

RF TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd.

Product Name: Wireless Earphone

Test Model(s): Cubot Vibe R

Report Reference No. : DACE250428035RL002

Applicant's Name : Shenzhen Huafurui Technology Co., Ltd.

Address : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen, China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : ETSI EN 300 328 V2.2.2 (2019-07)

Date of Receipt : November 1, 2024

Date of Test : November 1, 2024 to November 19, 2024

Data of Issue : April 30, 2025

Result : Pass

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000004820

Apply for company information

Applicant's Name	:	Shenzhen Huafului Technology Co., Ltd.
Address	:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen, China
Product Name	:	Wireless Earphone
Test Model(s)	:	Cubot Vibe R
Series Model(s)	:	N/A
Test Specification Standard(s)	:	ETSI EN 300 328 V2.2.2 (2019-07)

NOTE1:

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EU Directives.



NOTE2:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

Keren Huang

Keren Huang / Test Engineer

April 30, 2025

Supervised by:

Ben Tang

Ben Tang / Project Engineer

April 30, 2025



Approved by:

Tom Chen

Tom Chen / Manager

April 30, 2025

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Revise	DACE250428035RL002	April 30, 2025

*Note: This report is an updated report, which includes the applicant's name and address, as well as the manufacturer's name and address. The product itself has not changed, and the modifications do not involve any performance changes to the product, so the test data is based on the original report DACE241113016RL003.

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

ETSI EN 300 328 V2.2.2 (2019-07): Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
RF Power	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.2.2.1	Clause 4.3.1.2.1	Pass
Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.4.2.1	Clause 4.3.1.4.1	Pass
Hopping Frequency Separation	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.5.2.1	Clause 4.3.1.5.1	Pass
Occupied Channel Bandwidth	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.7.2.1	Clause 4.3.1.8.1	Pass
Transmitter unwanted emissions in the out-of-band domain	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.8.2.1	Clause 4.3.1.9.1	Pass
Transmitter unwanted emissions in the spurious domain, conducted	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.9.2.1	Clause 4.3.1.10.1	Pass
Receiver spurious emissions, conducted	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.10.2.1	Clause 4.3.1.11.1	Pass
Receiver Blocking	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.11.2.1	Clause 4.3.1.12.1	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen Huafurui Technology Co., Ltd.
Address : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen, China

Manufacturer : Shenzhen Huafurui Technology Co., Ltd.
Address : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen, China

2.2 Description of Device (EUT)

Product Name:	Wireless Earphone
Model/Type reference:	Cubot Vibe R
Series Model:	N/A
Model Difference:	N/A
Trade Mark:	CUBOT
Power Supply:	DC 5V/1A from adapter Battery:DC3.7V 65mAH
Operation Frequency:	2402~2480MHz
Number of Channels:	79
Modulation Type:	GFSK, p/4DQPSK,
Antenna Type:	Chip antenna
Antenna Gain:	1.8dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	TX	Keep the EUT in transmitting mode
TM2	RX	Keep the EUT in receiving mode
TM3	TX_Hop mode	Keep the EUT in frequency hopping mode with GFSK modulation, p/4DQPSK modulation, 8DPSK modulation.

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
AC-DC adapter	HUAWEI	P0005	

2.5 Equipments Used During The Test

Accumulated Transmit Time, Frequency Occupation and Hopping Sequence
Hopping Frequency Separation
Occupied Channel Bandwidth
Transmitter unwanted emissions in the out-of-band domain
Transmitter unwanted emissions in the spurious domain, conducted
Receiver spurious emissions, conducted
Receiver Blocking
RF Power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V1.0.0	/	/
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information Technology(she nzheng) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Signal Generator	Keysight	N5181A	MY48180415	2023-12-11	2024-12-10
Signal Generator	Keysight	N5182A	MY50143455	2023-12-12	2024-12-11
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
RF conducted power	$\pm 0.733\text{dB}$
Duty cycle	$\pm 3.1\%$
Radio Frequency	$\pm 2 \times 10^{-7}$
Occupied Bandwidth	$\pm 3.63\%$
Conducted Spurious emissions	$\pm 1.98\text{dB}$
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Radio Spectrum Matter Test Results (RF)

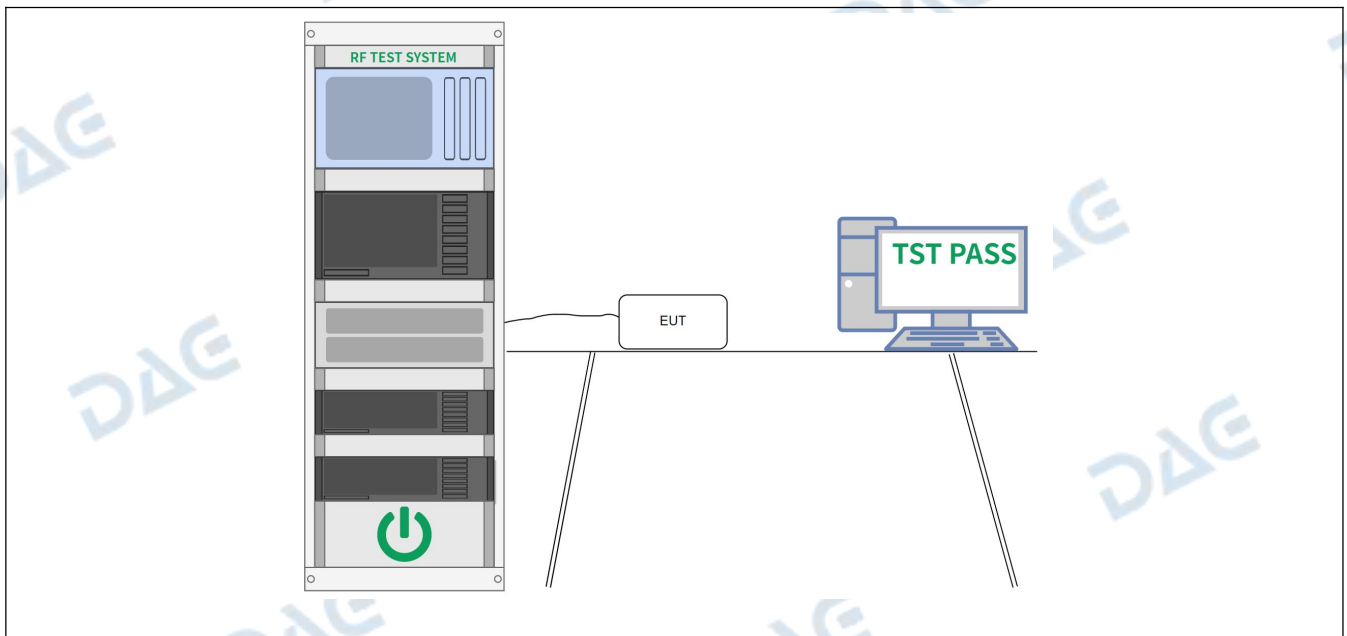
3.1 RF Power

Test Requirement:	Clause 4.3.1.2.1
Test Limit:	$\leq 20\text{dBm}$
Test Method:	Clause 5.4.2.2.1
Procedure:	Clause 5.4.2.2.1.2

3.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM3				
Final test mode:	TM3				

3.1.2 Test Setup Diagram:



3.1.3 Test Data:

Please Refer to Appendix for Details.

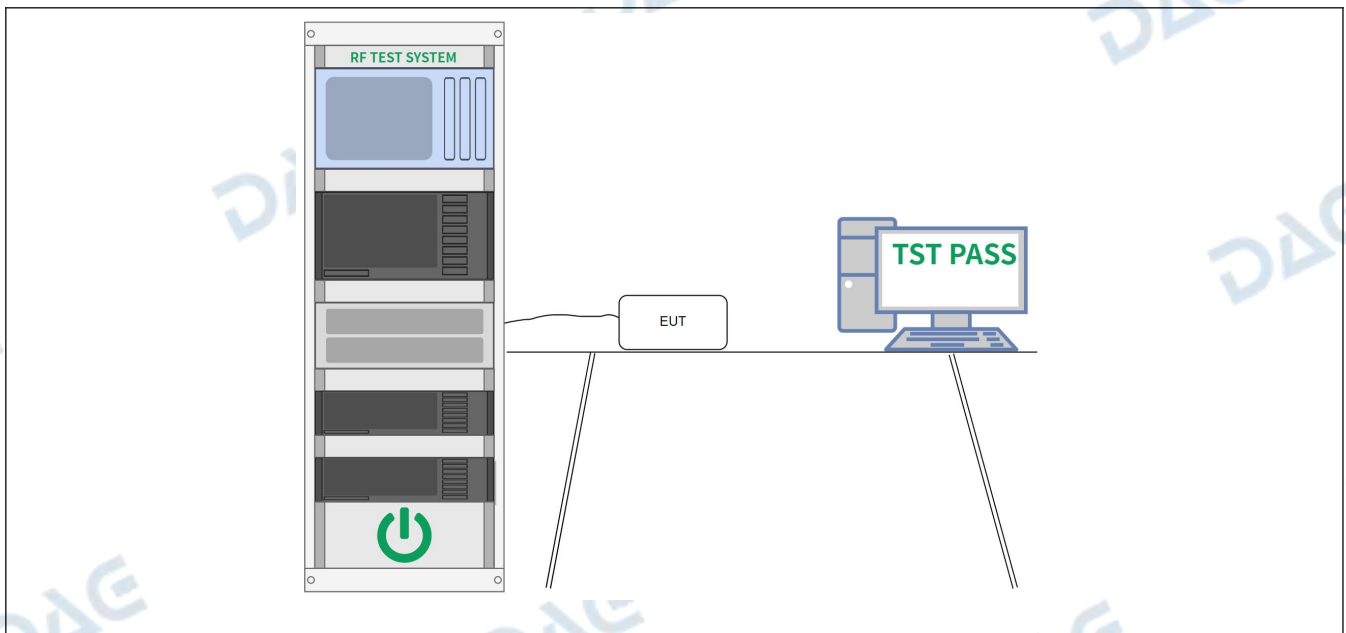
3.2 Accumulated Transmit Time, Frequency Occupation and Hopping Sequence

Test Requirement:	Clause 4.3.1.4.1
Test Limit:	The Accumulated Transmit Time on any hopping frequency shall not be greater than 15 ms within any observation period of 15 ms multiplied by the minimum number of hopping frequencies (N) that have to be used. In order for the FHSS equipment to comply with the Frequency Occupation requirement, it shall meet either of the following two options: Option 1: Each hopping frequency of the Hopping Sequence shall be occupied at least once within a period not exceeding four times the product of the dwell time and the number of hopping frequencies in use. Option 2: The probability that each hopping frequency is occupied shall be between $((1/U) 25 \%)$ and 77 % where U is the number of hopping frequencies in use. The Hopping Sequence(s) shall contain at least N hopping frequencies where N is either 5 or the result of 15 MHz divided by the minimum Hopping Frequency Separation in MHz, whichever is the greater. NOTE: See also clause 4.3.1.5.3.1 for the Hopping Frequency Separation applicable to non-adaptive FHSS equipment. Non-Adaptive FHSS equipment, may blacklist some but not all hopping frequencies. From the N hopping frequencies defined above, the equipment shall transmit on at least one hopping frequency. For the blacklisted frequencies, the equipment has to occupy these frequencies for the duration of the average dwell time (see also definition for blacklisted frequency in clause 3.1).
Test Method:	Clause 5.4.4.2.1
Procedure:	Clause 5.4.4.2.1

3.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM3				
Final test mode:	TM3				

3.2.2 Test Setup Diagram:



3.2.3 Test Data:

Please Refer to Appendix for Details.

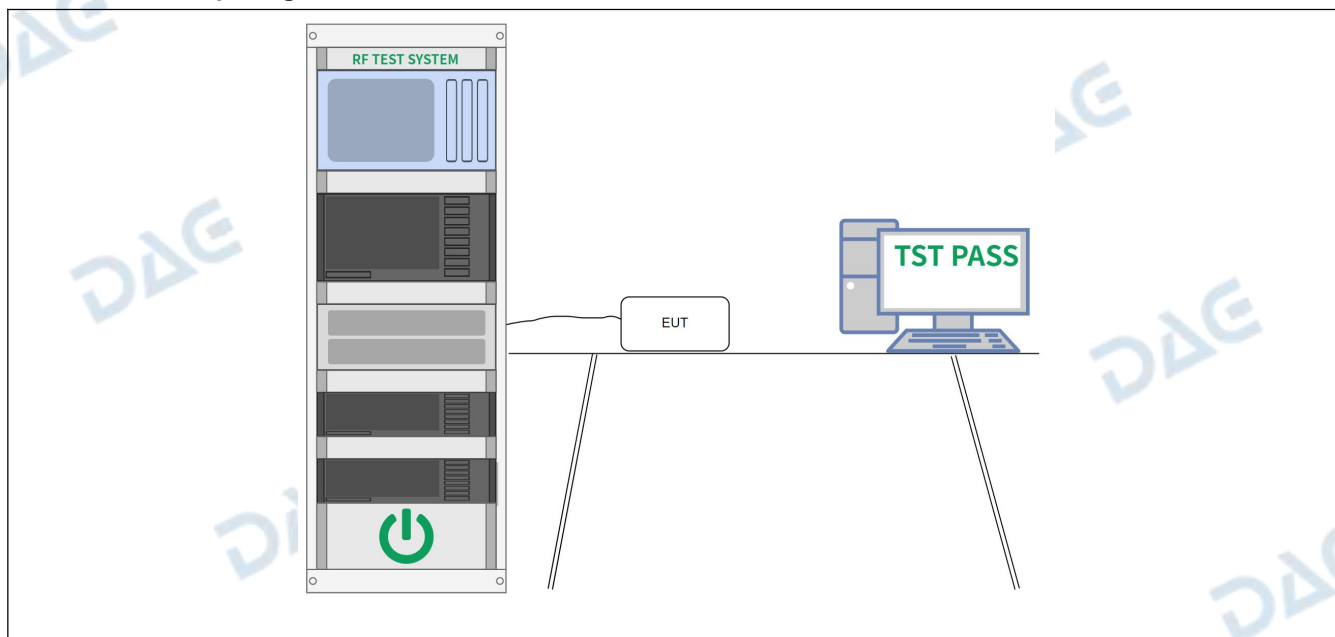
3.3 Hopping Frequency Separation

Test Requirement:	Clause 4.3.1.5.1
Test Limit:	For non-adaptive FHSS equipment, the Hopping Frequency Separation shall be equal to or greater than the Occupied Channel Bandwidth (see clause 4.3.1.8), with a minimum separation of 100 kHz. For FHSS equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for non-adaptive FHSS equipment operating in a mode where the RF Output power is less than 10 dBm e.i.r.p., the Hopping Frequency Separation shall be equal to or greater than 100 kHz.
Test Method:	Clause 5.4.5.2.1
Procedure:	Clause 5.4.5.2.1

3.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM3				
Final test mode:	TM3				

3.3.2 Test Setup Diagram:



3.3.3 Test Data:

Please Refer to Appendix for Details.

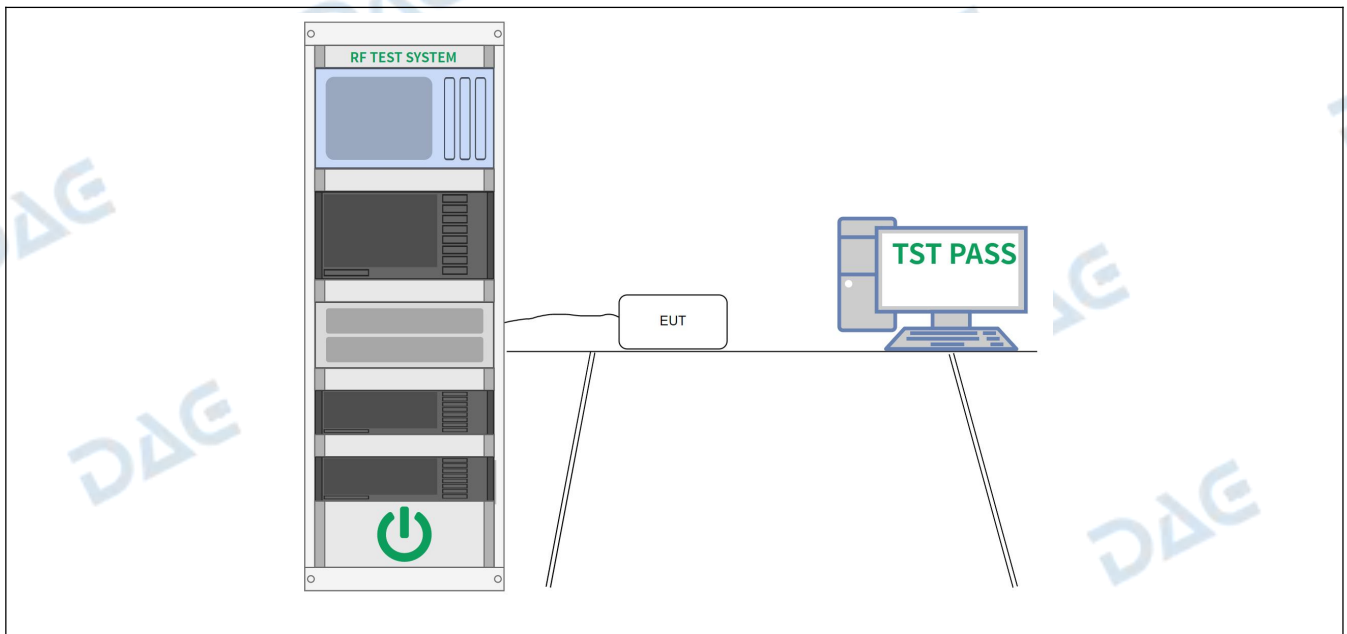
3.4 Occupied Channel Bandwidth

Test Requirement:	Clause 4.3.1.8.1
Test Limit:	Clause 4.3.1.8.3
Test Method:	Clause 5.4.7.2.1
Procedure:	Clause 5.4.7.2

3.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.4.2 Test Setup Diagram:



3.4.3 Test Data:

Please Refer to Appendix for Details.

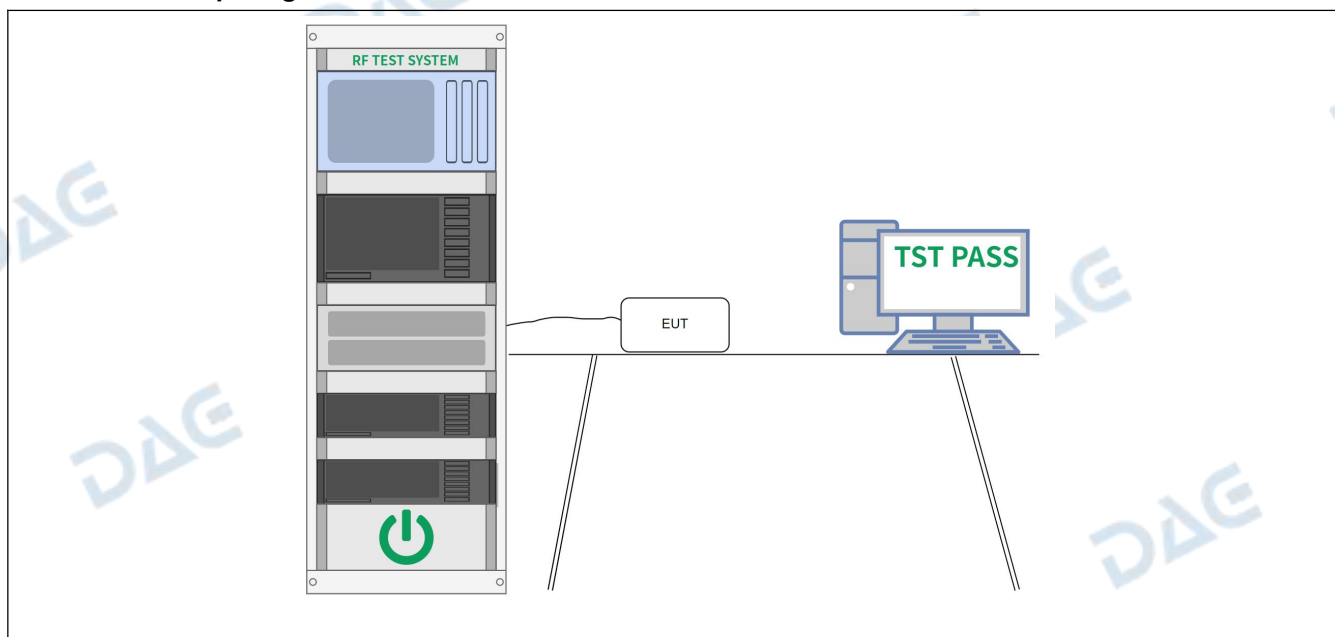
3.5 Transmitter unwanted emissions in the out-of-band domain

Test Requirement:	Clause 4.3.1.9.1
Test Limit:	Clause 4.3.1.9.3
Test Method:	Clause 5.4.8.2.1
Procedure:	Clause 5.4.8.2.1

3.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM3				
Final test mode:	TM3				

3.5.2 Test Setup Diagram:



3.5.3 Test Data:

Please Refer to Appendix for Details.

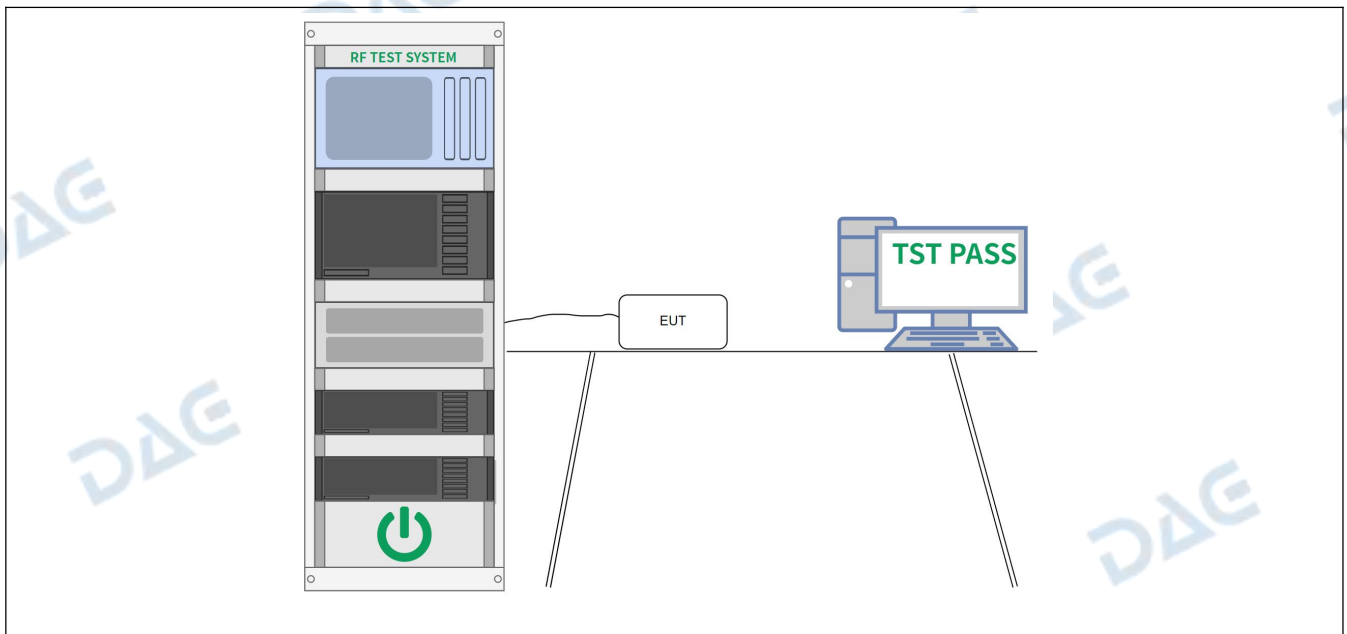
3.6 Transmitter unwanted emissions in the spurious domain, conducted

Test Requirement:	Clause 4.3.1.10.1
Test Limit:	Clause 4.3.1.10.3
Test Method:	Clause 5.4.9.2.1
Procedure:	Clause 5.4.9.2.1

3.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.6.2 Test Setup Diagram:



3.6.3 Test Data:

Please Refer to Appendix for Details.

