

RF TEST REPORT

For

Shenzhen TenFifteen Technology Co., Ltd Product Name: Smart Watch Test Model(s).: G6

Report Reference No. : DACE240820023RL001

FCC ID : 2BB8F-G6

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

Address 612 Minle Technology Building, Minzhi Street, Longhua District,

Shenzhen, China

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

Address : 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology

Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : August 20, 2024

Date of Test : August 20, 2024 to September 10, 2024

Data of Issue : September 10, 2024

Result : Pass

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Revision History Of Report

Version Description		on Description REPORT No.		
V1.0 Original		DACE240820023RL001	September 10, 2024	
	- XC			
	OP			
		J.		

NOTE1:

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.

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247		47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	ANSI C63.10-2013 section 6.2	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

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2 GENERAL INFORMATION

2.1 Client Information

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

Address : 612 Minle Technology Building, Minzhi Street, Longhua District,

Shenzhen, China

Manufacturer : Shenzhen TenFifteen Technology Co., Ltd

Address : 612 Minle Technology Building, Minzhi Street, Longhua District,

Shenzhen, China

2.2 Description of Device (EUT)

Product Name:	Smart Watch
Model/Type reference:	G6
Series Model:	T12PRO,T3MAX, Q13, Q1,Q2, Q3, Q4, Q5, Q6,Q8, Q9,Q10, Q11.Q12, Q14,Q15,T1,T2,T3,T3PLUS,T4,T5,T6,T7,T8,T9,T10,T11,T12,T12PLUS,T13,T 13PRO,T13PLUS,T15,T15PLUS,T16,G1,G2,G3,G4, G5, G6,G7,G8, G9, G10, D01,D02,D03,D05,D06,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,Y9,X8,M1,M2,M3,S1, S2,S3,R1,R2,R3
Model Difference:	The product has many models, only the model name, Appearance and color is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	N/A
Power Supply:	DC 5V/1A from adapter Battery:DC3.85V 300mAh
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	Internal
Antenna Gain:	0dBi
Hardware Version:	V1.0
Software Version:	V1.0

(Remark:The Antenna Gain is supplied by the customer.DACE is not responsible for This data and the related calculations associated with it)

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz

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10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

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

Test channel	Frequency (MHz)
rest channel	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

No	Title	Description
TM1	TX-GFSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation at lowest, middle and highest channel.
TM2	TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation at lowest, middle and highest channel.
TM3	TX-8DPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation at lowest, middle and highest channel.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
Remarl	c:Only the data of the worst i	mode would be recorded in this report.

2.4 Description of Support Units

Title Manufacturer		Model No.	Serial No.
AC-DC adapter	HUAWEI TECHNOLOGY	HW100400C01	

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2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power absorbing clamp	SCHWARZ BECK	MESS- ELEKTRONIK	1	2024-03-25	2025-03-24
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	1	1
Cable	SCHWARZ BECK	101	1	2024-03-20	2025-03-19
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Ateennator	561-G071	2023-12-12	2024-12-11
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K 03-102109- MH	2024-06-12	2025-06-11
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2024-12-11
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2024-06-14	2025-06-13
Pulse Limiter	CYBERTEK	EM5010A	1	2023-09-27	2024-09-26
EMI test software	EZ -EMC	EZ	V1.1.42	1	/

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

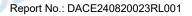
Occupied Bandwidth

Maximum Conducted Output Power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V1.0.0	1	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

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Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Linissions in nequent	Emissions in frequency bands (above 10112)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
EMI Test software	Farad	EZ -EMC	V1.1.42	1	/					
Positioning Controller	<u> </u>	MF-7802	6 1	1	1					
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	7/6					
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04					
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04					
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13					
Cable(LF)#2	Schwarzbeck	/	1.6	2024-02-19	2025-02-18					
Cable(LF)#1	Schwarzbeck	1		2024-02-19	2025-02-18					
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19					
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19					
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11					
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11					
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11					
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2024-06-12	2025-06-11					
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12					
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20					

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2.6 Statement Of The Measurement Uncertainty

V1.0

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
Duty cycle	±3.1%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
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Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.					
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China					
Phone Number:	+86-13267178997					
Fax Number:	86-755-29113252					
FCC Registration Number:	0032847402					
Designation Number:	CN1342					
Test Firm Registration Number:	778666					
A2LA Certificate Number:	6270.01					

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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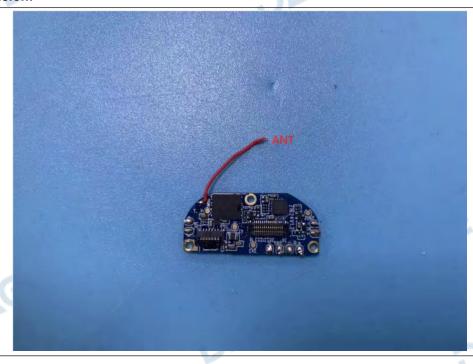
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:



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Radio Spectrum Matter Test Results (RF)

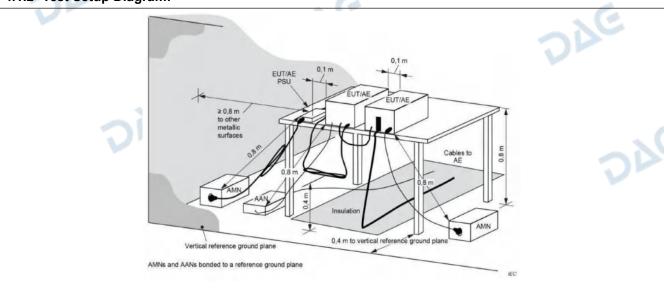
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).							
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)							
		Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30 60 50							
\	*Decreases with the logarithm of the frequency.							
Test Method:	ANSI C63.10-2013 section 6.2							
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices							

4.1.1 E.U.T. Operation:

Operating Environment:								
Temperature: 23.7 °C			Humidity:	48 %		Atmospheric Pressure:	102 kPa	
Pretest mode:		TM1,	TM2, TM3					
Final test mode:		TM1						

4.1.2 Test Setup Diagram:



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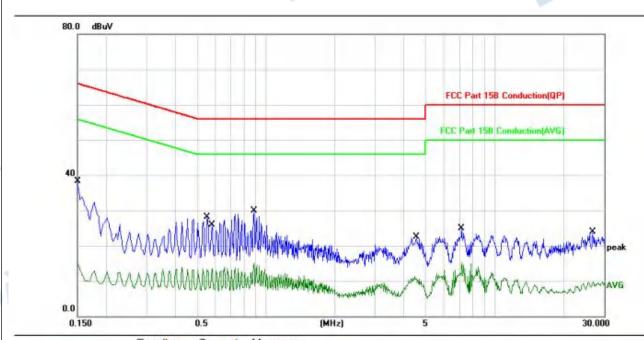
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4.1.3 Test Data:

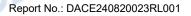
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L

Power:AC120V60Hz



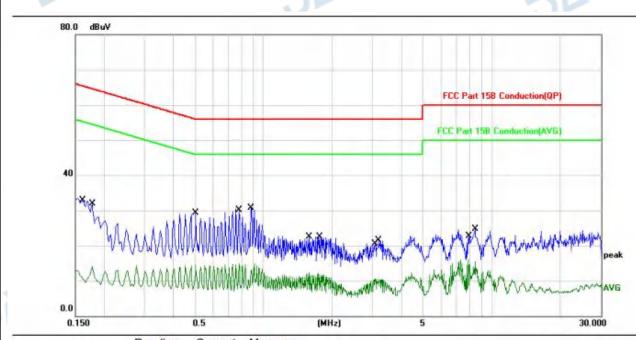
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	28.17	10.10	38.27	65.99	-27.72	QP		
2		0.1500	5.04	10.10	15.14	55.99	-40.85	AVG		
3		0.5540	17.99	10.08	28.07	56.00	-27.93	QP		
4		0.5820	3.34	10.08	13.42	46.00	-32.58	AVG		
5	*	0.8860	19.80	10.08	29.88	56.00	-26.12	QP		
6		0.8860	4.99	10.08	15.07	46.00	-30.93	AVG		
7		4.4699	1.11	10.18	11.29	46.00	-34.71	AVG		
8		4.5460	12.39	10.18	22.57	56.00	-33.43	QP		
9		7.1740	14.68	10.23	24.91	60.00	-35.09	QP		
10		7.1780	5.14	10.23	15.37	50.00	-34.63	AVG		
11		26.7500	12.90	10.93	23.83	60.00	-36.17	QP		
12		26.8500	-1.23	10.94	9.71	50.00	-40.29	AVG		

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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L Power:AC120V60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1620	22.77	10.10	32.87	65.36	-32.49	QP		
2		0.1780	3.91	10.10	14.01	54.57	-40.56	AVG		
3		0.5060	19.21	10.08	29.29	56.00	-26.71	QP		
4		0.5060	4.34	10.08	14.42	46.00	-31.58	AVG		
5		0.7820	4.80	10.08	14.88	46.00	-31.12	AVG		
6	*	0.8820	20.56	10.08	30.64	56.00	-25.36	QP		
7		1.5900	2.22	10.03	12.25	46.00	-33.75	AVG		
8		1.7660	12.51	10.02	22.53	56.00	-33.47	QP		
9		3.0780	0.46	10.07	10.53	46.00	-35.47	AVG		
10		3.2060	11.50	10.08	21.58	56.00	-34.42	QP		
11		7.8580	5.86	10.27	16.13	50.00	-33.87	AVG		
12		8.4300	14.52	10.28	24.80	60.00	-35.20	QP		

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4.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from
VE.	exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10
DIE	dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
DD	h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
	j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the
DAG	marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.2.1 E.U.T. Operation:

Operating Environment:

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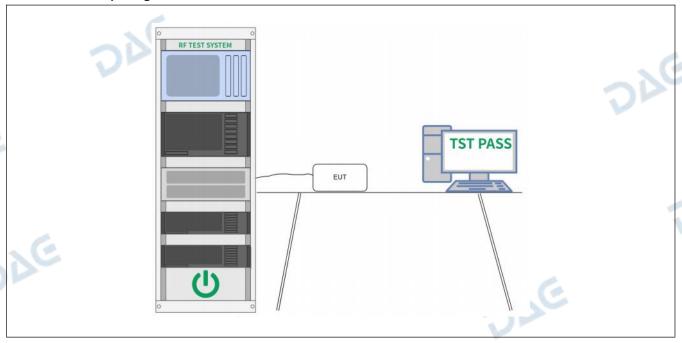
Temperature: 23.7 °C Humidity: 48 % Atmospheric Pressure: 102 kPa

Pretest mode: TM1, TM2, TM3

Final test mode: TM1, TM2, TM3

Report No.: DACE240820023RL001

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

DAG

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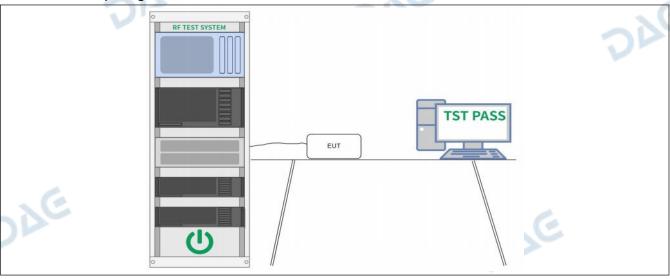
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
Ve Ve	 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.
4.3.1 E.U.T. Operation:	, E

4.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.7 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa		
Pretest mode:		TM1,	TM2, TM3		·			
Final test mode: TM1,			TM2, TM3					

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

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4.4 Channel Separation

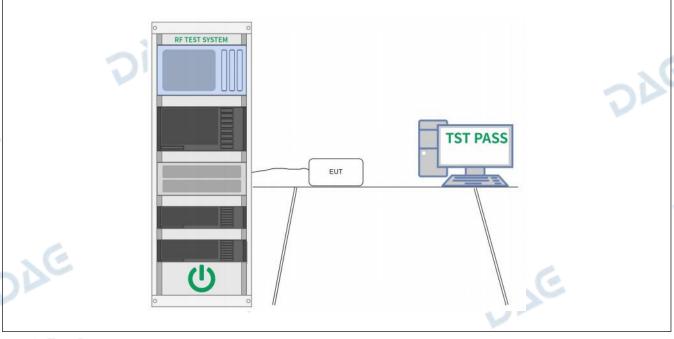
V1.0

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), 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.
Test Method:	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW.
DE	d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Envir	Operating Environment:						
Temperature:	23.7 °C		Humidity:	48 %		Atmospheric Pressure:	102 kPa
Pretest mode:		TM4,	TM5, TM6	- 3	C		. 6
Final test mode:					270		

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

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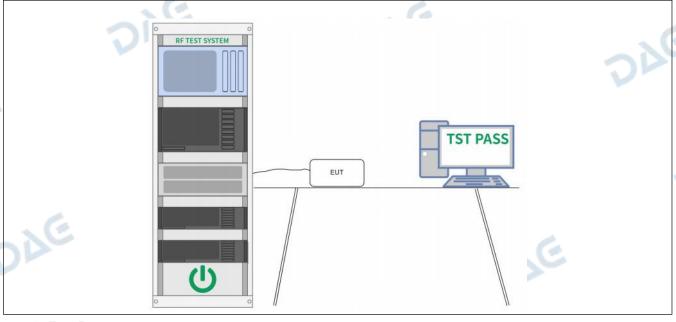
4.5 Number of Hopping Frequencies

	philig i reductions
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

4.5.1 E.U.T. Operation:

Operating Envir	onment:				6		
Temperature:	23.7 °C		Humidity:	48 %	7	Atmospheric Pressure:	102 kPa
Pretest mode:		TM4,	TM5, TM6	V			2
,			TM5, TM6				

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

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4.6 Dwell Time

Test Requirement: 47 CFR 15.247(a)(1)(iii) Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. Test Method: ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then	Test Requirement:	47 CEP 15 247(a)(1)(iii)
MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. Test Method: ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements.) = (number of hops on spectrum analyzer) × (period specified in the requirements.) from the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for		47 CFK 13.247(a)(1)(iii)
Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for	Test Limit:	MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency
analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. The sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for	Test Method:	
The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.	Y.E	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

Report No.: DACE240820023RL001

4.6.1 E.U.T. Operation:

Operating Enviro	onment:	U			OP	
Temperature:	23.7 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode: TM4, TM5, TM6						
Final test mode: TM4, TM5, TM6				6		

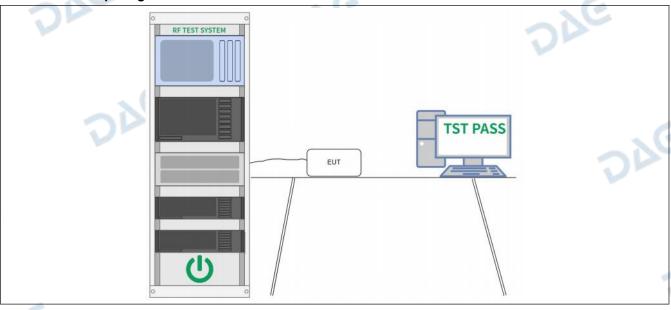
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4.6.2 Test Setup Diagram:



