49.26	74.00	-24.74	peak



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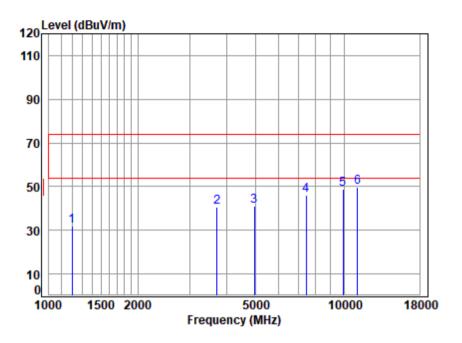


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL Job No : 04534AT/04535AT Mode : 2480 TX RSE

: BT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	7.19	25.30	54.70	54.04	31.83	74.00	-42.17	peak
2	3714.443	7.91	29.83	55.43	58.25	40.56	74.00	-33.44	peak
3	4960.000	9.07	32.20	56.27	56.01	41.01	74.00	-32.99	peak
4	7440.000	11.08	36.78	56.35	54.36	45.87	74.00	-28.13	peak
5	9920.000	12.73	38.90	54.17	51.36	48.82	74.00	-25.18	peak
6	nn11108 160	1/1 13	39 51	53 53	49 72	49 83	7/ 00	-2/ 17	nook



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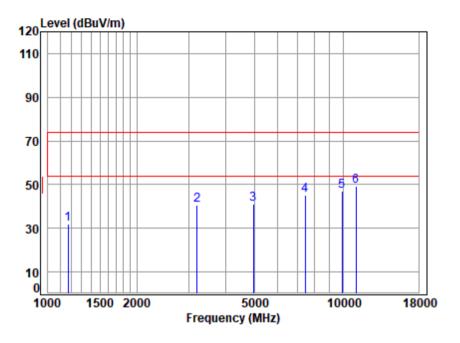


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04534AT/04535AT

Mode : 2480 TX RSE

: BT

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	7.17	25.36	54.70	54.15	31.98	74.00	-42.02	peak
2	3196.094	7.70	29.20	55.12	59.03	40.81	74.00	-33.19	peak
3	4960.000	9.07	32.20	56.27	55.96	40.96	74.00	-33.04	peak
4	7440.000	11.08	36.78	56.35	53.64	45.15	74.00	-28.85	peak
5	9920.000	12.73	38.90	54.17	49.37	46.83	74.00	-27.17	peak
6	pp11044.130	14.18	39.44	53.51	48.98	49.09	74.00	-24.91	peak



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7.4 Conducted Peak Output Power

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

Limit: ≤20.97dBm

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.4.2 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	02	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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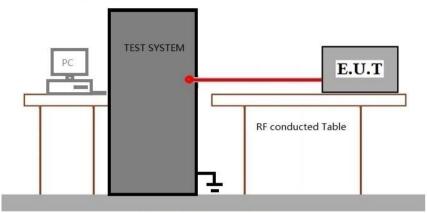


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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 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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7.5 20dB Bandwidth

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

Test Method: ANSI C63.10 (2013) Section 7.8.7

7.5.1 E.U.T. Operation

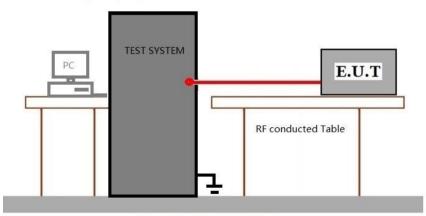
Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 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	02	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.							

7.5.3 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 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.

7.6.1 E.U.T. Operation

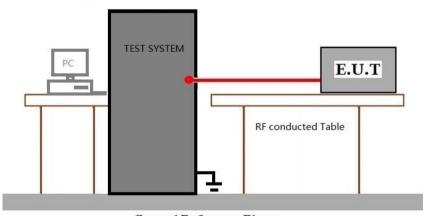
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.6 °C Humidity: 53.0 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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.

7.6.3 Test Setup Diagram







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7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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						

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	· · · = · · · · · · · · · · · · · · · ·								
Pre-scan / Final test	Mode Code	Description							
Final test	01	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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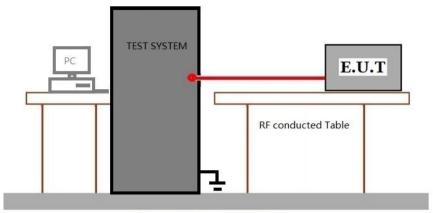


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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 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
002.020	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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

7.0.2 Test mode Description							
Pre-scan / Final test	Mode Code	Description					
Final test	01	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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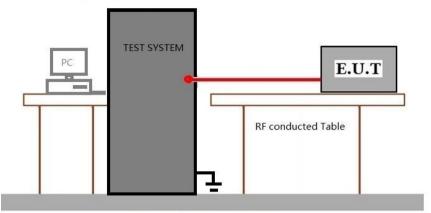


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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7.9 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).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 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_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	02	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	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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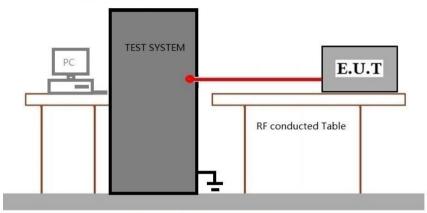


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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Conducted Spurious Emissions

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

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

	7.10.2 Test mode besorption							
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	02	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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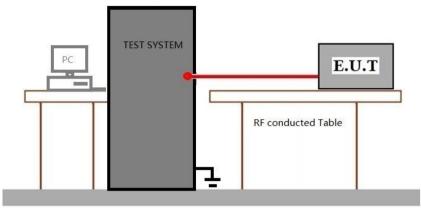
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7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2412004534AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for SZCR2412004534AT



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10 Appendix

Right earbud:

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX	Frequency	cy Packet A	ANT	99% Occupied Bandwidth (MHz)		Verdict
	Type	(MHz)		AINT	Result	Limit	verdict
		2402	DH5	1	0.874	/	Pass
GFSK	SISO	2441	DH5	1	0.874	/	Pass
		2480	DH5	1	0.870	/	Pass
	SISO	2402	2DH5	1	1.190	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.190	/	Pass
		2480	2DH5	1	1.191	/	Pass
8DPSK	SISO	2402	3DH5	1	1.193	/	Pass
		2441	3DH5	1	1.194	/	Pass
		2480	3DH5	1	1.194	/	Pass

1.1.2 20dB BW

Mode	TX	Frequency	Packet	Packet Type ANT	20dB Bandwidth (MHz)		Verdict
Mode	Type	(MHz)	Туре		Result	Limit	verdict
		2402	DH5	1	0.964	/	Pass
GFSK	SISO	2441	DH5	1	0.961	/	Pass
		2480	DH5	1	0.962	/	Pass
	SISO	2402	2DH5	1	1.339	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.341	/	Pass
		2480	2DH5	1	1.343	/	Pass
8DPSK	SISO	2402	3DH5	1	1.317	/	Pass
		2441	3DH5	1	1.315	/	Pass
		2480	3DH5	1	1.317	/	Pass



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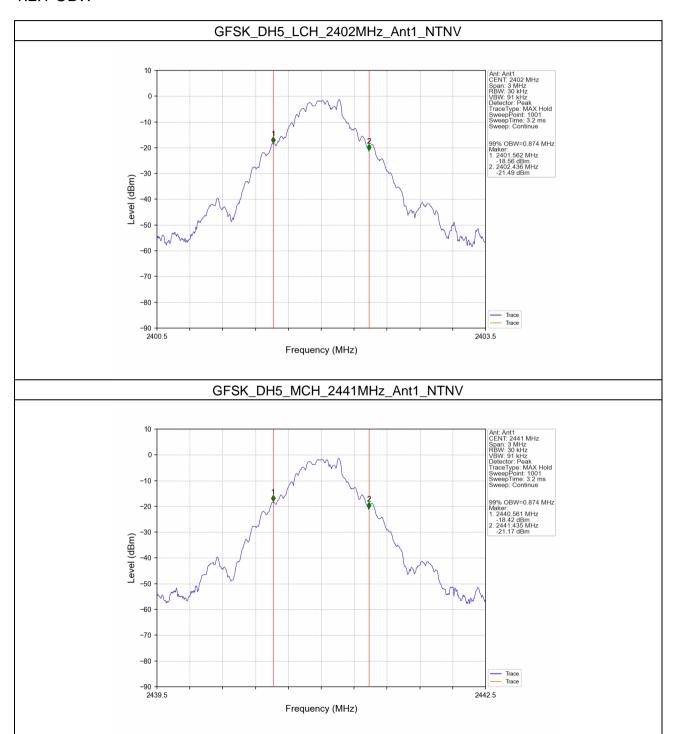
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1.2 Test Graph

