

RF TEST REPORT

For

Shenzhen Yundacheng Technology Co., Limited

Product Name: Digital Photo Frame

Test Model(s): TPF103-PW

Report Reference No. : DACE260514002RF001

FCC ID : 2BL3E-TPF103-PW

Applicant's Name : Shenzhen Yundacheng Technology Co., Limited

Address : No.401, building 3, honghengtai industrial park, liantang industrial city,
shangcun community, gongming street, guangming district, shenzhen

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 : 47 CFR Part 15.247

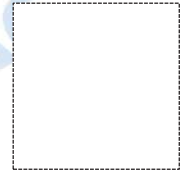
Date of Receipt : May 14, 2026

Date of Test : May 14, 2026 to June 2, 2026

Date of Issue : June 2, 2026

Result : **Pass**

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Apply for company information

Applicant's Name	:	Shenzhen Yundacheng Technology Co., Limited
Address	:	No.401, building 3, honghengtai industrial park, liantang industrial city, shangcun community, gongming street, guangming district, shenzhen
Product Name	:	Digital Photo Frame
Test Model(s)	:	TPF103-PW
Series Model(s)	:	TPF102-PW, TPF156-PW, TX101AW, TX102AW, TX103AW, TX156AW
Test Specification Standard(s)	:	47 CFR Part 15.247

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.

Compiled by:

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June 2, 2026

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June 2, 2026

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June 2, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE260514002RF001	June 2, 2026

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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 C63.10-2020 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020, section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 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 C63.10-2020 section 6.5.4 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 C63.10-2020 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen Yundacheng Technology Co., Limited
Address : No.401, building 3, honghengtai industrial park, liantang industrial city, shangcun community, gongming street, guangming district, shenzhen
Manufacturer : Shenzhen Yundacheng Technology Co., Limited
Address : No.401, building 3, honghengtai industrial park, liantang industrial city, shangcun community, gongming street, guangming district, shenzhen

2.2 Description of Device (EUT)

Product Name:	Digital Photo Frame
Model/Type reference:	TPF103-PW
Series Model:	TPF102-PW, TPF156-PW, TX101AW, TX102AW, TX103AW, TX156AW
Model Difference:	All the model are the same circuit and RF module, only for model name are different. Test sample model: TPF103-PW
Trade Mark:	N/A
Power Supply:	Adapter: Input: 100-240V~50/60Hz 0.4A Max Output: 5.0V~2.0A 10.0W
Operation Frequency:	2412-2462MHz
Number of Channels:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	PCB Antenna
Antenna Gain:	0.68dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	2.4GWIFI TX Mode	Keep the EUT in 802.11b/g/n20/n40 transmitting mode at lowest, middle and highest channel.
Test Environment		Normal Voltage(DC): 5V

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
SWITCHING ADAPTER	GangQi	GQ12-050200-ZU	/

2.5 Operation Frequency each of channel

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2462	10	2457	11	2462	/	/

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	802.11b/g/n(HT20)	802.11n(HT40)
	Frequency (MHz)	Frequency (MHz)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

2.6 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	/	2026-04-14	2027-04-13
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2026-04-14	2027-04-13
Cable	SCHWARZ BECK	/	/	2026-04-14	2027-04-13
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2025-12-02	2026-12-01
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2026-04-14	2027-04-13
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2026-04-14	2027-04-13
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2026-04-14	2027-04-13
Pulse Limiter	CYBERTEK	EM5010A	/	2026-04-14	2027-04-13
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

Power Spectral Density

Emissions in non-restricted frequency bands

6dB Bandwidth

Maximum Conducted Output Power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information Technology(she nzen) Co.,Ltd.	RTS-01	V1.0.0	/	/
RF Sensor Unit	Tachoy Information Technology(she nzen) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2026-04-14	2027-04-13
Vector Signal Generator	Keysight	N5181A	MY50143455	2025-12-02	2026-12-01
Signal Generator	Keysight	N5182A	MY48180415	2025-12-02	2026-12-01
Spectrum Analyzer	Keysight	N9020A	MY53420323	2025-12-02	2026-12-01

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

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2026-04-14	2027-04-13
Cable(LF)#2	Schwarzbeck	/	/	2026-04-13	2027-04-12
Cable(LF)#1	Schwarzbeck	/	/	2026-04-14	2027-04-13
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2026-04-14	2027-04-13
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2026-04-14	2027-04-13
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2026-04-14	2027-04-13
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2026-04-14	2027-04-13
Wideband radio communication tester	R&S	CMW500	113410	2026-04-14	2027-04-13
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2026-04-14	2027-04-13
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2026-04-14	2027-04-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2026-04-14	2027-04-13
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2026-04-29	2028-04-28

2.7 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	$\pm 3.41\text{dB}$
Occupied Bandwidth	$\pm 3.63\%$
RF conducted power	$\pm 0.733\text{dB}$
RF power density	$\pm 0.234\%$
Conducted Spurious emissions	$\pm 1.98\text{dB}$
Radiated Emission (Above 1GHz)	$\pm 5.46\text{dB}$
Radiated Emission (Below 1GHz)	$\pm 5.79\text{dB}$
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 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.
Test Method:	---

3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

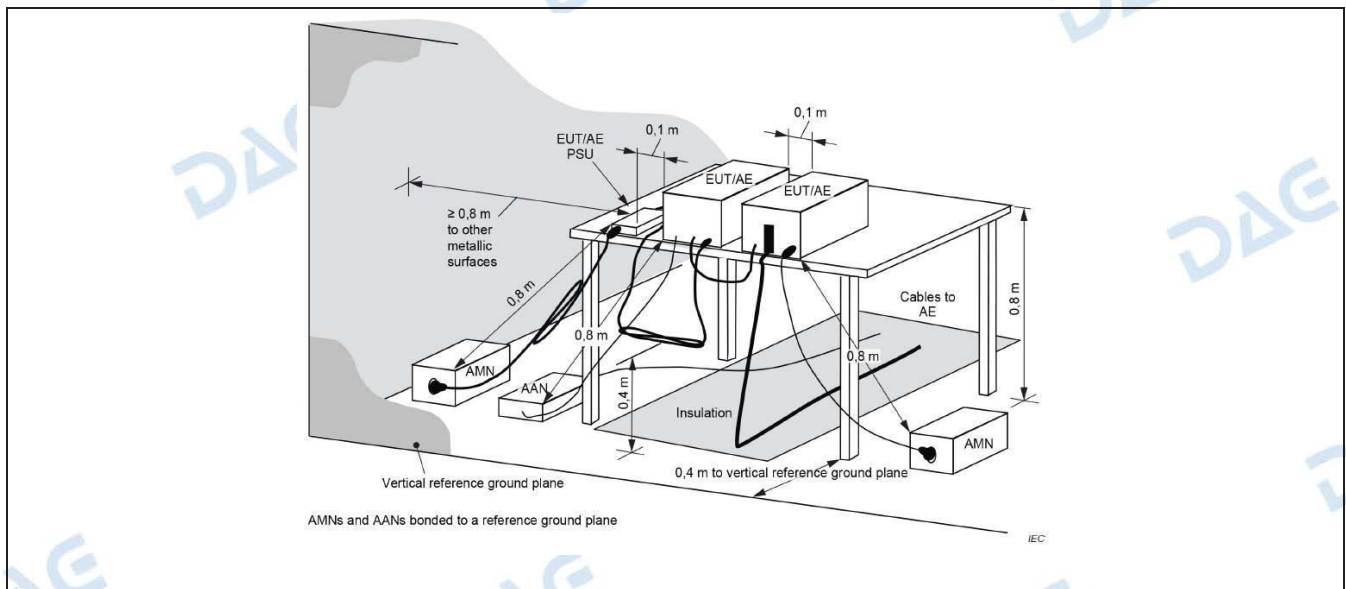
4.1 Conducted Emission at AC power line

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 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