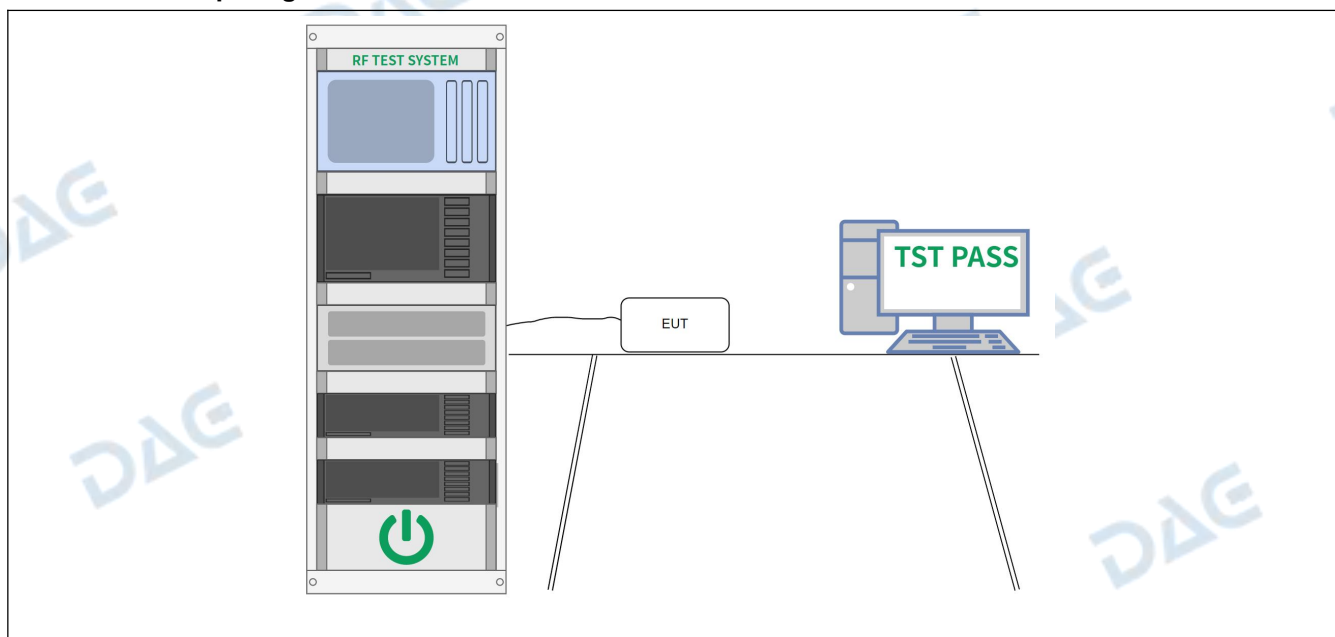
3.7 Receiver spurious emissions, conducted

Test Requirement:	Clause 4.3.1.11.1
Test Limit:	Clause 4.3.1.11.3
Test Method:	Clause 5.4.10.2.1
Procedure:	Clause 5.4.10.2.1

3.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM2				
Final test mode:	TM2				

3.7.2 Test Setup Diagram:



3.7.3 Test Data:

Please Refer to Appendix for Details.

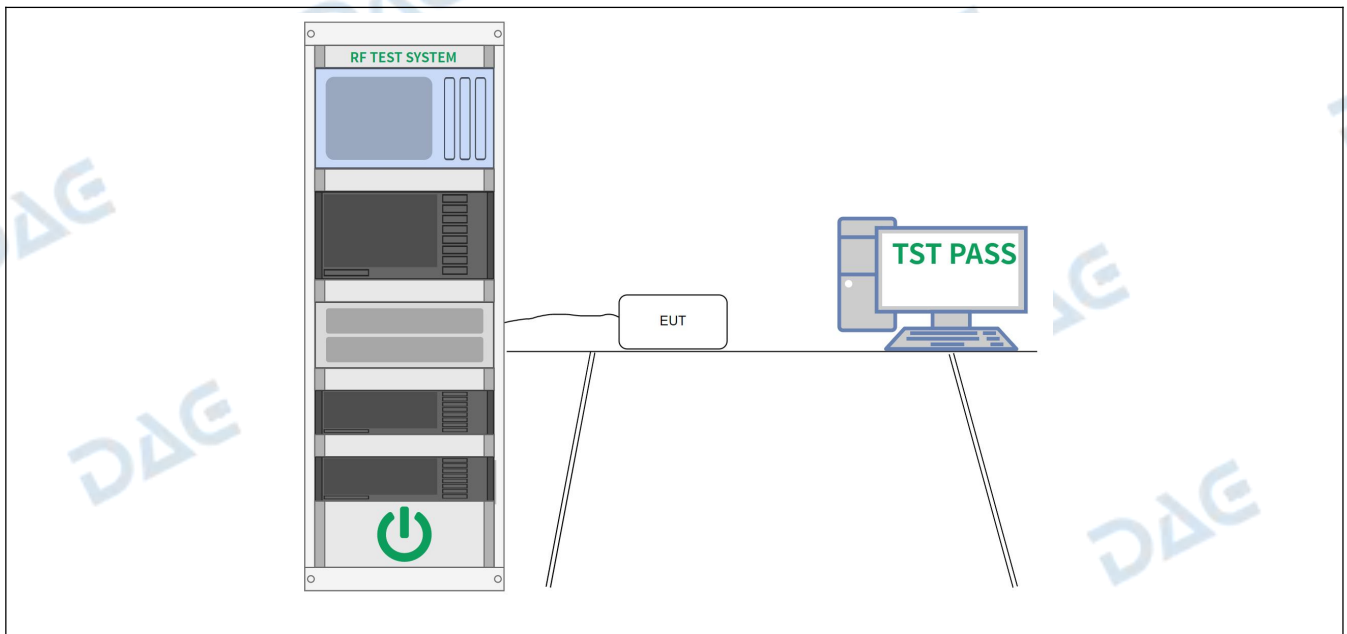
3.8 Receiver Blocking

Test Requirement:	Clause 4.3.1.12.1
Test Limit:	Clause 4.3.1.12.4
Test Method:	Clause 5.4.11.2.1
Procedure:	Clause 5.4.11.2.1

3.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM2				
Final test mode:	TM2				

3.8.2 Test Setup Diagram:



3.8.3 Test Data:

Please Refer to Appendix for Details.

4 PHOTOS OF THE EUT

External



External



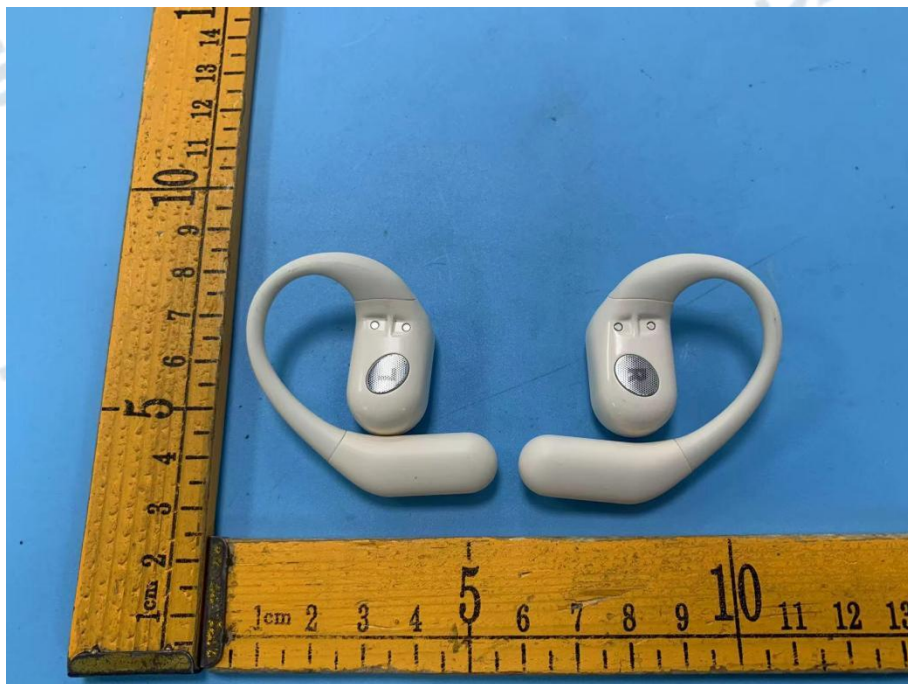






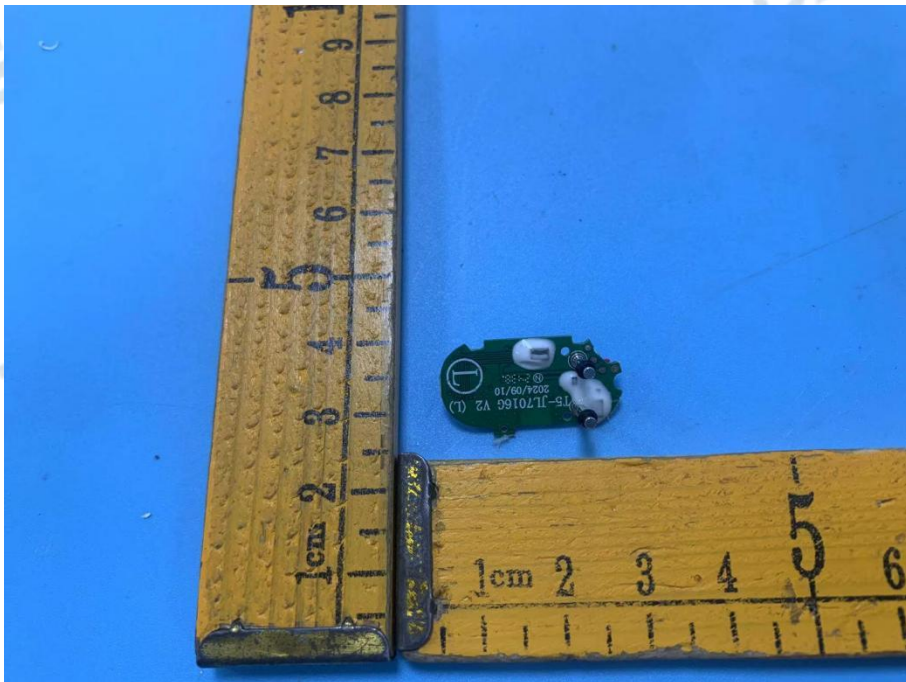
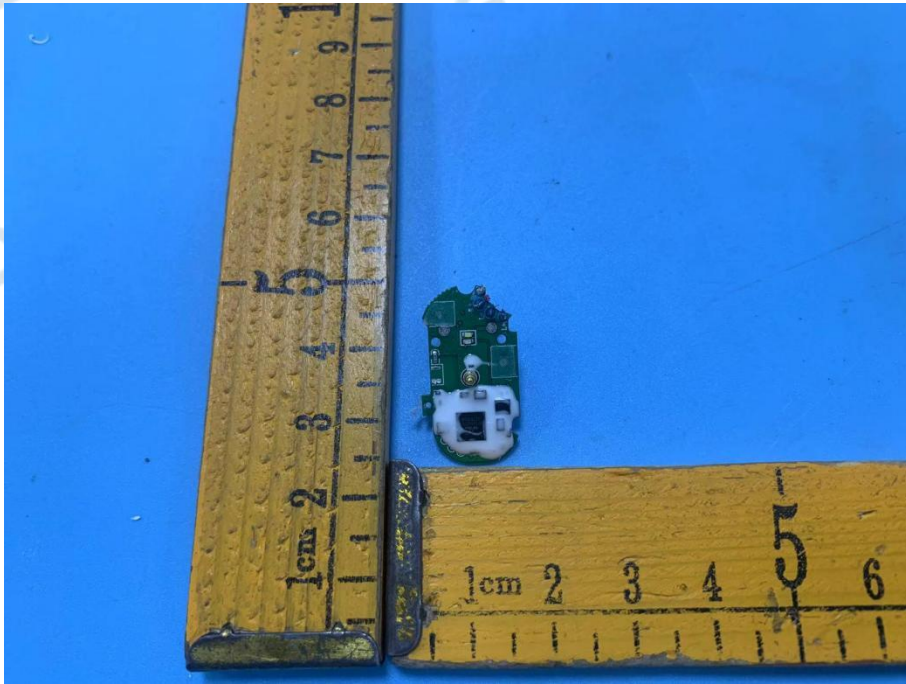




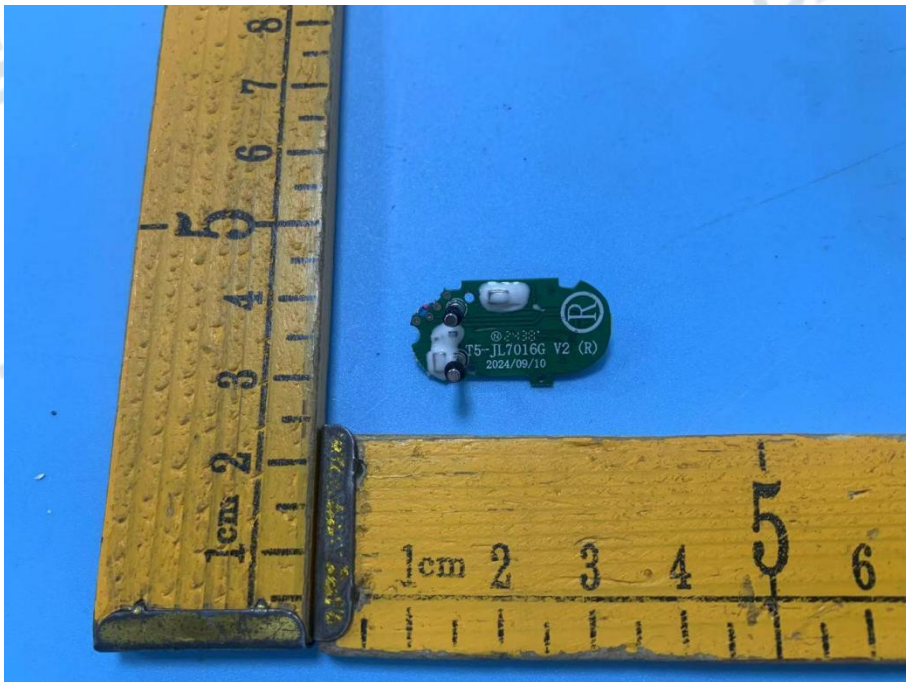


Internal

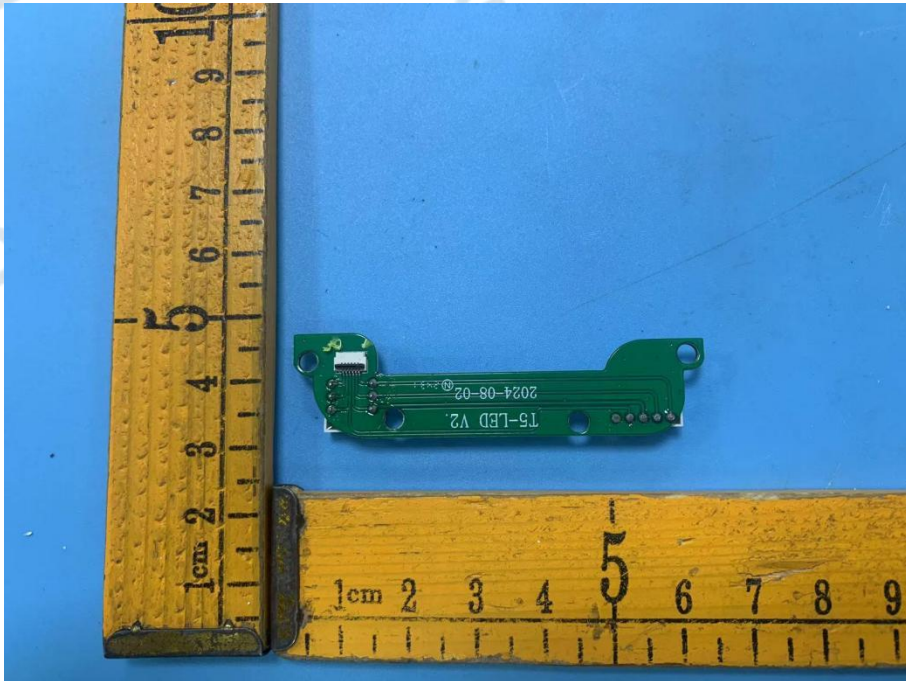


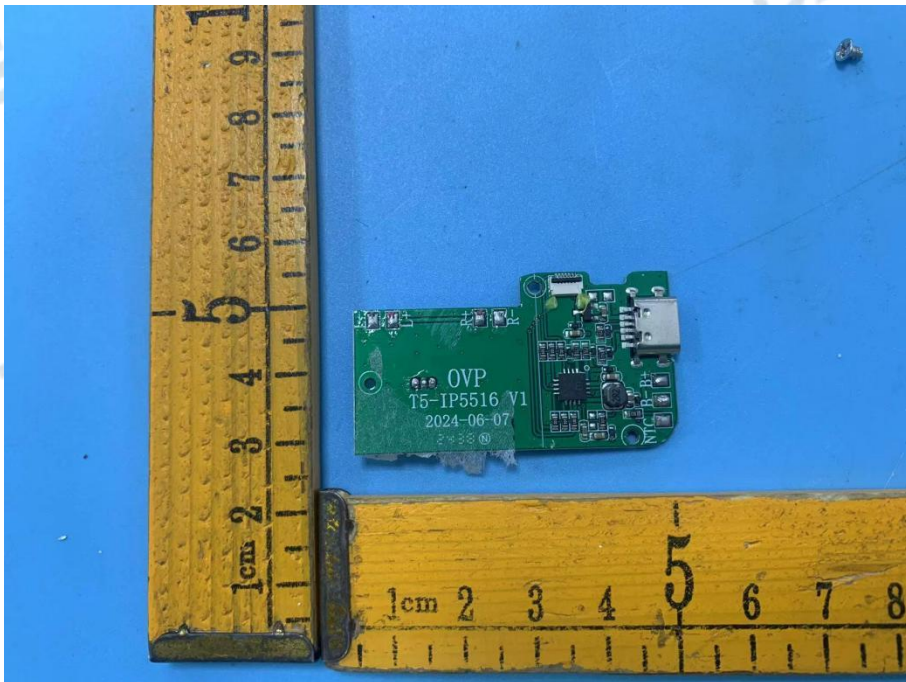
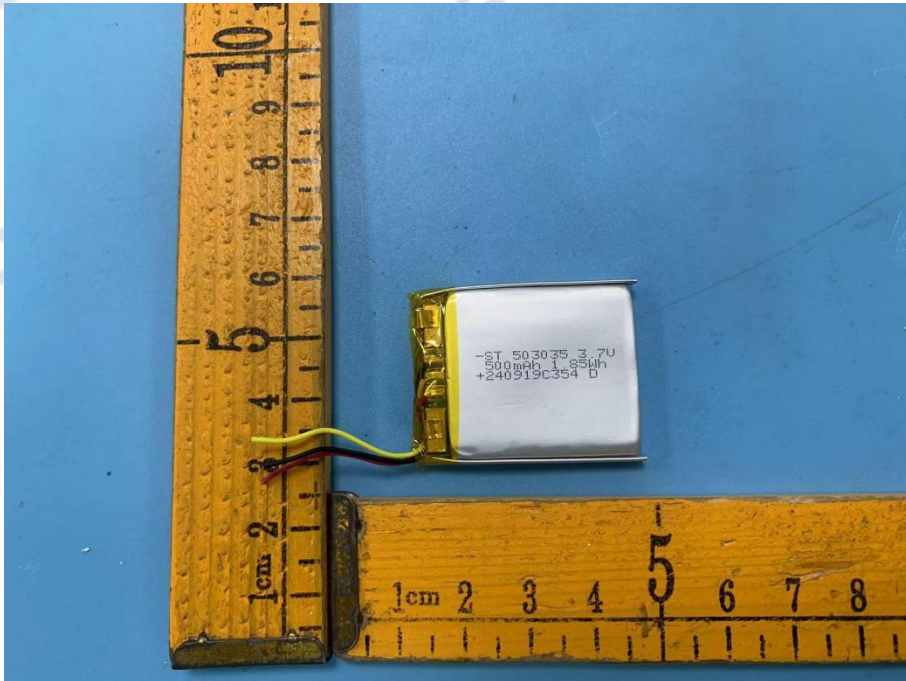


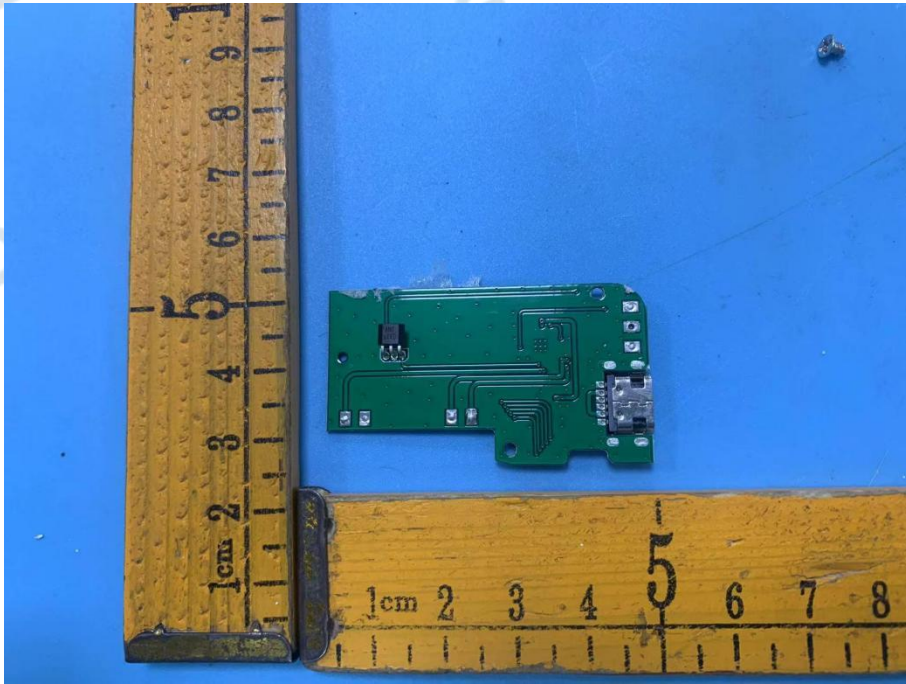












Appendix

HT241025015--VDS-3225--EDR--CE CE_BT (EN 300328 V2.2.2_2019-07) Test Data

1. Occupied Channel Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)	Lower edge (MHz)	Upper edge (MHz)	Limit (MHz)	Result
NVNT	ANT1	1-DH5	2402.00	0.845	2401.576	2402.421	2400~2483.5	Pass
NVNT	ANT1	1-DH5	2441.00	0.846	2440.579	2441.425	2400~2483.5	Pass
NVNT	ANT1	1-DH5	2480.00	0.846	2479.579	2480.425	2400~2483.5	Pass
NVNT	ANT1	2-DH5	2402.00	1.188	2401.408	2402.596	2400~2483.5	Pass
NVNT	ANT1	2-DH5	2441.00	1.187	2440.408	2441.595	2400~2483.5	Pass
NVNT	ANT1	2-DH5	2480.00	1.187	2479.408	2480.595	2400~2483.5	Pass