1.2.1 OBW





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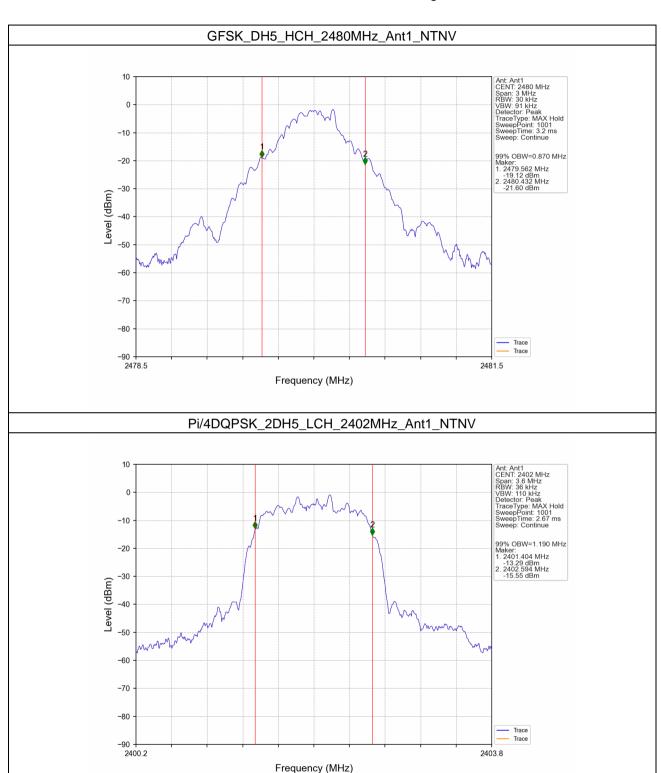
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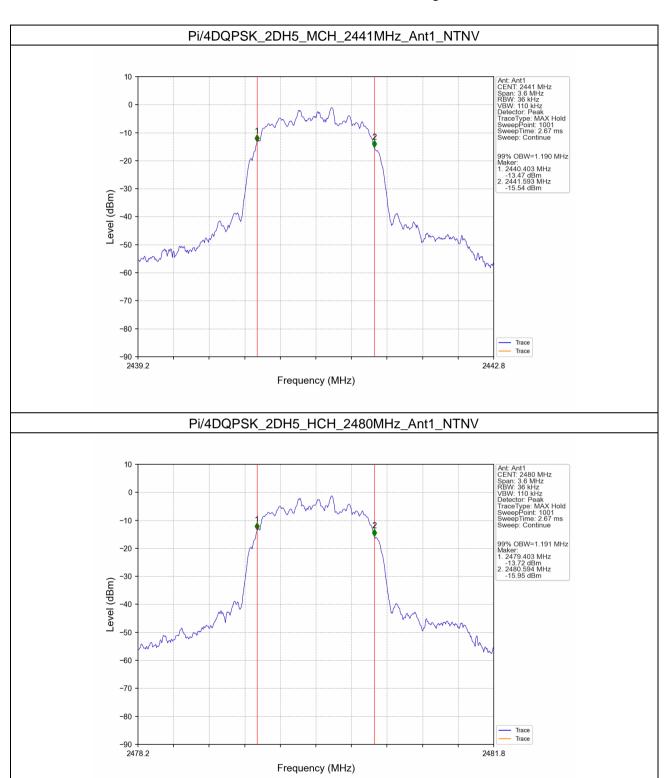
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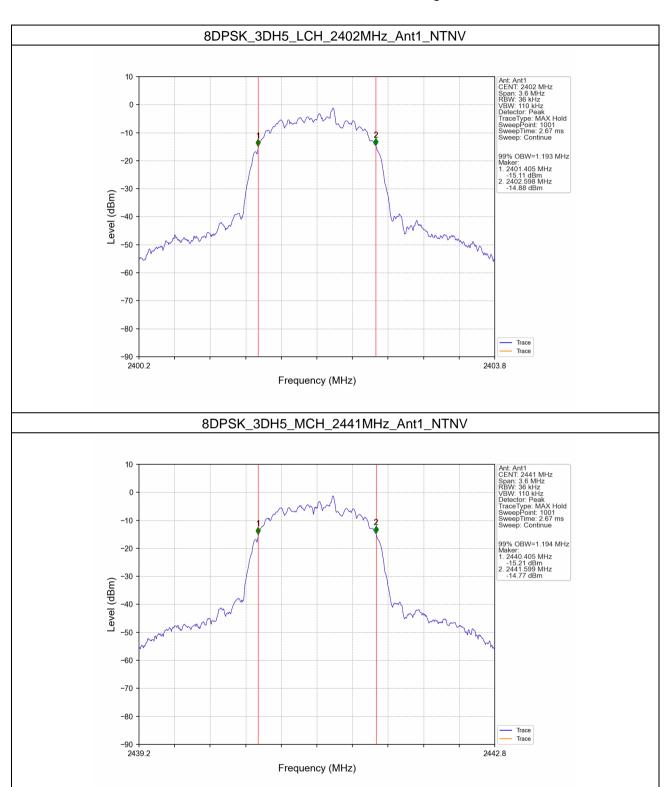
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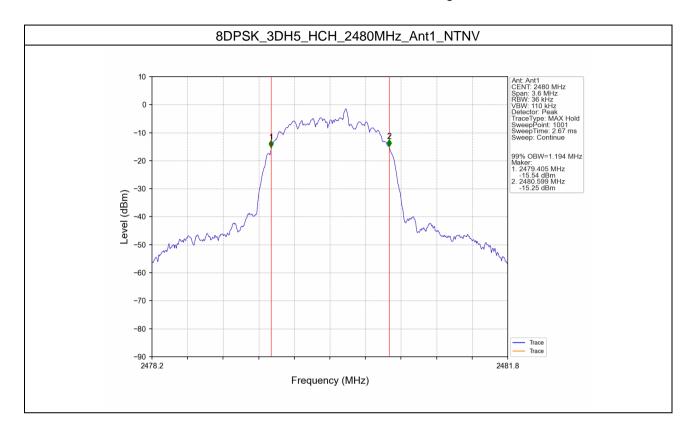
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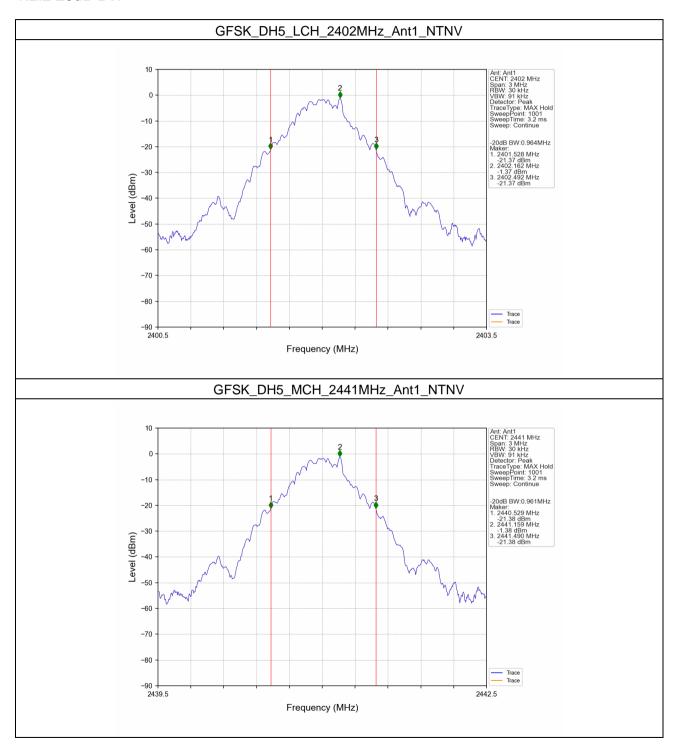