4.1.1 E.U.T. Operation:

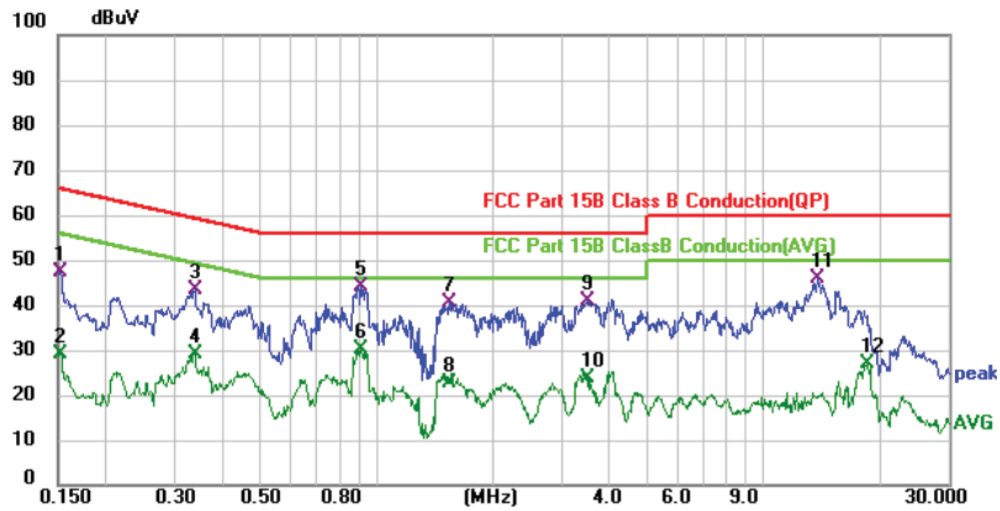
Operating Environment:					
Temperature:	22.4 °C	Humidity:	53 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

4.1.2 Test Setup Diagram:



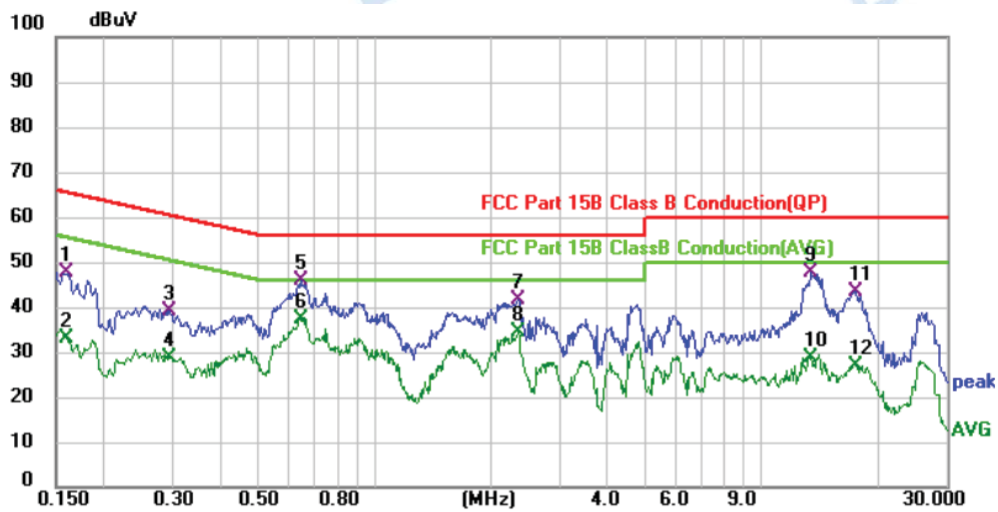
4.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1524	37.25	10.11	47.36	65.87	-18.51	QP	
2		0.1524	18.94	10.11	29.05	55.87	-26.82	AVG	
3		0.3379	33.36	10.09	43.45	59.25	-15.80	QP	
4		0.3379	19.12	10.09	29.21	49.25	-20.04	AVG	
5	*	0.9180	34.01	10.10	44.11	56.00	-11.89	QP	
6		0.9180	20.06	10.10	30.16	46.00	-15.84	AVG	
7		1.5460	30.55	10.05	40.60	56.00	-15.40	QP	
8		1.5460	12.47	10.05	22.52	46.00	-23.48	AVG	
9		3.5020	30.62	10.11	40.73	56.00	-15.27	QP	
10		3.5020	13.81	10.11	23.92	46.00	-22.08	AVG	
11		13.7300	35.35	10.45	45.80	60.00	-14.20	QP	
12		18.4900	16.53	10.57	27.10	50.00	-22.90	AVG	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1604	37.52	10.10	47.62	65.44	-17.82	QP	
2		0.1604	22.95	10.10	33.05	55.44	-22.39	AVG	
3		0.2940	29.17	10.09	39.26	60.41	-21.15	QP	
4		0.2940	18.63	10.09	28.72	50.41	-21.69	AVG	
5		0.6460	35.64	10.10	45.74	56.00	-10.26	QP	
6	*	0.6460	27.24	10.10	37.34	46.00	-8.66	AVG	
7		2.3460	31.45	10.02	41.47	56.00	-14.53	QP	
8		2.3460	24.44	10.02	34.46	46.00	-11.54	AVG	
9		13.4500	37.34	10.44	47.78	60.00	-12.22	QP	
10		13.4500	18.34	10.44	28.78	50.00	-21.22	AVG	
11		17.4780	32.98	10.54	43.52	60.00	-16.48	QP	
12		17.4780	16.47	10.54	27.01	50.00	-22.99	AVG	

NOTE:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor, Over=Limit- Measurement

4.2 6dB Bandwidth

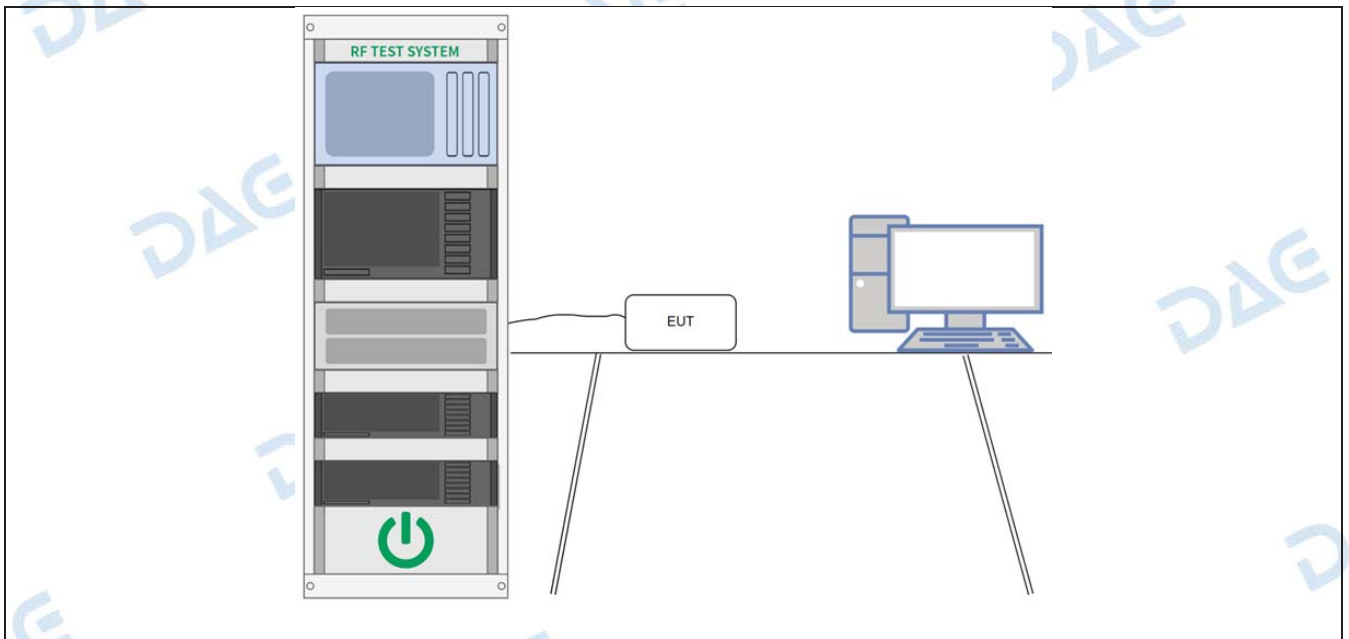
Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing 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 “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	51 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.2.2 Test Setup Diagram:

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4.2.3 Test Data:

Please Refer to Appendix for Details.