Occupied_Channel_Bandwidth_NVNT_ANT1_1-DH5_2402



Occupied_Channel_Bandwidth_NVNT_ANT1_1-DH5_2441



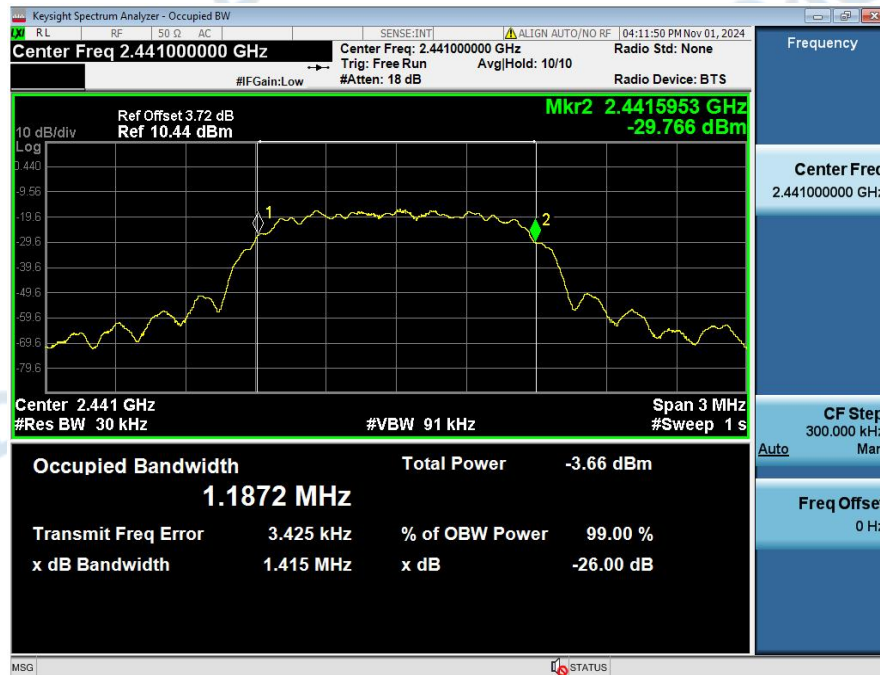
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Occupied_Channel_Bandwidth_NVNT_ANT1_2-DH5_2402



Occupied_Channel_Bandwidth_NVNT_ANT1_2-DH5_2441



Occupied_Channel_Bandwidth_NVNT_ANT1_2-DH5_2480

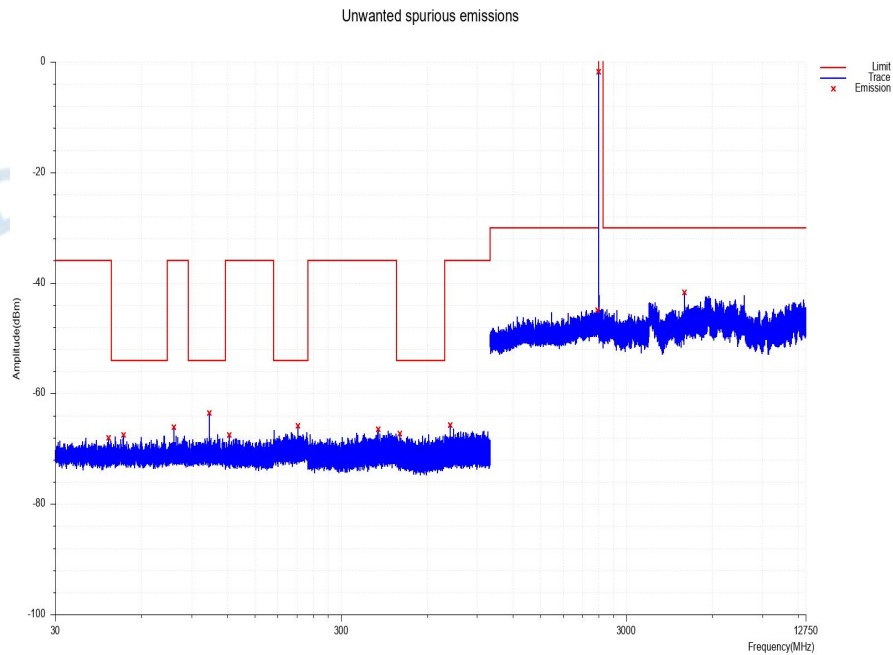


2. Transmitter spurious emissions

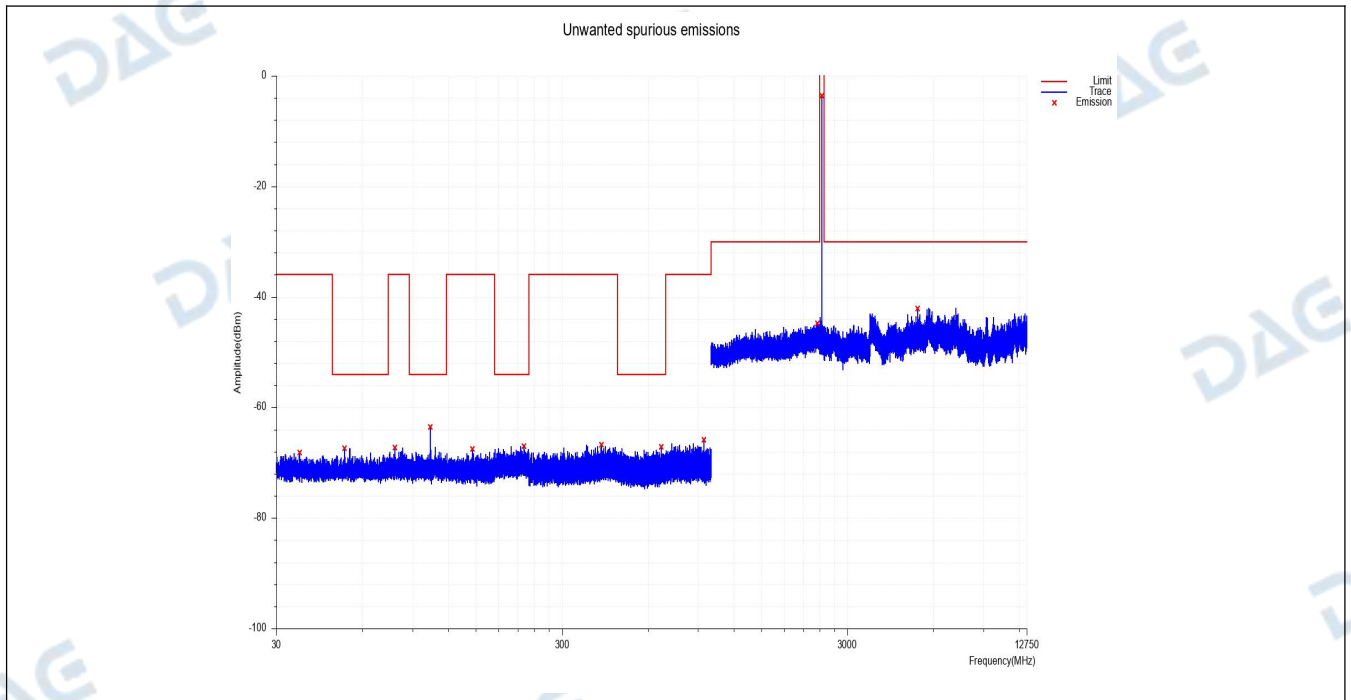
Condition	Antenna	Modulation	Frequency (MHz)	Range	Spur Freq(MHz)	Spur Freq Peak(dBm)	Spur Level RMS(dBm)	Limit(dBm)	Result
NVNT	ANT1	1-DH5	2402.00	30.00~47.00	46.13	-68.05	N/A	-36	Pass
NVNT	ANT1	1-DH5	2402.00	47.00~74.00	52.00	-67.58	N/A	-54	Pass
NVNT	ANT1	1-DH5	2402.00	74.00~87.50	77.99	-66.14	N/A	-36	Pass
NVNT	ANT1	1-DH5	2402.00	87.50~118.00	103.98	-63.59	N/A	-54	Pass
NVNT	ANT1	1-DH5	2402.00	118.00~174.00	121.70	-67.57	N/A	-36	Pass
NVNT	ANT1	1-DH5	2402.00	174.00~230.00	212.06	-65.83	N/A	-54	Pass
NVNT	ANT1	1-DH5	2402.00	230.00~470.00	404.62	-66.53	N/A	-36	Pass
NVNT	ANT1	1-DH5	2402.00	470.00~694.00	481.83	-67.22	N/A	-54	Pass
NVNT	ANT1	1-DH5	2402.00	694.00~1000.00	724.57	-65.74	N/A	-36	Pass
NVNT	ANT1	1-DH5	2402.00	1000.00~2398.31	2373.61	-44.98	N/A	-30	Pass
NVNT	ANT1	1-DH5	2402.00	2398.31~2485.19	2401.88	-1.76	/	/	/
NVNT	ANT1	1-DH5	2402.00	2485.19~12750.00	4804.35	-41.73	N/A	-30	Pass
NVNT	ANT1	1-DH5	2441.00	30.00~47.00	36.17	-68.22	N/A	-36	Pass
NVNT	ANT1	1-DH5	2441.00	47.00~74.00	51.99	-67.36	N/A	-54	Pass
NVNT	ANT1	1-DH5	2441.00	74.00~87.50	78.00	-67.27	N/A	-36	Pass
NVNT	ANT1	1-DH5	2441.00	87.50~118.00	104.00	-63.49	N/A	-54	Pass
NVNT	ANT1	1-DH5	2441.00	118.00~174.00	145.97	-67.58	N/A	-36	Pass
NVNT	ANT1	1-DH5	2441.00	174.00~230.00	221.01	-66.97	N/A	-54	Pass
NVNT	ANT1	1-DH5	2441.00	230.00~470.00	412.78	-66.70	N/A	-36	Pass
NVNT	ANT1	1-DH5	2441.00	470.00~694.00	668.75	-67.18	N/A	-54	Pass
NVNT	ANT1	1-DH5	2441.00	694.00~1000.00	942.77	-65.87	N/A	-36	Pass
NVNT	ANT1	1-DH5	2441.00	1000.00~2398.30	2356.22	-44.86	N/A	-30	Pass
NVNT	ANT1	1-DH5	2441.00	2398.30~2485.19	2440.96	-3.53	/	/	/
NVNT	ANT1	1-DH5	2441.00	2485.19~12750.00	5286.80	-42.12	N/A	-30	Pass
NVNT	ANT1	1-DH5	2480.00	30.00~47.00	35.12	-67.78	N/A	-36	Pass
NVNT	ANT1	1-DH5	2480.00	47.00~74.00	52.01	-67.62	N/A	-54	Pass
NVNT	ANT1	1-DH5	2480.00	74.00~87.50	78.00	-65.64	N/A	-36	Pass
NVNT	ANT1	1-DH5	2480.00	87.50~118.00	93.79	-67.80	N/A	-54	Pass
NVNT	ANT1	1-DH5	2480.00	118.00~174.00	132.00	-67.80	N/A	-36	Pass
NVNT	ANT1	1-DH5	2480.00	174.00~230.00	229.29	-66.10	N/A	-54	Pass
NVNT	ANT1	1-DH5	2480.00	230.00~470.00	332.71	-66.50	N/A	-36	Pass
NVNT	ANT1	1-DH5	2480.00	470.00~694.00	685.69	-67.25	N/A	-54	Pass
NVNT	ANT1	1-DH5	2480.00	694.00~1000.00	903.05	-65.74	N/A	-36	Pass
NVNT	ANT1	1-DH5	2480.00	1000.00~2398.30	2322.66	-44.51	N/A	-30	Pass
NVNT	ANT1	1-DH5	2480.00	2398.30~2485.19	2480.13	-4.09	/	/	/
NVNT	ANT1	1-DH5	2480.00	2485.19~12750.00	3615.35	-41.90	N/A	-30	Pass
NVNT	ANT1	2-DH5	2402.00	30.00~47.00	30.90	-68.09	N/A	-36	Pass
NVNT	ANT1	2-DH5	2402.00	47.00~74.00	52.08	-68.26	N/A	-54	Pass
NVNT	ANT1	2-DH5	2402.00	74.00~87.50	77.98	-66.68	N/A	-36	Pass
NVNT	ANT1	2-DH5	2402.00	87.50~118.00	103.99	-66.87	N/A	-54	Pass
NVNT	ANT1	2-DH5	2402.00	118.00~174.00	136.86	-67.60	N/A	-36	Pass
NVNT	ANT1	2-DH5	2402.00	174.00~230.00	180.21	-68.16	N/A	-54	Pass
NVNT	ANT1	2-DH5	2402.00	230.00~470.00	433.98	-66.89	N/A	-36	Pass
NVNT	ANT1	2-DH5	2402.00	470.00~694.00	473.09	-67.66	N/A	-54	Pass
NVNT	ANT1	2-DH5	2402.00	694.00~1000.00	773.82	-66.67	N/A	-36	Pass
NVNT	ANT1	2-DH5	2402.00	1000.00~2397.62	2375.17	-44.64	N/A	-30	Pass
NVNT	ANT1	2-DH5	2402.00	2397.62~2485.87	2402.15	-0.20	/	/	/

NVNT	ANT1	2-DH5	2402.00	2485.87~12750.00	4804.20	-41.86	N/A	-30	Pass
NVNT	ANT1	2-DH5	2441.00	30.00~47.00	37.06	-67.56	N/A	-36	Pass
NVNT	ANT1	2-DH5	2441.00	47.00~74.00	52.02	-68.28	N/A	-54	Pass
NVNT	ANT1	2-DH5	2441.00	74.00~87.50	77.98	-67.25	N/A	-36	Pass
NVNT	ANT1	2-DH5	2441.00	87.50~118.00	104.01	-67.29	N/A	-54	Pass
NVNT	ANT1	2-DH5	2441.00	118.00~174.00	169.22	-68.30	N/A	-36	Pass
NVNT	ANT1	2-DH5	2441.00	174.00~230.00	225.16	-68.13	N/A	-54	Pass
NVNT	ANT1	2-DH5	2441.00	230.00~470.00	461.97	-66.90	N/A	-36	Pass
NVNT	ANT1	2-DH5	2441.00	470.00~694.00	630.71	-67.10	N/A	-54	Pass
NVNT	ANT1	2-DH5	2441.00	694.00~1000.00	866.26	-66.85	N/A	-36	Pass
NVNT	ANT1	2-DH5	2441.00	1000.00~2397.62	2317.77	-44.24	N/A	-30	Pass
NVNT	ANT1	2-DH5	2441.00	2397.62~2485.87	2441.09	-1.97	/	/	/
NVNT	ANT1	2-DH5	2441.00	2485.87~12750.00	4882.89	-42.16	N/A	-30	Pass
NVNT	ANT1	2-DH5	2480.00	30.00~47.00	46.23	-67.53	N/A	-36	Pass
NVNT	ANT1	2-DH5	2480.00	47.00~74.00	72.17	-67.39	N/A	-54	Pass
NVNT	ANT1	2-DH5	2480.00	74.00~87.50	78.04	-67.15	N/A	-36	Pass
NVNT	ANT1	2-DH5	2480.00	87.50~118.00	104.01	-67.60	N/A	-54	Pass
NVNT	ANT1	2-DH5	2480.00	118.00~174.00	122.46	-67.66	N/A	-36	Pass
NVNT	ANT1	2-DH5	2480.00	174.00~230.00	210.10	-67.52	N/A	-54	Pass
NVNT	ANT1	2-DH5	2480.00	230.00~470.00	409.21	-66.58	N/A	-36	Pass
NVNT	ANT1	2-DH5	2480.00	470.00~694.00	485.50	-67.29	N/A	-54	Pass
NVNT	ANT1	2-DH5	2480.00	694.00~1000.00	981.73	-66.02	N/A	-36	Pass
NVNT	ANT1	2-DH5	2480.00	1000.00~2397.62	2302.45	-44.34	N/A	-30	Pass
NVNT	ANT1	2-DH5	2480.00	2397.62~2485.87	2480.14	-2.37	/	/	/
NVNT	ANT1	2-DH5	2480.00	2485.87~12750.00	3632.03	-42.49	N/A	-30	Pass

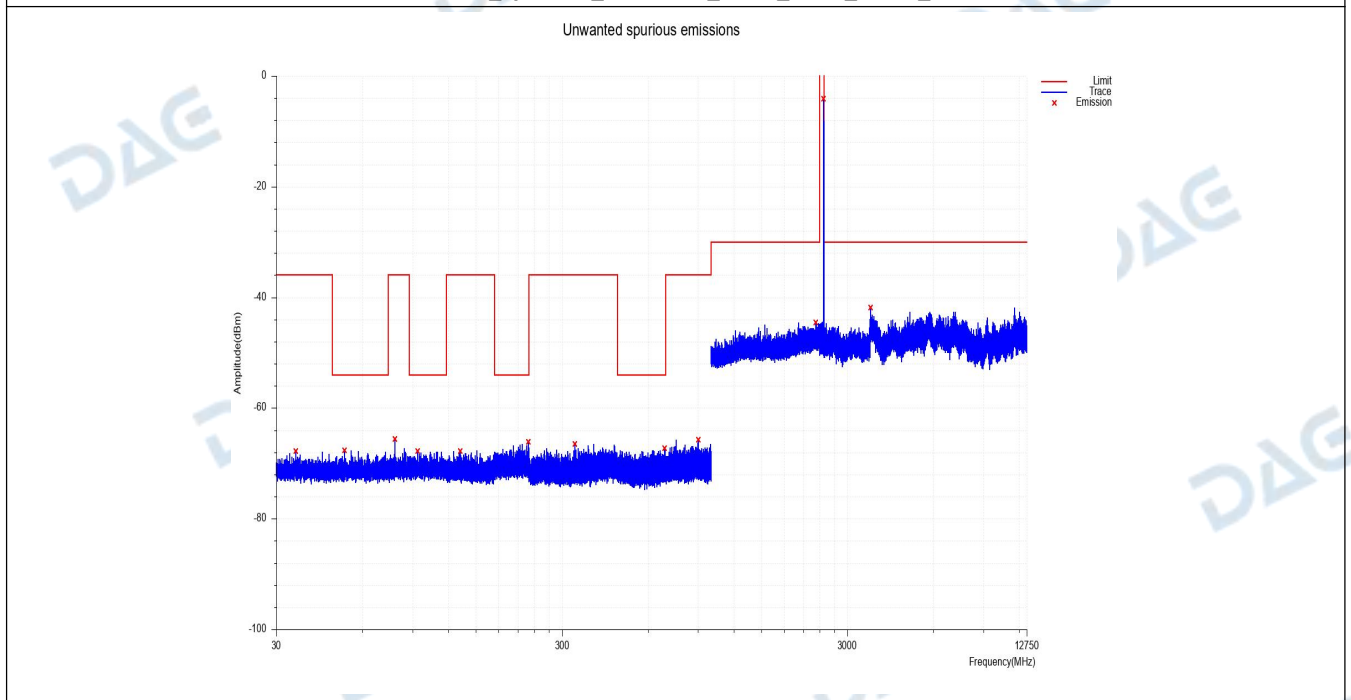
Transmitter_spurious_emissions_NVNT_ANT1_1-DH5_2402



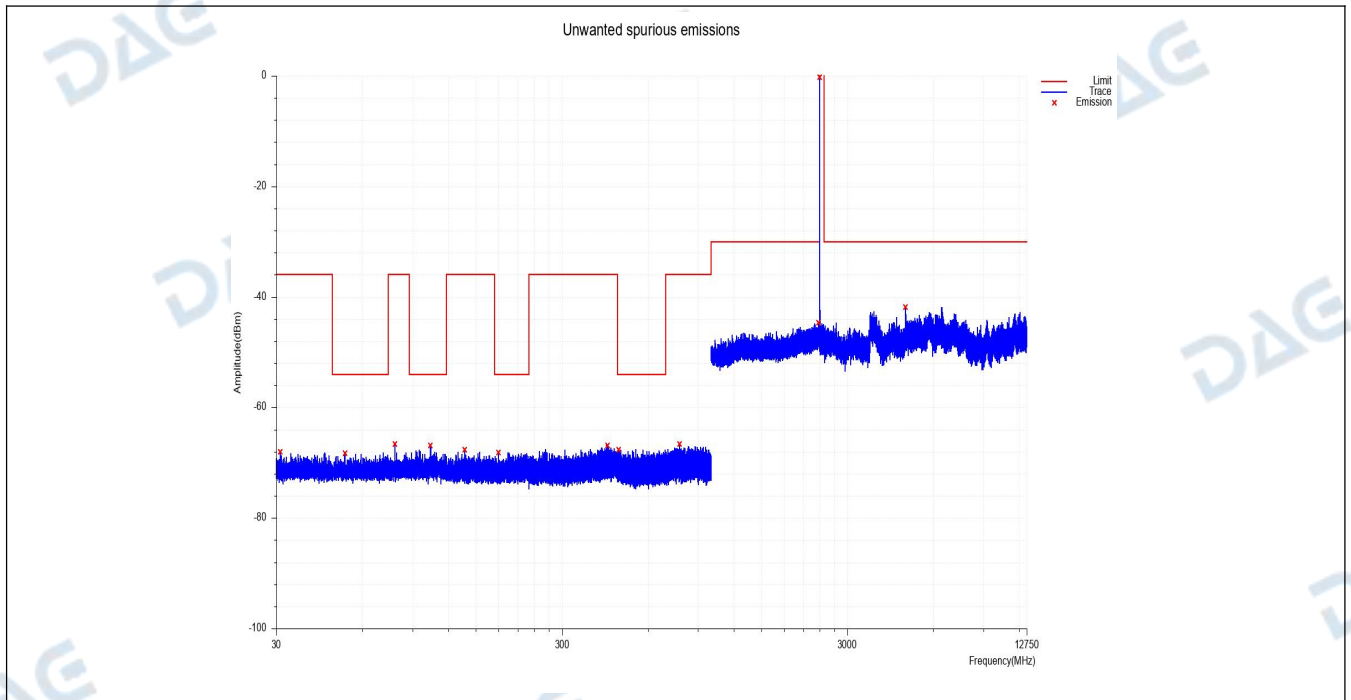
Transmitter_spurious_emissions_NVNT_ANT1_1-DH5_2441