4.6.3 Test Data:

DAG

DAG

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DAG

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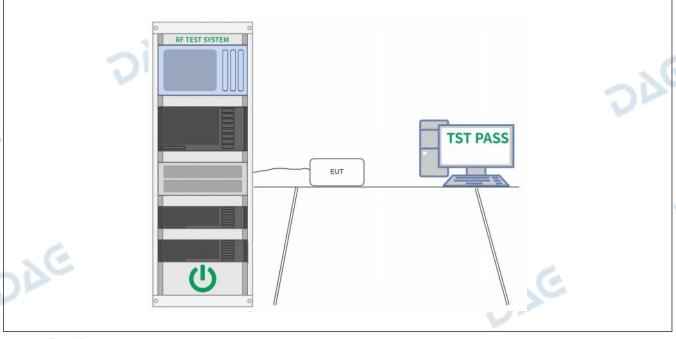
4.7 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), 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.
Test Method:	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

4.7.1 E.U.T. Operation:

Operating Environment:						
Temperature: 23.7 °C		Humidity:	48 %		Atmospheric Pressure:	102 kPa
Pretest mode:	TM1,	TM2, TM3, 7	ΓM4, TM5,	TM6		. 6
Final test mode:	TM1,	TM2, TM3,	ΓM4, TM5,	ТМ6		270

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

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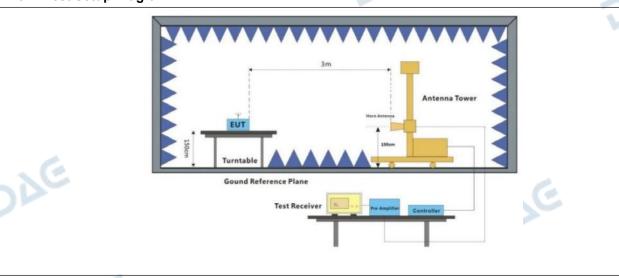
4.8 Band edge emissions (Radiated)

Test Requirement:	restricted bands, as define	, In addition, radiated emissions wid in § 15.205(a), must also comply § 15.209(a)(see § 15.205(c)).`	
Test 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
1	Above 960	500	3
1E	radiators operating under to 54-72 MHz, 76-88 MHz, 11 these frequency bands is pand 15.241. In the emission table above The emission limits shown employing a CISPR quasi-110–490 kHz and above 1	aragraph (g), fundamental emission his section shall not be located in to 74-216 MHz or 470-806 MHz. Howevermitted under other sections of the e, the tighter limit applies at the bar in the above table are based on material peak detector except for the frequence of the material of the material section.	he frequency bands ever, operation within his part, e.g., §§ 15.231 and edges. easurements ency bands 9–90 kHz, in these three bands
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 I		
Procedure:	ANSI C63.10-2013 section	6.10.5.2	16

4.8.1 E.U.T. Operation:

Operating Envir	onment:					
Temperature:	23.7 °C	-	Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1,	TM2, TM3		. 6	
Final test mode:		TM1				

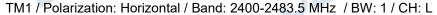
4.8.2 Test Setup Diagram:

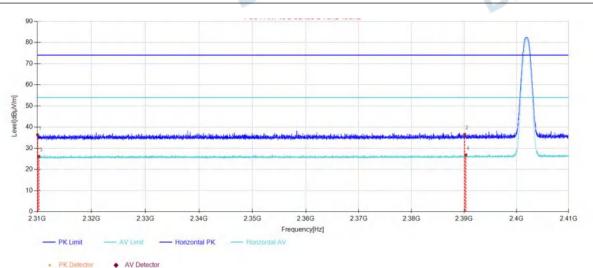


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4.8.3 Test Data:

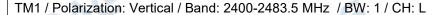


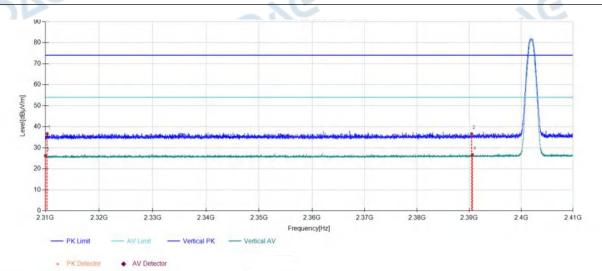


Susp	ected Data	List						
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310.06	36.28	-11.73	74.00	37.72	150	251	Horizontal
2	2390.12	36.55	-11.47	74.00	37.45	150	0	Horizontal
3	2310.31	26.15	-11.73	54.00	27.85	150	251	Horizontal
4	2390.34	26.84	-11.47	54.00	27.16	150	125	Horizontal

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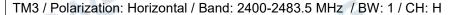


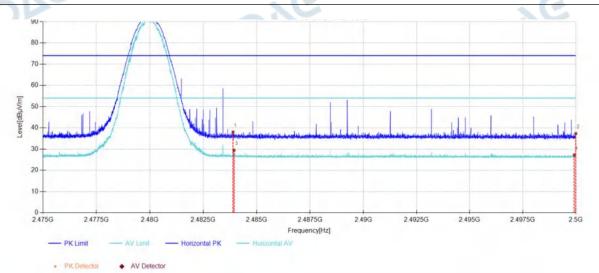




Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2310.33	36.66	-11.73	74.00	37.34	150	337	Vertical		
2	2390.47	36.64	-11.47	74.00	37.36	150	355	Vertical		
3	2310.02	26.15	-11.73	54.00	27.85	150	302	Vertical		
4	2390.61	26.70	-11.47	54.00	27.30	150	291	Vertical		

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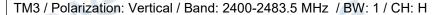


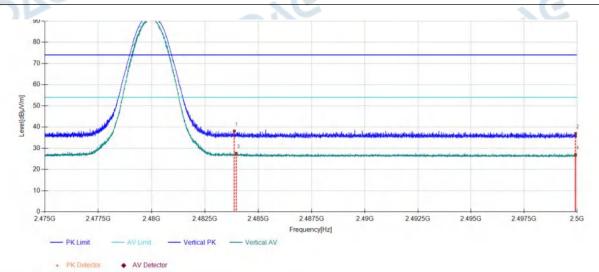
Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.89	37.98	-11.18	74.00	36.02	150	259	Horizontal			
2	2499.99	37.27	-11.12	74.00	36.73	150	1	Horizontal			
3	2483.93	29.46	-11.18	54.00	24.54	150	259	Horizontal			
4	2499.92	27.21	-11.12	54.00	26.79	150	29	Horizontal			

DAG

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Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.87	38.10	-11.18	74.00	35.90	150	351	Vertical			
2	2499.92	36.90	-11.12	74.00	37.10	150	310	Vertical			
3	2483.96	27.59	-11.18	54.00	26.41	150	150	Vertical			
4	2499.92	26.99	-11.12	54.00	27.01	150	150	Vertical			

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4.9 Emissions in frequency bands (below 1GHz)

	requency bands (belo		- 6						
Test Requirement:	restricted bands, as define	I), In addition, radiated emissions ed in § 15.205(a), must also com n § 15.209(a)(see § 15.205(c)).`							
Test 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						
	The emission limits shown employing a CISPR quasi 110–490 kHz and above 2	ve, the tighter limit applies at the n in the above table are based or peak detector except for the free 1000 MHz. Radiated emission limints employing an average detection.	n measurements quency bands 9–90 kHz, nits in these three bands						
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02								
Procedure:	RDB 558074 D01 15.247 Meas Guidance v05r02 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.								
	i. The radiation measurem Transmitting mode, and for j. Repeat above procedure Remark:	est channel, the middle channel, nents are performed in X, Y, Z ax bund the X axis positioning which es until all frequencies measured Hz, through pre-scan found the	is positioning for n it is the worst case. I was complete.						
. [9									

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

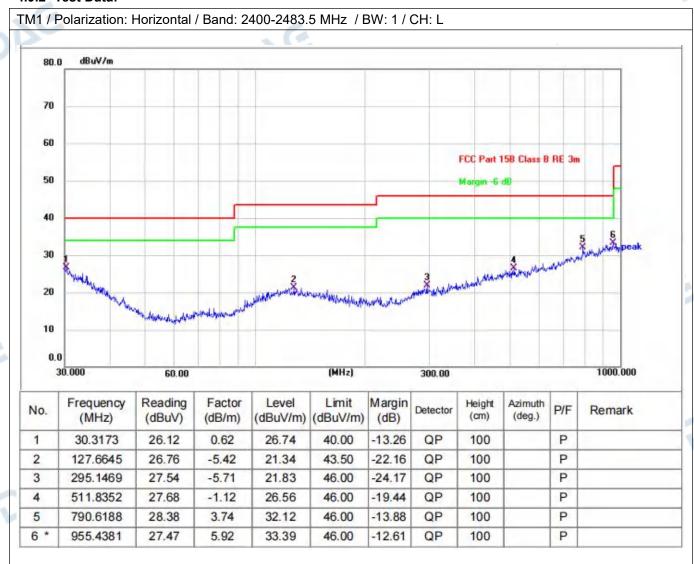
Report No.: DACE240820023RL001

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.9.1 E.U.T. Operation:

Operating Environment	Operating Environment:										
Temperature:	23.7 °C	- >	Humidity:	48 %	Atmospheric Pres	sure:	102 kPa				
Pretest mode:	Pretest mode: TM1, TM2			TM2, TM3							
Final test mode: TM1											

4.9.2 Test Data:

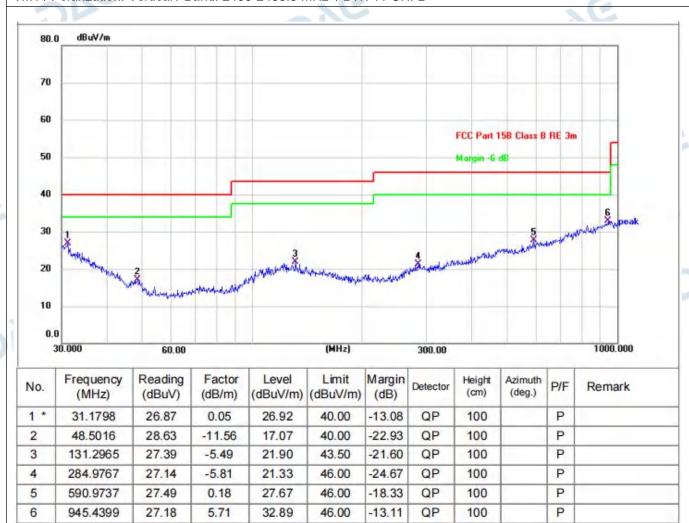


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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



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4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in §								
	15.205(a), must also comply 15.209(a)(see § 15.205(c)).	y with the radiated emission limits	specified in §						
Test 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						
1	Above 960	500	3						
	In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.								
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02								
Procedure:	above the ground at a 3 or 360 degrees to determine the b. For above 1GHz, the EU above the ground at a 3 medegrees to determine the poc. The EUT was set 3 or 10 which was mounted on the d. The antenna height is value determine the maximum value polarizations of the antenna e. For each suspected emisting the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system below 30MHz, the antenna was turned to he below 30MHz,	e EUT in peak mode was 10dB lo I be stopped and the peak values issions that did not have 10dB ma ak, quasi-peak or average method st channel, the middle channel, th nts are performed in X, Y, Z axis p	The table was rotated in. ing table 1.5 meters able was rotated 360 ine-receiving antenna, ower. Is above the ground to zontal and vertical int. Is worst case and then for the test frequency of the rotatable table um reading. In and Specified In the EUT would be argin would be red as specified and then the Highest channel. In the EUT would be argin would be red as specified and then the Highest channel.						
	j. Repeat above procedures Remark:	nd the X axis positioning which it until all frequencies measured we through pre-scan found the wo	as complete.						

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

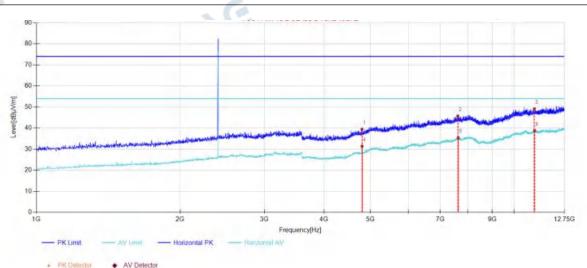
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.10.1 E.U.T. Operation:

Operating Environment:									
Temperature: 23.7 °C			Humidity:	48 %	Atmospheric Pressure:	102 kPa			
Pretest mode: TM1, TM2			TM2, TM3		. 6				
Final test mode:	1	TM1			270				

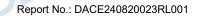
4.10.2Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

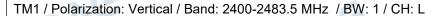


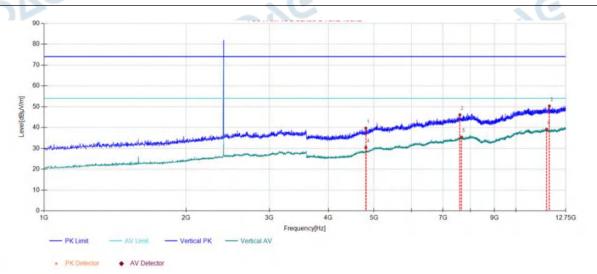
Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.53	39.45	-6.94	74.00	34.55	150	50	Horizonta			
2	7621.95	45.71	-1.26	74.00	28.29	150	332	Horizontal			
3	11026.9	49.10	3.49	74.00	24.90	150	2	Horizontal			
4	4806.00	31.38	-6.94	54.00	22.62	150	56	Horizontal			
5	7638.11	35.36	-1.21	54.00	18.64	150	9	Horizonta			
6	11041.6	38.77	3.49	54.00	15.23	150	33	Horizontal			

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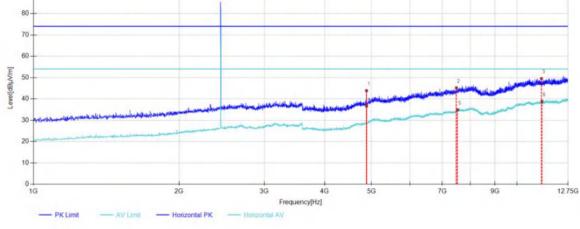


Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.53	39.70	-6.94	74.00	34.30	150	102	Vertical			
2	7602.85	46.10	-1.32	74.00	27.90	150	113	Vertical			
3	11764.3	50.33	3.16	74.00	23.67	150	176	Vertical			
4	4806.00	30.41	-6.94	54.00	23.59	150	102	Vertical			
5	7660.14	35.38	-1.13	54.00	18.62	150	9	Vertical			
6	11602.7	39.15	3.40	54.00	14.85	150	153	Vertical			

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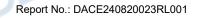




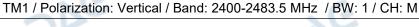


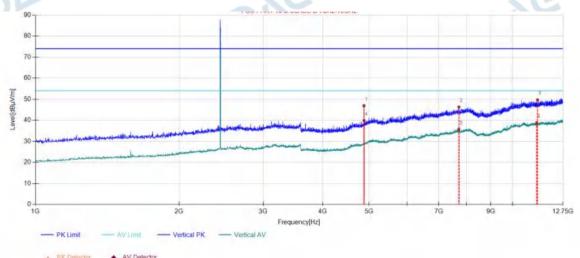
Susp	Suspected Data List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	4882.39	43.86	-6.65	74.00	30.14	150	62	Horizontal					
2	7491.21	45.18	-1.71	74.00	28.82	150	333	Horizontal					
3	11231.1	49.54	3.52	74.00	24.46	150	257	Horizontal					
4	4883.86	36.63	-6.65	54.00	17.37	150	91	Horizontal					
5	7532.34	34.87	-1.57	54.00	19.13	150	172	Horizontal					
6	11256.0	38.83	3.52	54.00	15.17	150	102	Horizontal					