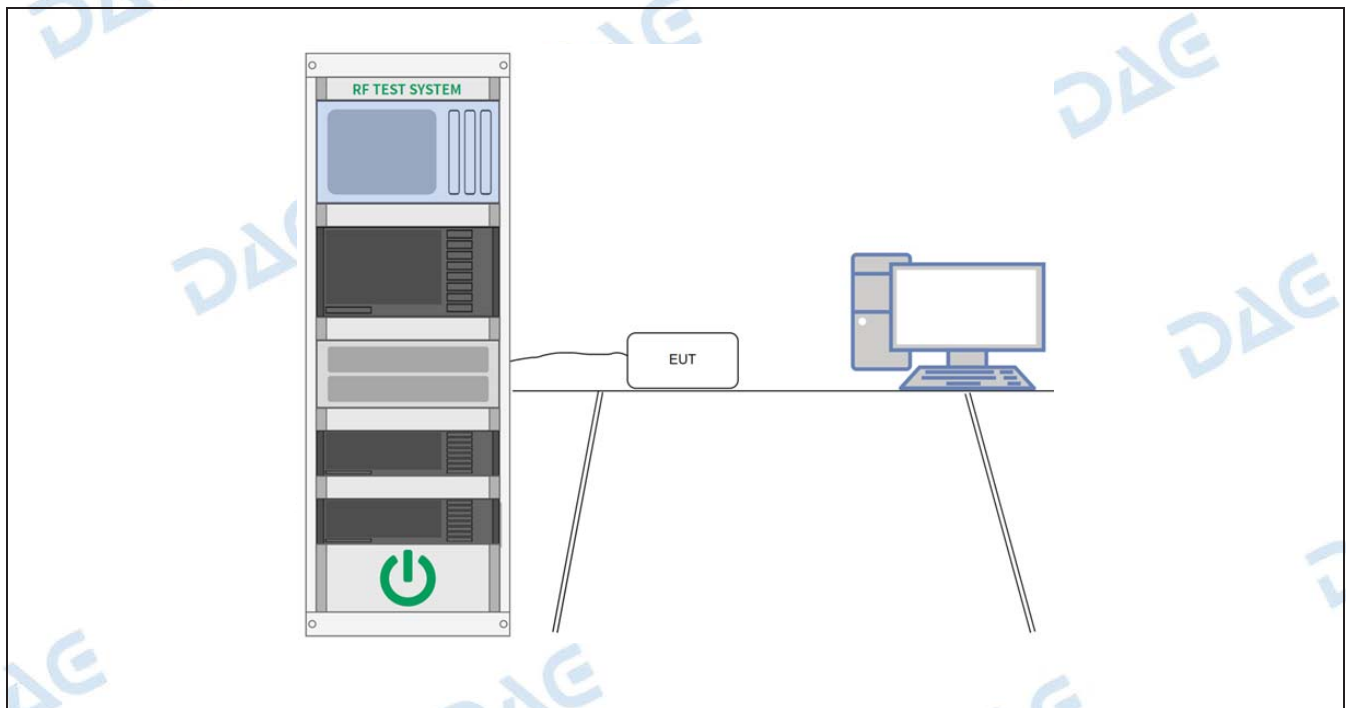
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020, section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.2 Maximum conducted (average) output power

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.5 °C	Humidity:	47 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

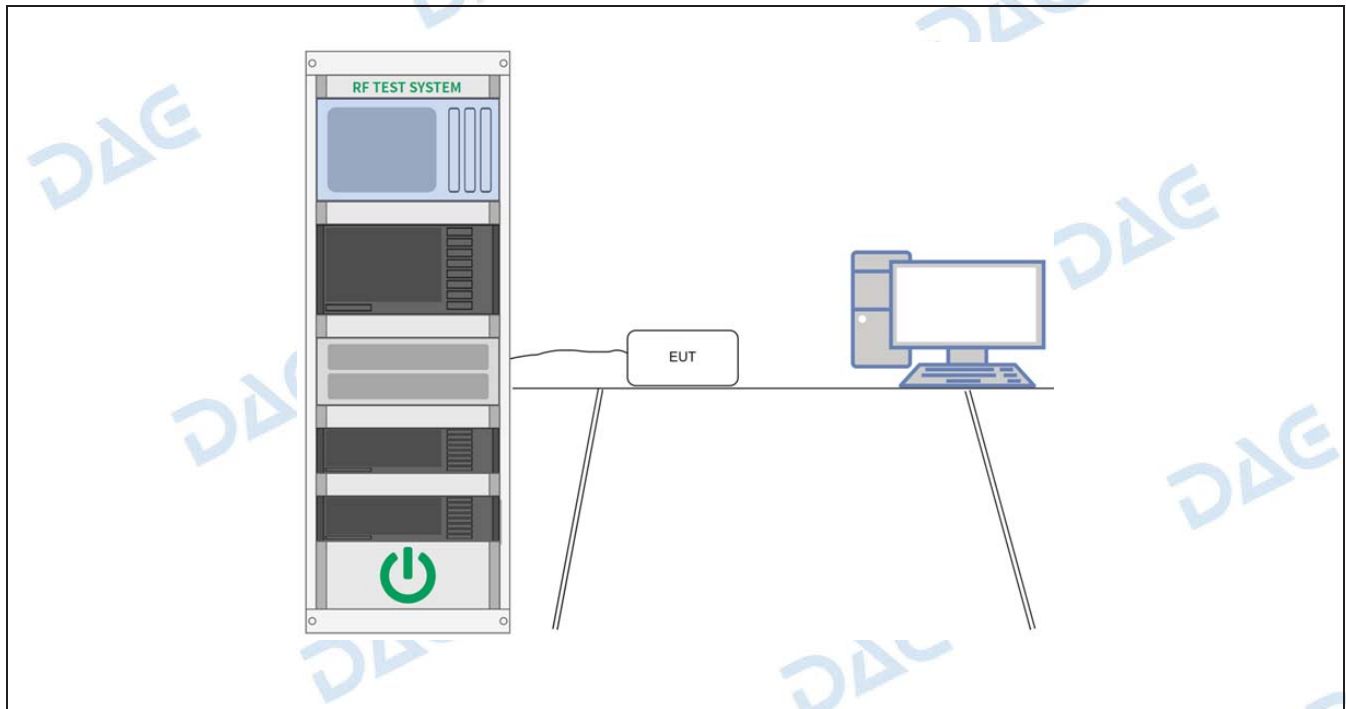
4.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.5 °C	Humidity:	55 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