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1.2.2 20dB BW





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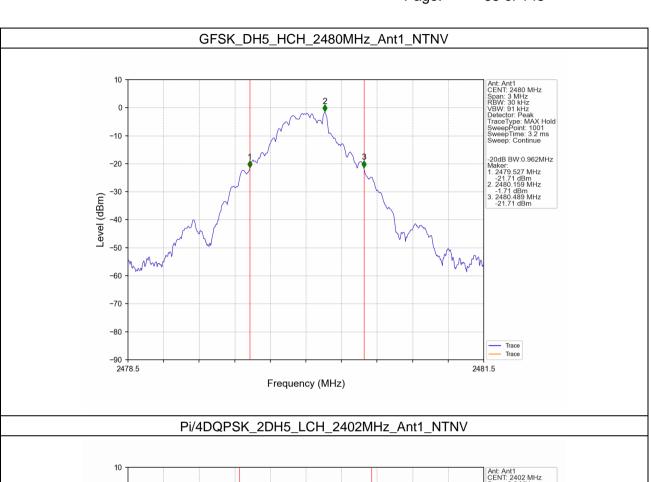
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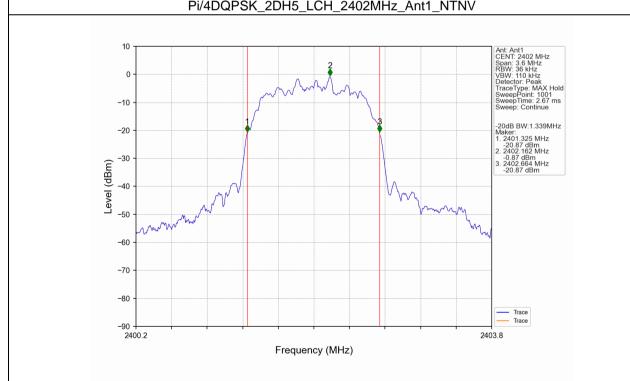


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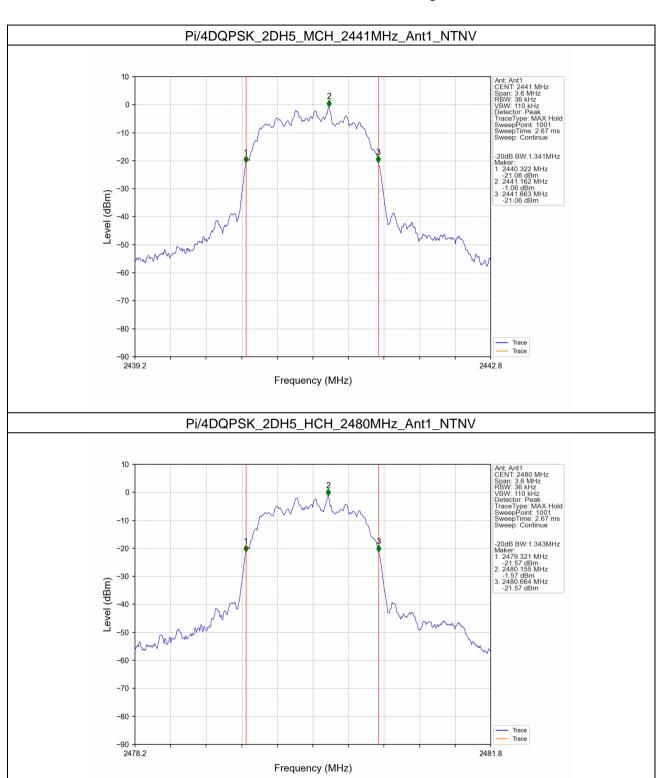
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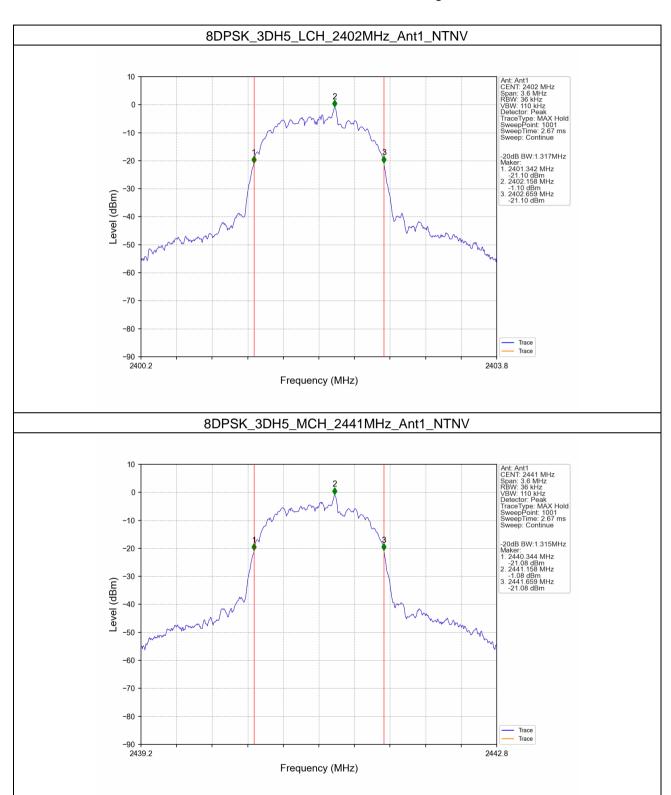
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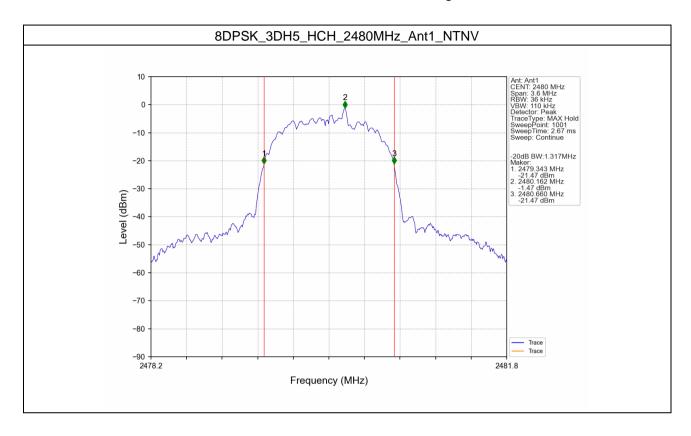
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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX	Frequency	Packet	Maximum Average Power	Verdict	
	Type	(MHz)	Туре	ANT1	Limit	
		2402	DH5	3.13	<=20.97	Pass
GFSK	SISO	2441	DH5	3.09	<=20.97	Pass
		2480	DH5	2.96	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.37	<=20.97	Pass
		2441	2DH5	2.24	<=20.97	Pass
		2480	2DH5	2.02	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.92	<=20.97	Pass
		2441	3DH5	1.87	<=20.97	Pass
		2480	3DH5	1.58	<=20.97	Pass

3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict		
GFSK	SISO	HOPP	DH5	1.004	0.964	>=0.964	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.343	>=0.895	Pass		
8DPSK	SISO	HOPP	3DH5	0.989	1.317	>=0.878	Pass		



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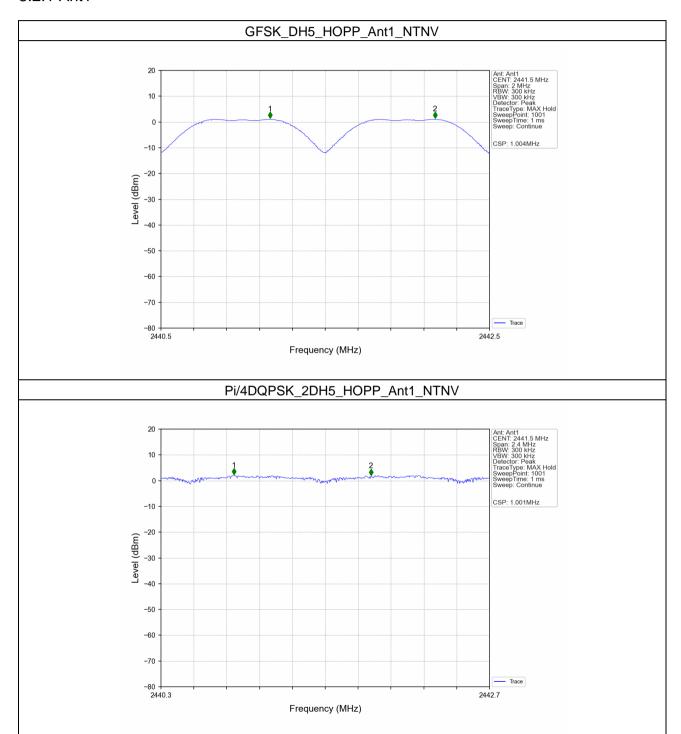
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3.2 Test Graph

3.2.1 Ant1





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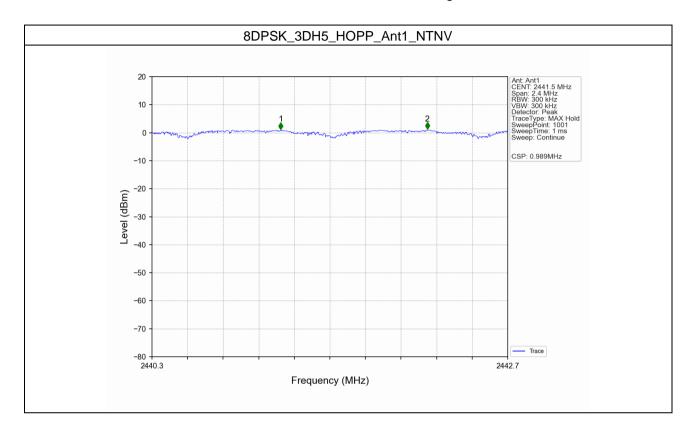
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4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