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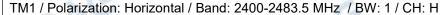


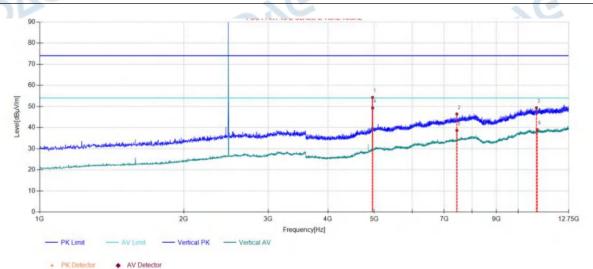


Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4880.92	46.90	-6.66	74.00	27.10	150	103	Vertical			
2	7717.43	46.28	-0.93	74.00	27.72	150	114	Vertical			
3	11279.5	49.72	3.53	74.00	24.28	150	267	Vertical			
4	4883.86	39.84	-6.65	54.00	14.16	150	103	Vertical			
5	7713.02	35.66	-0.94	54.00	18.34	150	108	Vertical			
6	11235.5	38.81	3.52	54.00	15.19	150	352	Vertical			

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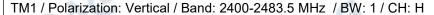


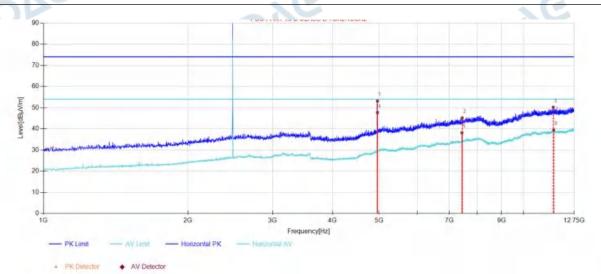
Suspected Data List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.24	54.26	-6.36	74.00	19.74	150	156	Vertical			
2	7439.80	46.40	-1.86	74.00	27.60	150	166	Vertical			
3	10910.8	49.35	3.38	74.00	24.65	150	270	Vertical			
4	4961.71	49.28	-6.35	54.00	4.72	150	156	Vertical			
5	7441.27	38.62	-1.85	54.00	15.38	150	156	Vertical			
6	10954.9	38.98	3.43	54.00	15.02	150	281	Vertical			

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Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.24	53.13	-6.36	74.00	20.87	150	288	Horizontal	
2	7448.61	45.18	-1.83	74.00	28.82	150	345	Horizontal	
3	11527.8	50.19	3.52	74.00	23.81	150	162	Horizontal	
4	4961.71	47.72	-6.35	54.00	6.28	150	294	Horizontal	
5	7441.27	38.13	-1.85	54.00	15.87	150	294	Horizontal	
6	11557.2	39.46	3.47	54.00	14.54	150	5	Horizontal	

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5 TEST SETUP PHOTOS

Reference to the Test setup file for details.

6 PHOTOS OF THE EUT

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Reference to the external photos file and internal photos file for details.

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Appendix

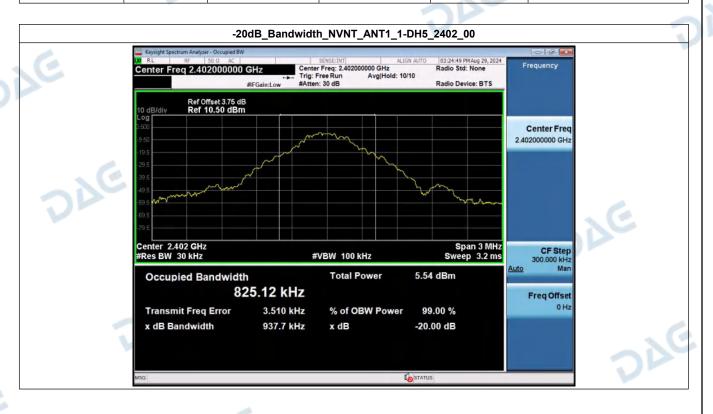
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V1.0



1. -20dB Bandwidth

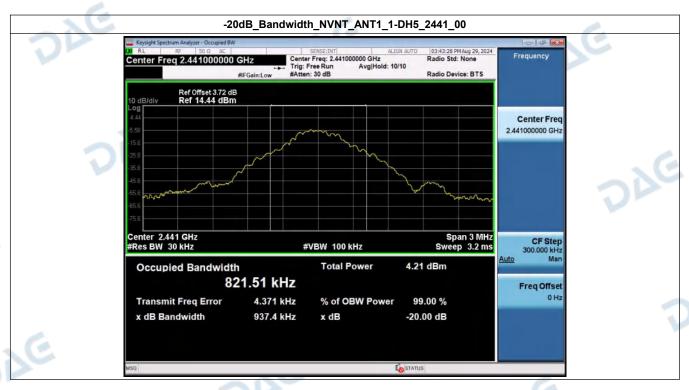
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.938	No
NVNT	ANT1	1-DH5	2441.00	0.937	No
NVNT	ANT1	1-DH5	2480.00	0.940	No
NVNT	ANT1	2-DH5	2402.00	1.332	Yes
NVNT	ANT1	2-DH5	2441.00	1.330	Yes
NVNT	ANT1	2-DH5	2480.00	1.330	Yes
NVNT	ANT1	3-DH5	2402.00	1.297	Yes
NVNT	ANT1	3-DH5	2441.00	1.307	Yes
NVNT	ANT1	3-DH5	2480.00	1.302	Yes

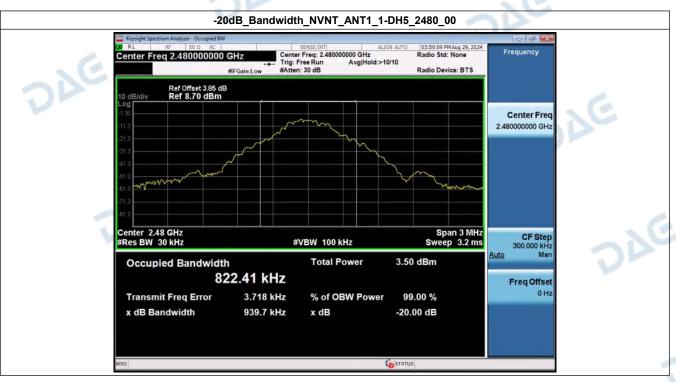


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V1.0



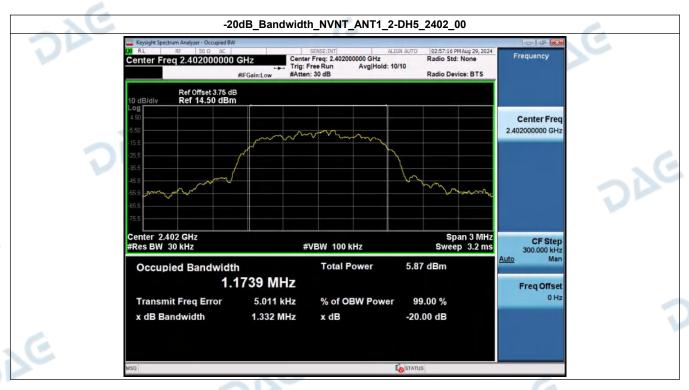


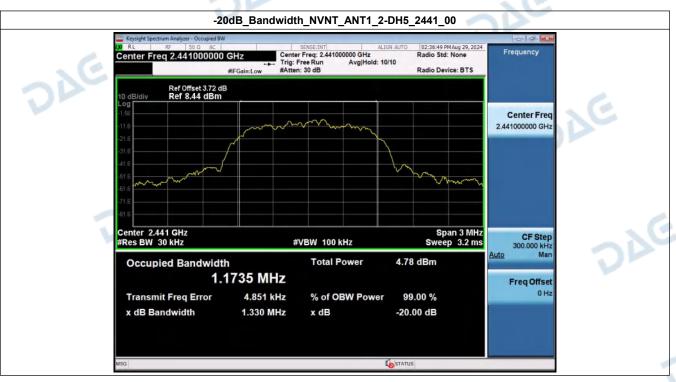
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V1.0



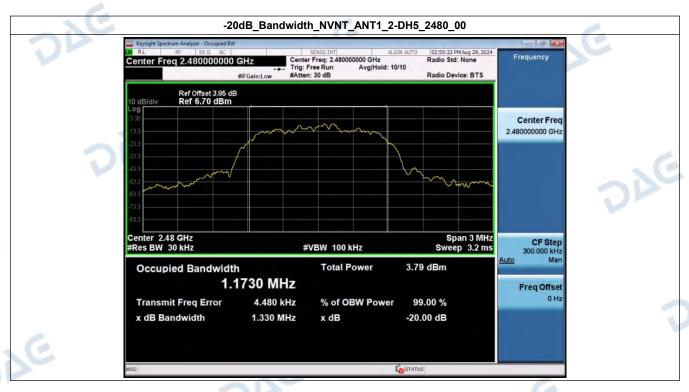


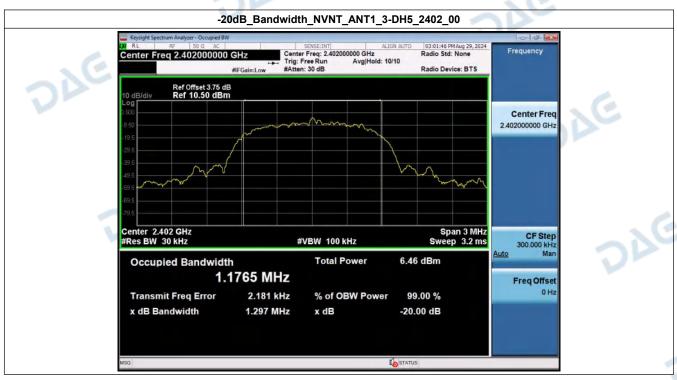
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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V1.0

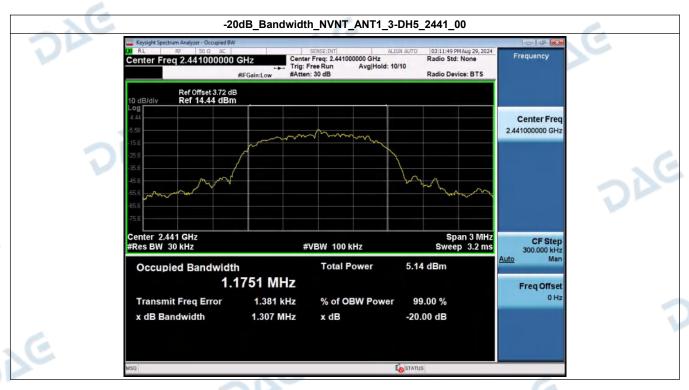


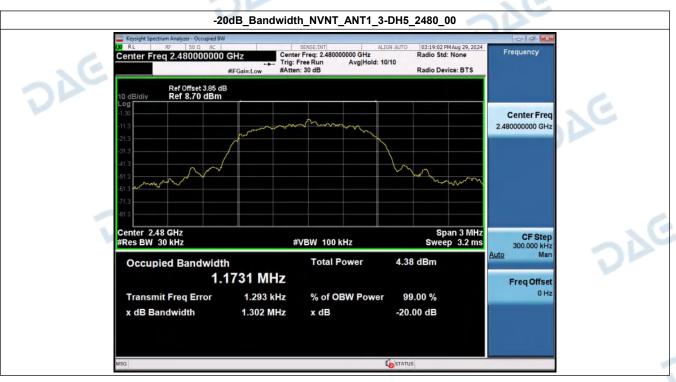


102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

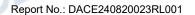


V1.0





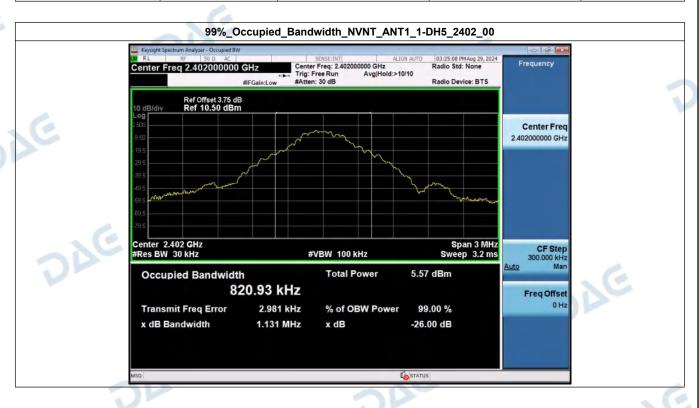
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China





2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.821
NVNT	ANT1	1-DH5	2441.00	0.822
NVNT	ANT1	1-DH5	2480.00	0.825
NVNT	ANT1	2-DH5	2402.00	1.174
NVNT	ANT1	2-DH5	2441.00	1.173
NVNT	ANT1	2-DH5	2480.00	1.174
NVNT	ANT1	3-DH5	2402.00	1.175
NVNT	ANT1	3-DH5	2441.00	1.174
NVNT	ANT1	3-DH5	2480.00	1.175

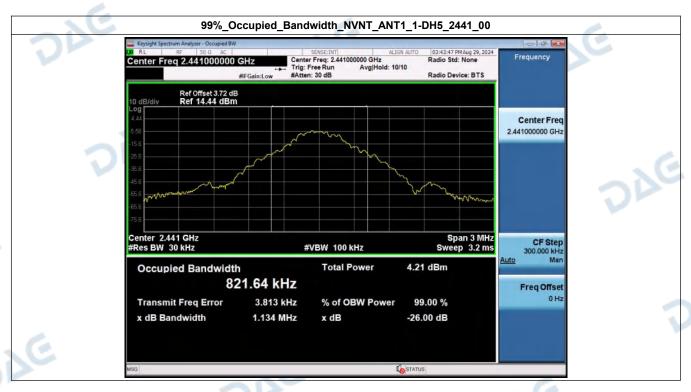


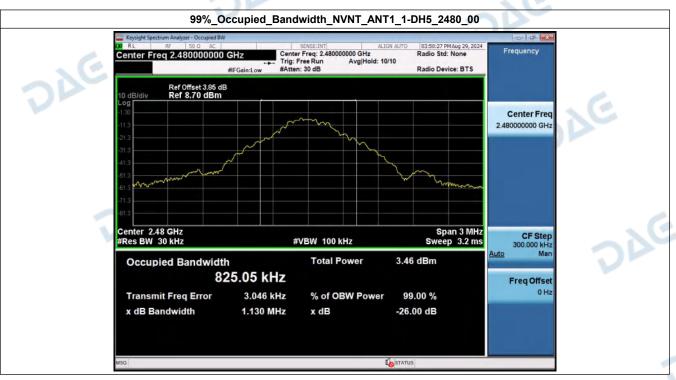
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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V1.0