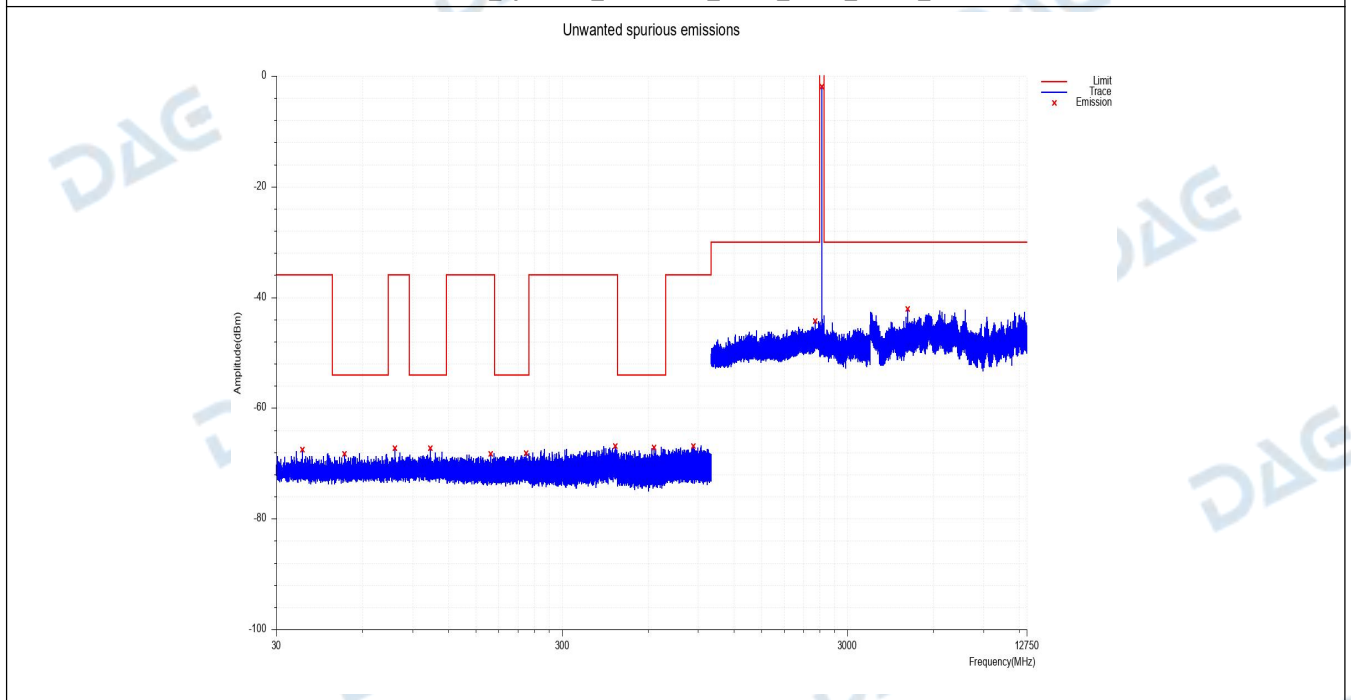
Transmitter_spurious_emissions_NVNT_ANT1_1-DH5_2480



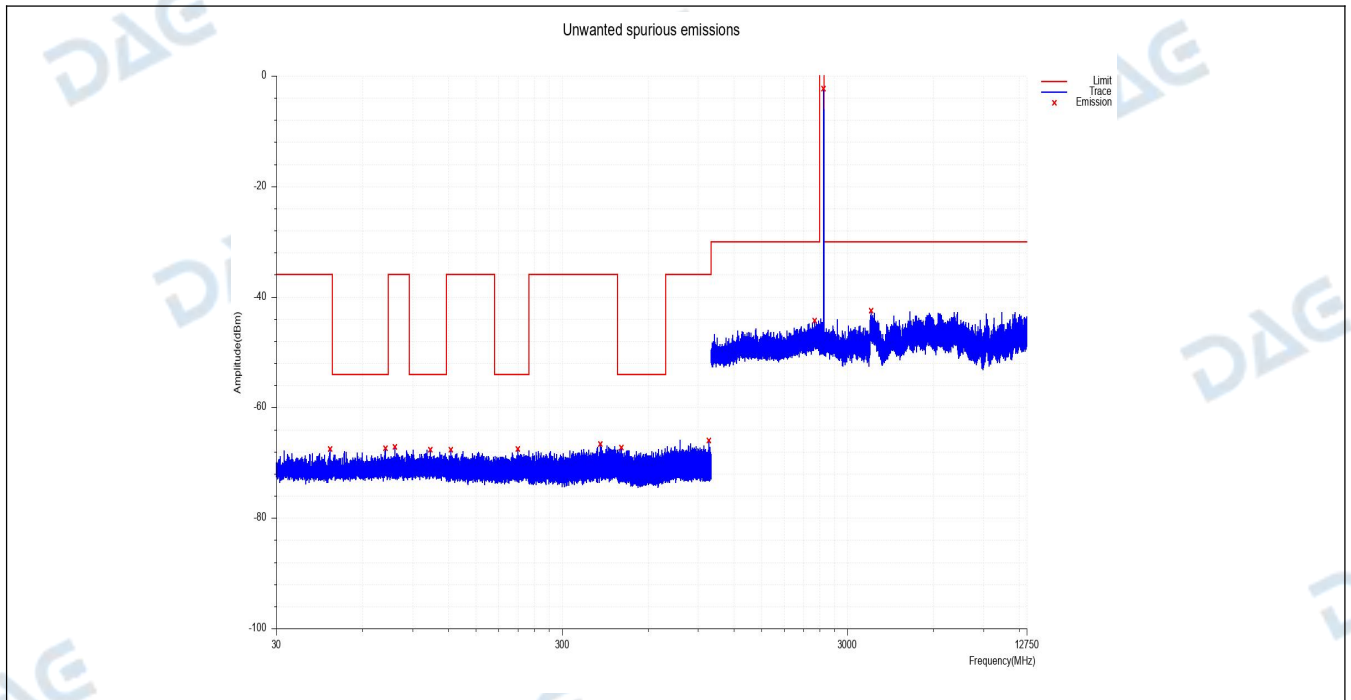
Transmitter_spurious_emissions_NVNT_ANT1_2-DH5_2402



Transmitter_spurious_emissions_NVNT_ANT1_2-DH5_2441

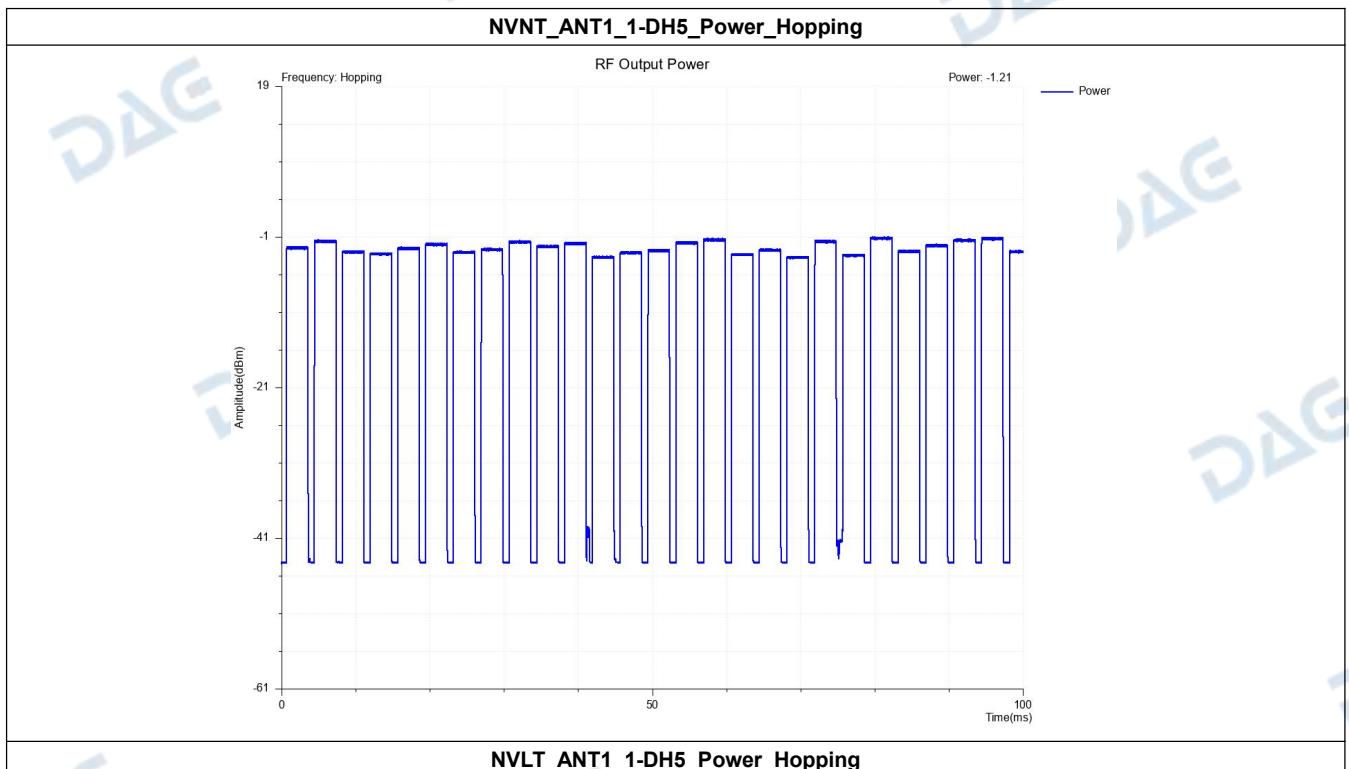


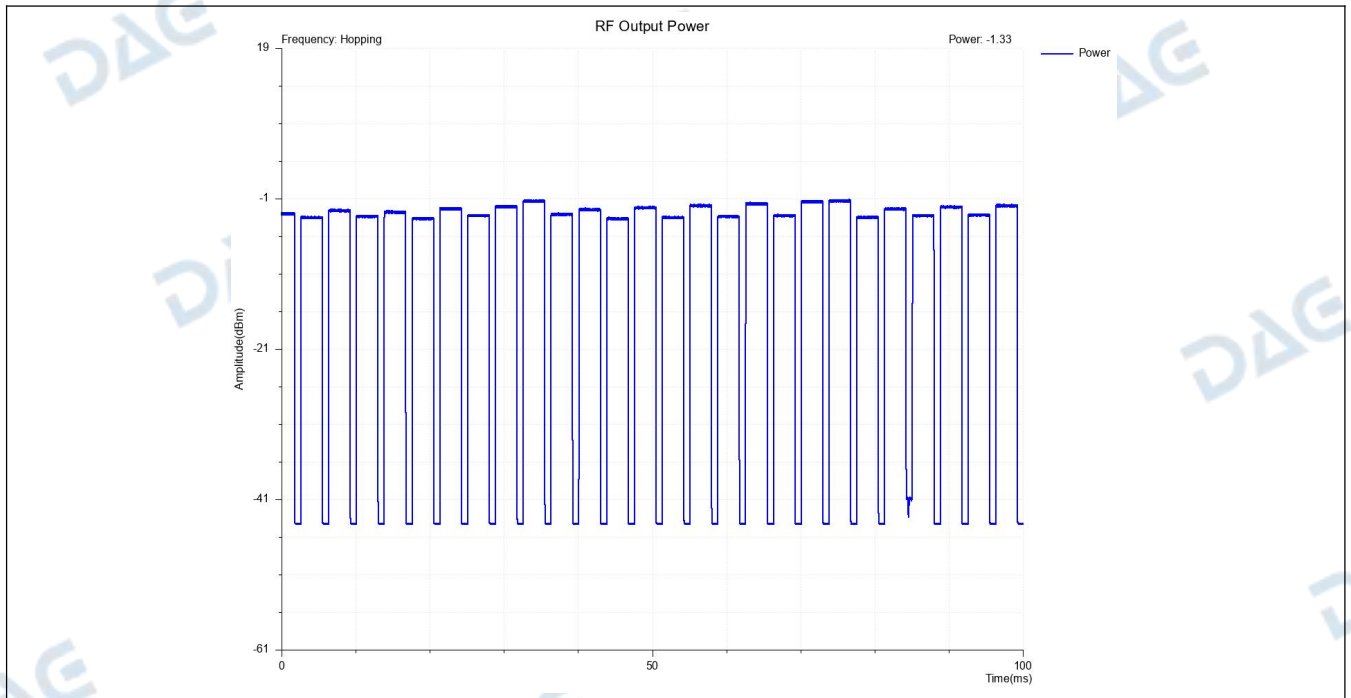
Transmitter_spurious_emissions_NVNT_ANT1_2-DH5_2480



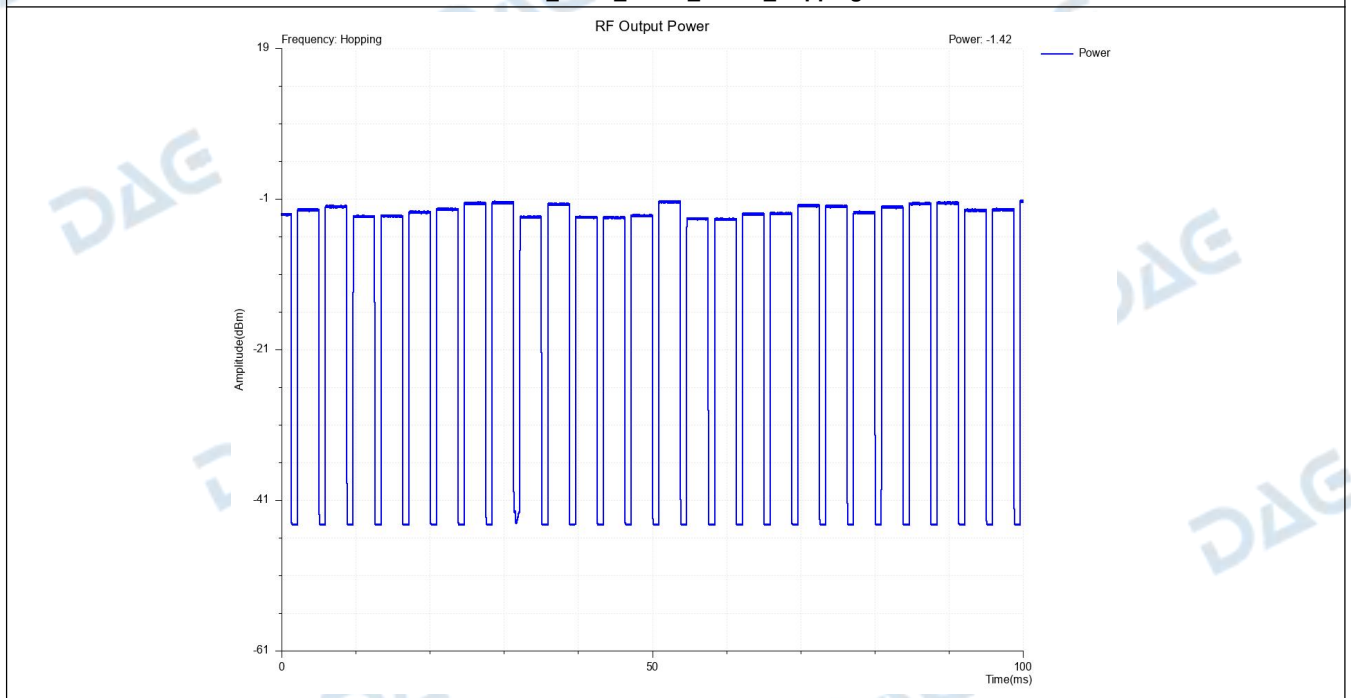
3. RF output power (Hopping)

Condition	Antenna	Modulation	Frequency (MHz)	ANT_Gain(dBi)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Result
NVNT	ANT1	1-DH5	Hopping	0.00	-1.21	27	-1.21	20	Pass
NVLT	ANT1	1-DH5	Hopping	0.00	-1.33	27	-1.33	20	Pass
NVHT	ANT1	1-DH5	Hopping	0.00	-1.42	28	-1.42	20	Pass
NVNT	ANT1	1-DH5	Hopping	0.00	-1.17	27	-1.17	20	Pass
NVLT	ANT1	1-DH5	Hopping	0.00	-1.28	28	-1.28	20	Pass
NVHT	ANT1	1-DH5	Hopping	0.00	-1.22	28	-1.22	20	Pass
NVNT	ANT1	1-DH5	Hopping	0.00	-1.06	27	-1.06	20	Pass
NVLT	ANT1	1-DH5	Hopping	0.00	-1.22	27	-1.22	20	Pass
NVHT	ANT1	1-DH5	Hopping	0.00	-1.08	27	-1.08	20	Pass
NVNT	ANT1	2-DH5	Hopping	0.00	-1.81	27	-1.81	20	Pass
NVLT	ANT1	2-DH5	Hopping	0.00	-1.45	28	-1.45	20	Pass
NVHT	ANT1	2-DH5	Hopping	0.00	-1.49	28	-1.49	20	Pass
NVNT	ANT1	2-DH5	Hopping	0.00	-1.37	27	-1.37	20	Pass
NVLT	ANT1	2-DH5	Hopping	0.00	-1.30	28	-1.30	20	Pass
NVHT	ANT1	2-DH5	Hopping	0.00	-1.47	27	-1.47	20	Pass
NVNT	ANT1	2-DH5	Hopping	0.00	-1.49	28	-1.49	20	Pass
NVLT	ANT1	2-DH5	Hopping	0.00	-1.31	28	-1.31	20	Pass
NVHT	ANT1	2-DH5	Hopping	0.00	-1.31	28	-1.31	20	Pass