Mada	TX Frequency		Packet	Num of Hopping Frequencies		\/ordigt
Mode	Туре	(MHz)	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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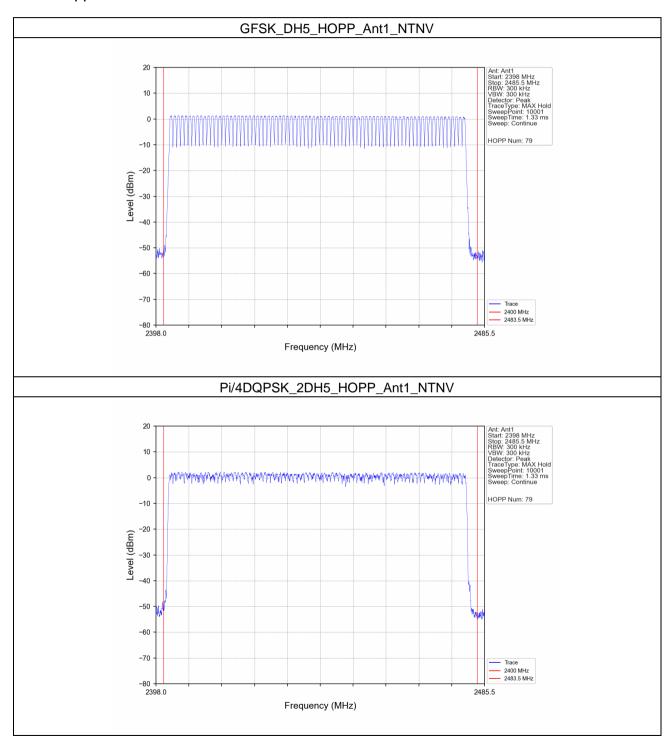
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4.2 Test Graph

4.2.1 HoppNum





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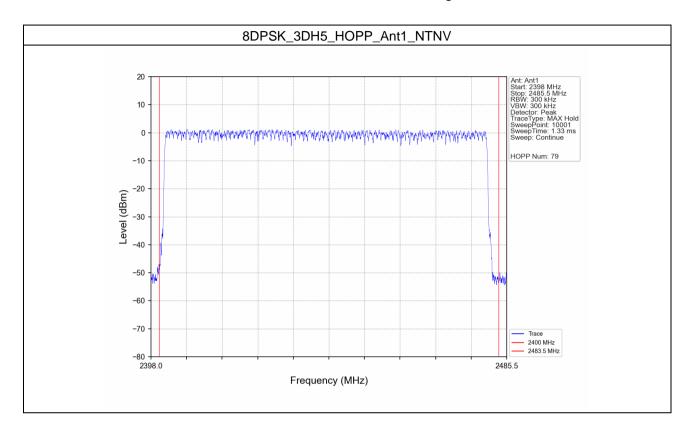
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5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

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	0.402	31.600	321	129.042	<=400	Pass
			DH3	1.656	31.600	162	268.272	<=400	Pass
			DH5	2.906	31.600	118	342.908	<=400	Pass
Pi/4DQPSK	SISO	НОРР	2DH1	0.398	31.600	319	126.962	<=400	Pass
			2DH3	1.638	31.600	164	268.632	<=400	Pass
			2DH5	2.906	31.600	106	308.036	<=400	Pass
8DPSK	SISO	НОРР	3DH1	0.404	31.600	320	129.280	<=400	Pass
			3DH3	1.654	31.600	173	286.142	<=400	Pass
			3DH5	2.906	31.600	89	258.634	<=400	Pass



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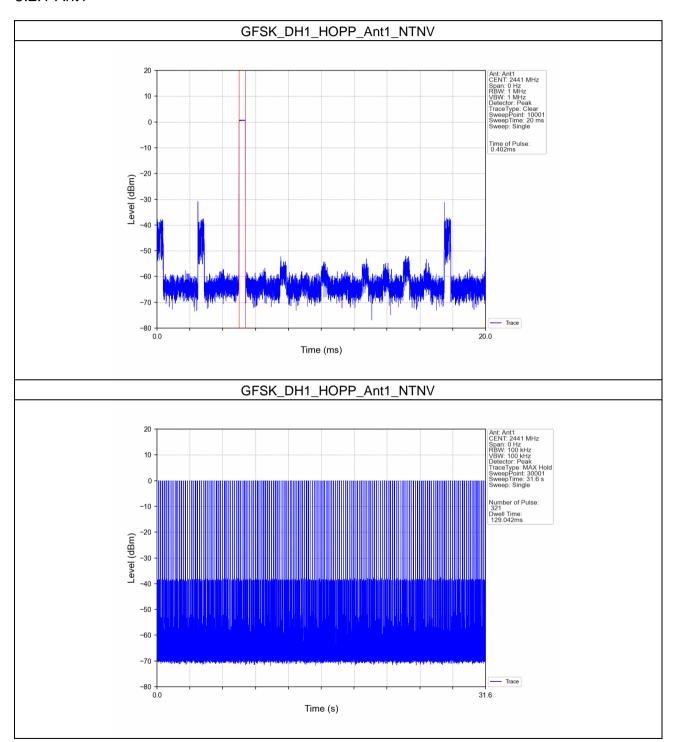
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5.2 Test Graph