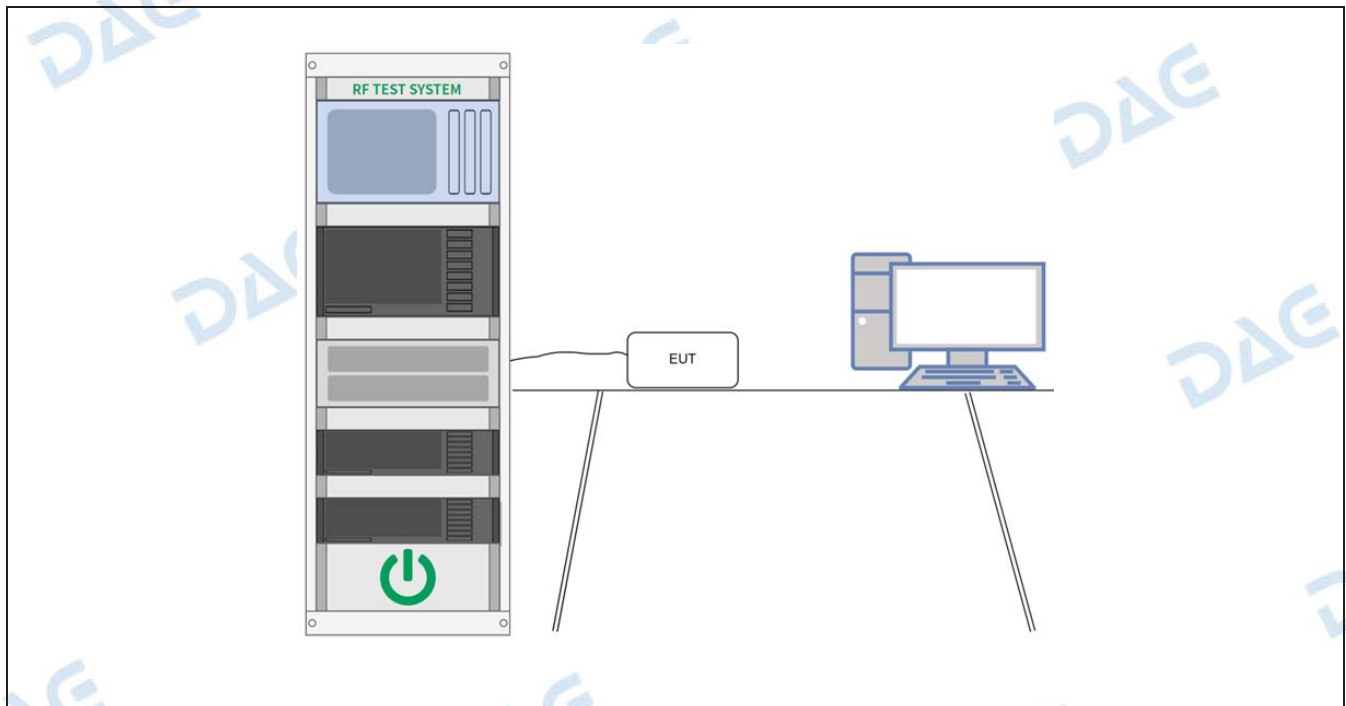
4.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
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 C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

4.6 Band edge emissions (Radiated)

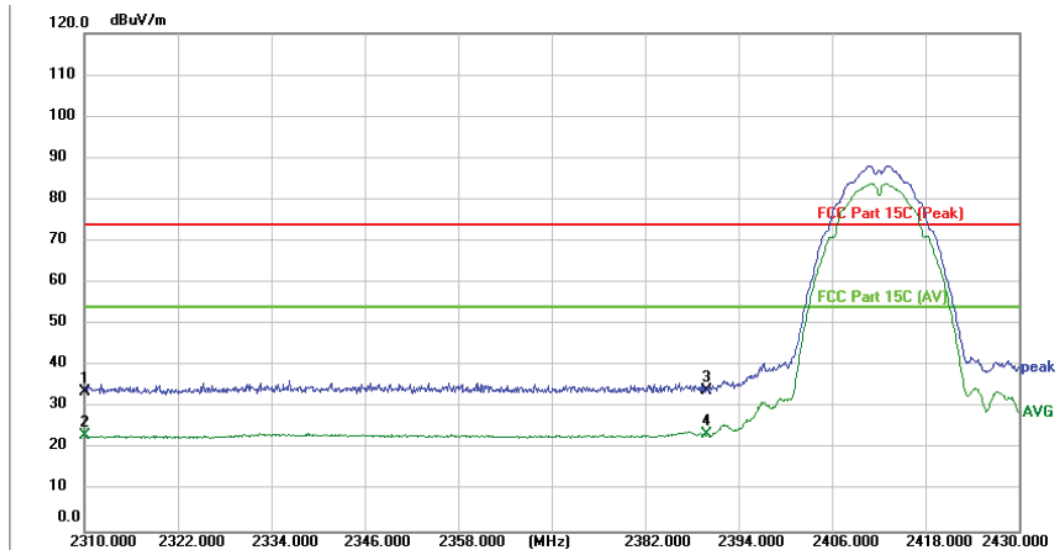
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement 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
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. 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 C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		

4.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22 °C	Humidity:	55 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

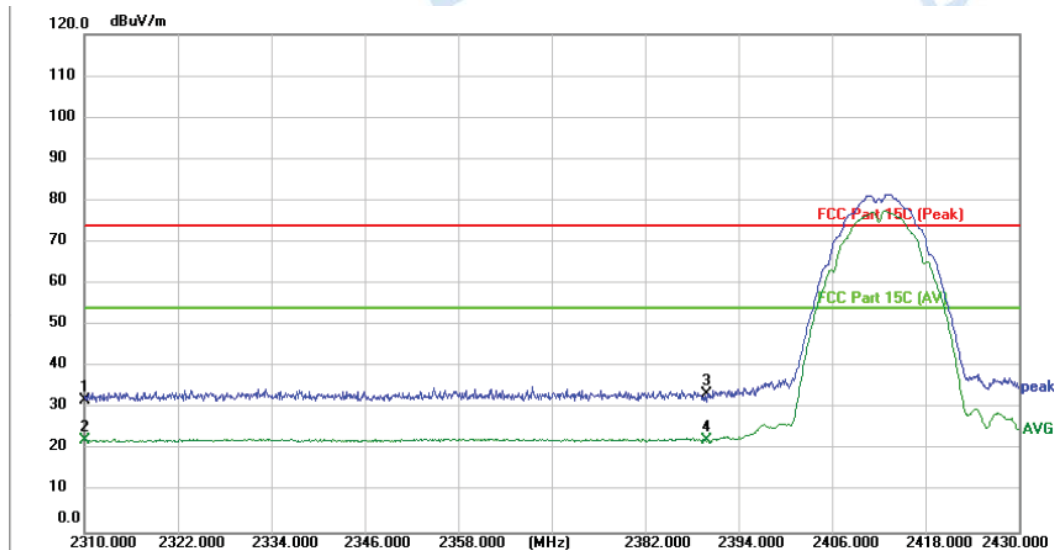
4.6.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



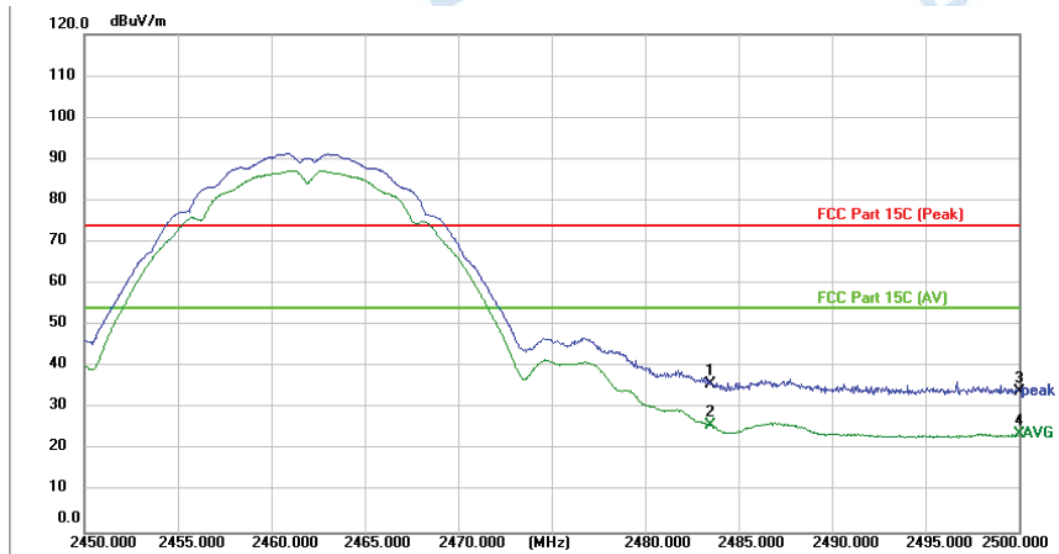
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	2310.000	40.49	-6.63	33.86	74.00	-40.14	peak		P	
2	2310.000	29.78	-6.63	23.15	54.00	-30.85	AVG		P	
3	2390.000	40.34	-6.42	33.92	74.00	-40.08	peak		P	
4 *	2390.000	29.87	-6.42	23.45	54.00	-30.55	AVG		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