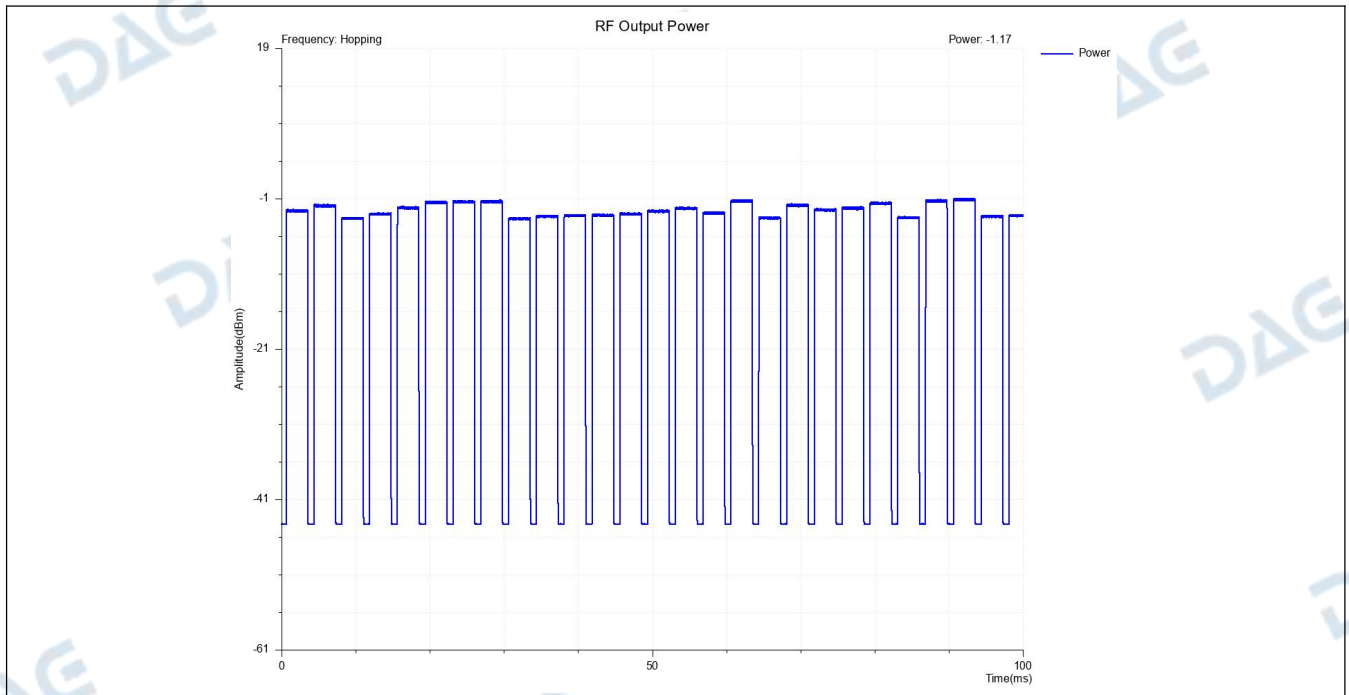




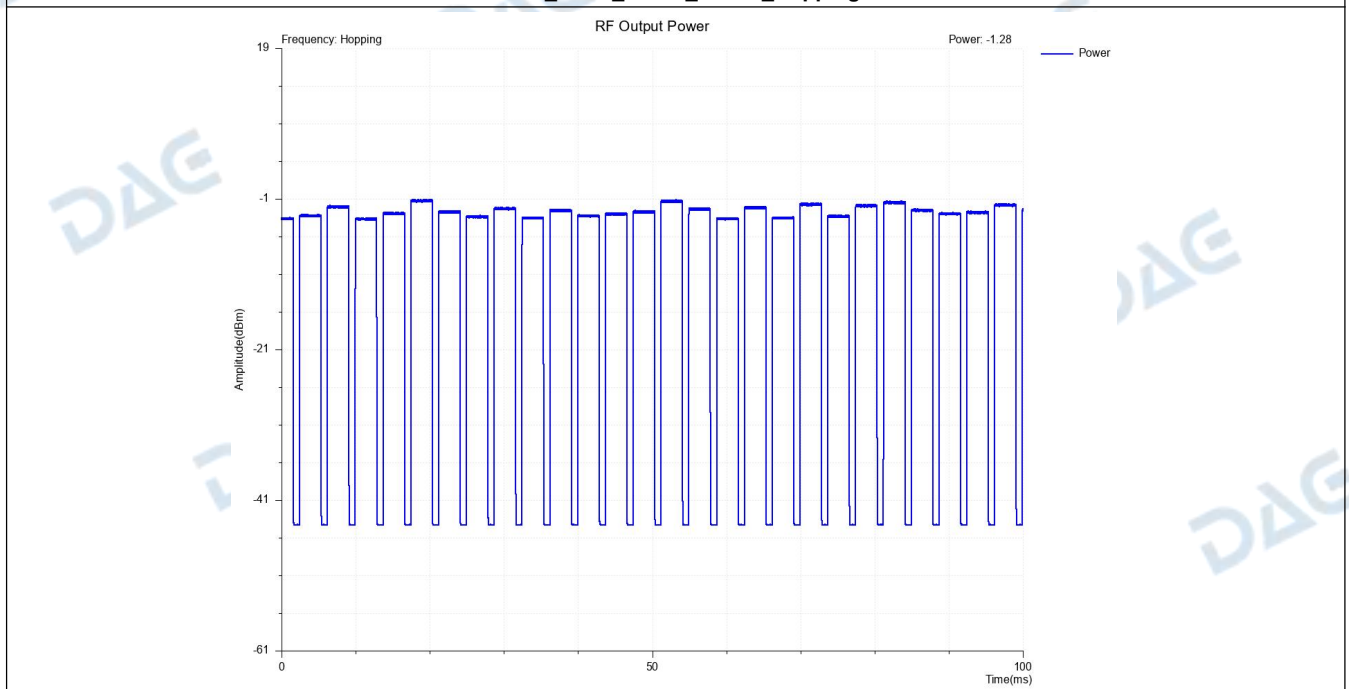
NVHT_ANT1_1-DH5_Power_Hopping



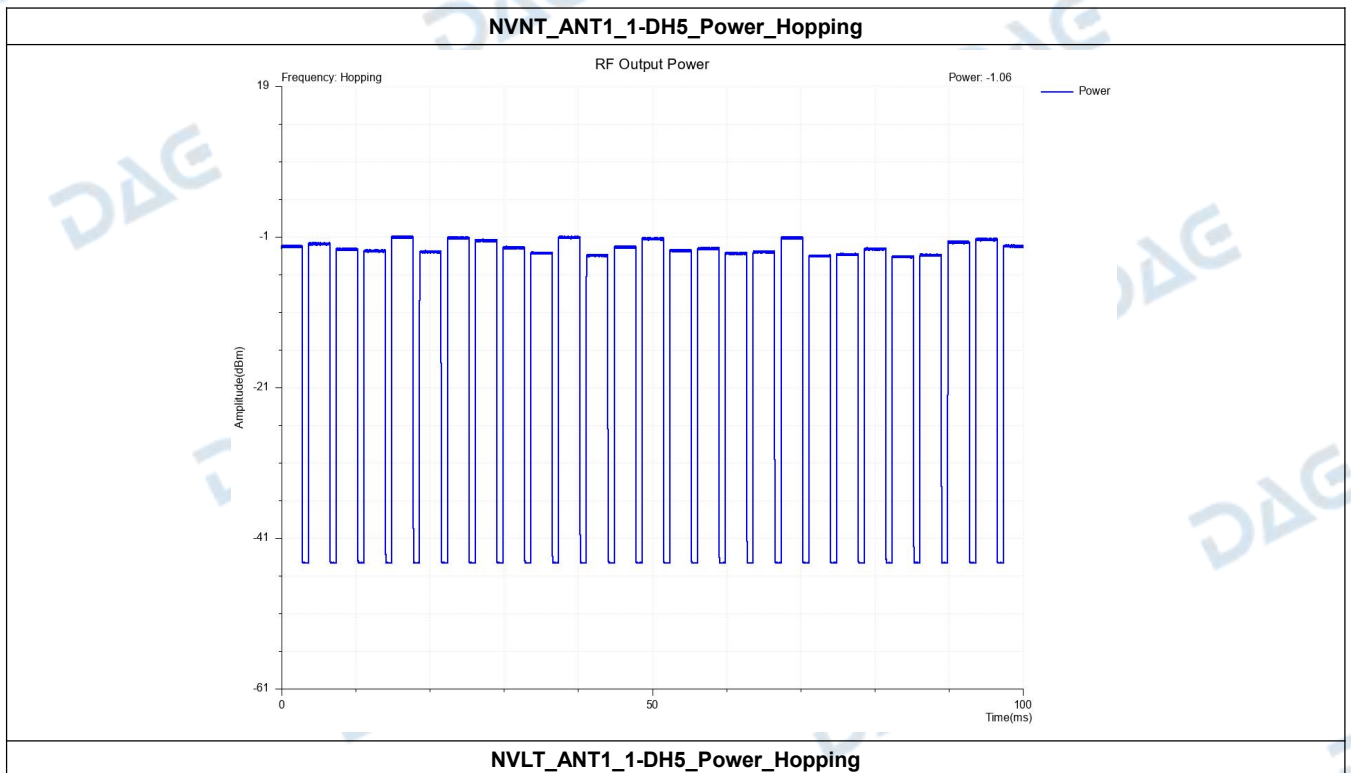
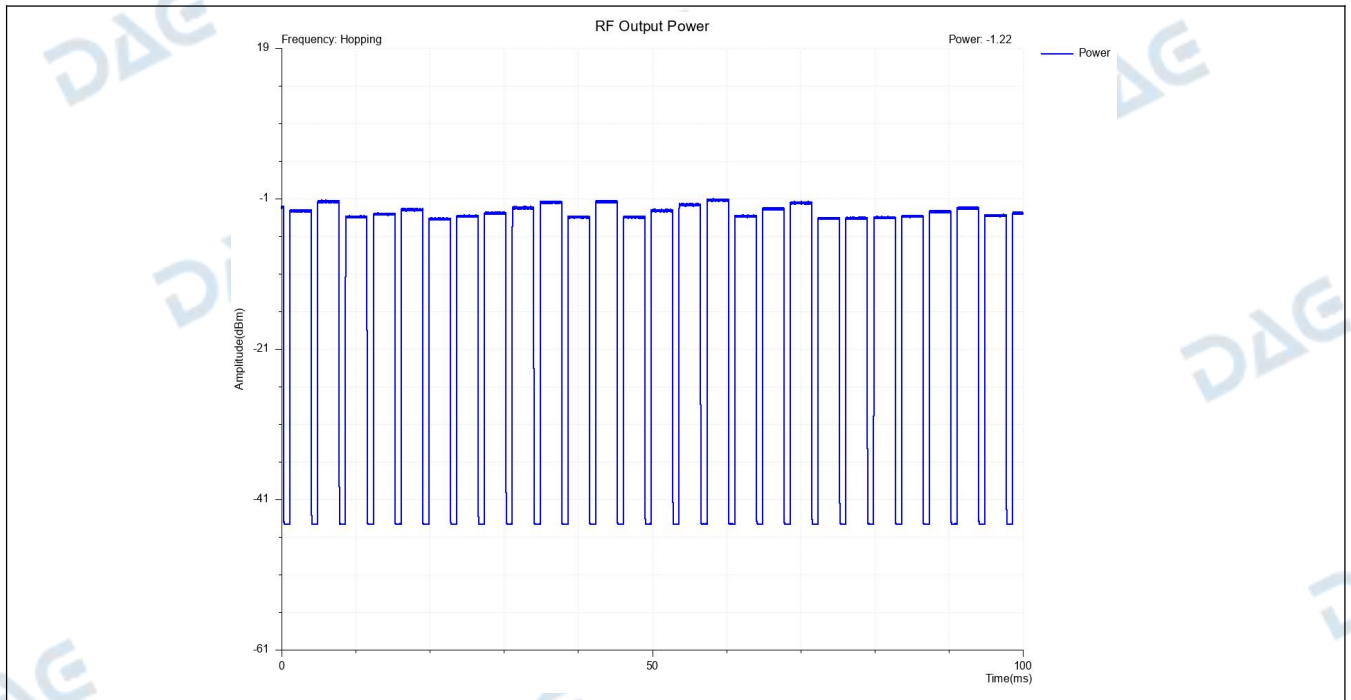
NVNT_ANT1_1-DH5_Power_Hopping

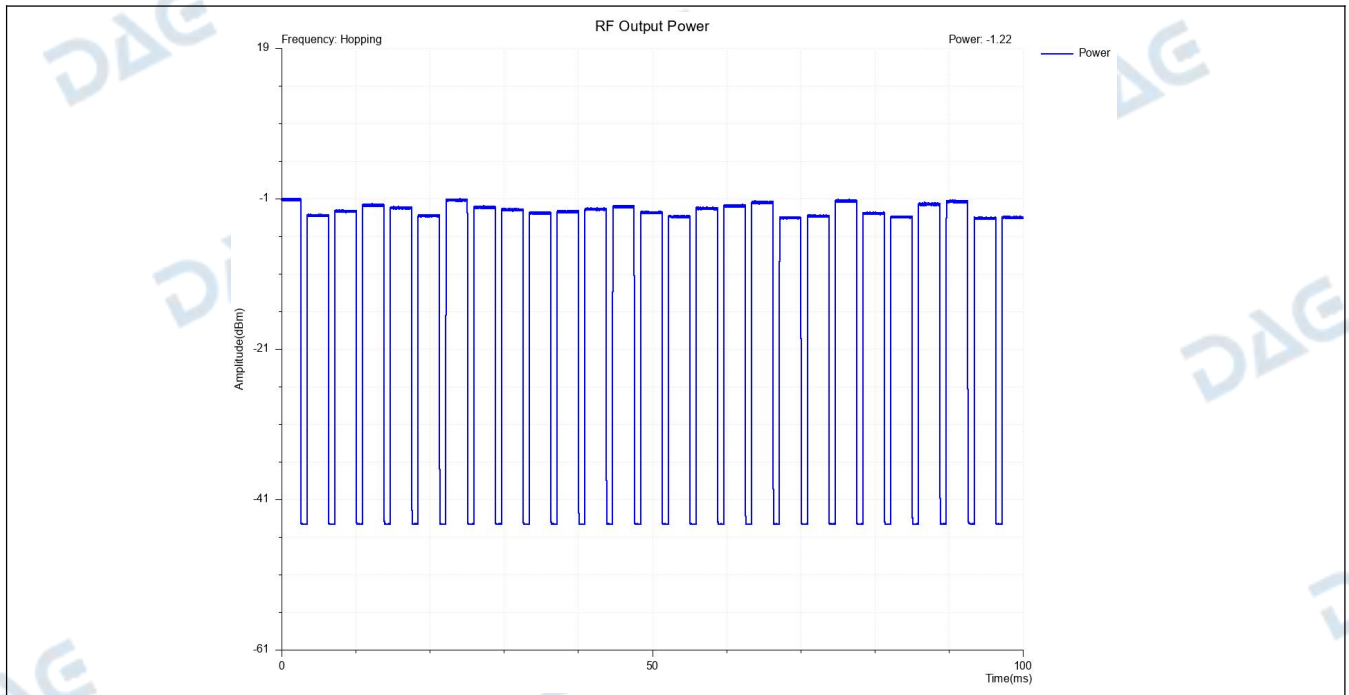


NVLT_ANT1_1-DH5_Power_Hopping

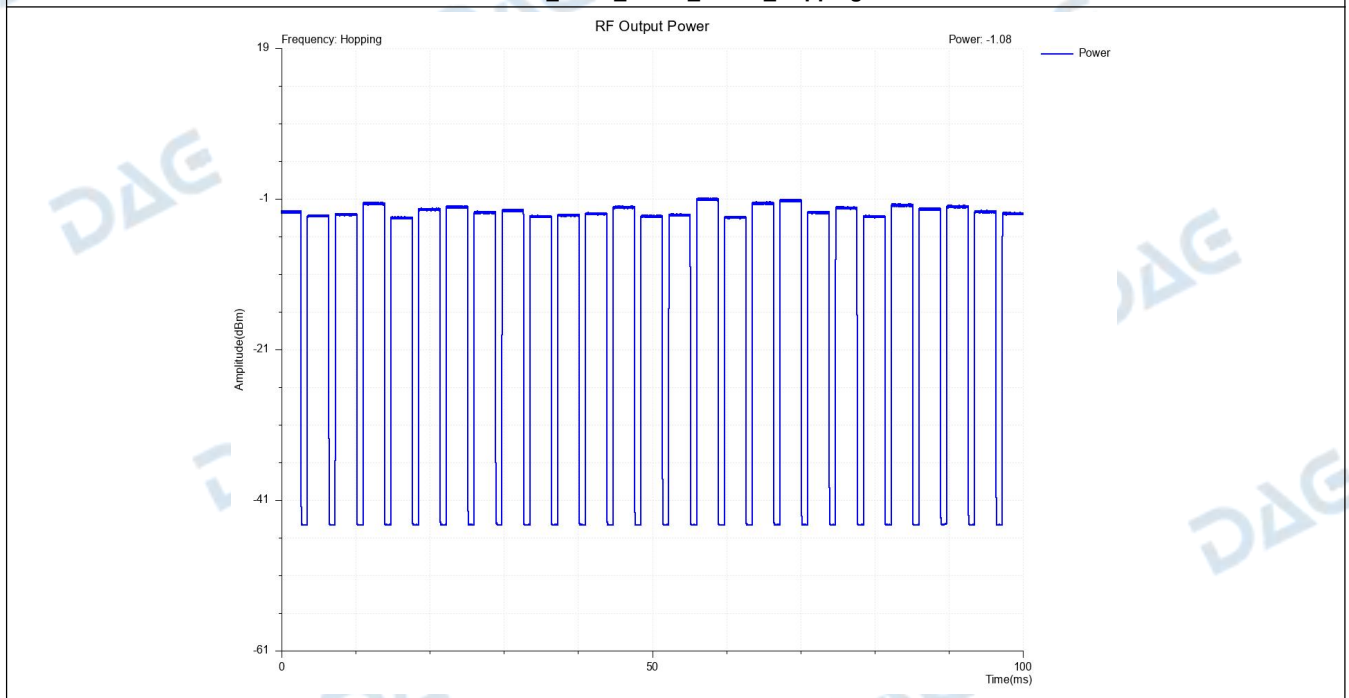


NVHT_ANT1_1-DH5_Power_Hopping

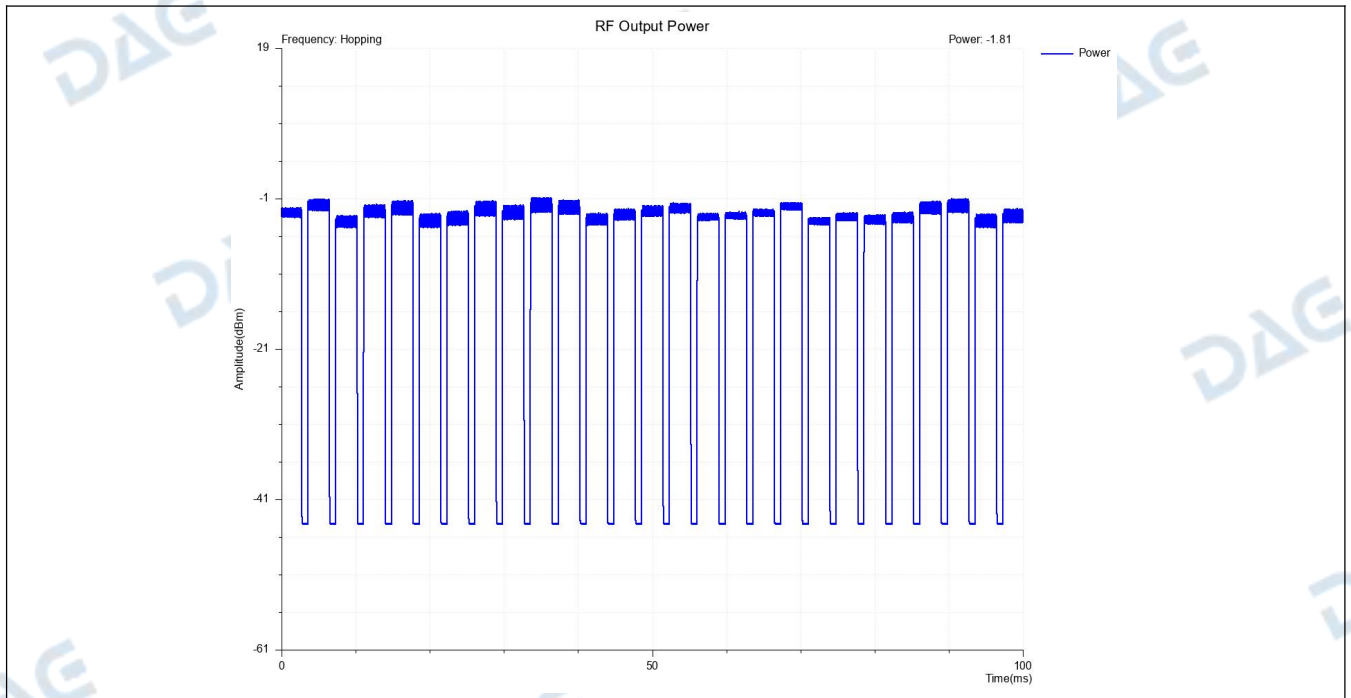




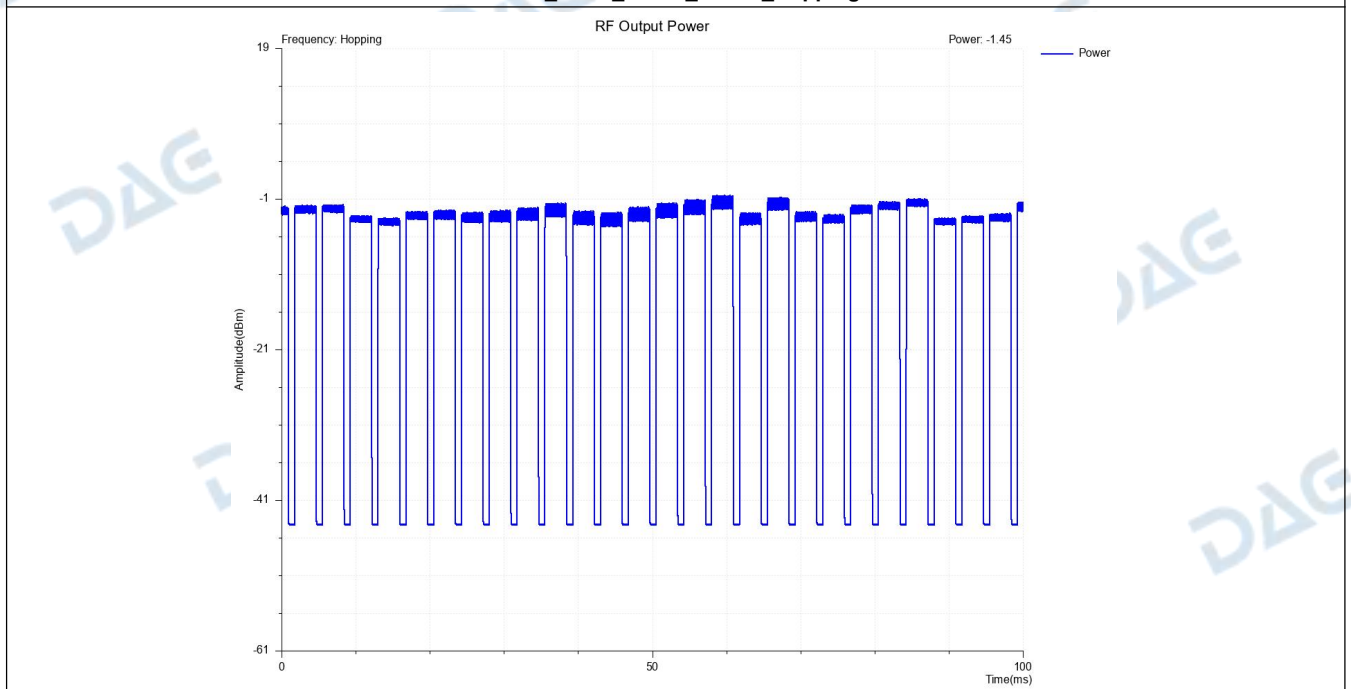
NVHT_ANT1_1-DH5_Power_Hopping



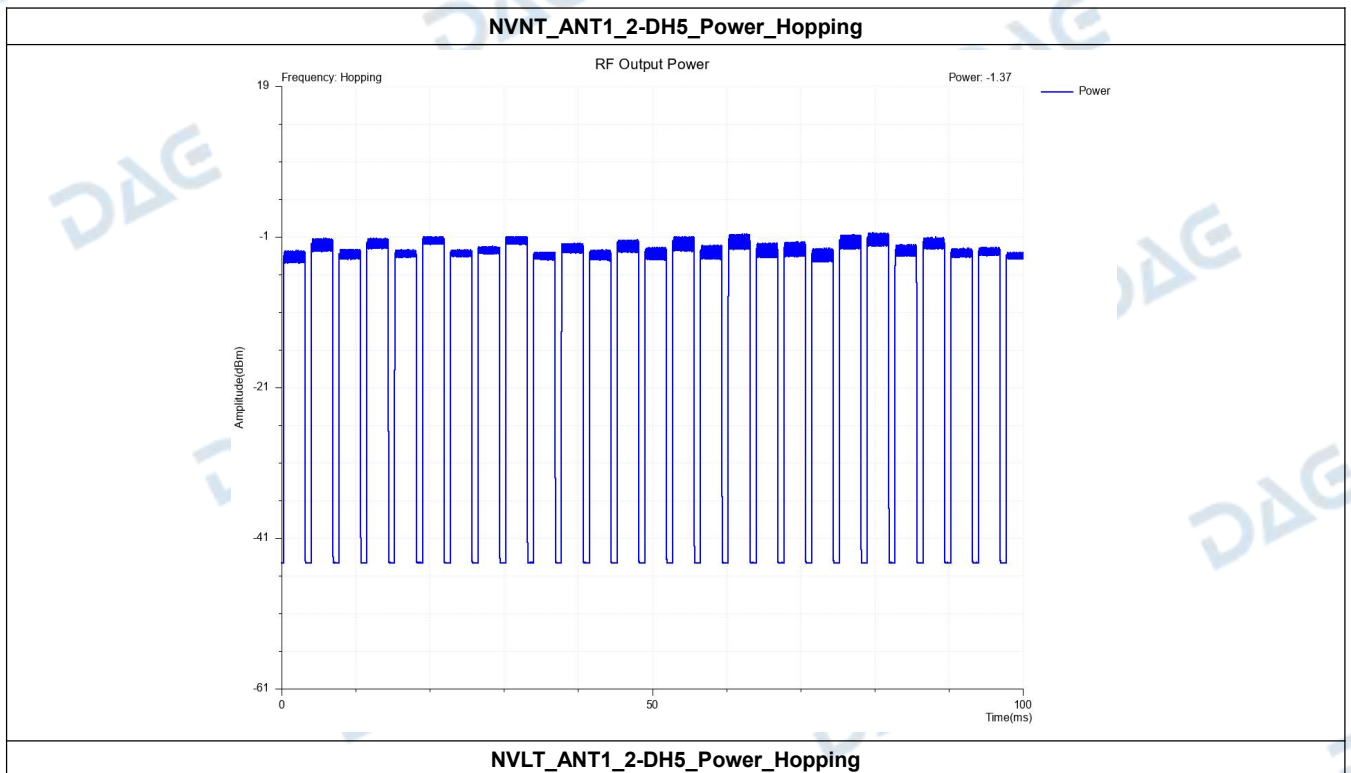
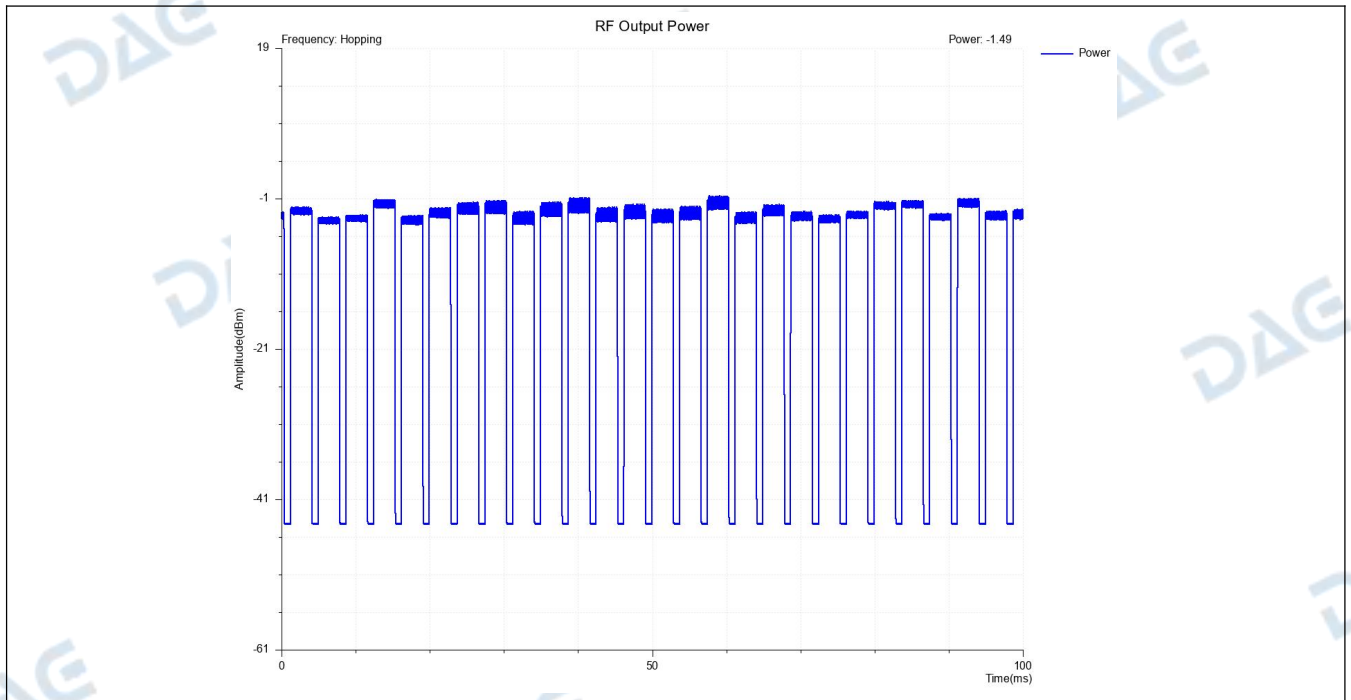
NVNT_ANT1_2-DH5_Power_Hopping