5.2.1 Ant1





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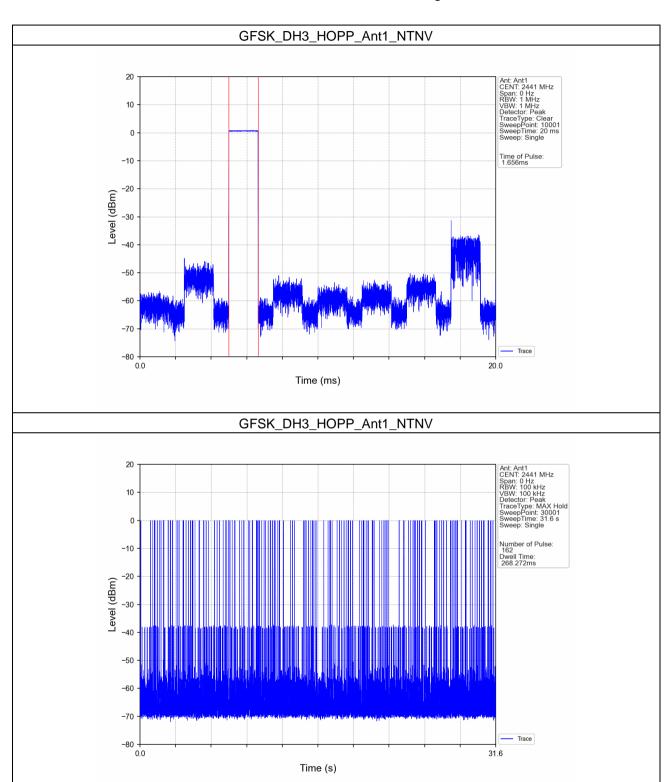
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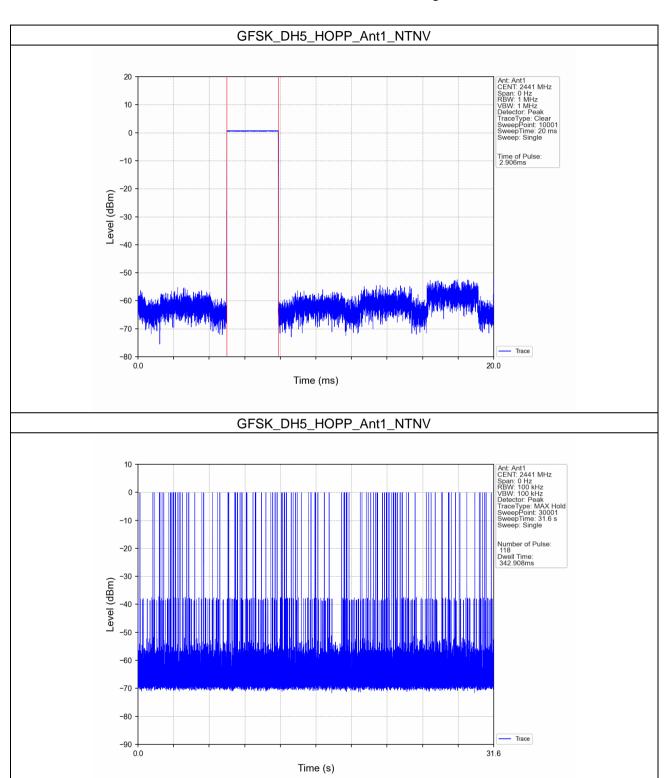
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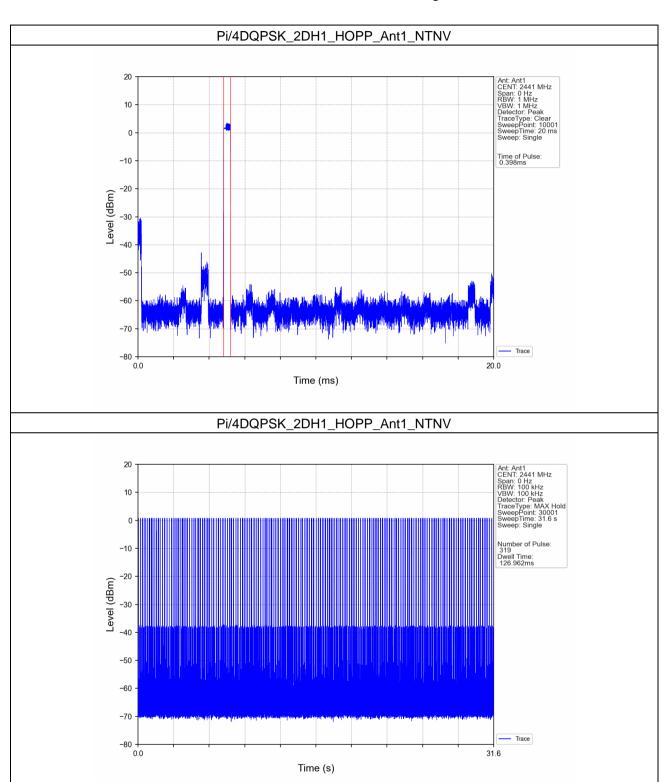
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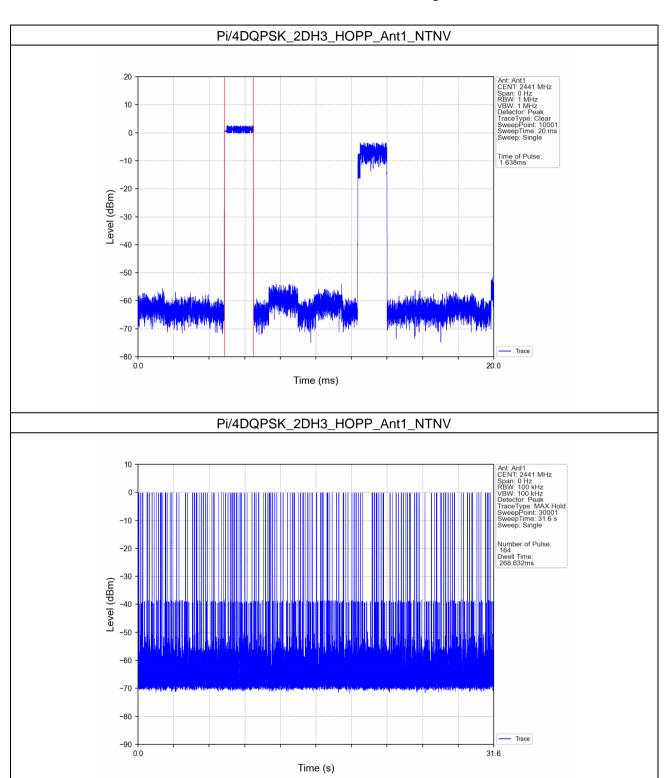
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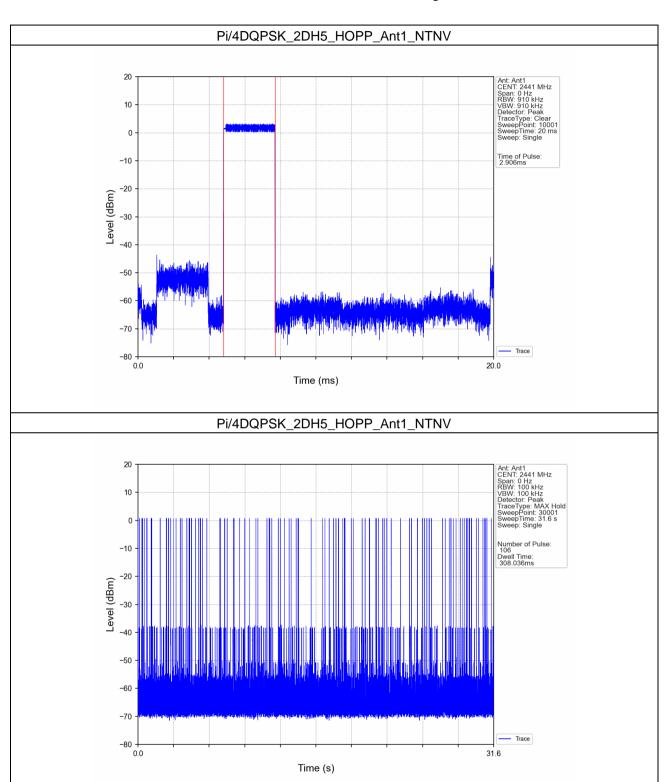
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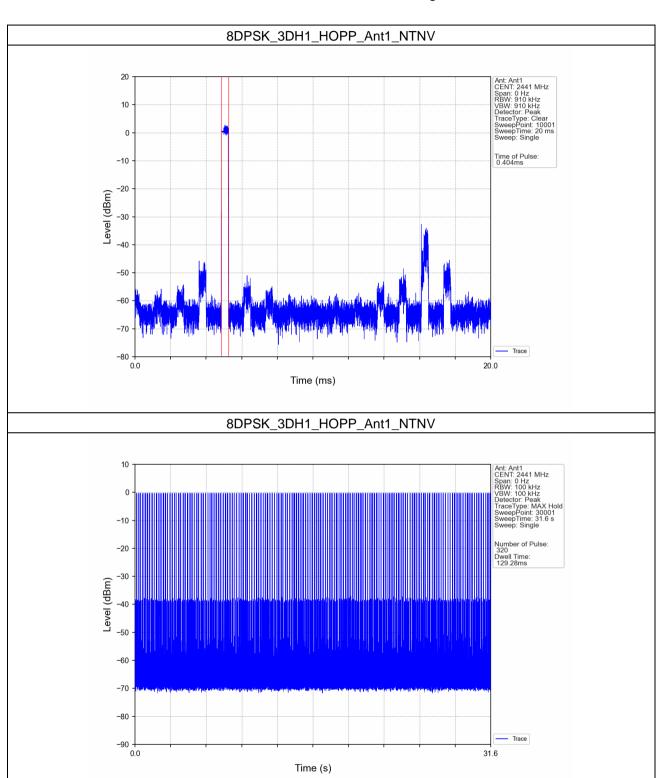
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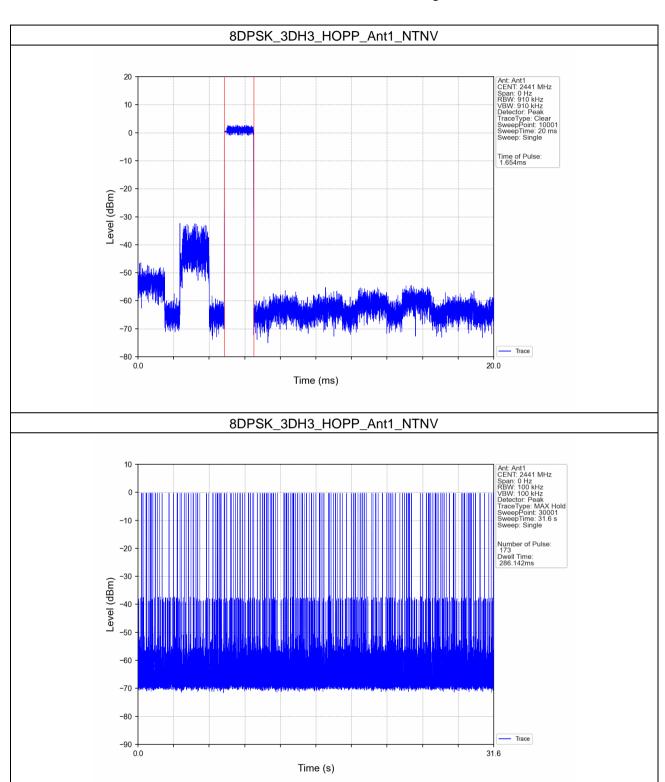
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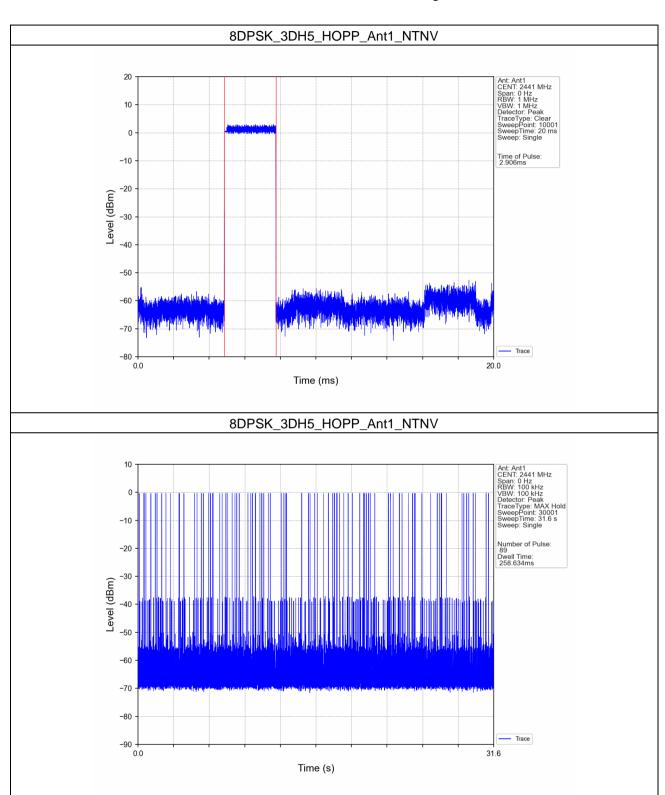
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	4.82
GFSK	SISO	2441	DH5	1	4.70
		2480	DH5	1	4.39
	SISO	2402	2DH5	1	1.58
Pi/4DQPSK		2441	2DH5	1	1.47
		2480	2DH5	1	1.04
		2402	3DH5	1	0.64
8DPSK	SISO	2441	3DH5	1	0.61
		2480	3DH5	1	0.29