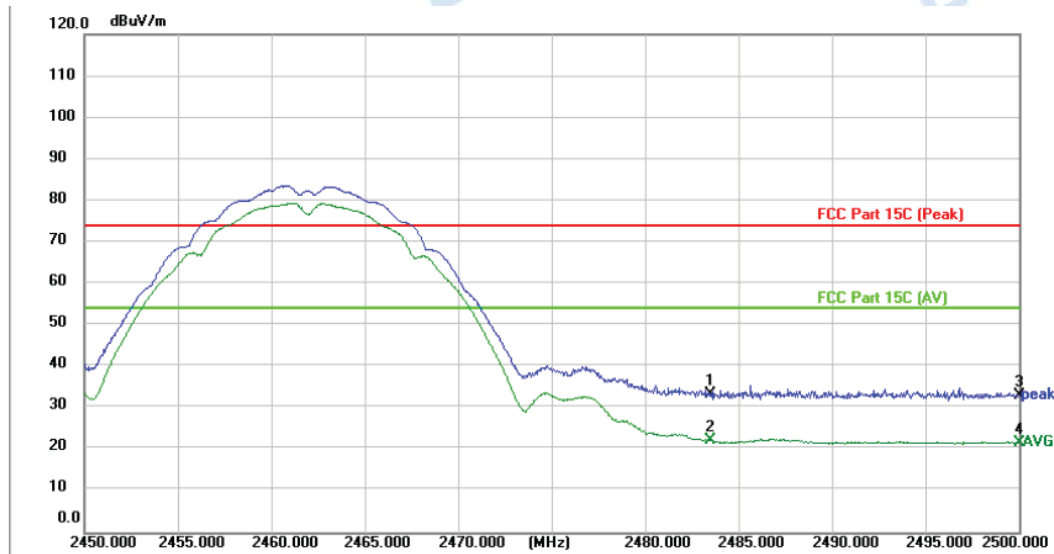
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2310.000	38.54	-6.63	31.91	74.00	-42.09	peak			P	
2 *	2310.000	29.08	-6.63	22.45	54.00	-31.55	AVG			P	
3	2390.000	39.83	-6.42	33.41	74.00	-40.59	peak			P	
4	2390.000	28.70	-6.42	22.28	54.00	-31.72	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	2483.500	41.87	-6.17	35.70	74.00	-38.30	peak		P	
2 *	2483.500	32.00	-6.17	25.83	54.00	-28.17	AVG		P	
3	2500.000	40.32	-6.13	34.19	74.00	-39.81	peak		P	
4	2500.000	29.93	-6.13	23.80	54.00	-30.20	AVG		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2483.500	39.60	-6.17	33.43	74.00	-40.57	peak			P	
2 *	2483.500	28.53	-6.17	22.36	54.00	-31.64	AVG			P	
3	2500.000	39.27	-6.13	33.14	74.00	-40.86	peak			P	
4	2500.000	27.88	-6.13	21.75	54.00	-32.25	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

4.7 Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
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
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. 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 C63.10-2020 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest		

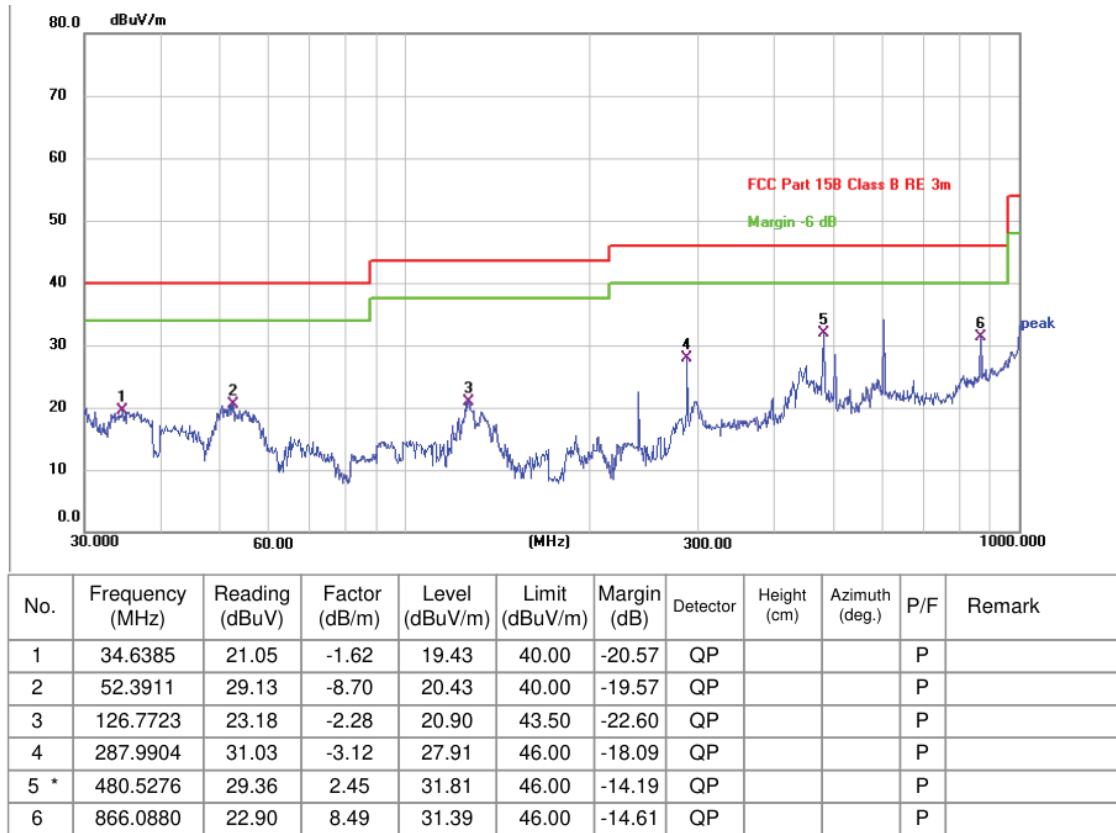
	channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor +C Preamplifier Factor 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.
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4.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.2 °C	Humidity:	52 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.7.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	55.0274	45.18	-8.50	36.68	40.00	-3.32	QP			P	
2	68.1512	34.78	-9.01	25.77	40.00	-14.23	QP			P	
3	128.1130	33.34	-2.15	31.19	43.50	-12.31	QP			P	
4	480.5276	28.36	2.45	30.81	46.00	-15.19	QP			P	
5	601.4265	28.79	4.24	33.03	46.00	-12.97	QP			P	
6	866.0880	22.90	8.49	31.39	46.00	-14.61	QP			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be of 802.11b mode recorded in the test report.

4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. 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 C63.10-2020 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark:		

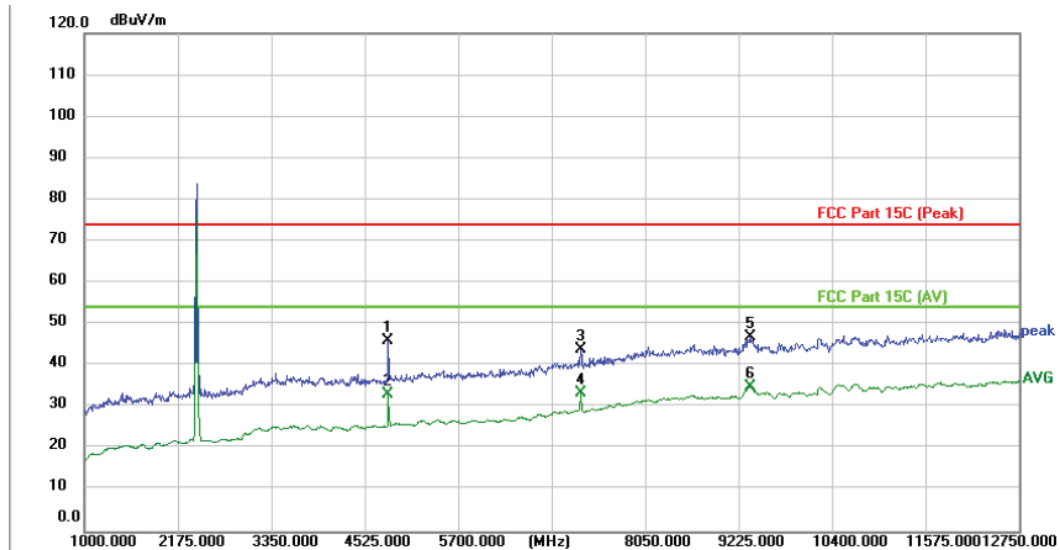
	1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + 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.
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4.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	52 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