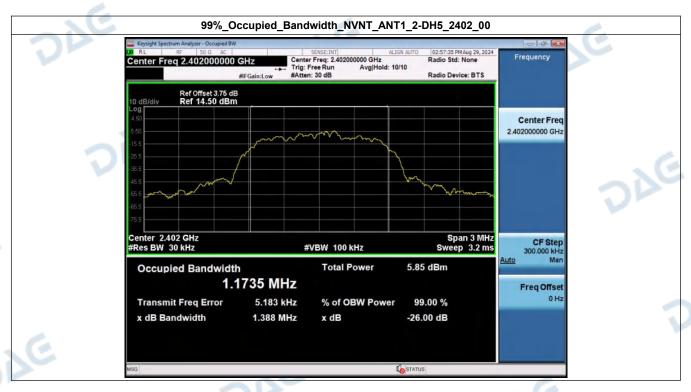


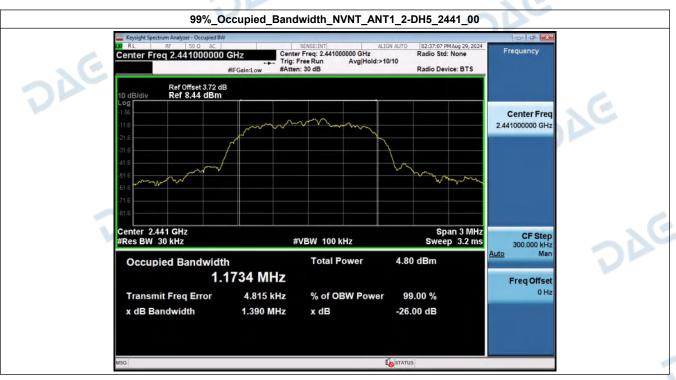
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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V1.0



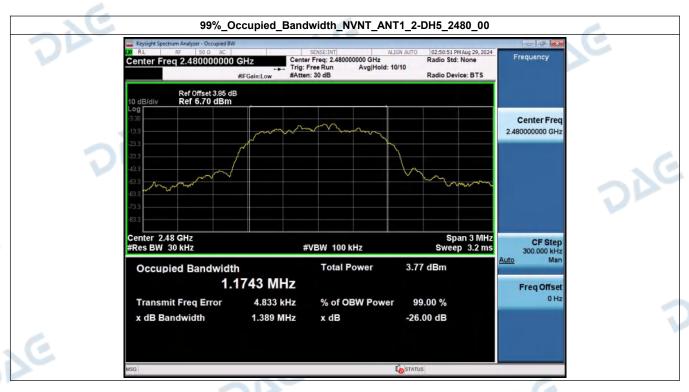


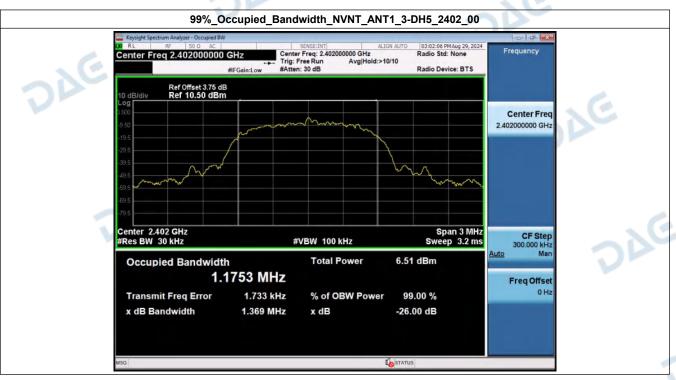
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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V1.0



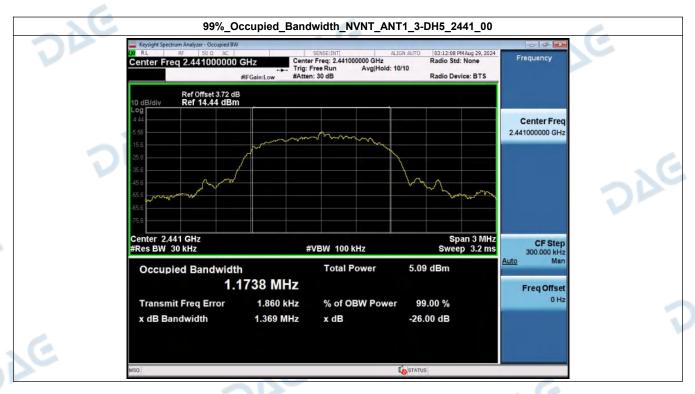


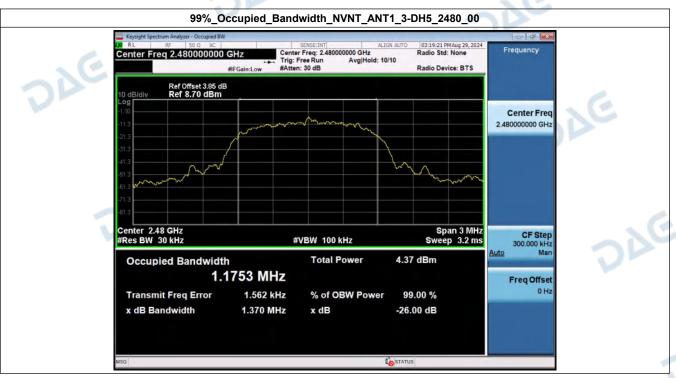
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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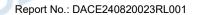
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102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

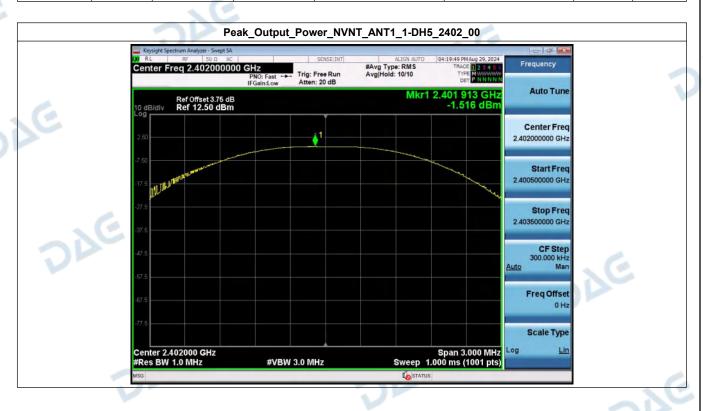
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3. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	-1.52	0.71	1000	Pass
NVNT	ANT1	1-DH5	2441.00	-2.87	0.52	1000	Pass
NVNT	ANT1	1-DH5	2480.00	-3.64	0.43	1000	Pass
NVNT	ANT1	2-DH5	2402.00	0.47	1.11	125	Pass
NVNT	ANT1	2-DH5	2441.00	-0.54	0.88	125	Pass
NVNT	ANT1	2-DH5	2480.00	-1.55	0.70	125	Pass
NVNT	ANT1	3-DH5	2402.00	1.04	1.27	125	Pass
NVNT	ANT1	3-DH5	2441.00	-0.20	0.96	125	Pass
NVNT	ANT1	3-DH5	2480.00	-0.96	0.80	125	Pass

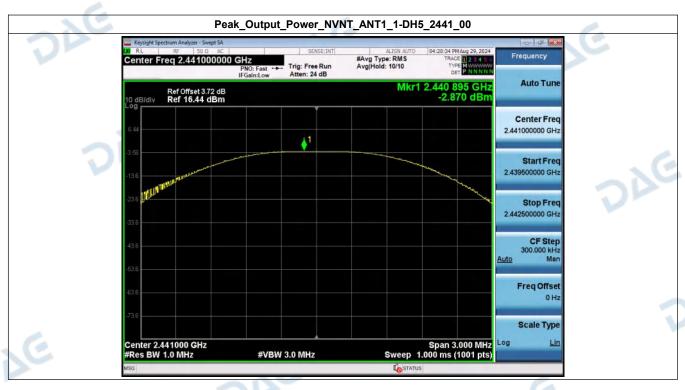


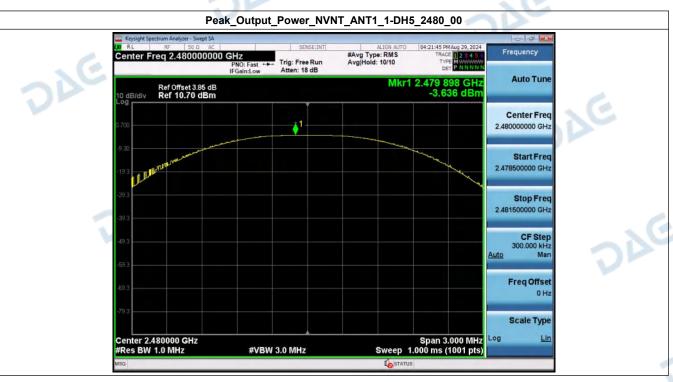
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DAG

V1.0

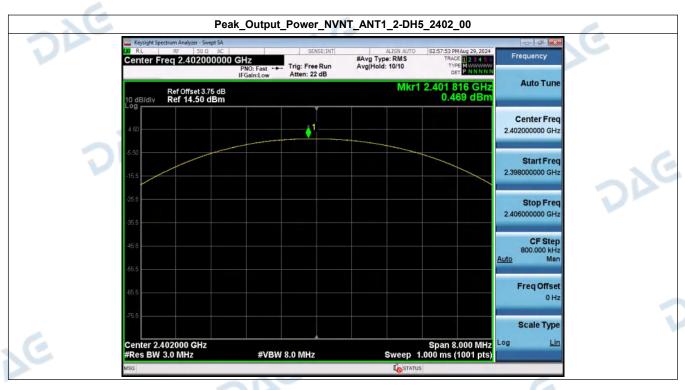


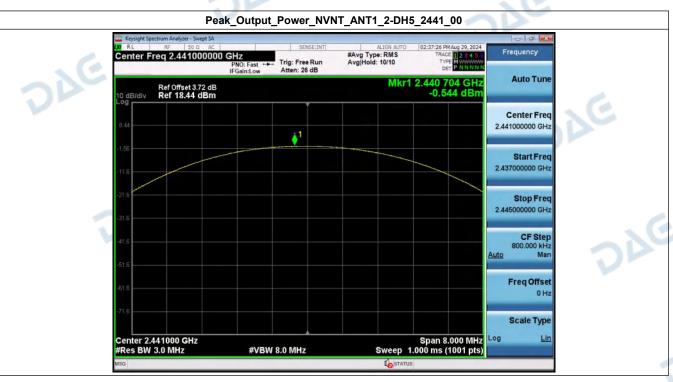




DAG

V1.0



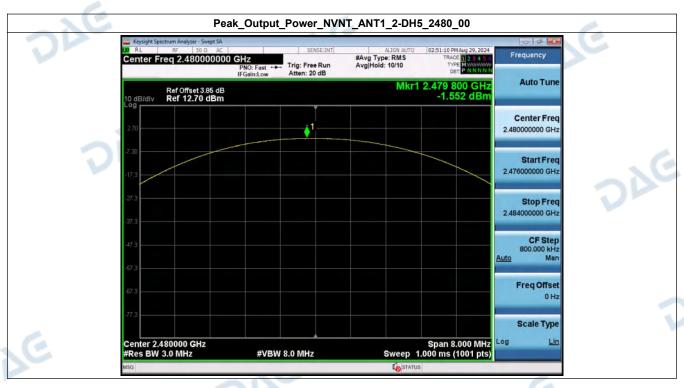


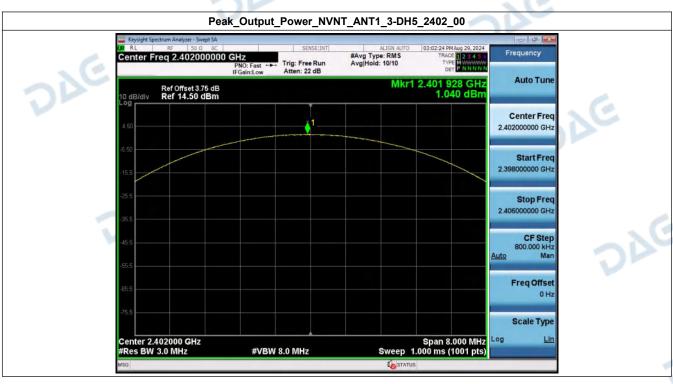
Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 52 of 97



DAG

V1.0

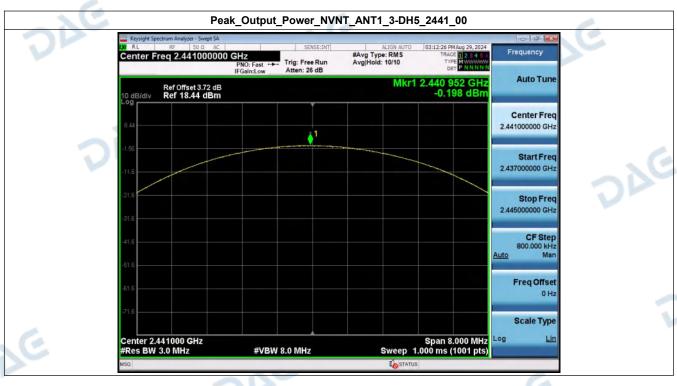


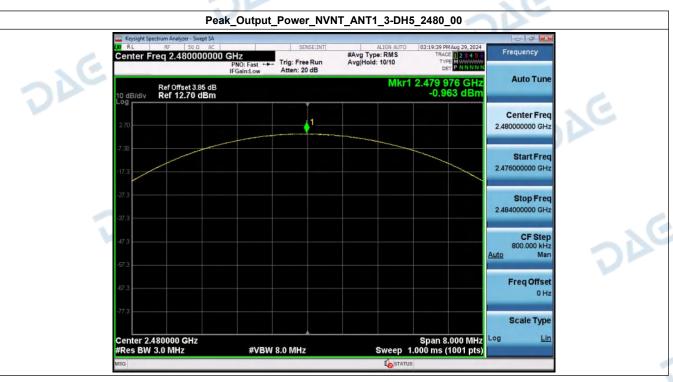




DAG

V1.0





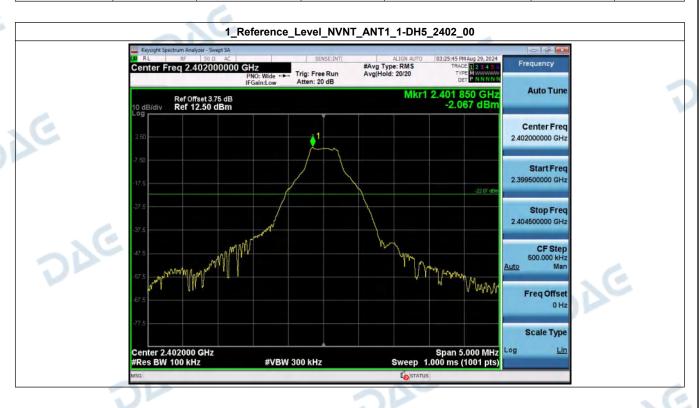
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4. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-49.803	-22.067	Pass
NVNT	ANT1	1-DH5	2441.00	-49.272	-23.402	Pass
NVNT	ANT1	1-DH5	2480.00	-50.053	-24.283	Pass
NVNT	ANT1	2-DH5	2402.00	-51.423	-22.184	Pass
NVNT	ANT1	2-DH5	2441.00	-50.416	-23.284	Pass
NVNT	ANT1	2-DH5	2480.00	-51.631	-24.298	Pass
NVNT	ANT1	3-DH5	2402.00	-51.144	-22.016	Pass
NVNT	ANT1	3-DH5	2441.00	-49.256	-23.372	Pass
NVNT	ANT1	3-DH5	2480.00	-50.752	-24.454	Pass