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.82	-15.18	Pass
		2441	DH5	1	4.82	-15.18	Pass
		2480	DH5	1	4.82	-15.18	Pass
		HOPP	DH5	1	4.82	-15.18	Pass
					4.82	-15.18	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.58	-18.42	Pass
		2441	2DH5	1	1.58	-18.42	Pass
		2480	2DH5	1	1.58	-18.42	Pass
		HOPP	2DH5	1	1.58	-18.42	Pass
					1.58	-18.42	Pass
8DPSK	SISO	2402	3DH5	1	0.64	-19.36	Pass
		2441	3DH5	1	0.64	-19.36	Pass
		2480	3DH5	1	0.64	-19.36	Pass
		НОРР	3DH5	1	0.64	-19.36	Pass
					0.64	-19.36	Pass



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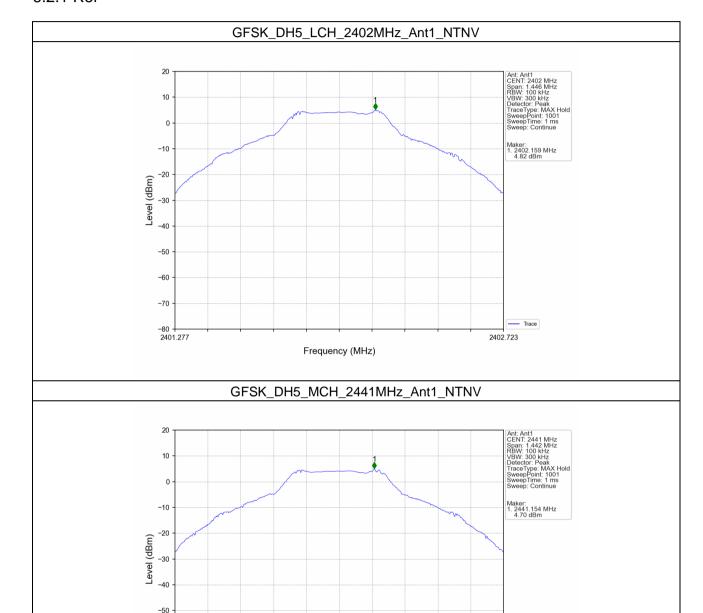
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6.2 Test Graph

6.2.1 Ref





-60 -70

2440 279

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Frequency (MHz)

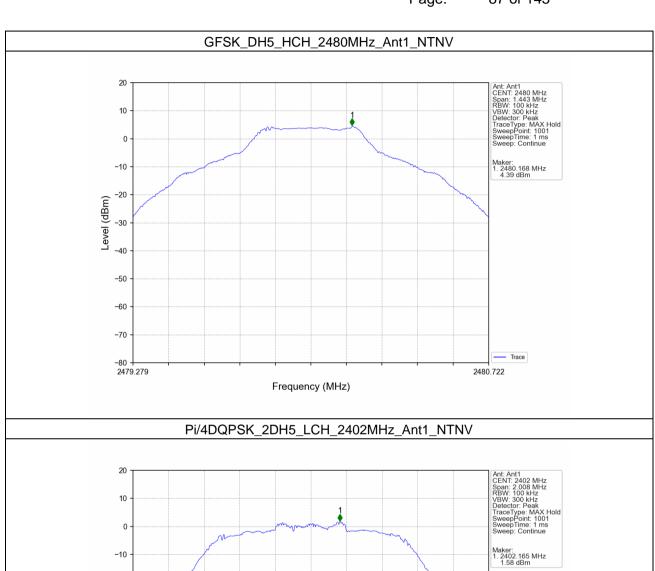
2441.721

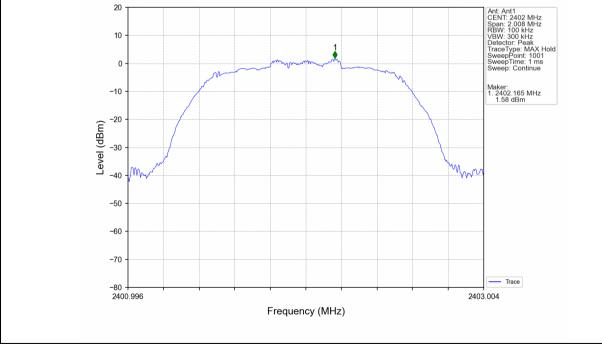


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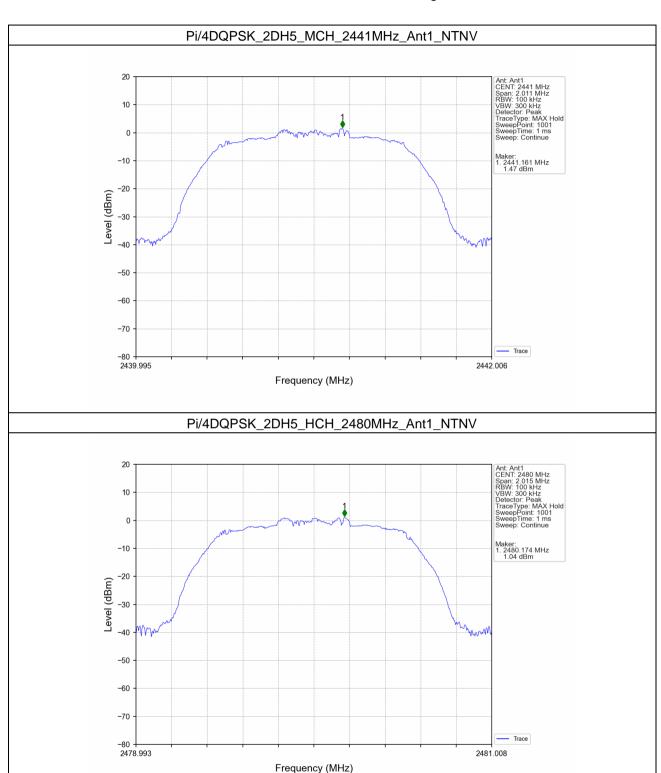
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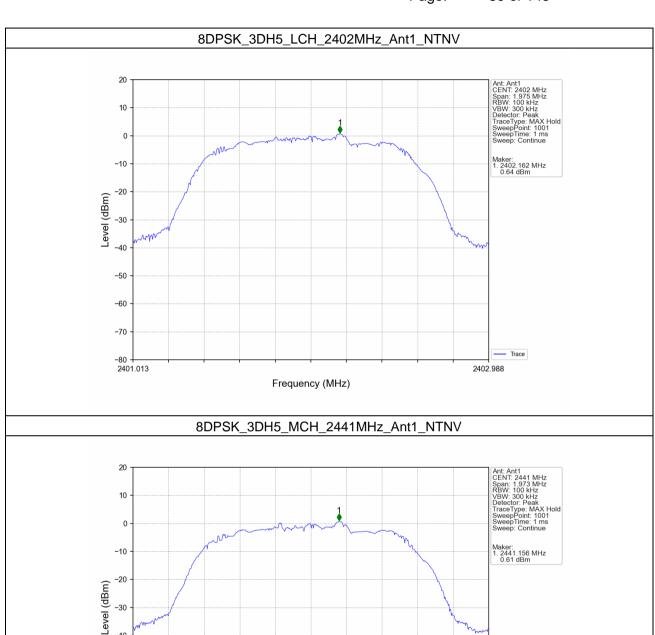
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-30