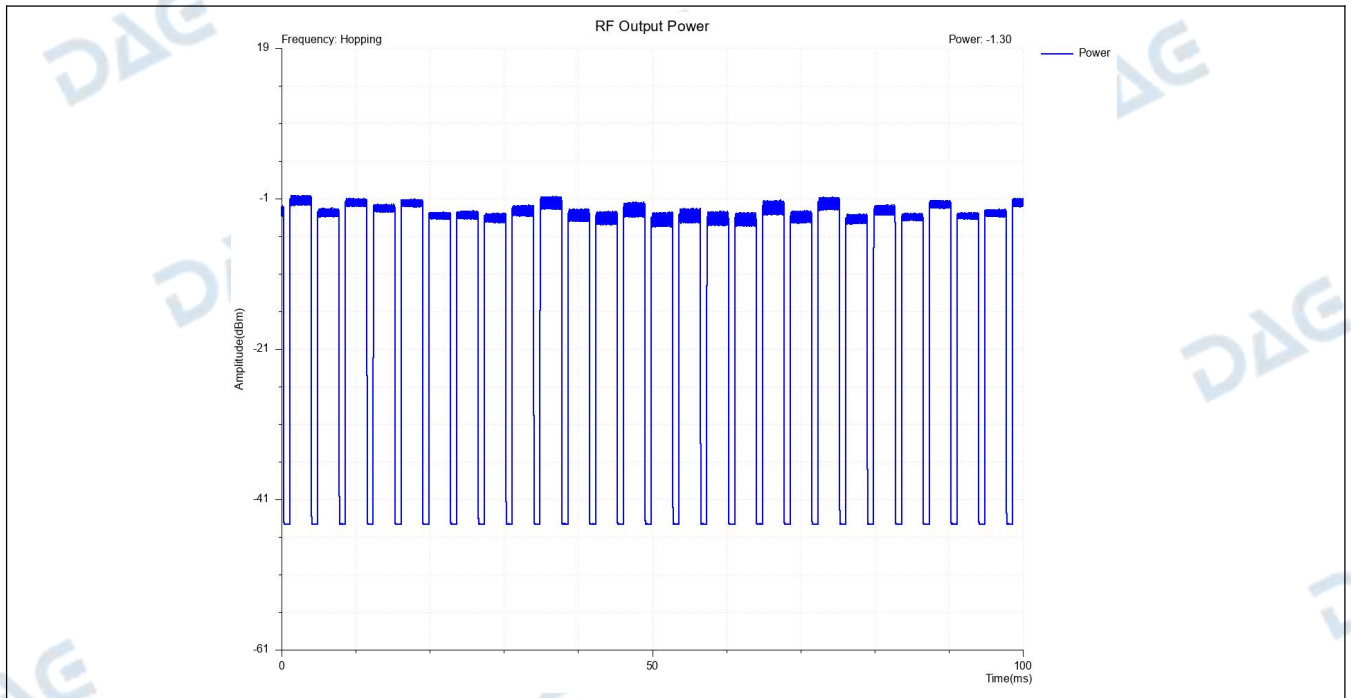


NVLT_ANT1_2-DH5_Power_Hopping

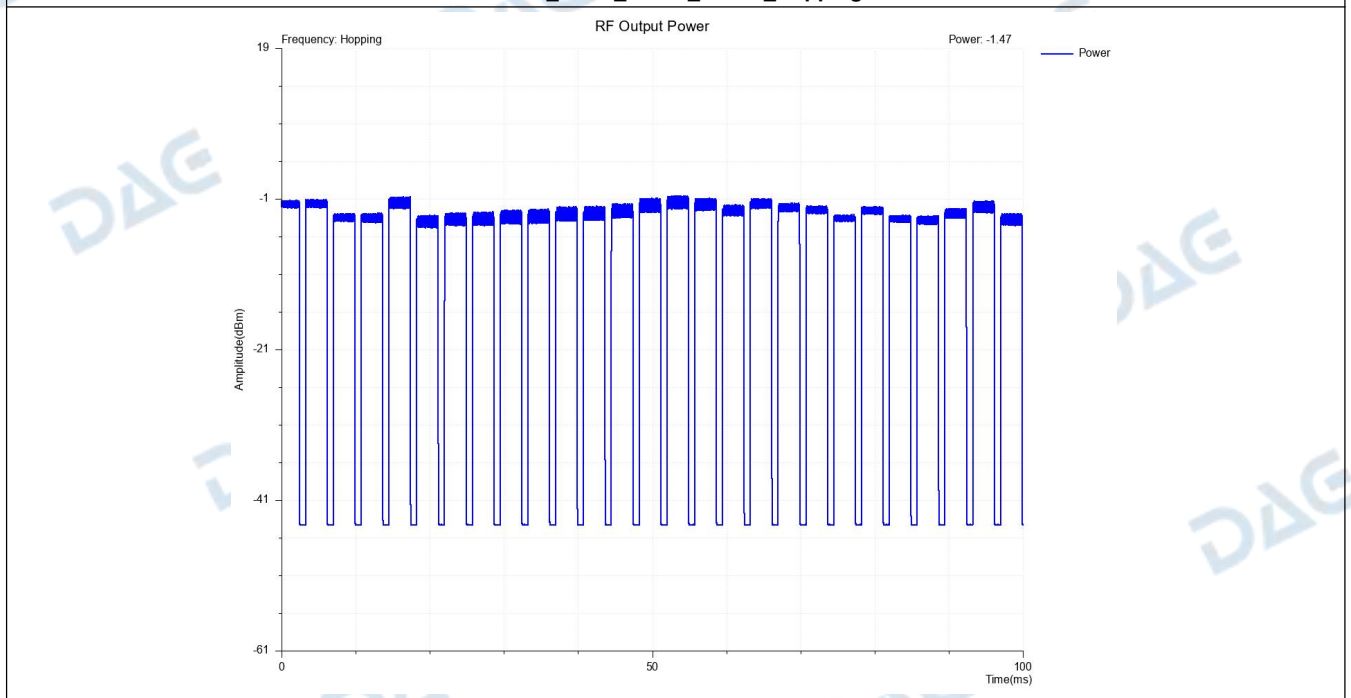


NVHT_ANT1_2-DH5_Power_Hopping

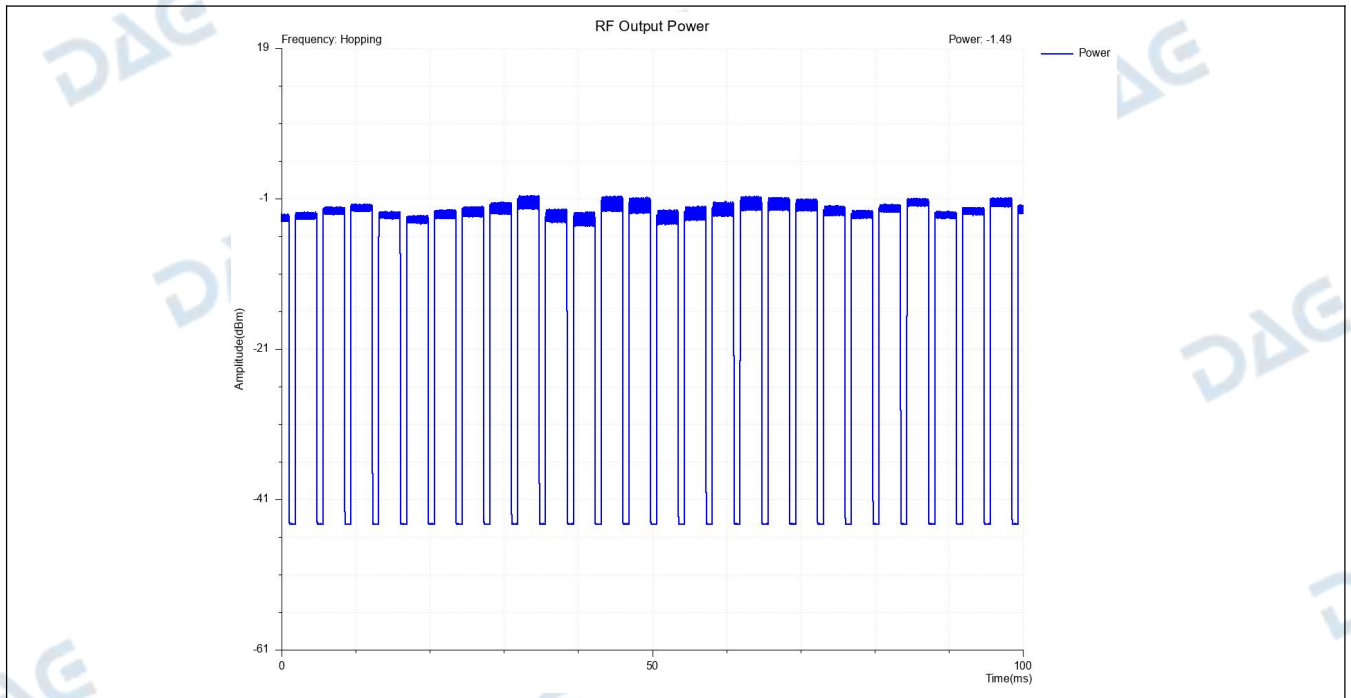




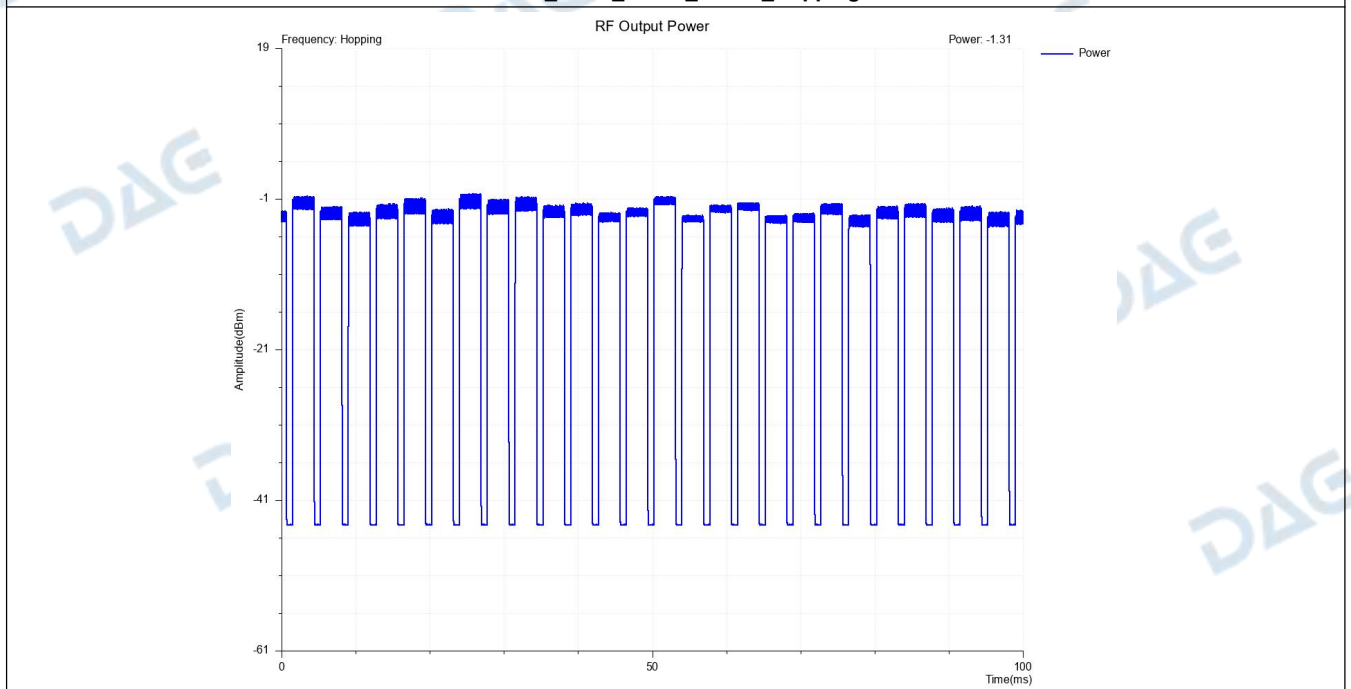
NVHT_ANT1_2-DH5_Power_Hopping



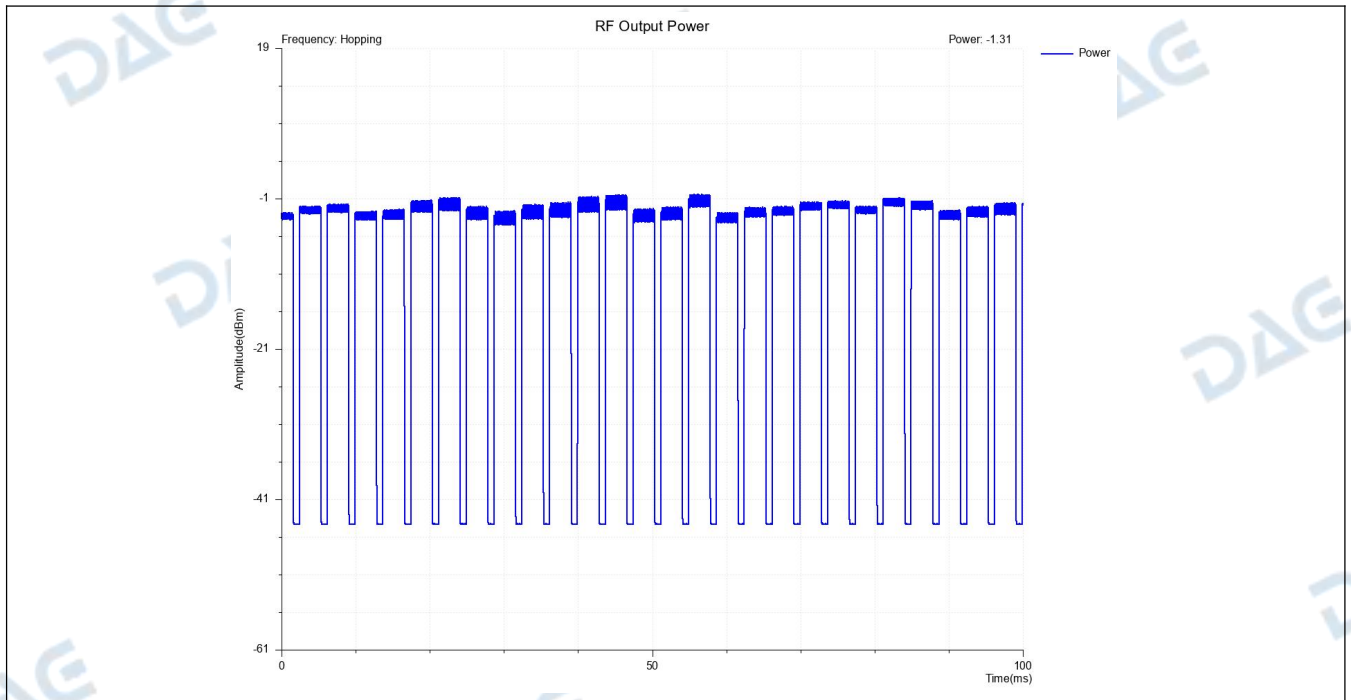
NVNT_ANT1_2-DH5_Power_Hopping



NVLT_ANT1_2-DH5_Power_Hopping

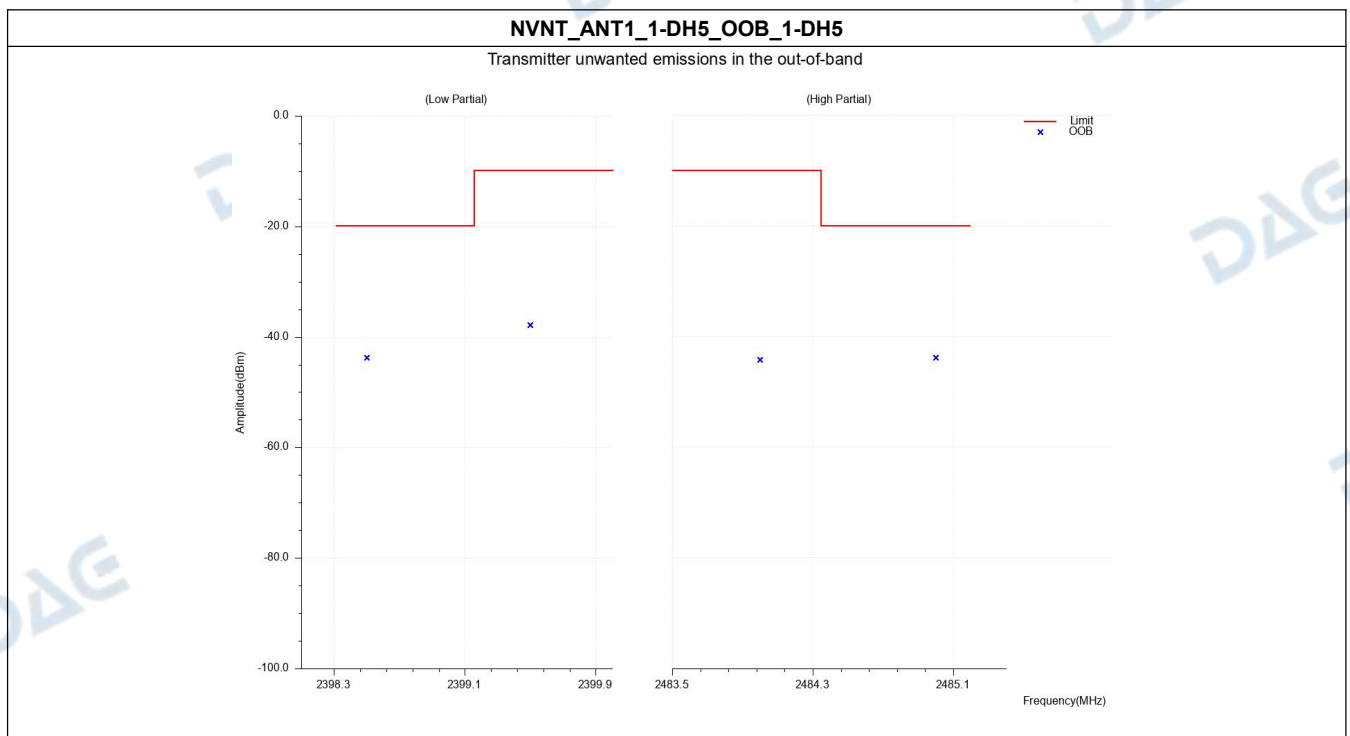


NVHT_ANT1_2-DH5_Power_Hopping



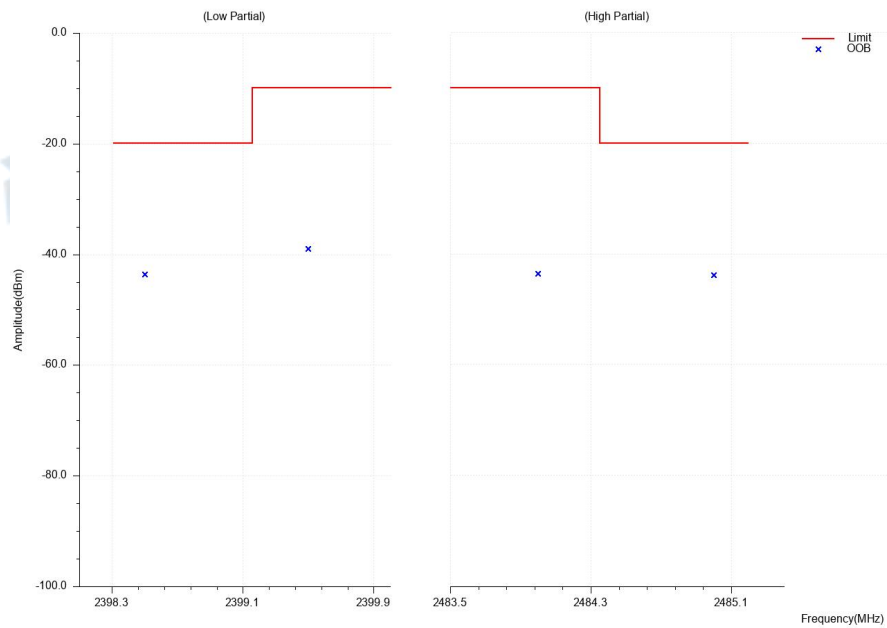
4. OOB (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	OOB Frequency(MHz)	Level(dBM/MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	Hopping	2399.50	-37.90	-10	Pass
NVNT	ANT1	1-DH5	Hopping	2398.50	-43.78	-20	Pass
NVNT	ANT1	1-DH5	Hopping	2484.00	-44.22	-10	Pass
NVNT	ANT1	1-DH5	Hopping	2485.00	-43.75	-20	Pass
NVNT	ANT1	1-DH5	Hopping	2399.50	-39.00	-10	Pass
NVNT	ANT1	1-DH5	Hopping	2398.50	-43.62	-20	Pass
NVNT	ANT1	1-DH5	Hopping	2484.00	-43.49	-10	Pass
NVNT	ANT1	1-DH5	Hopping	2485.00	-43.81	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2399.50	-41.55	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2399.31	-40.76	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2398.50	-44.14	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2398.12	-44.30	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2484.00	-44.42	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2484.19	-44.33	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2485.00	-44.42	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2485.38	-44.40	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2399.50	-41.41	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2399.31	-41.48	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2398.50	-44.15	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2398.13	-43.74	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2484.00	-43.80	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2484.19	-44.02	-10	Pass
NVNT	ANT1	2-DH5	Hopping	2485.00	-43.62	-20	Pass
NVNT	ANT1	2-DH5	Hopping	2485.37	-44.05	-20	Pass