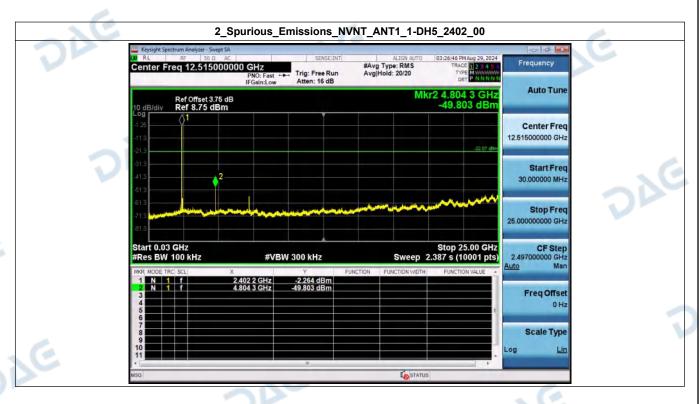


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DAG

V1.0

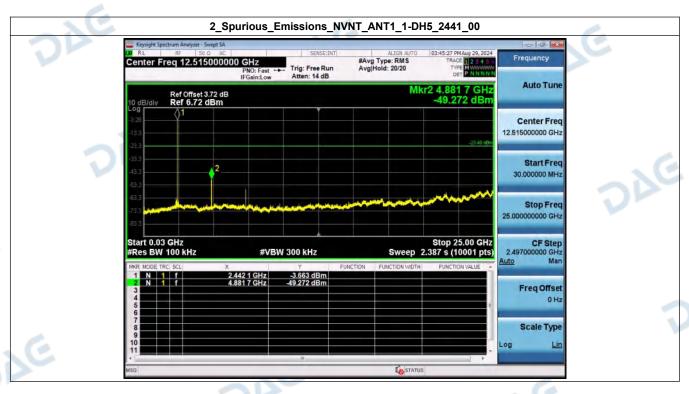


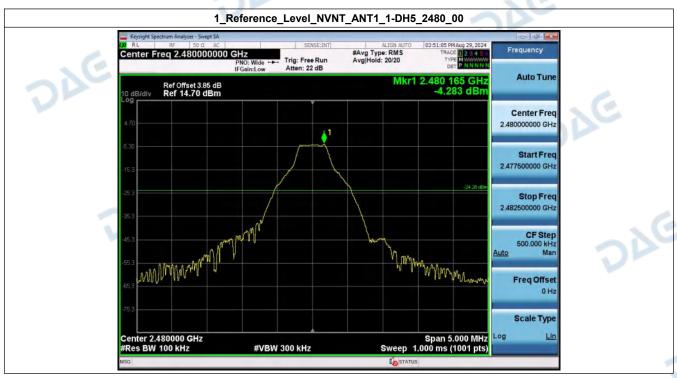




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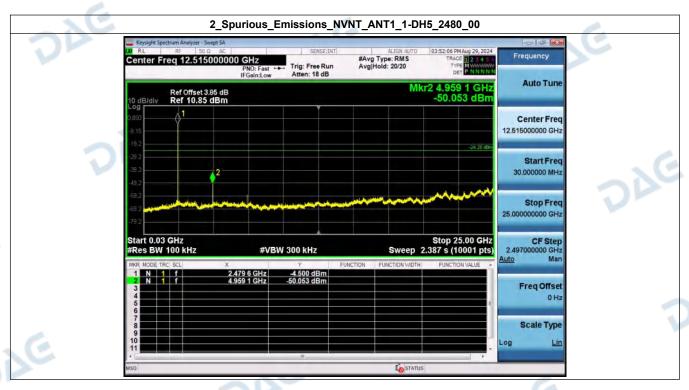


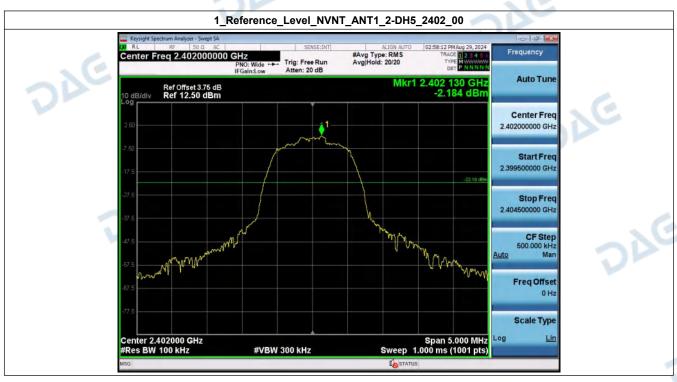
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DAG

V1.0

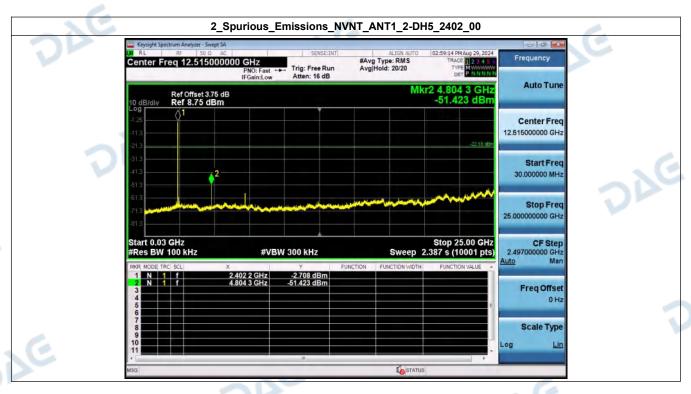


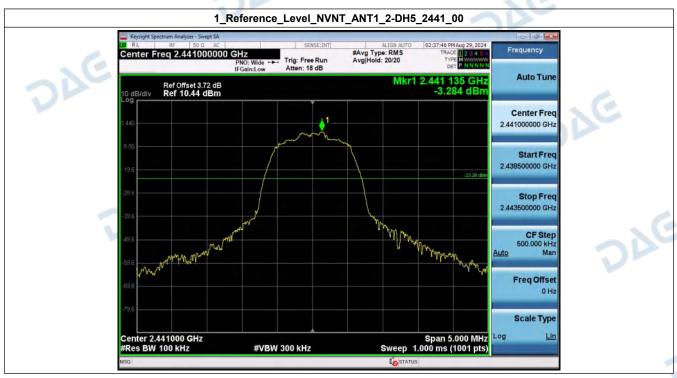




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V1.0

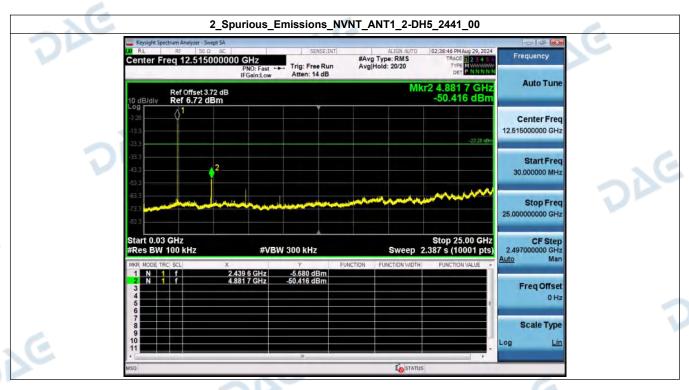


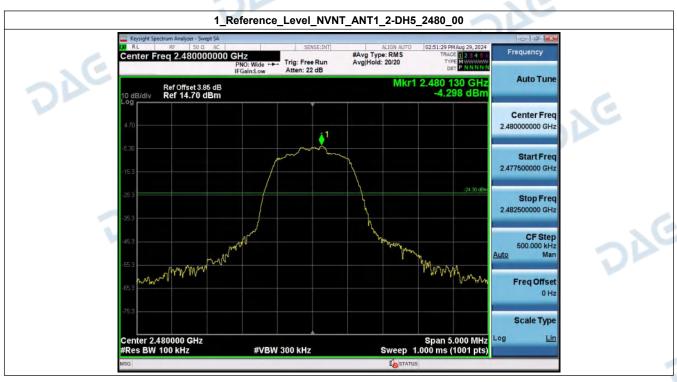




DAG

V1.0

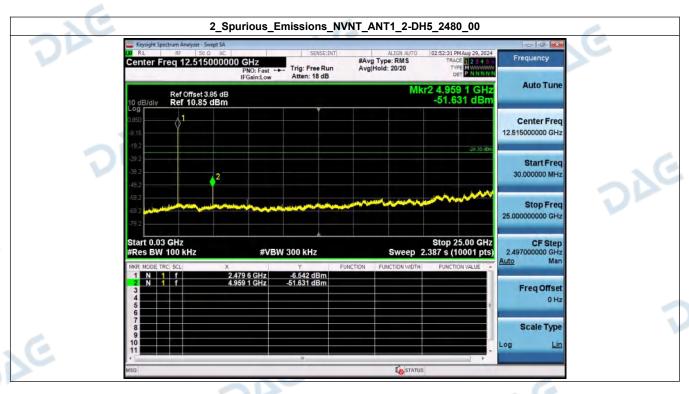


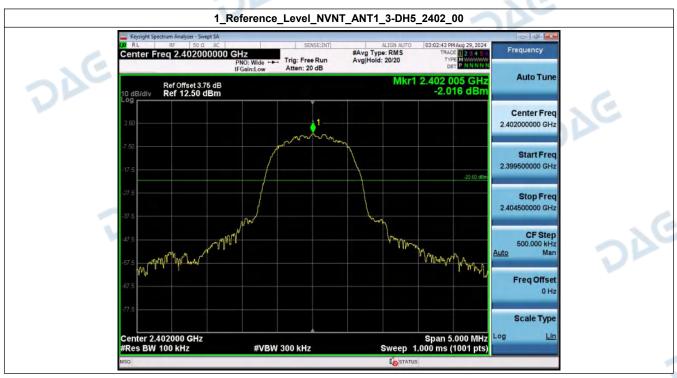




DAG

V1.0

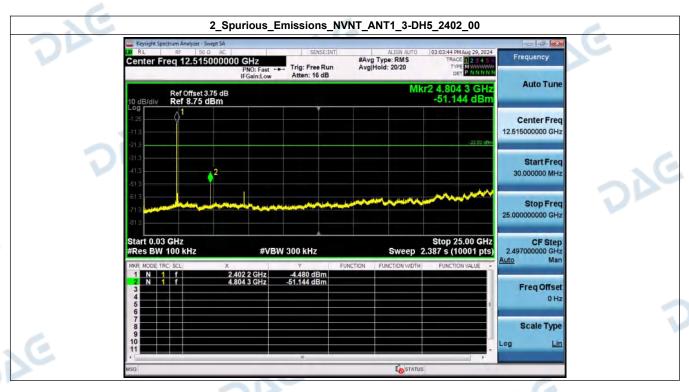






DAG

V1.0



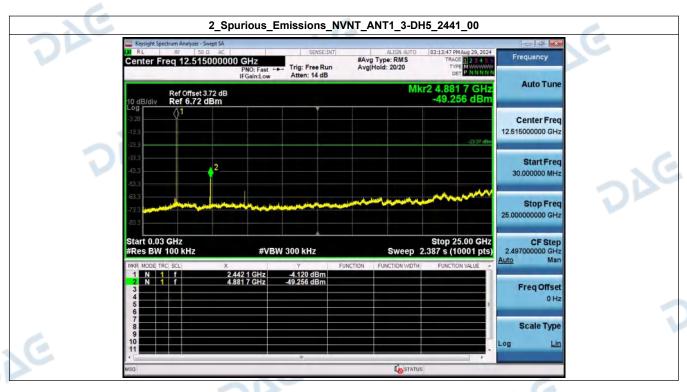


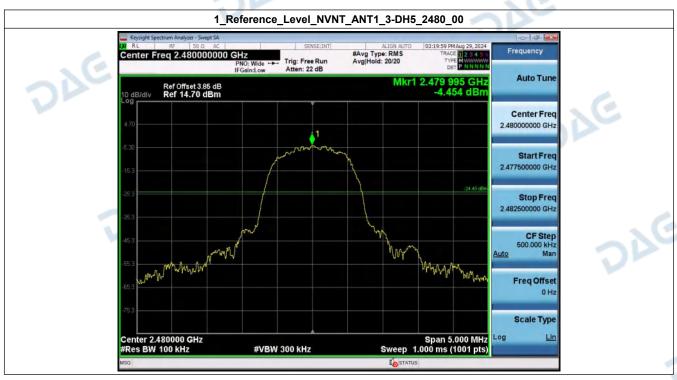
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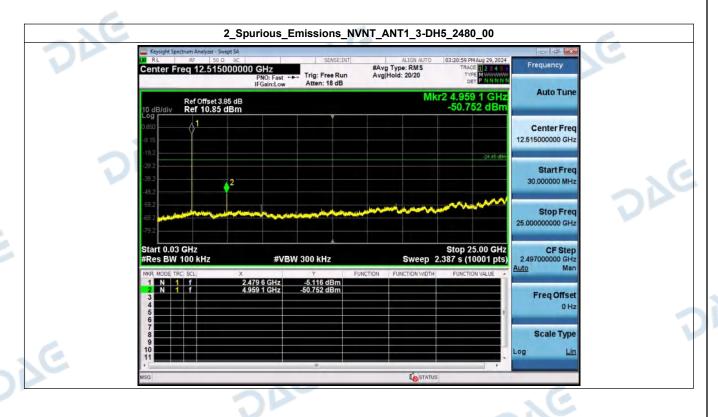
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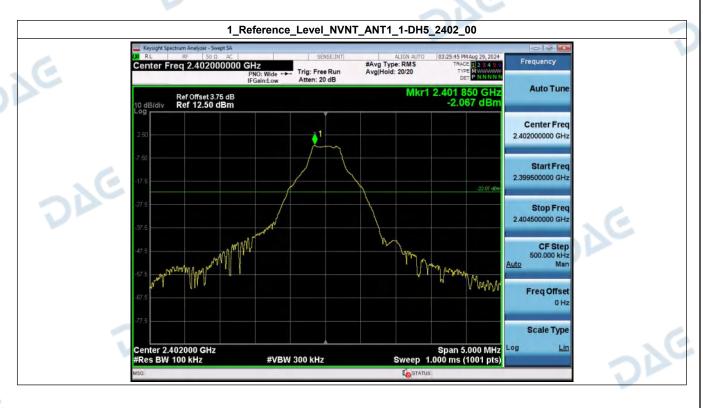
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5. Bandedge

Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-54.353	-22.067	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-61.642	-22.288	Pass
NVNT	ANT1	1-DH5	2480.00	-63.139	-24.283	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-61.371	-22.071	Pass
NVNT	ANT1	2-DH5	2402.00	-54.948	-22.184	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-61.315	-22.106	Pass
NVNT	ANT1	2-DH5	2480.00	-63.789	-24.298	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-62.813	-22.506	Pass
NVNT	ANT1	3-DH5	2402.00	-55.410	-22.016	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-53.056	-22.348	Pass
NVNT	ANT1	3-DH5	2480.00	-64.124	-24.454	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-62.270	-22.480	Pass