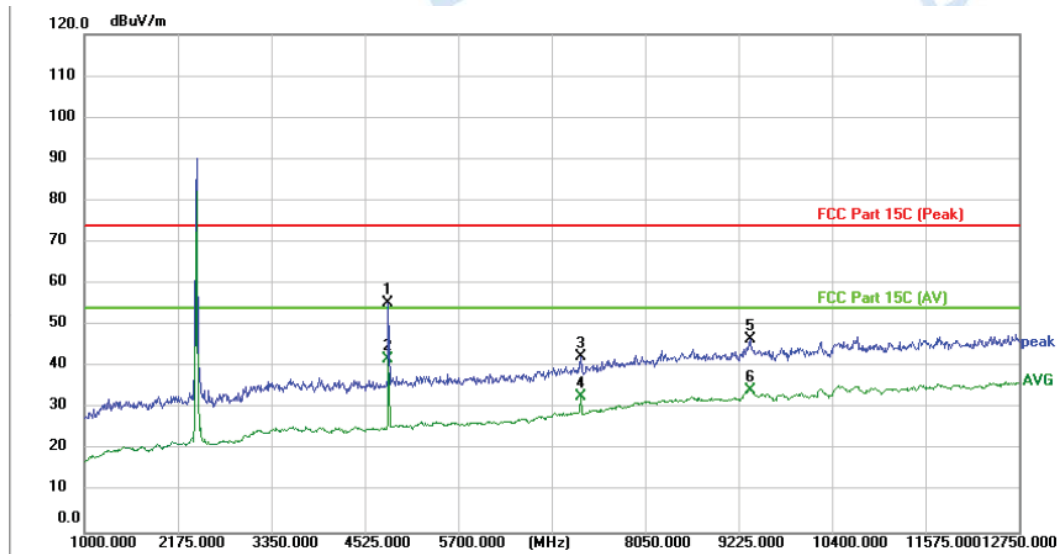
4.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



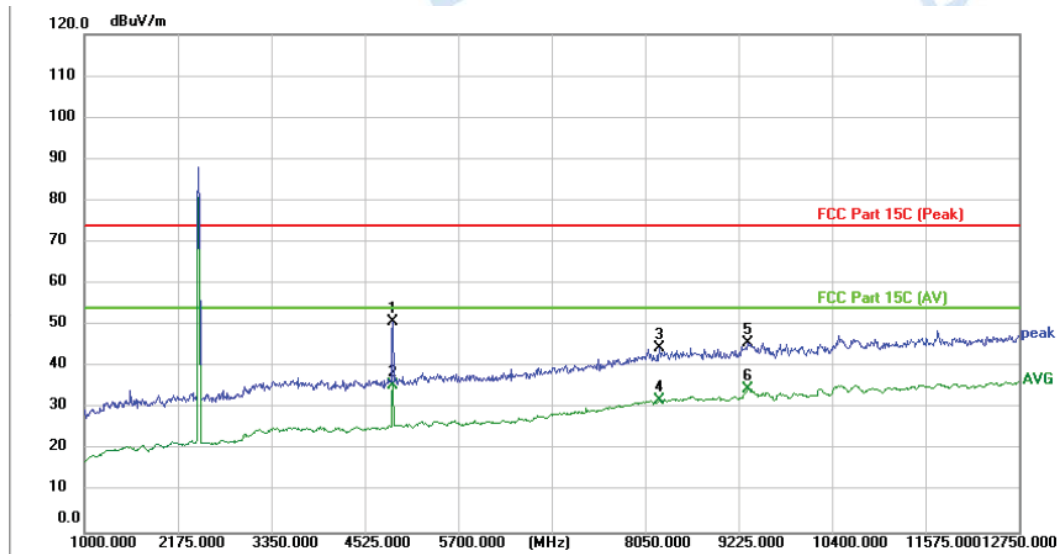
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	4818.750	46.78	-0.65	46.13	74.00	-27.87	peak		P	
2	4818.750	33.77	-0.65	33.12	54.00	-20.88	AVG		P	
3	7239.250	39.63	4.42	44.05	74.00	-29.95	peak		P	
4	7239.250	28.96	4.42	33.38	54.00	-20.62	AVG		P	
5	9366.000	38.77	8.15	46.92	74.00	-27.08	peak		P	
6 *	9366.000	26.80	8.15	34.95	54.00	-19.05	AVG		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



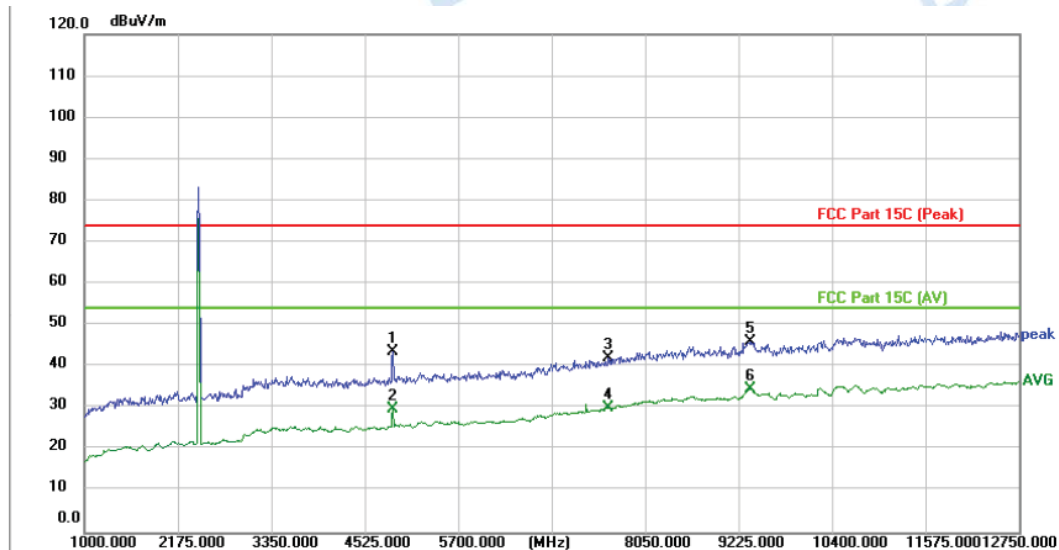
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4818.750	55.96	-0.65	55.31	74.00	-18.69	peak			P	
2 *	4818.750	42.63	-0.65	41.98	54.00	-12.02	AVG			P	
3	7239.250	38.16	4.42	42.58	74.00	-31.42	peak			P	
4	7239.250	28.51	4.42	32.93	54.00	-21.07	AVG			P	
5	9366.000	38.55	8.15	46.70	74.00	-27.30	peak			P	
6	9366.000	26.28	8.15	34.43	54.00	-19.57	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M



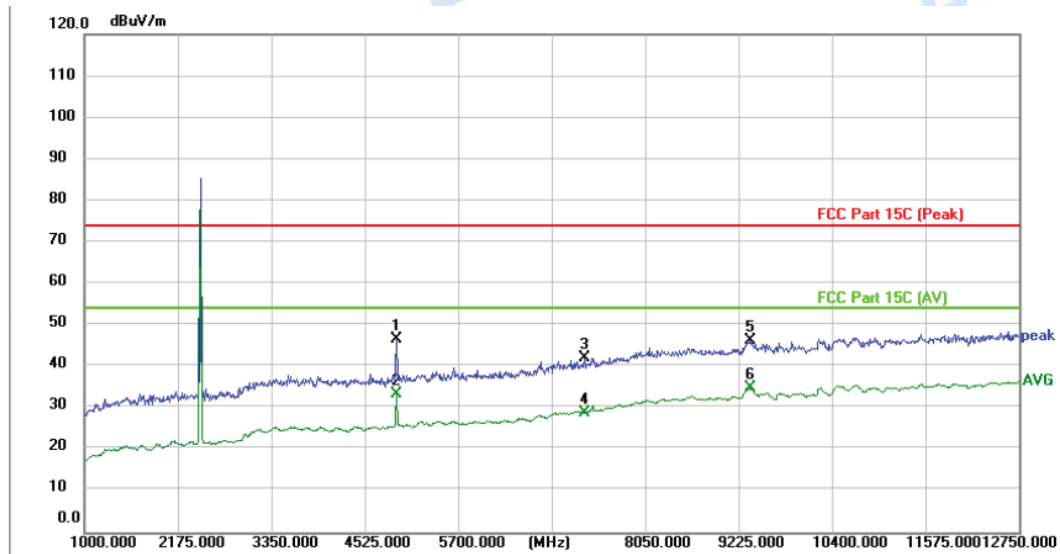
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4877.500	51.26	-0.45	50.81	74.00	-23.19	peak			P	
2 *	4877.500	36.08	-0.45	35.63	54.00	-18.37	AVG			P	
3	8226.250	37.65	7.03	44.68	74.00	-29.32	peak			P	
4	8226.250	24.95	7.03	31.98	54.00	-22.02	AVG			P	
5	9342.500	37.54	8.16	45.70	74.00	-28.30	peak			P	
6	9342.500	26.48	8.16	34.64	54.00	-19.36	AVG			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M