-40

-50

-60

-70

-80 2440.014

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Frequency (MHz)

Trace

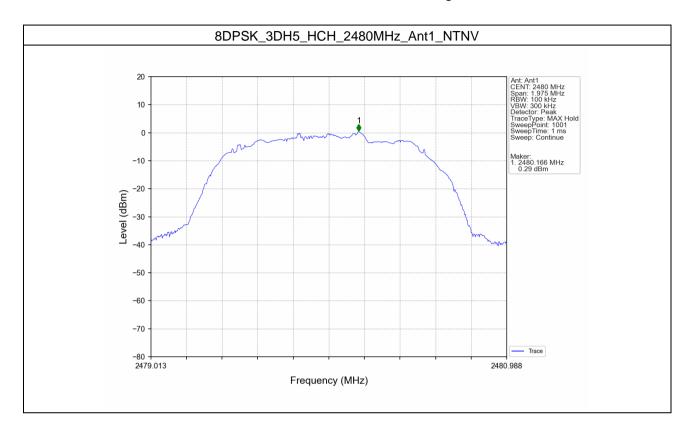
2441.987



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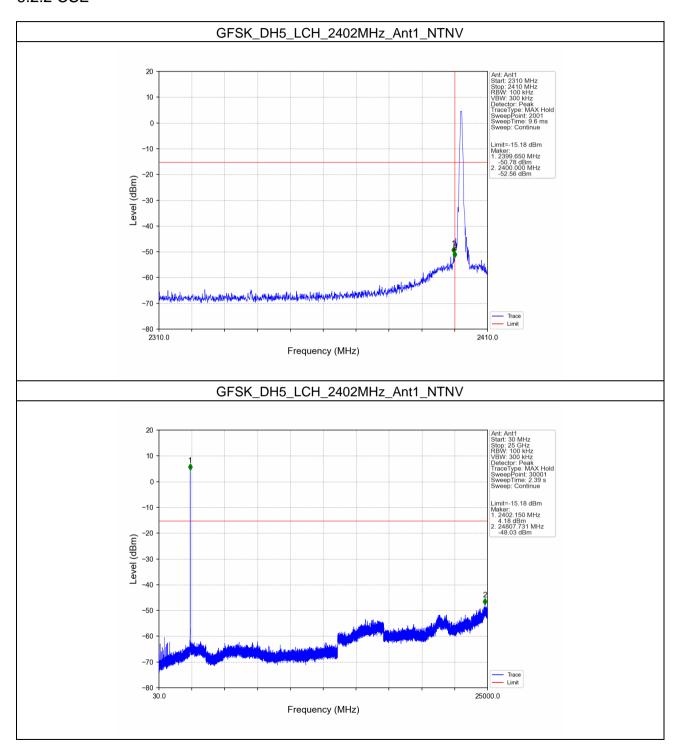