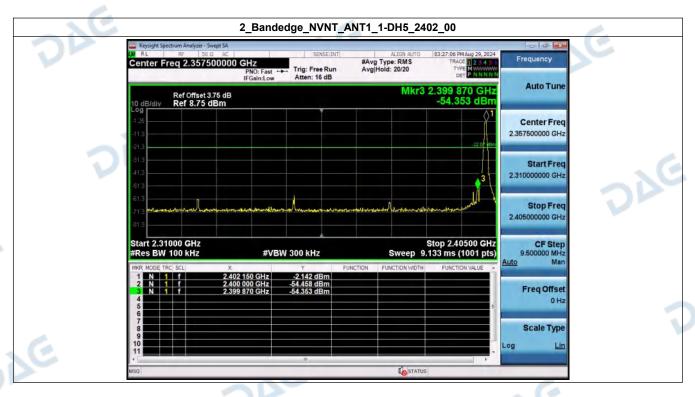


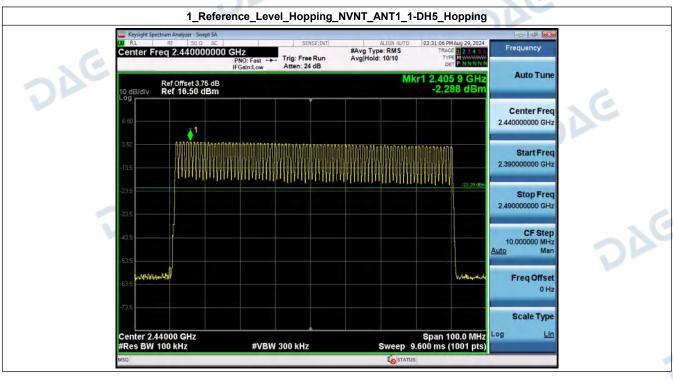
Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 65 of 97



DAG

V1.0

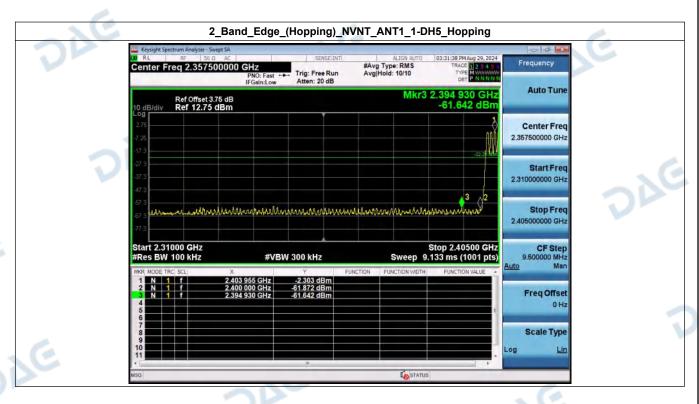






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V1.0



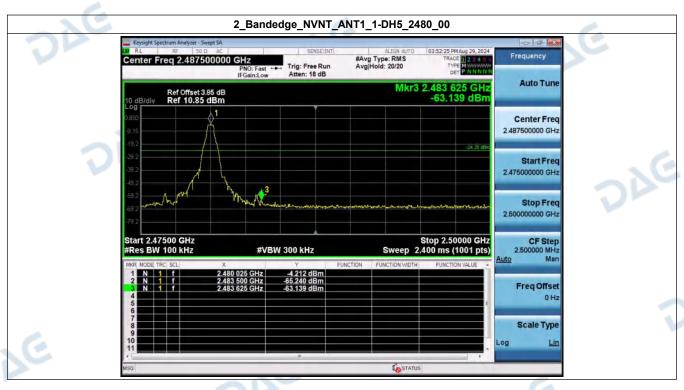


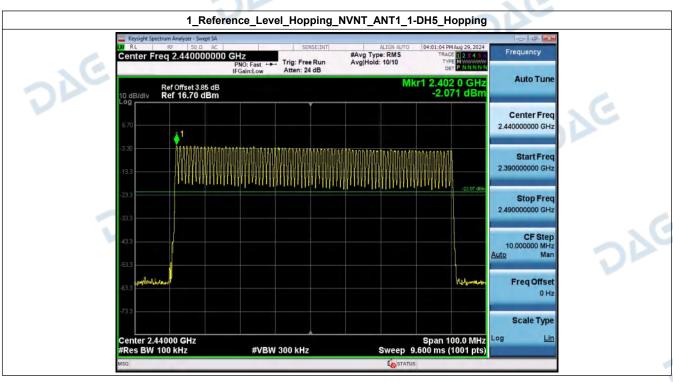
Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 67 of 97



DAG

V1.0



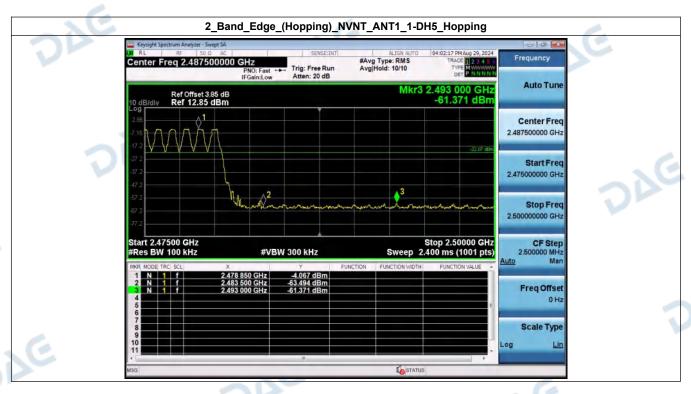


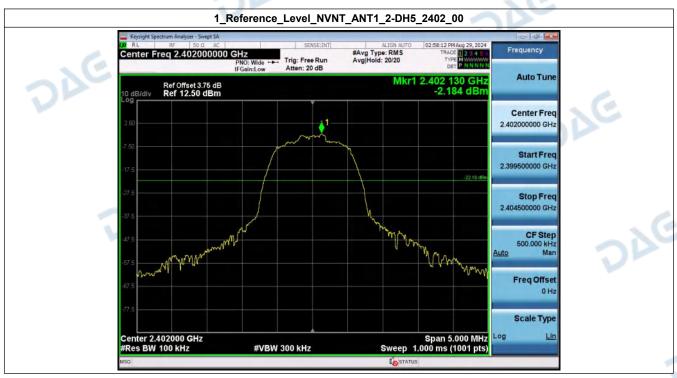
Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 68 of 97



DAG

V1.0



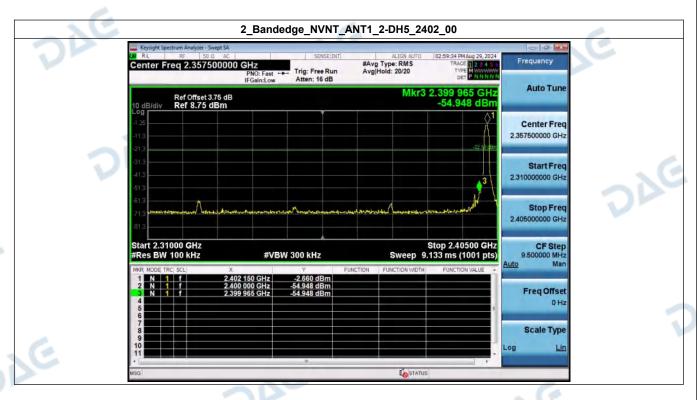


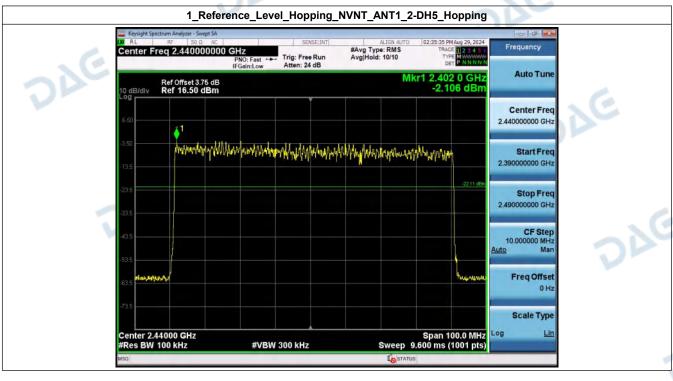
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DAG

V1.0

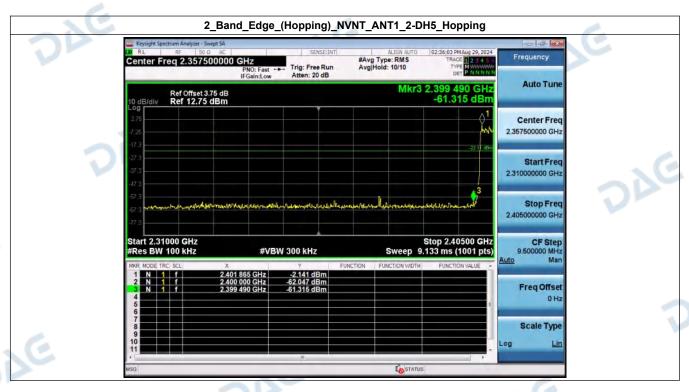


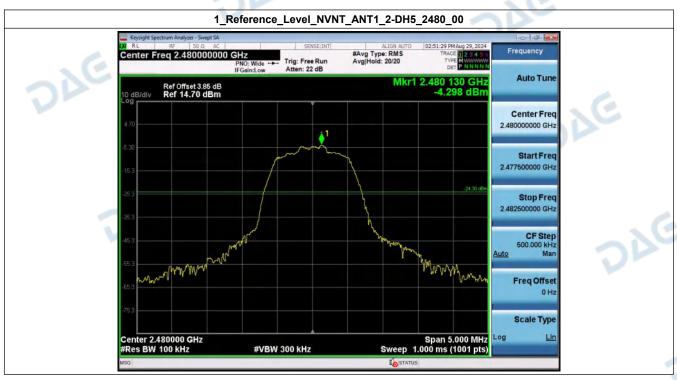




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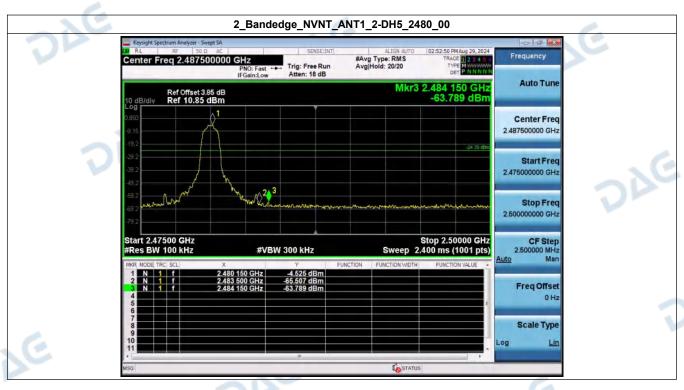


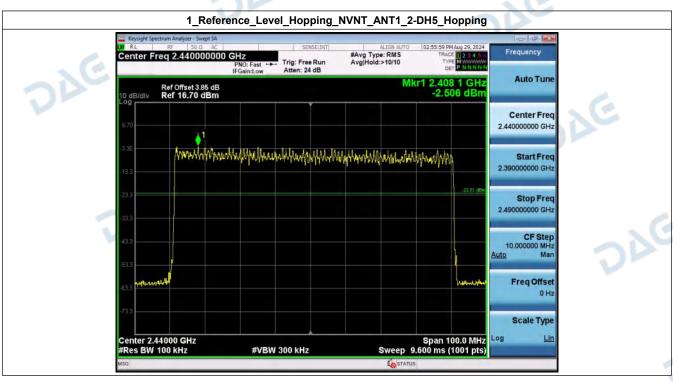
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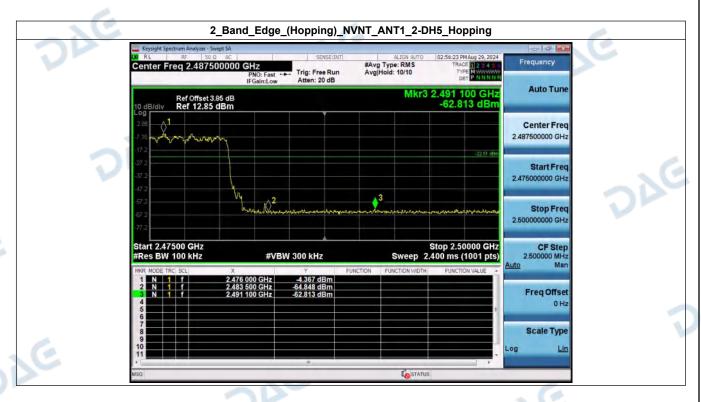




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DAG

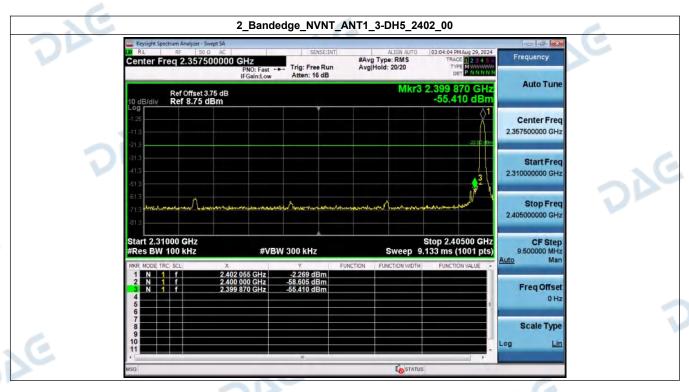


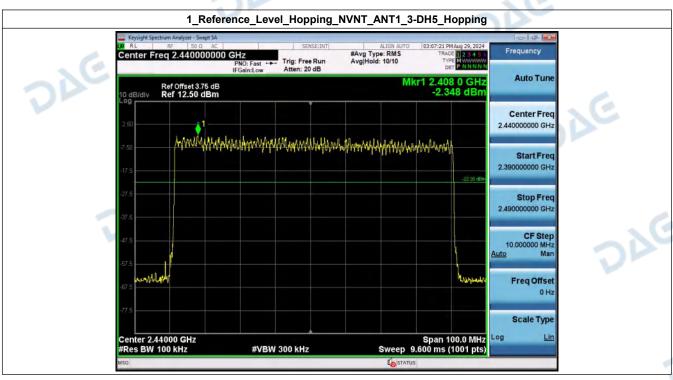




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V1.0

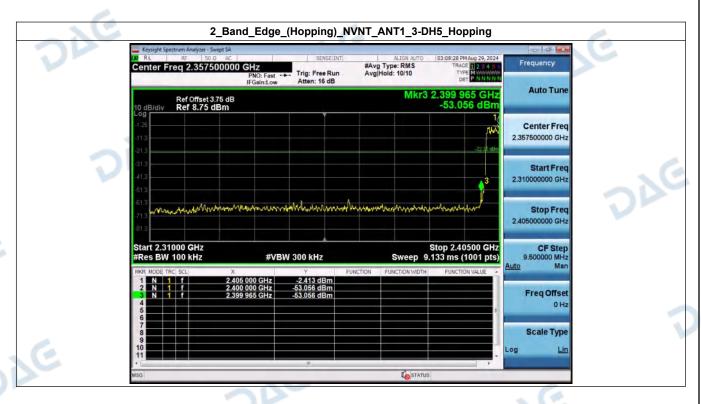




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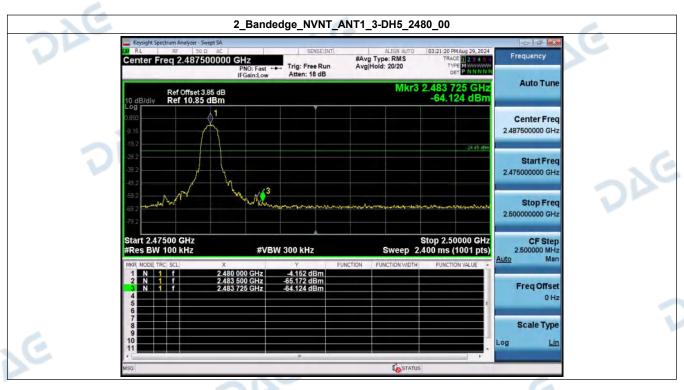
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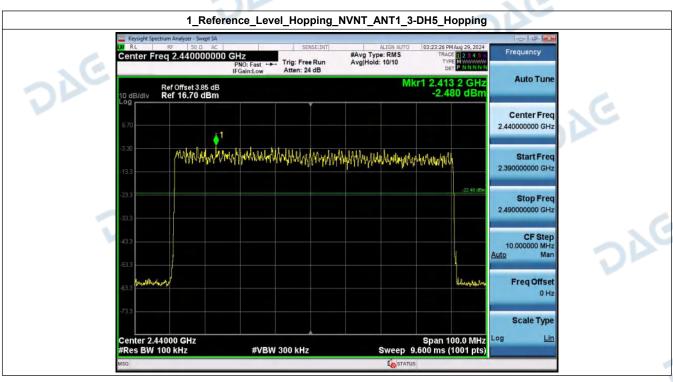