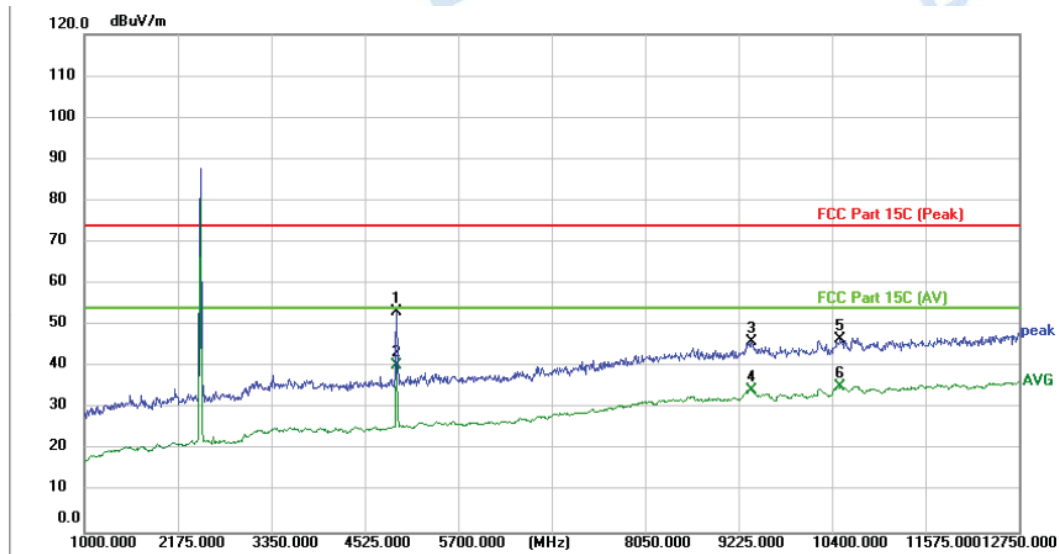
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4877.500	44.13	-0.45	43.68	74.00	-30.32	peak			P	
2	4877.500	30.19	-0.45	29.74	54.00	-24.26	AVG			P	
3	7591.750	36.86	5.22	42.08	74.00	-31.92	peak			P	
4	7591.750	24.87	5.22	30.09	54.00	-23.91	AVG			P	
5	9366.000	38.04	8.15	46.19	74.00	-27.81	peak			P	
6 *	9366.000	26.52	8.15	34.67	54.00	-19.33	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4924.500	46.96	-0.30	46.66	74.00	-27.34	peak			P	
2	4924.500	33.68	-0.30	33.38	54.00	-20.62	AVG			P	
3	7286.250	37.74	4.51	42.25	74.00	-31.75	peak			P	
4	7286.250	24.47	4.51	28.98	54.00	-25.02	AVG			P	
5	9366.000	38.06	8.15	46.21	74.00	-27.79	peak			P	
6 *	9366.000	26.77	8.15	34.92	54.00	-19.08	AVG			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4924.500	53.51	-0.30	53.21	74.00	-20.79	peak			P	
2 *	4924.500	40.59	-0.30	40.29	54.00	-13.71	AVG			P	
3	9389.500	38.02	8.14	46.16	74.00	-27.84	peak			P	
4	9389.500	26.25	8.14	34.39	54.00	-19.61	AVG			P	
5	10505.750	37.65	9.01	46.66	74.00	-27.34	peak			P	
6	10505.750	26.14	9.01	35.15	54.00	-18.85	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

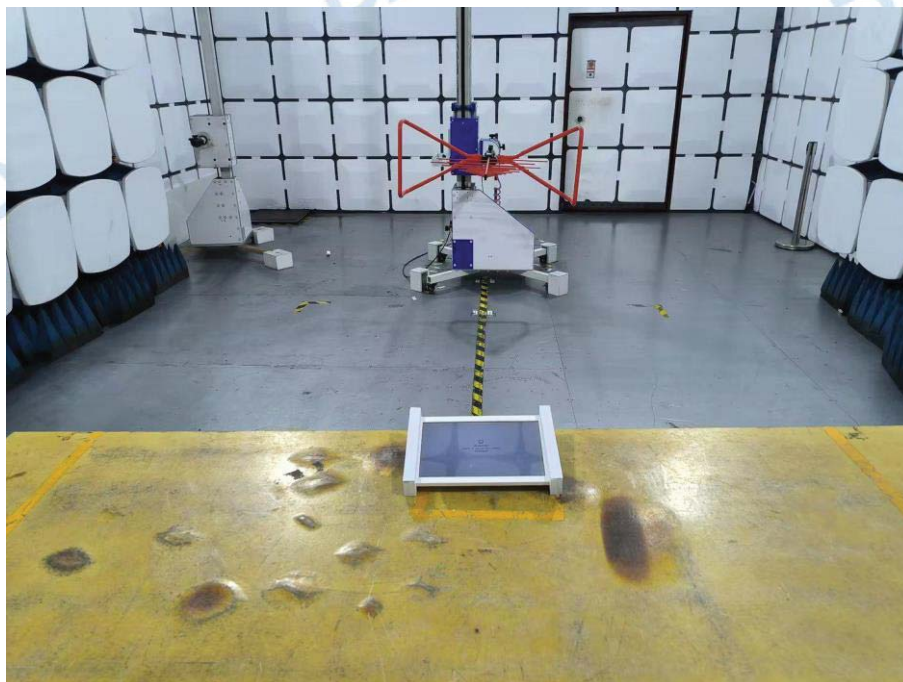
The test software will only record the worst test angle and height, and only the worst case will be of 802.11b mode recorded in the test report.