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6.2.2 CSF





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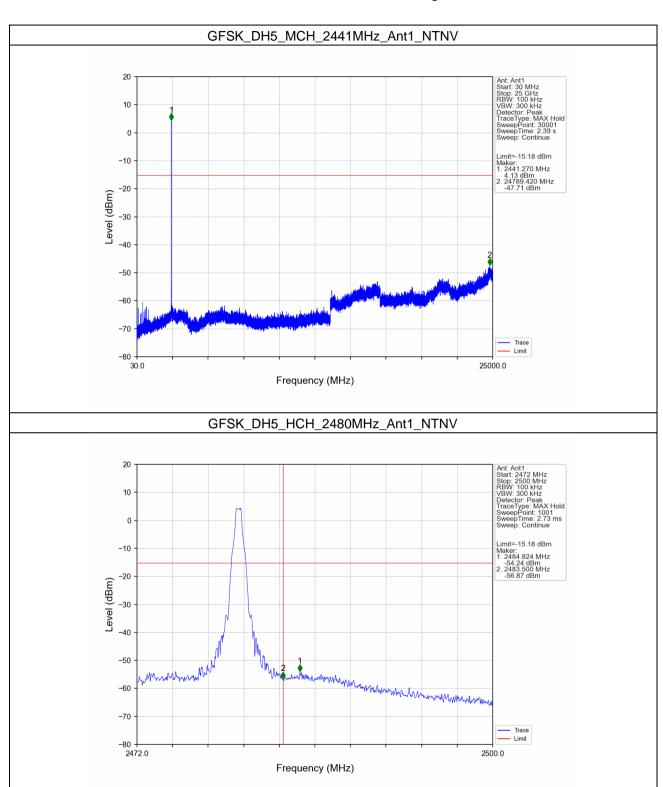
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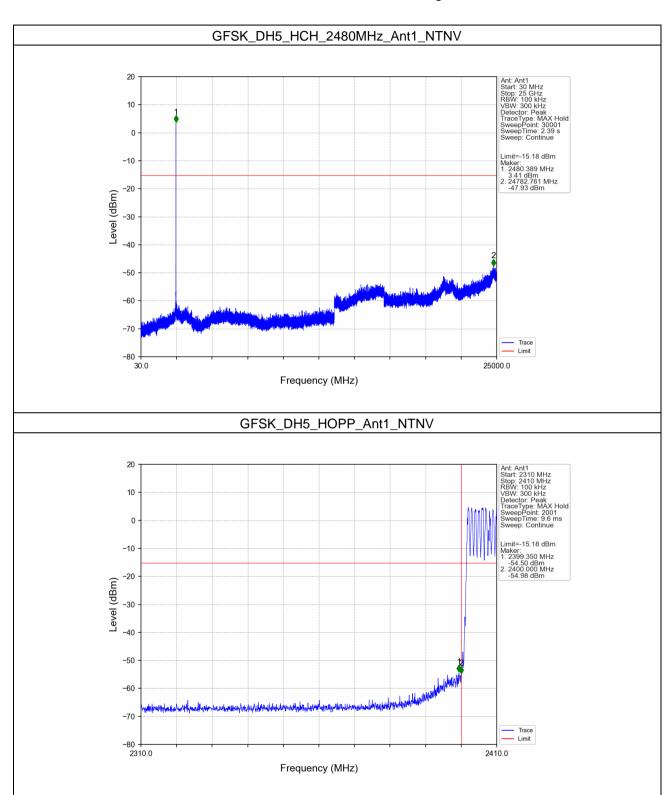
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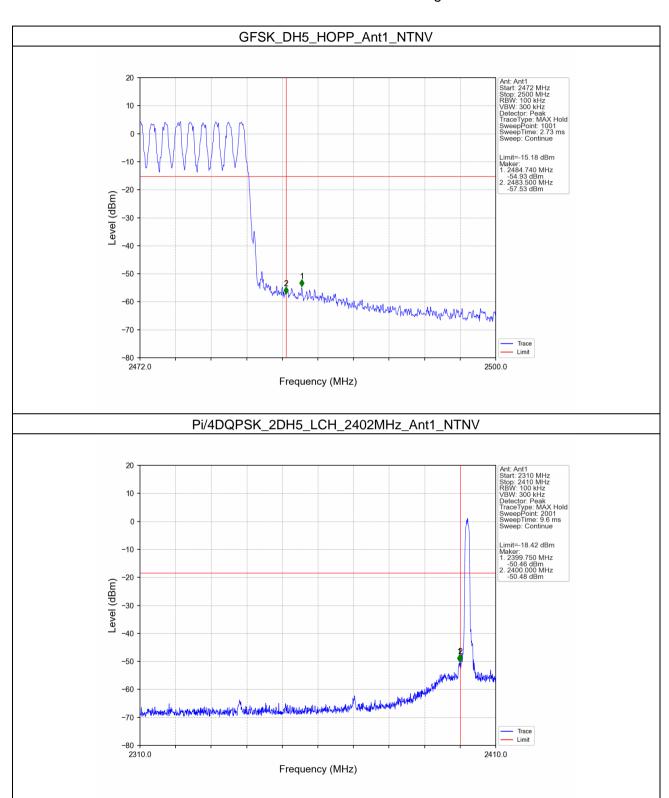
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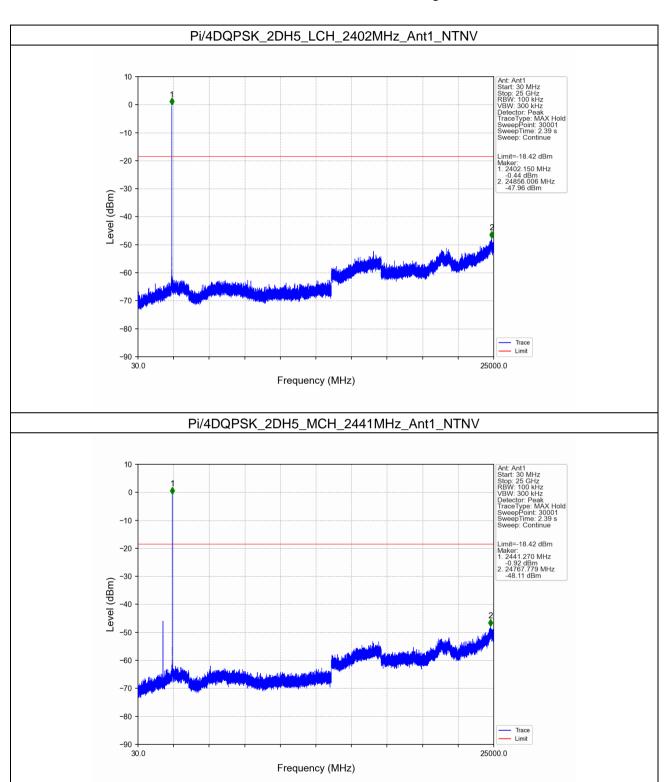
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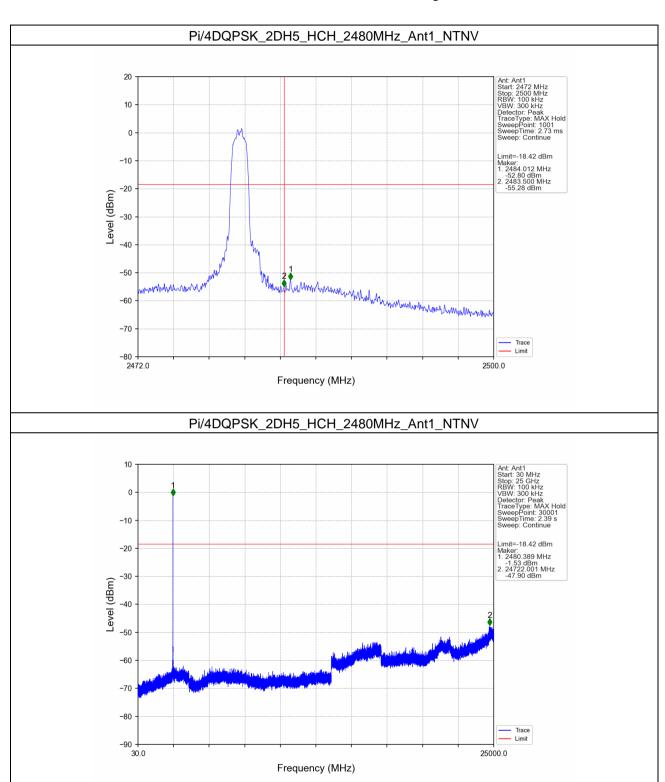
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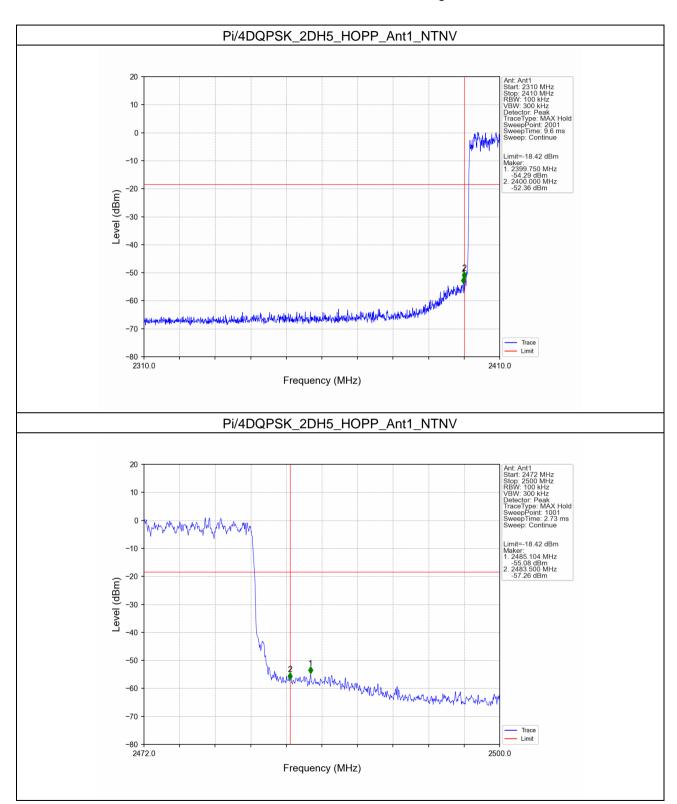
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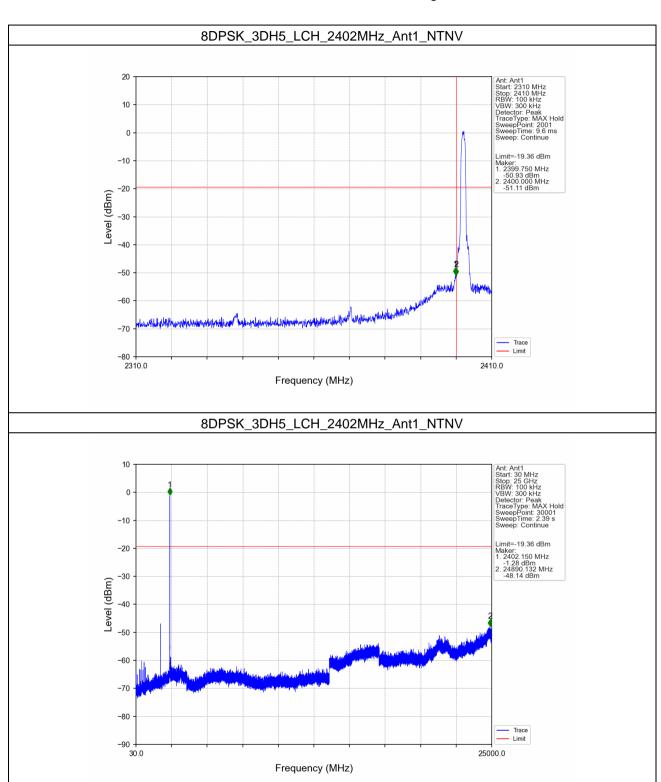
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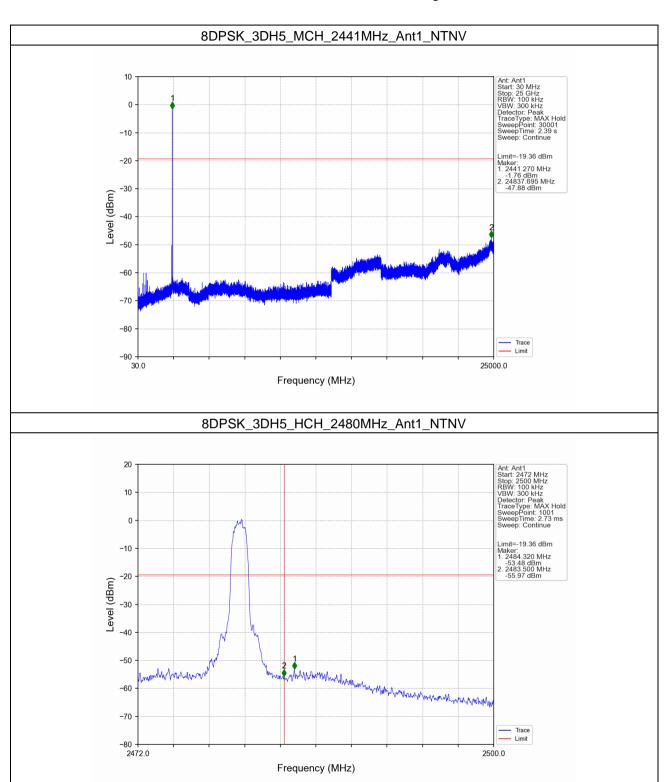
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