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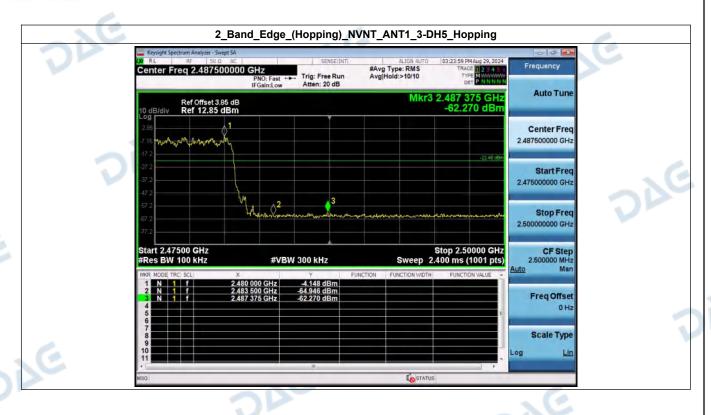
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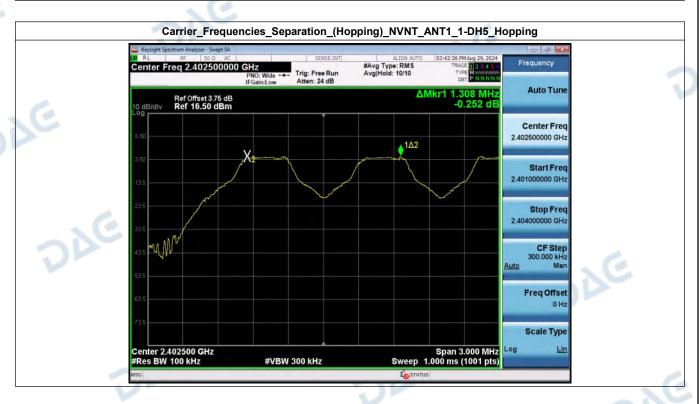
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6. Carrier Frequencies Separation (Hopping)

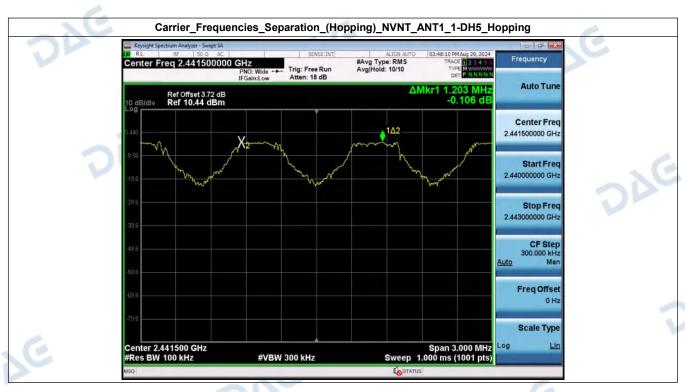
	_		-					
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2401.849	2403.157	1.31	0.938	Pass
NVNT	ANT1	1-DH5	2441.00	2440.861	2442.064	1.20	0.937	Pass
NVNT	ANT1	1-DH5	2480.00	2478.852	2480.154	1.30	0.940	Pass
NVNT	ANT1	2-DH5	2402.00	2402.077	2403.157	1.08	0.888	Pass
NVNT	ANT1	2-DH5	2441.00	2440.987	2442.115	1.13	0.887	Pass
NVNT	ANT1	2-DH5	2480.00	2479.143	2480.109	0.97	0.887	Pass
NVNT	ANT1	3-DH5	2402.00	2402.014	2403.187	1.17	0.865	Pass
NVNT	ANT1	3-DH5	2441.00	2440.999	2441.992	0.99	0.871	Pass
NVNT	ANT1	3-DH5	2480.00	2479.074	2480.025	0.95	0.868	Pass



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DAG







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V1.0



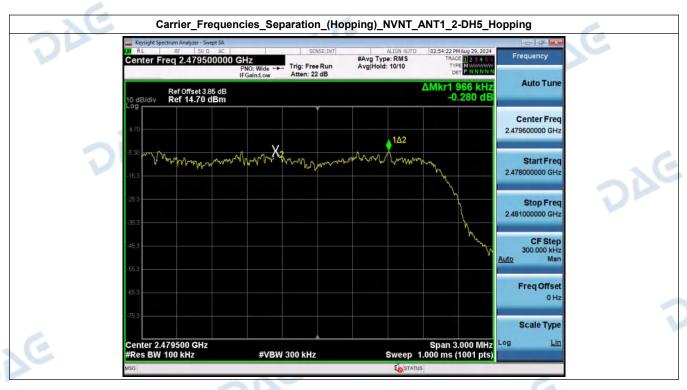


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V1.0

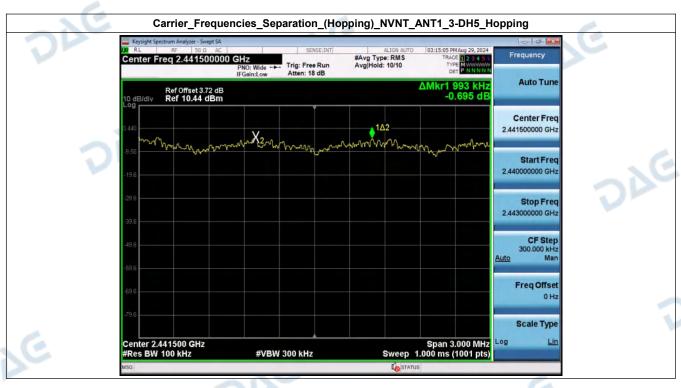




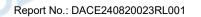
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DIE



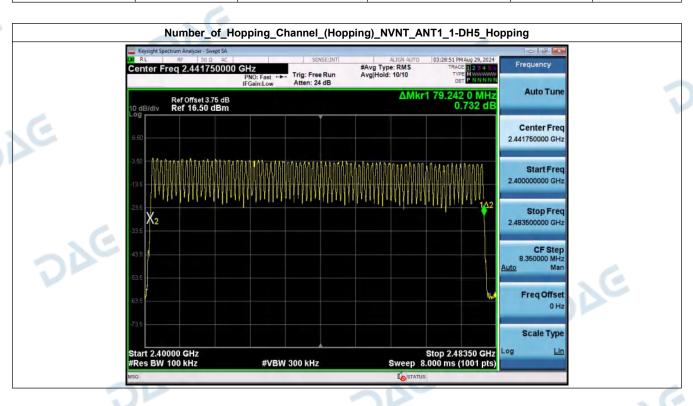






7. Number of Hopping Channel (Hopping)

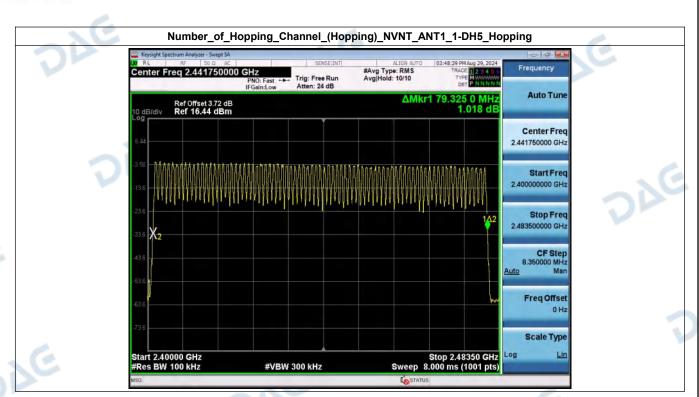
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass



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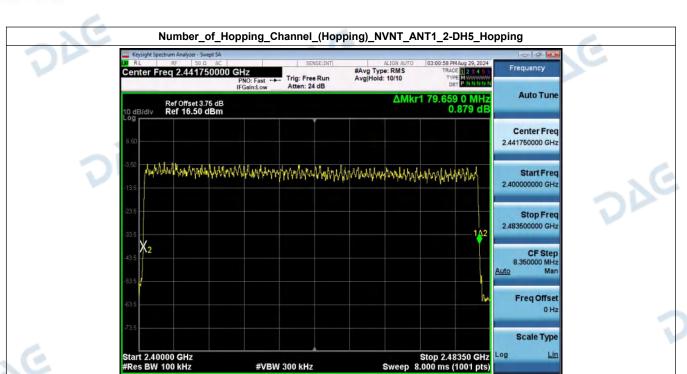
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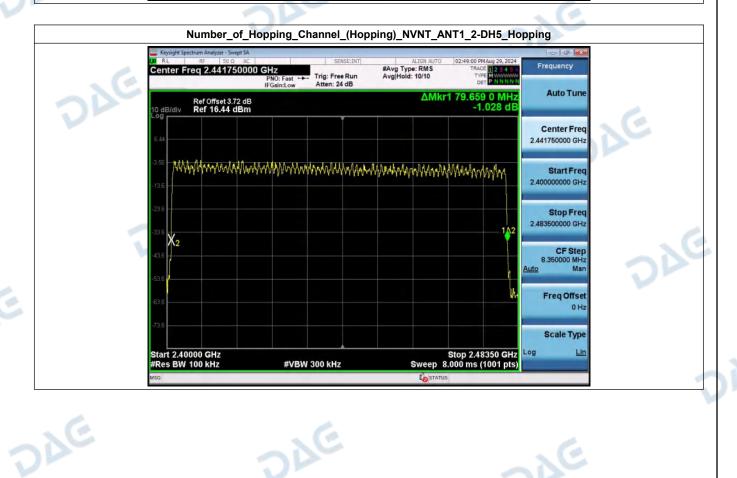






V1.0



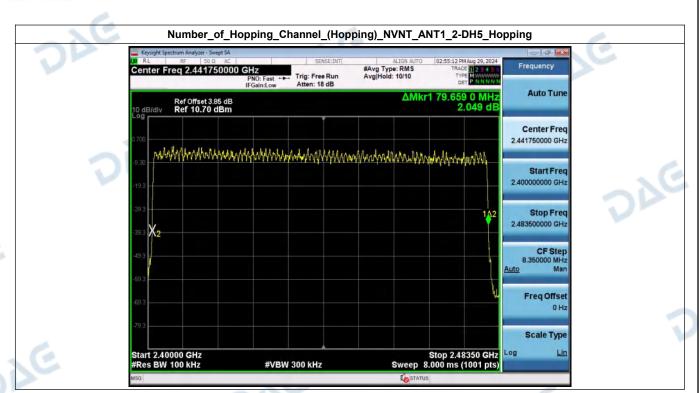


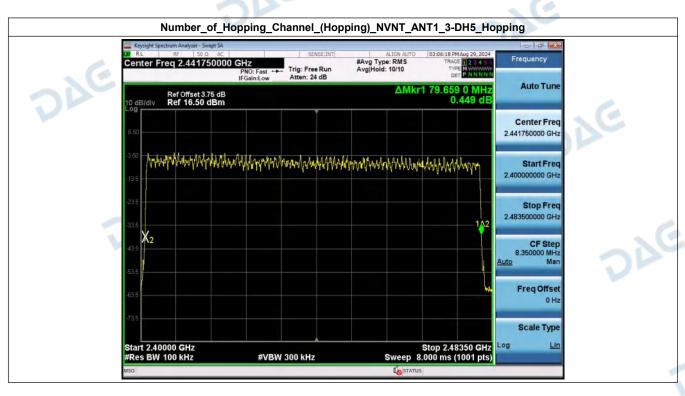
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DAG

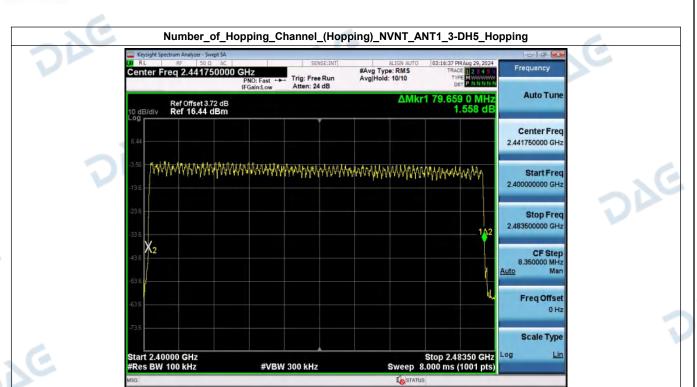
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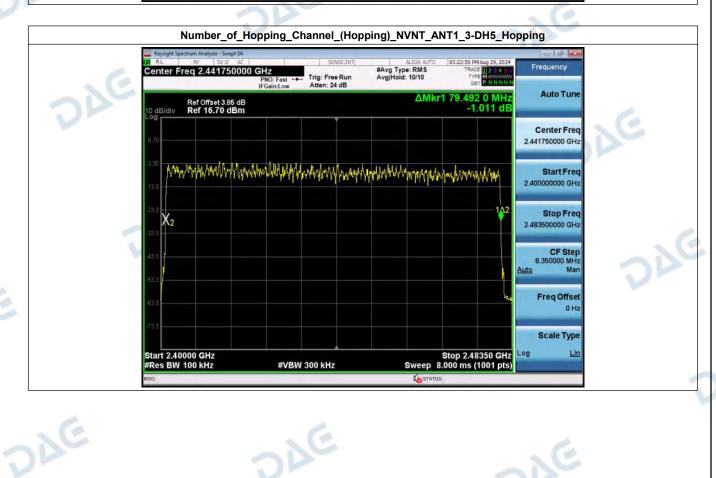






V1.0





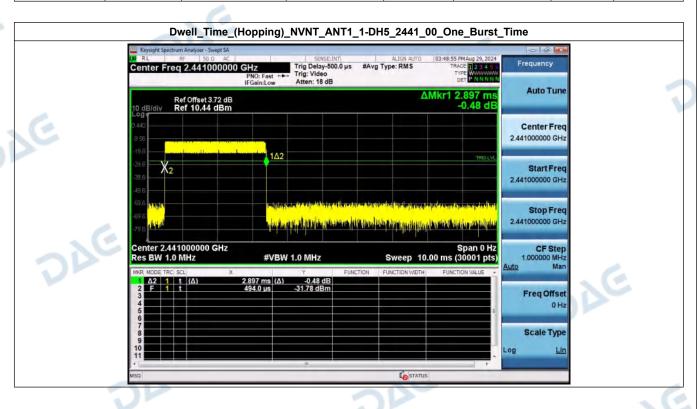
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8. Dwell Time (Hopping)