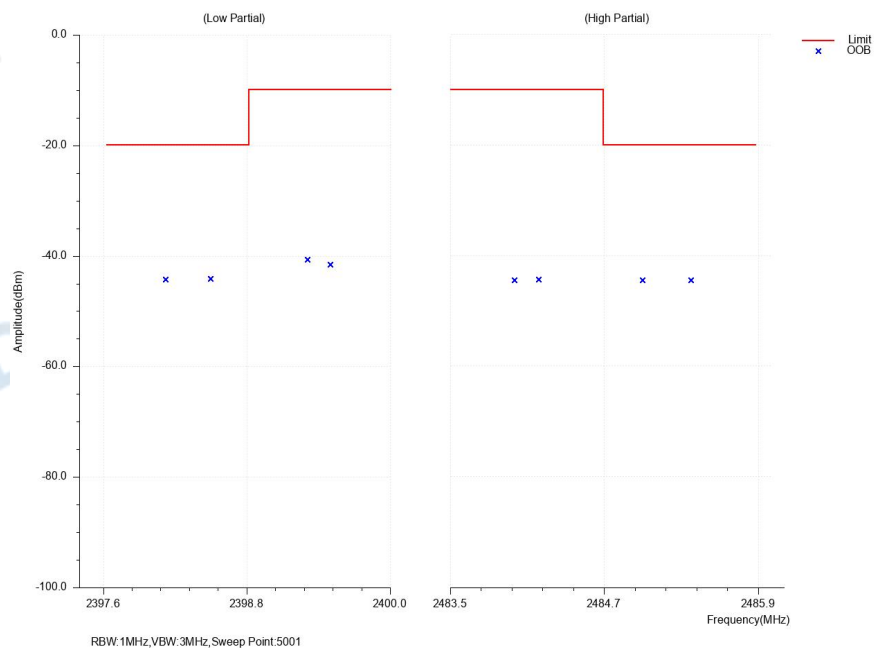
NVNT_ANT1_1-DH5_OOB_1-DH5

Transmitter unwanted emissions in the out-of-band

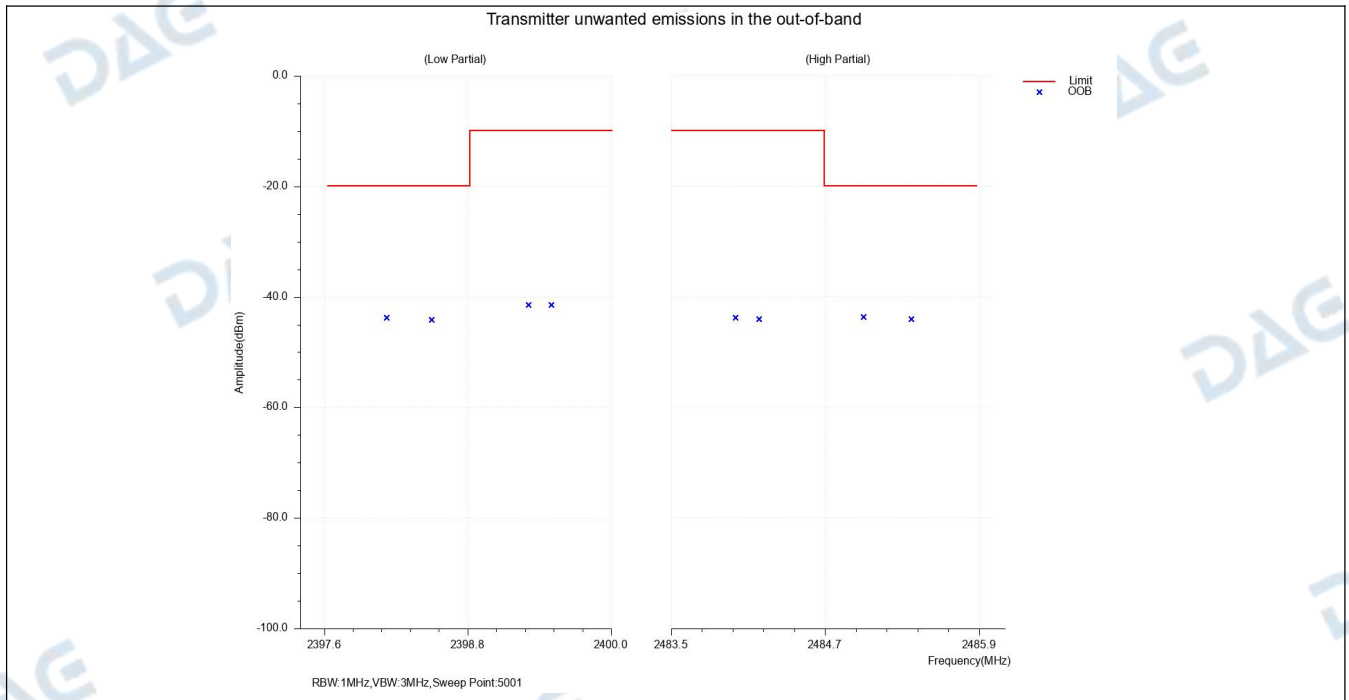


NVNT_ANT1_2-DH5_OOB_2-DH5

Transmitter unwanted emissions in the out-of-band



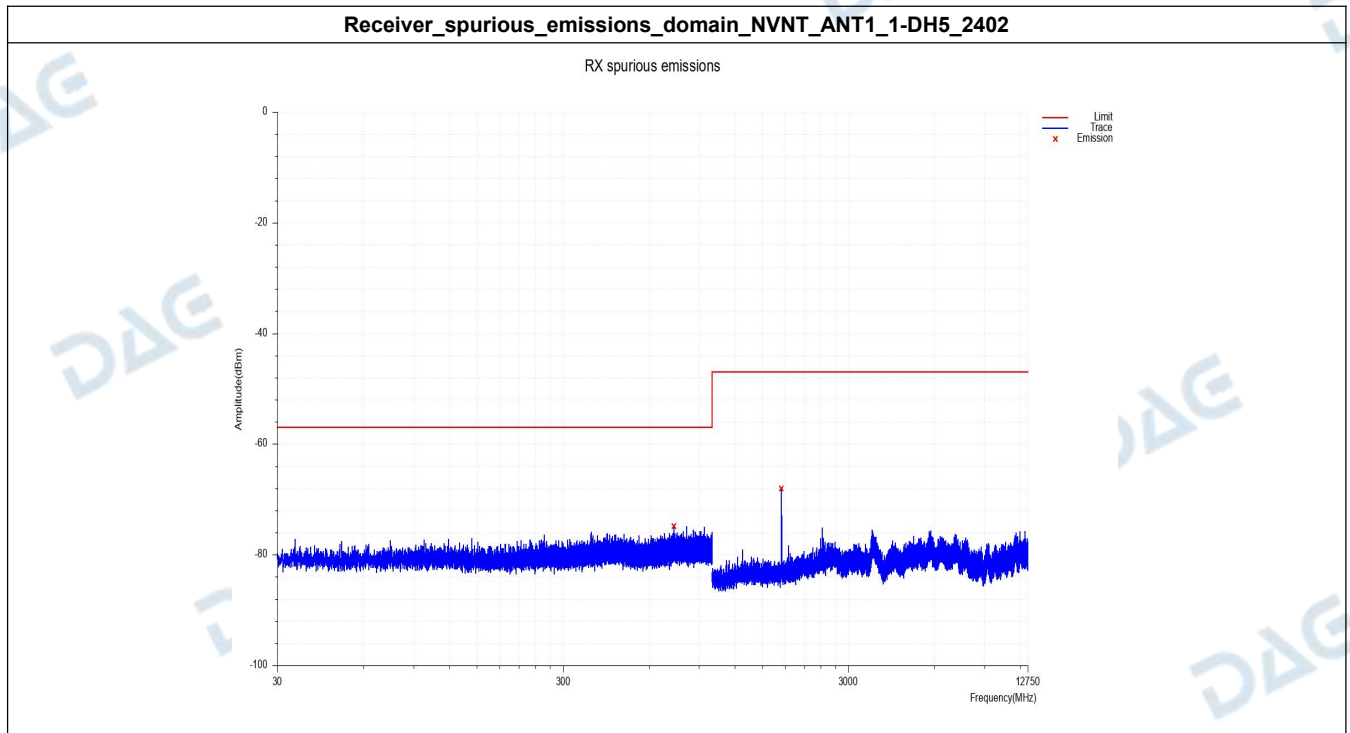
NVNT_ANT1_2-DH5_OOB_2-DH5



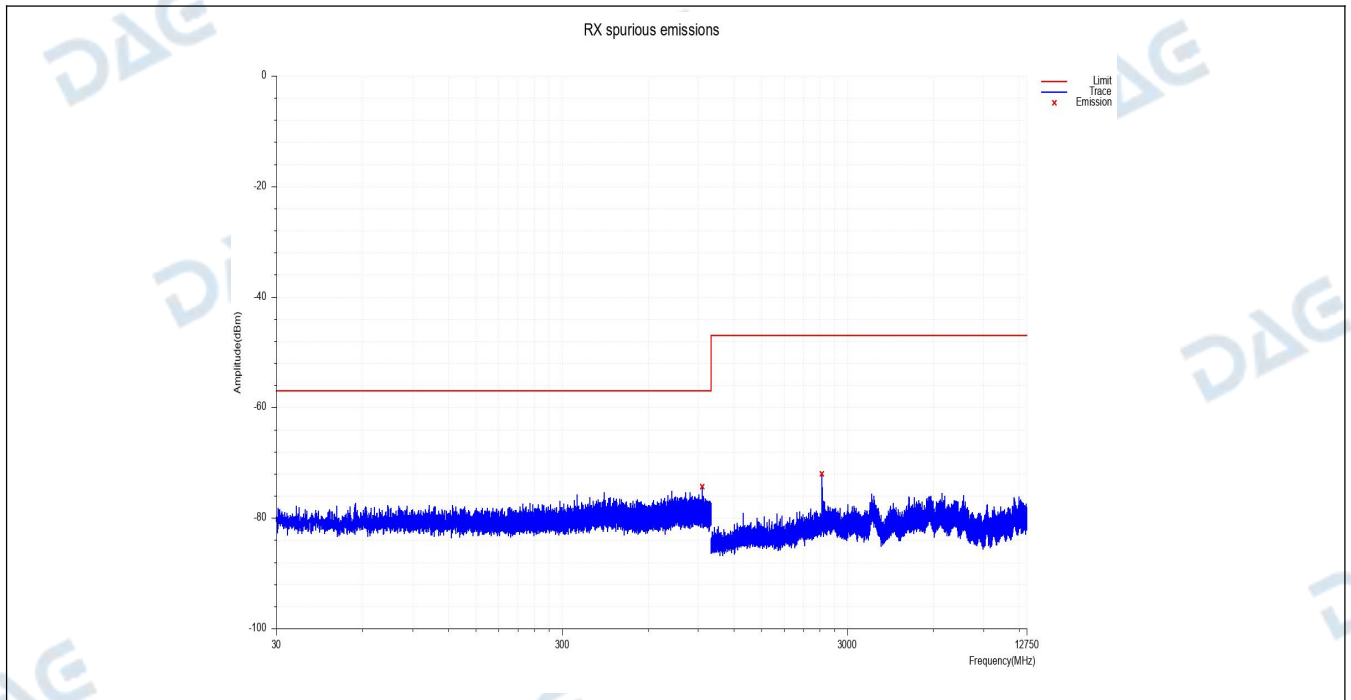
5. Receiver spurious emissions domain

Condition	Antenna	Modulation	Frequency (MHz)	Range	Spur Freq(MHz)	Spur Freq Peak(dBm)	Spur Level RMS(dBm)	Limit(dBm)	Result
NVNT	ANT1	1-DH5	2402.00	30.00~1000.00	733.96	-74.81	N/A	-57	Pass
NVNT	ANT1	1-DH5	2402.00	1000.00~12750.00	1748.87	-68.06	N/A	-47	Pass
NVNT	ANT1	1-DH5	2441.00	30.00~1000.00	931.84	-74.37	N/A	-57	Pass
NVNT	ANT1	1-DH5	2441.00	1000.00~12750.00	2441.72	-71.96	N/A	-47	Pass
NVNT	ANT1	1-DH5	2480.00	30.00~1000.00	465.01	-75.37	N/A	-57	Pass
NVNT	ANT1	1-DH5	2480.00	1000.00~12750.00	1751.22	-58.39	N/A	-47	Pass
NVNT	ANT1	2-DH5	2402.00	30.00~1000.00	647.83	-75.73	N/A	-57	Pass
NVNT	ANT1	2-DH5	2402.00	1000.00~12750.00	1750.83	-62.32	N/A	-47	Pass
NVNT	ANT1	2-DH5	2441.00	30.00~1000.00	473.29	-75.53	N/A	-57	Pass
NVNT	ANT1	2-DH5	2441.00	1000.00~12750.00	1748.08	-63.45	N/A	-47	Pass
NVNT	ANT1	2-DH5	2480.00	30.00~1000.00	413.09	-75.05	N/A	-57	Pass
NVNT	ANT1	2-DH5	2480.00	1000.00~12750.00	1748.47	-66.85	N/A	-47	Pass

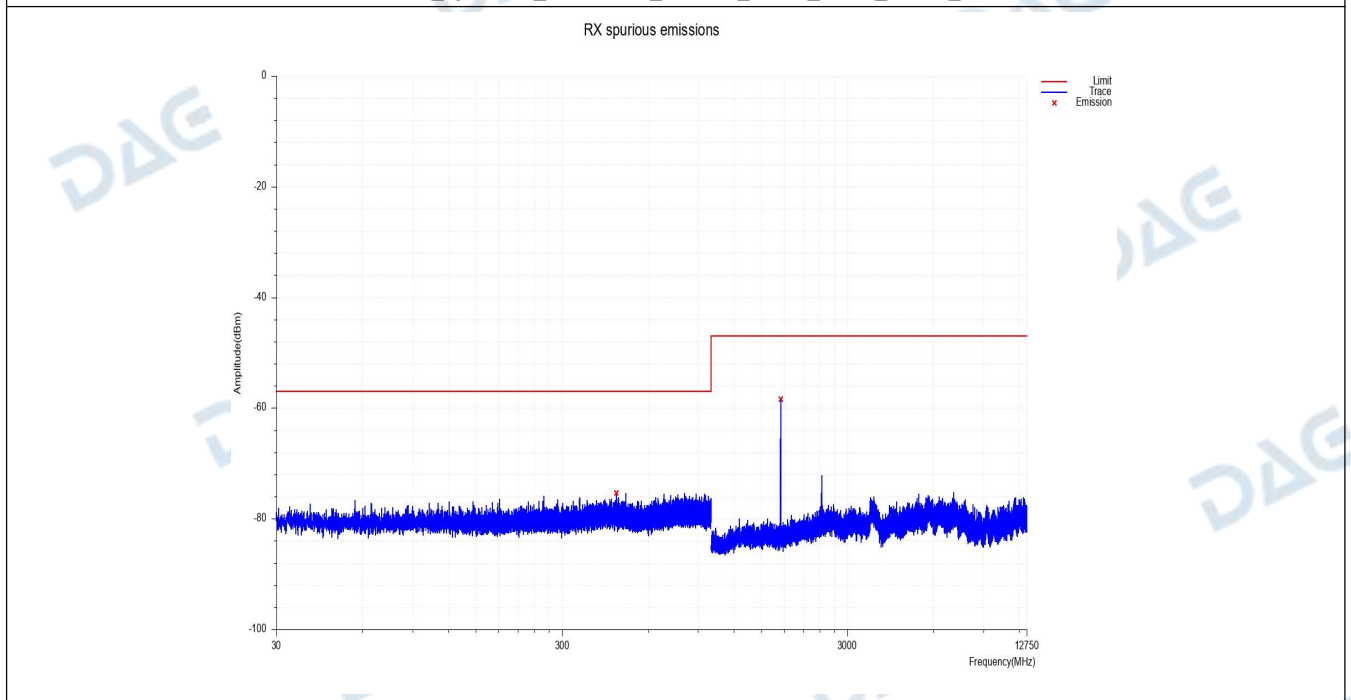
Receiver_spurious_emissions_domain_NVNT_ANT1_1-DH5_2402



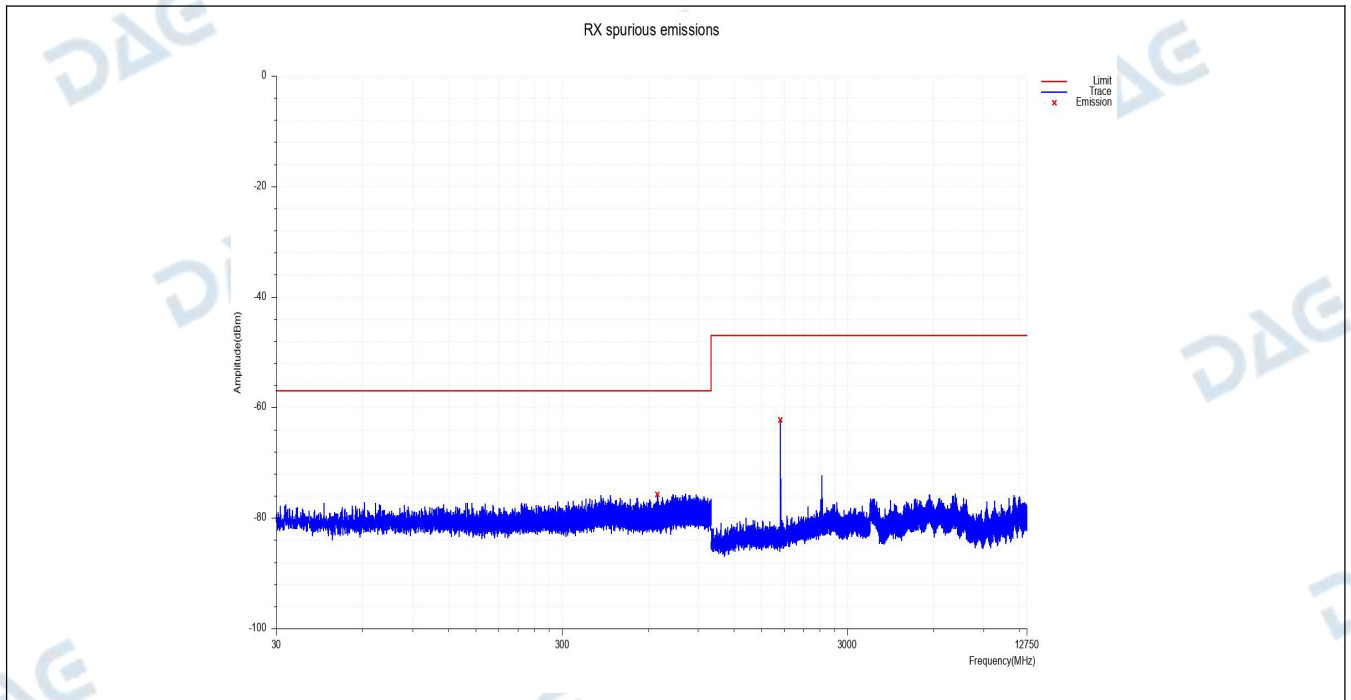
Receiver_spurious_emissions_domain_NVNT_ANT1_1-DH5_2441



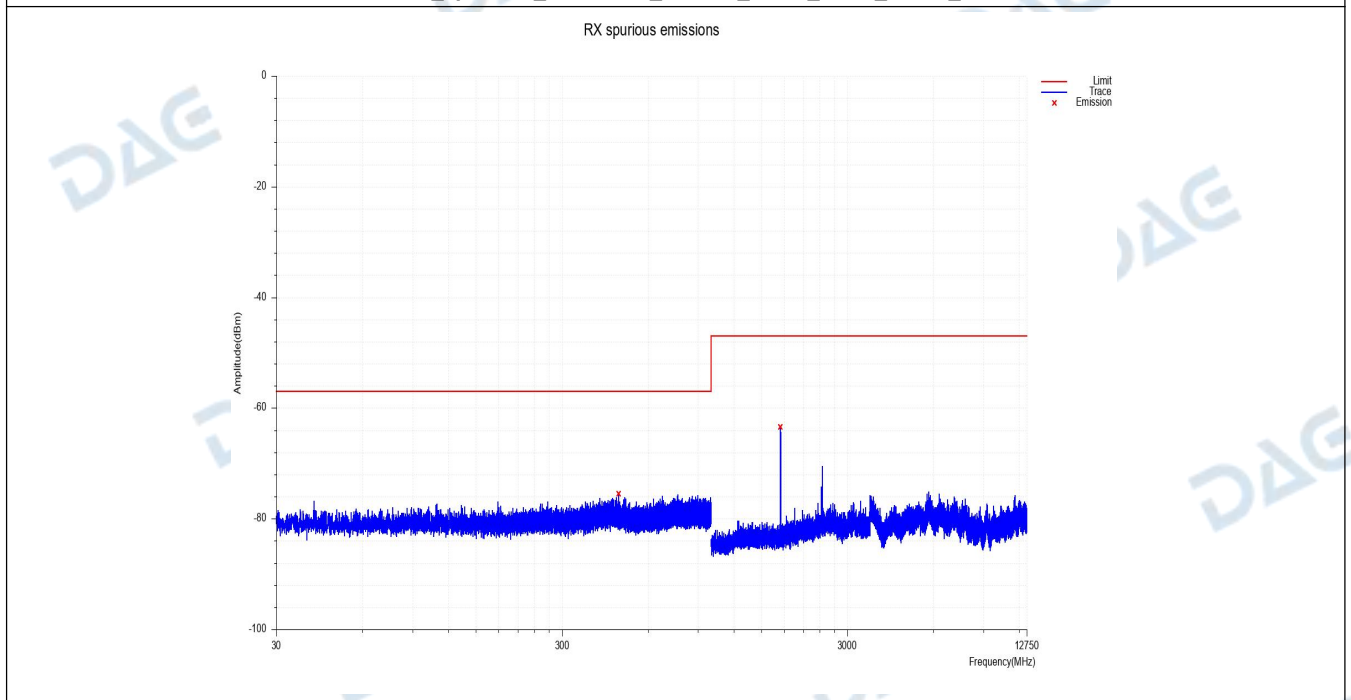
Receiver_spurious_emissions_domain_NVNT_ANT1_1-DH5_2480



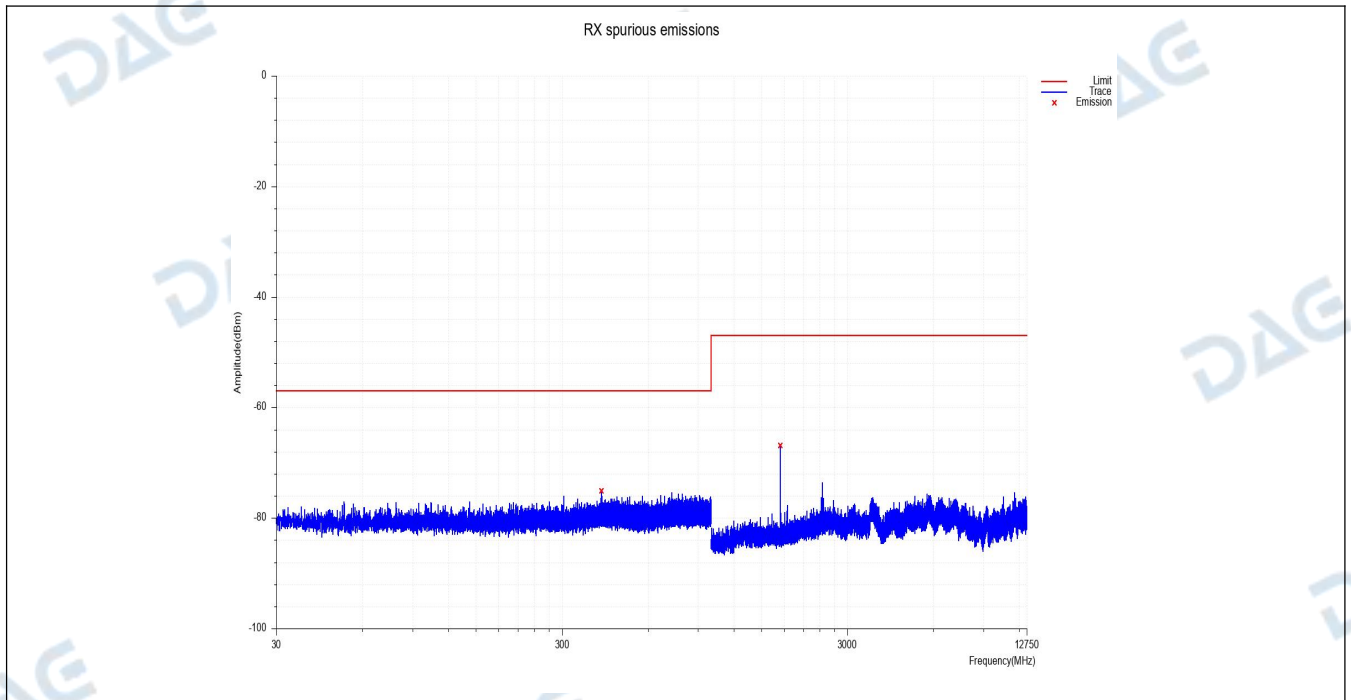
Receiver_spurious_emissions_domain_NVNT_ANT1_2-DH5_2402



Receiver_spurious_emissions_domain_NVNT_ANT1_2-DH5_2441



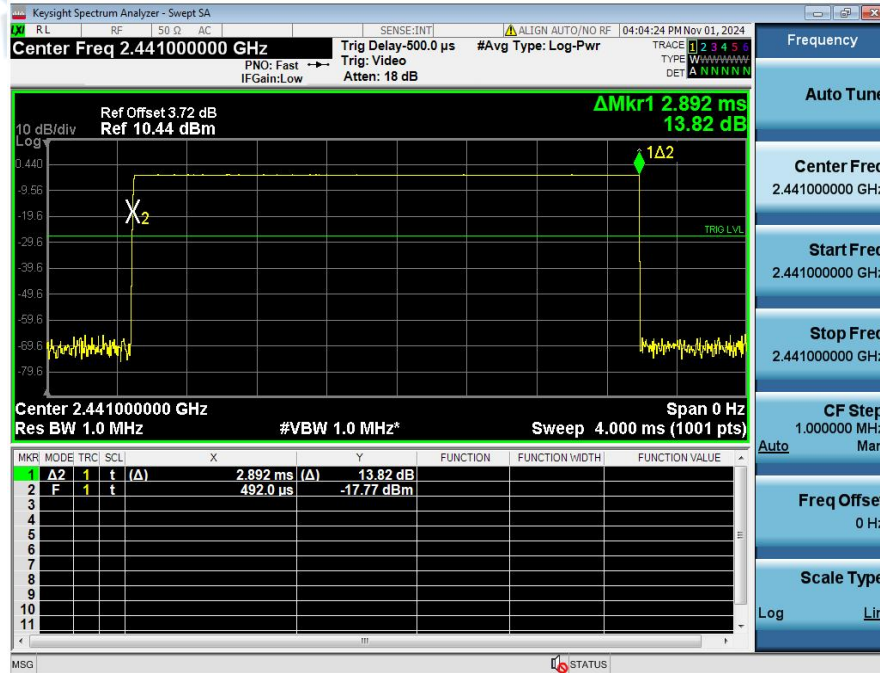
Receiver_spurious_emissions_domain_NVNT_ANT1_2-DH5_2480



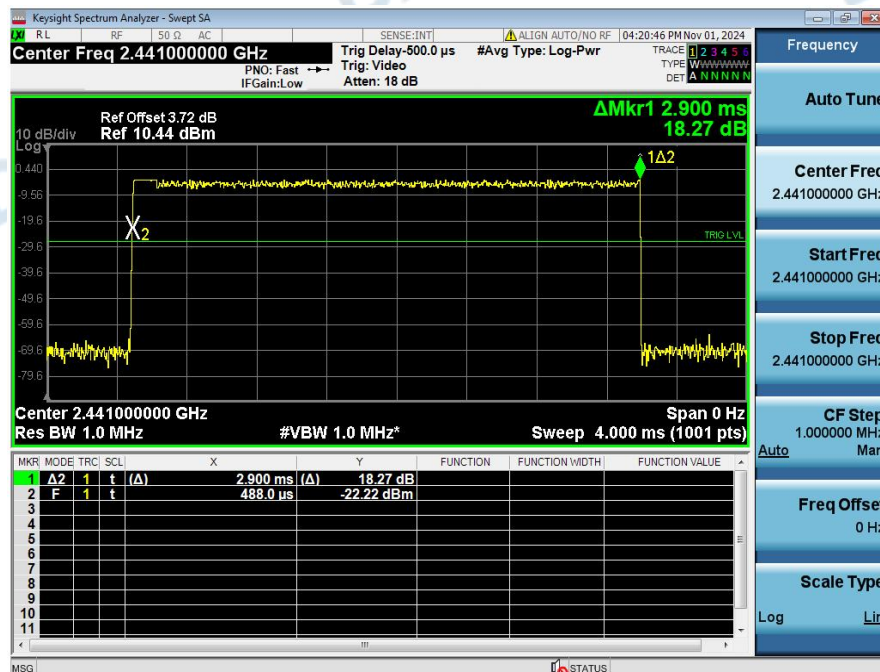
6. One Burst Dwell Time (Hopping)

Condition	Antenna	Modulation	Pulse Time(ms)
NVNT	ANT1	1-DH5	2.892
NVNT	ANT1	2-DH5	2.900

One_Burst_Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441



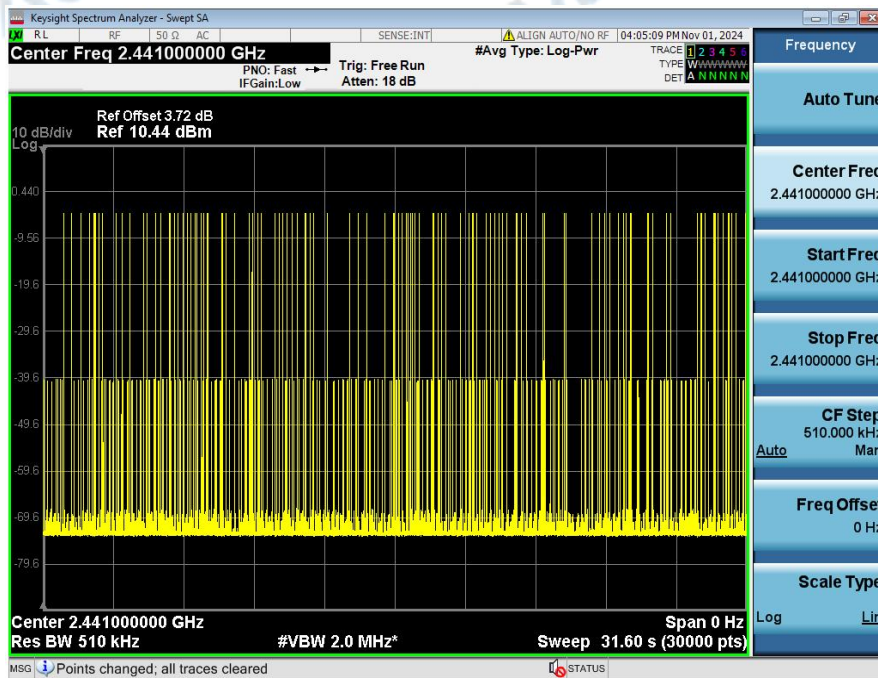
One_Burst_Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441



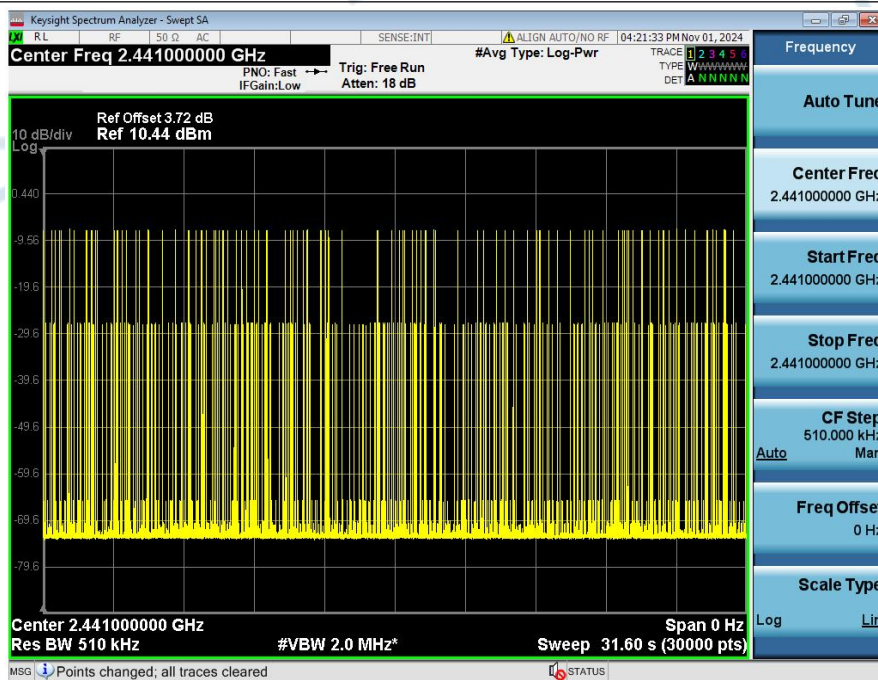
7. Accumulated Transmit Time (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Accumulated Transmit Time(ms)	Limit(ms)	Sweep Time(ms)	Burst Number	Result
NVNT	ANT1	1-DH5	2441.00	312.336	400	31600	108	Pass
NVNT	ANT1	2-DH5	2441.00	295.800	400	31600	102	Pass

Accumulated_Transmit_Time_(Hopping)_NVNT_ANT1_1-DH5_2441



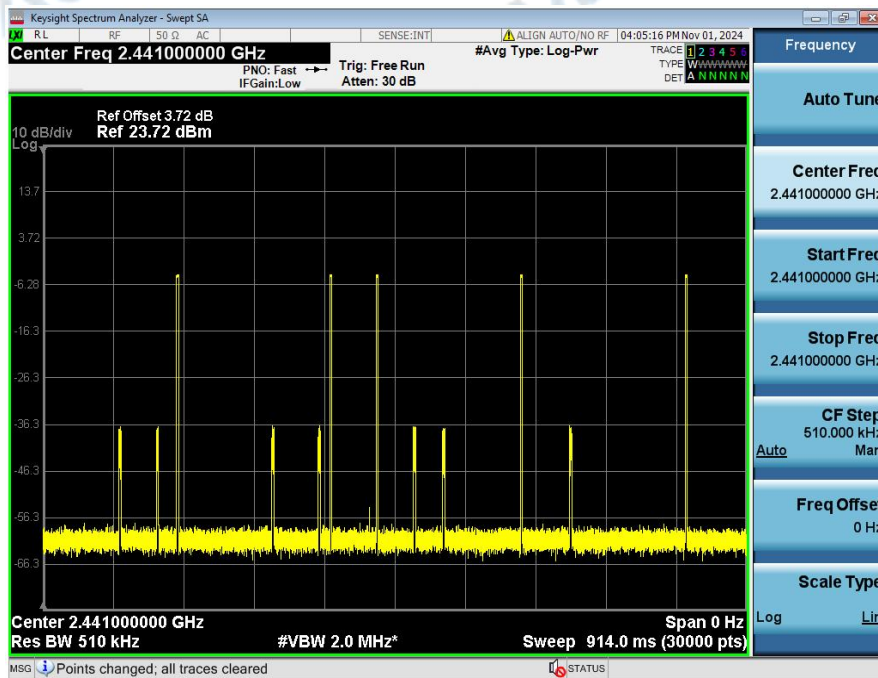
Accumulated_Transmit_Time_(Hopping)_NVNT_ANT1_2-DH5_2441



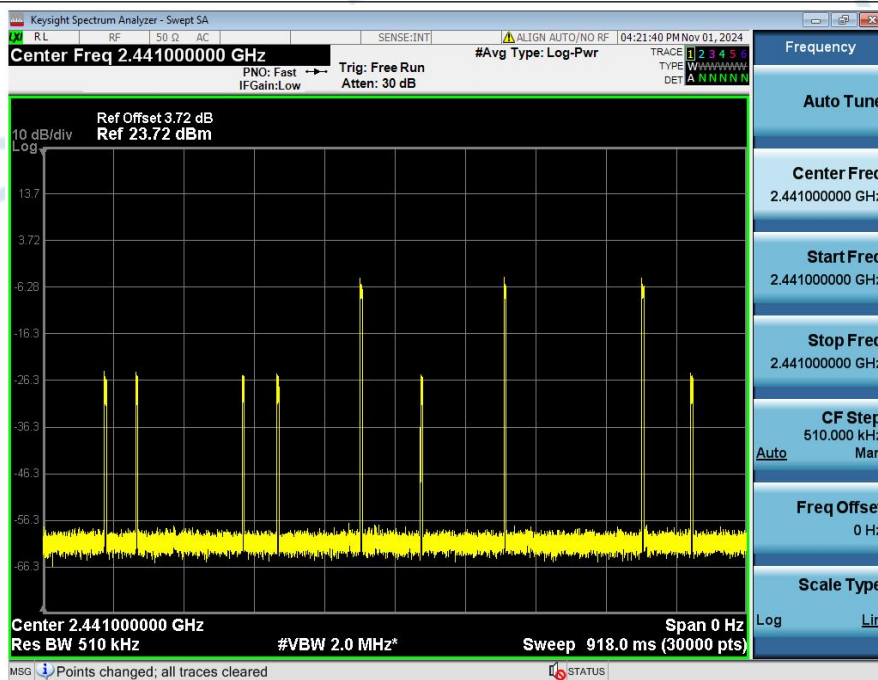
8. Frequency Occupation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Frequency Occupation(ms)	Sweep Time(ms)	Burst Number	Limit	Result
NVNT	ANT1	1-DH5	2441.00	14.460	913.87	5	>0	Pass
NVNT	ANT1	2-DH5	2441.00	8.700	916.40	3	>0	Pass

Frequency_Occupation_(Hopping)_NVNT_ANT1_1-DH5_2441



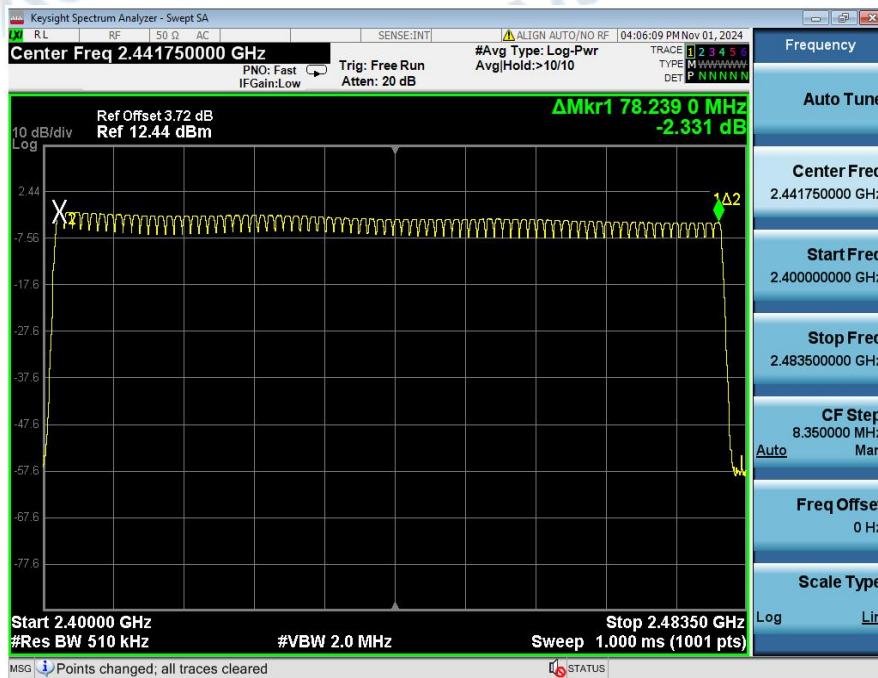
Frequency_Occupation_(Hopping)_NVNT_ANT1_2-DH5_2441



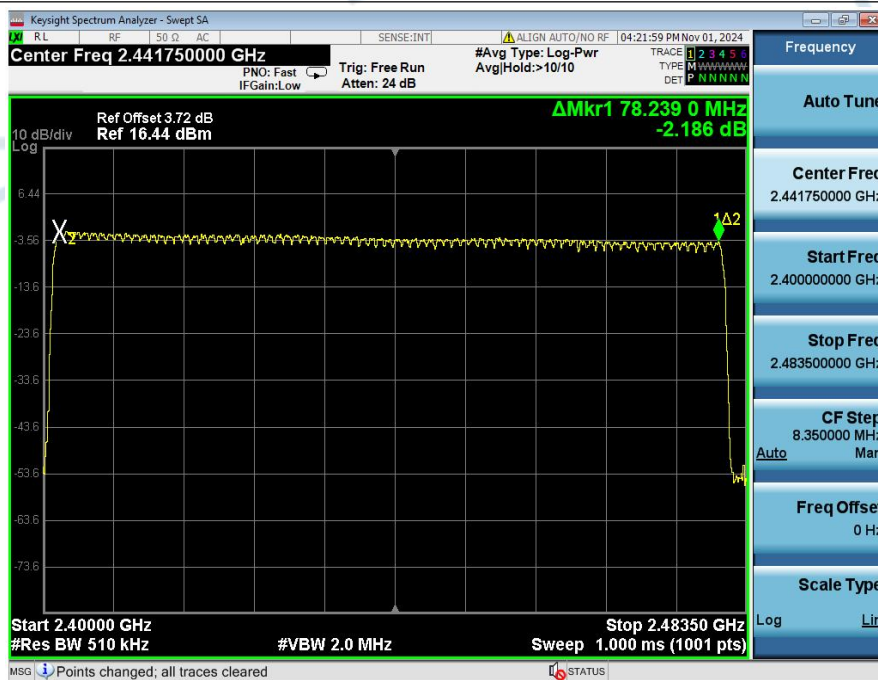
9. Hopping Sequence (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Band Allocation(%)	Limit Band Allocation(%)	Result
NVNT	ANT1	1-DH5	79	15	93.7	70	Pass
NVNT	ANT1	2-DH5	79	15	93.7	70	Pass

Hopping_Sequence_(Hopping)_NVNT_ANT1_1-DH5_2441



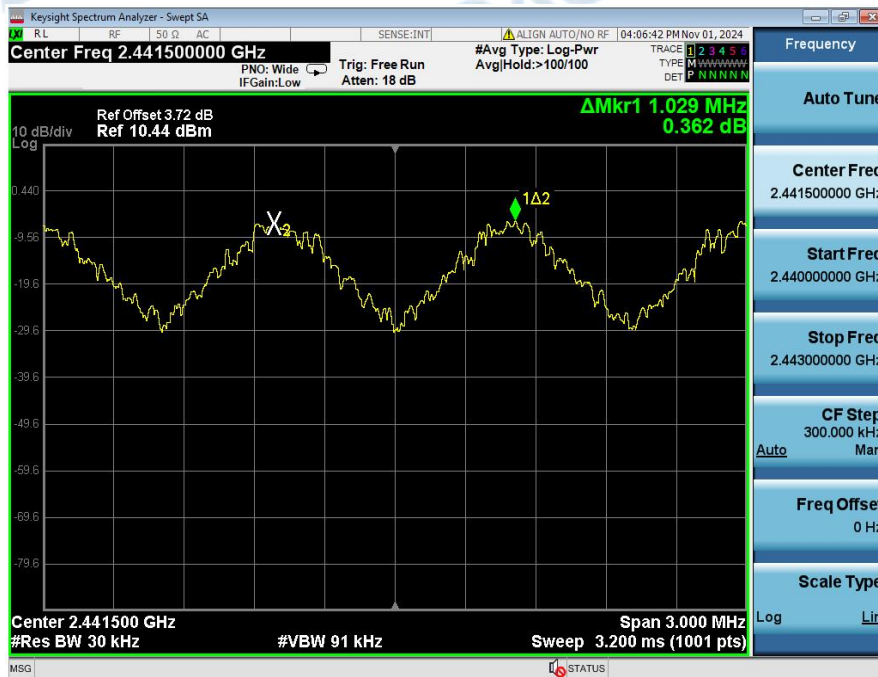
Hopping_Sequence_(Hopping)_NVNT_ANT1_2-DH5_2441



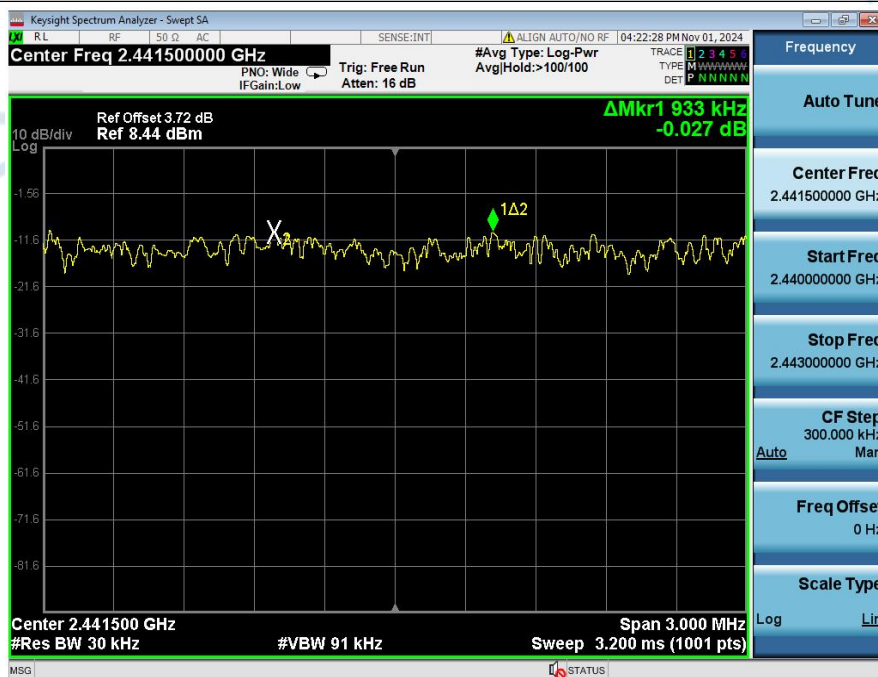
10. Hopping Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Hopping_Frequency_Separation(kHz)	Limit(kHz)	Result
NVNT	ANT1	1-DH5	2441.00	2440.984	2442.013	1029.00	>=100	Pass
NVNT	ANT1	2-DH5	2441.00	2440.984	2441.917	933.00	>=100	Pass

Hopping_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_2441



Hopping_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_2441



***** End of Report *****