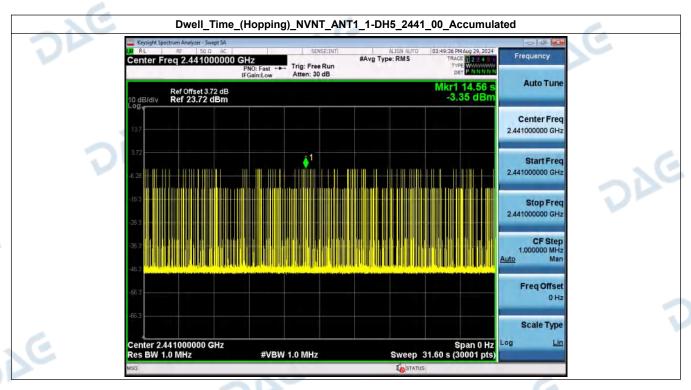
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.897	99.00	286.803	0.40	Pass
NVNT	ANT1	2-DH5	2.904	103.00	299.112	0.40	Pass
NVNT	ANT1	3-DH5	2.904	100.00	290.400	0.40	Pass
NVNT	ANT1	1-DH1	0.393	320.00	125.760	0.40	Pass
NVNT	ANT1	1-DH3	1.652	151.00	249.452	0.40	Pass
NVNT	ANT1	2-DH1	0.405	320.00	129.600	0.40	Pass
NVNT	ANT1	2-DH3	1.656	163.00	269.928	0.40	Pass
NVNT	ANT1	3-DH1	0.406	320.00	129.920	0.40	Pass
NVNT	ANT1	3-DH3	1.656	152.00	251.712	0.40	Pass

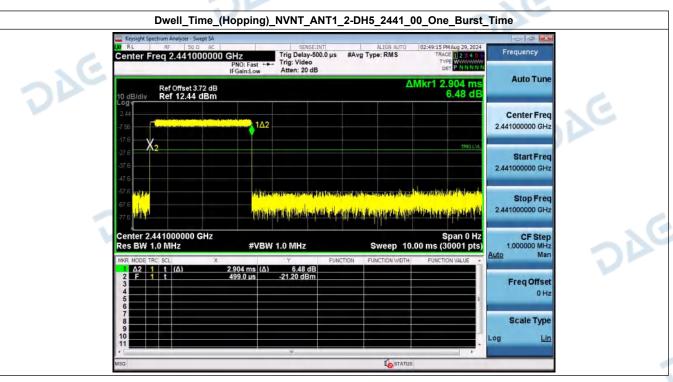


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DAG

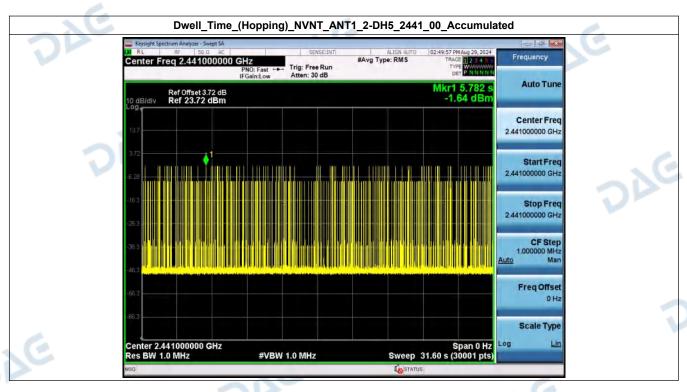


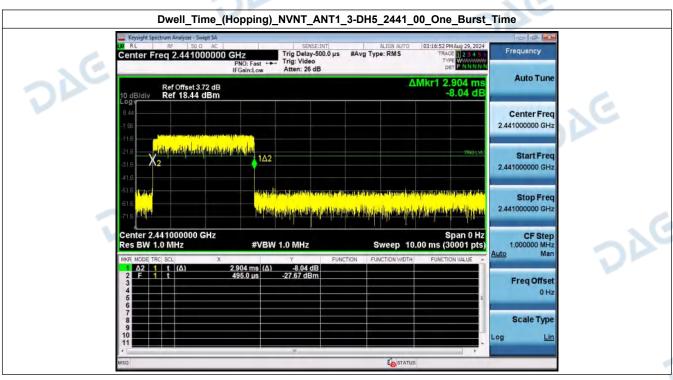




DAG

V1.0

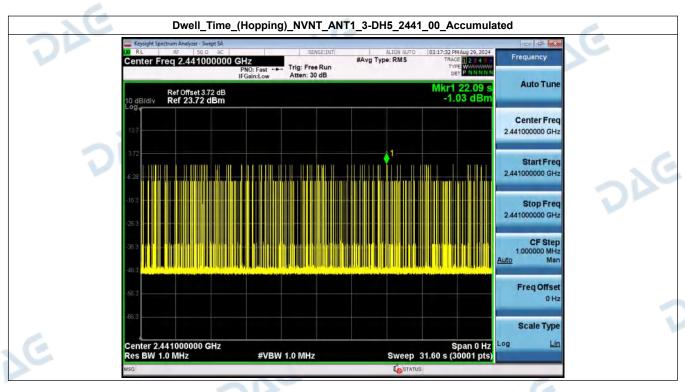


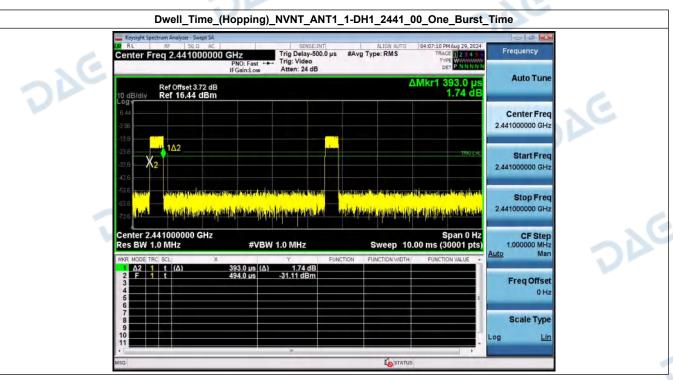


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V1.0

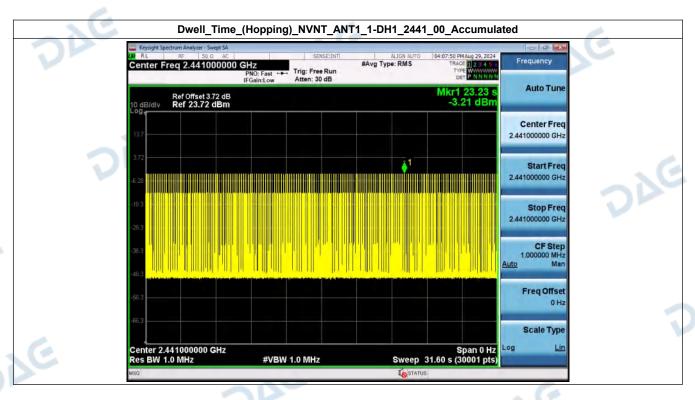


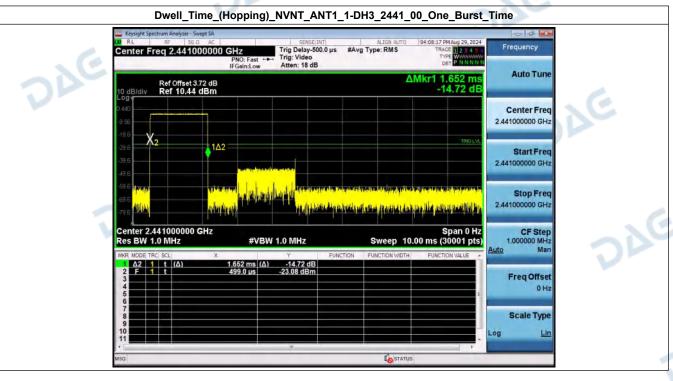


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V1.0

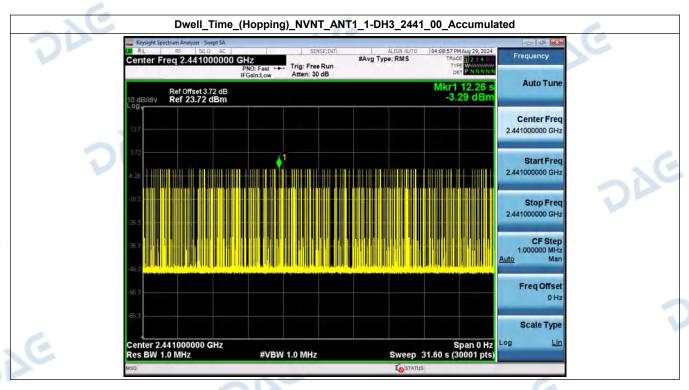


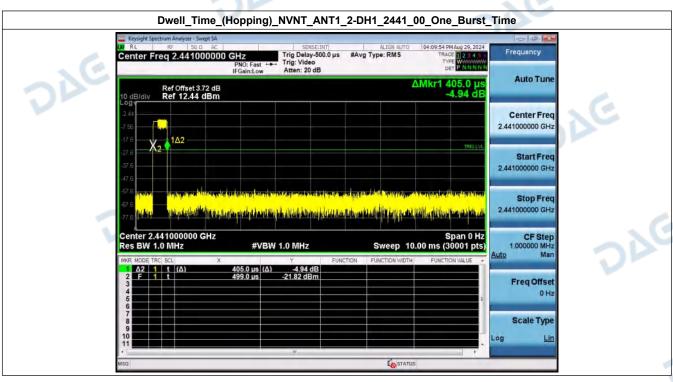


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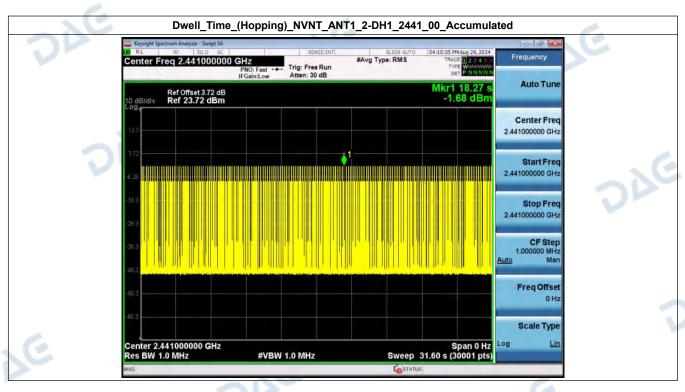
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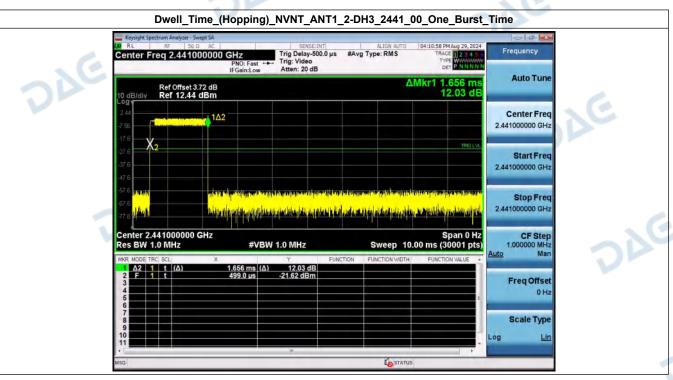






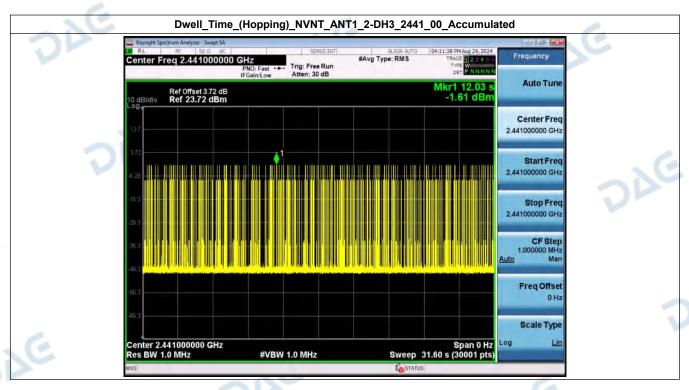
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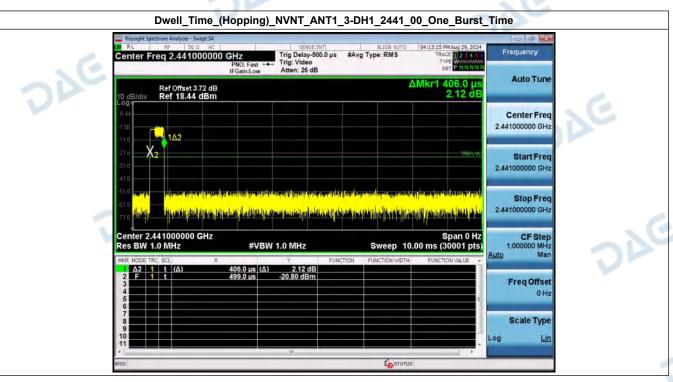




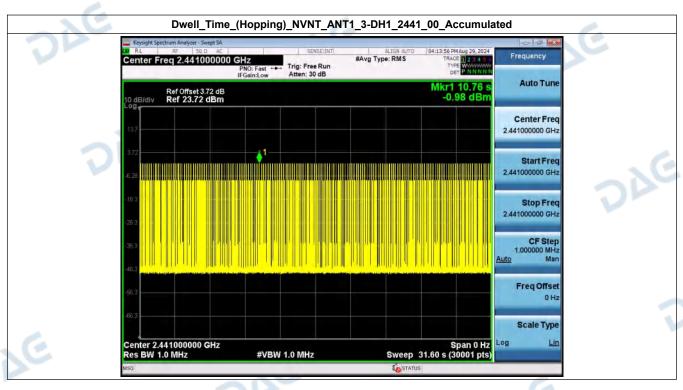
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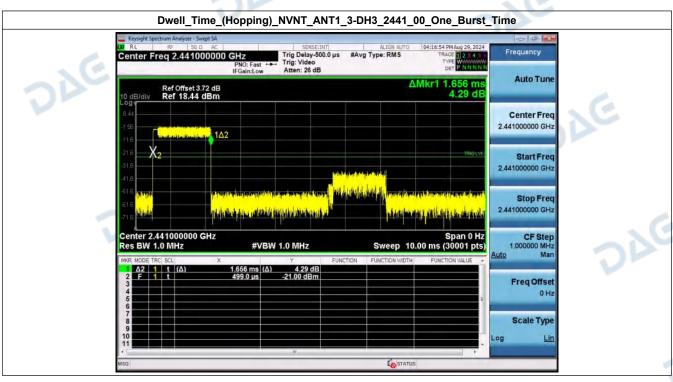












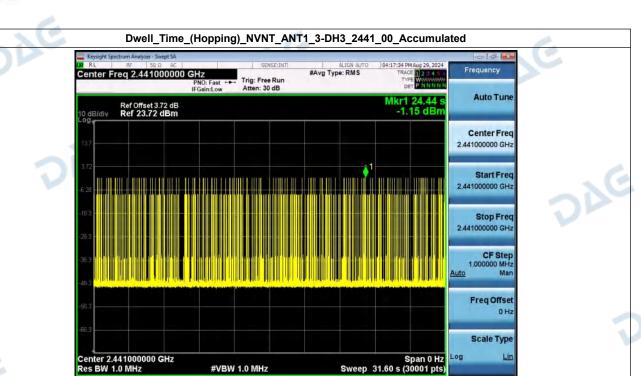
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****** End of Report ********

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#VBW 1.0 MHz

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