5 TEST SETUP PHOTOS

Conducted Emission at AC power line



Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



6 PHOTOS OF THE EUT

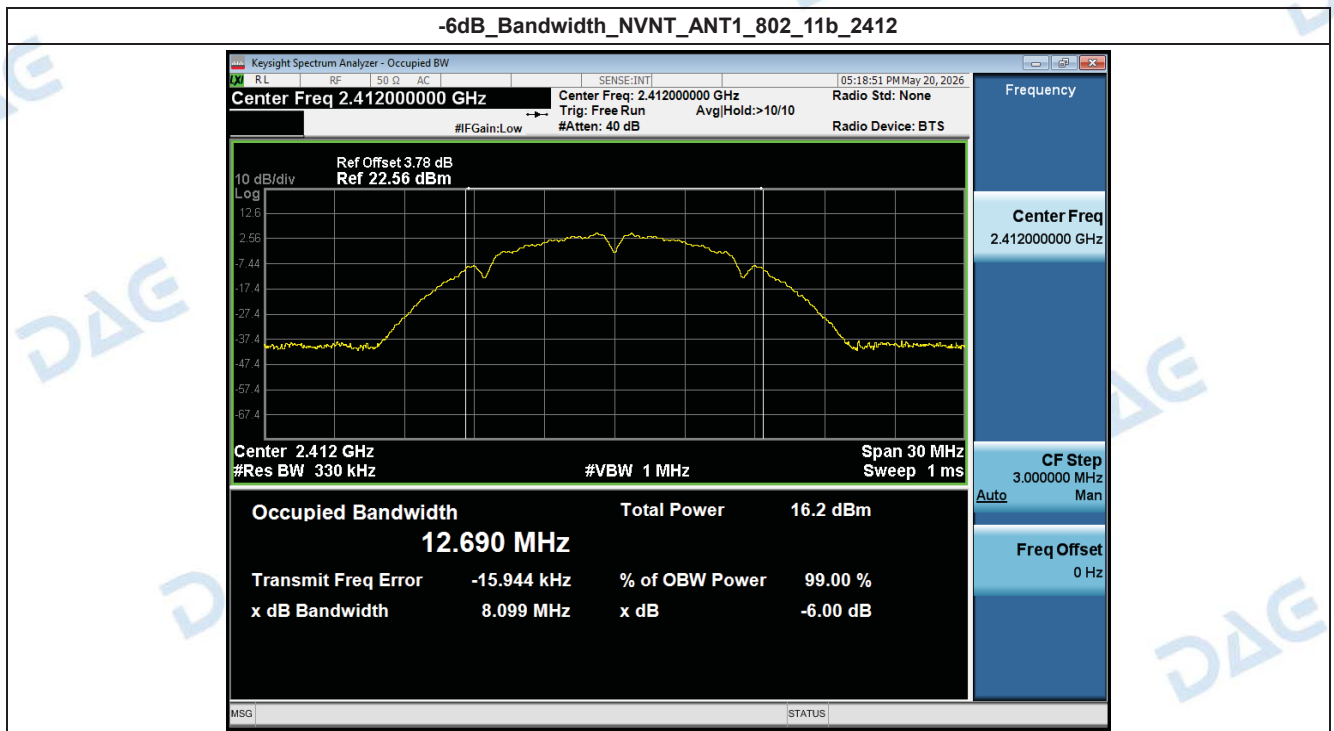
Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

Appendix

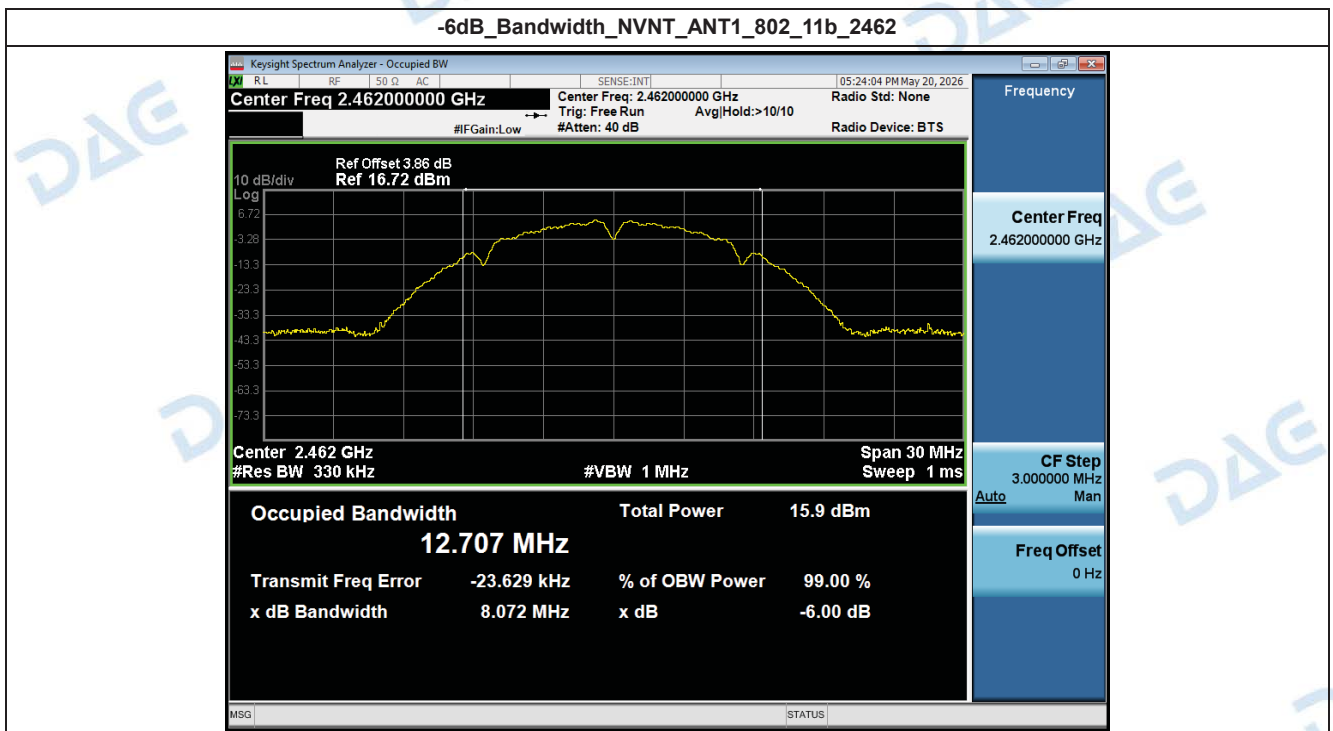
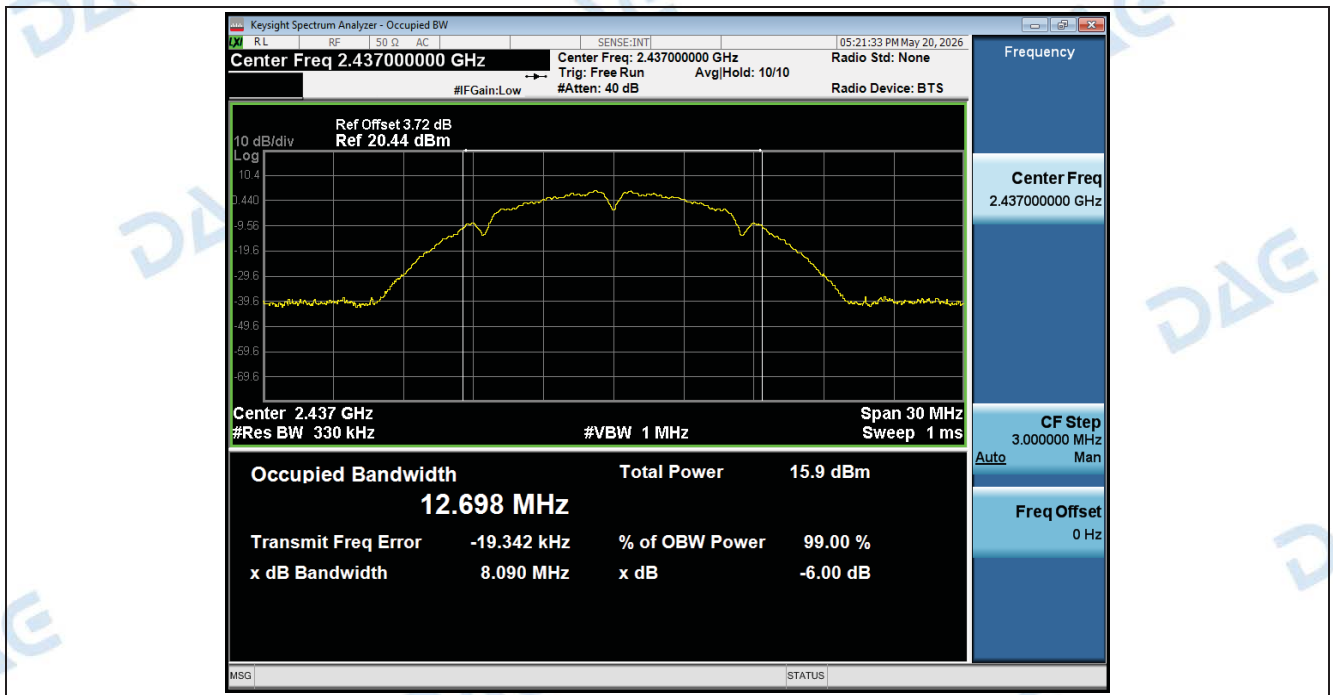
1. -6dB Bandwidth

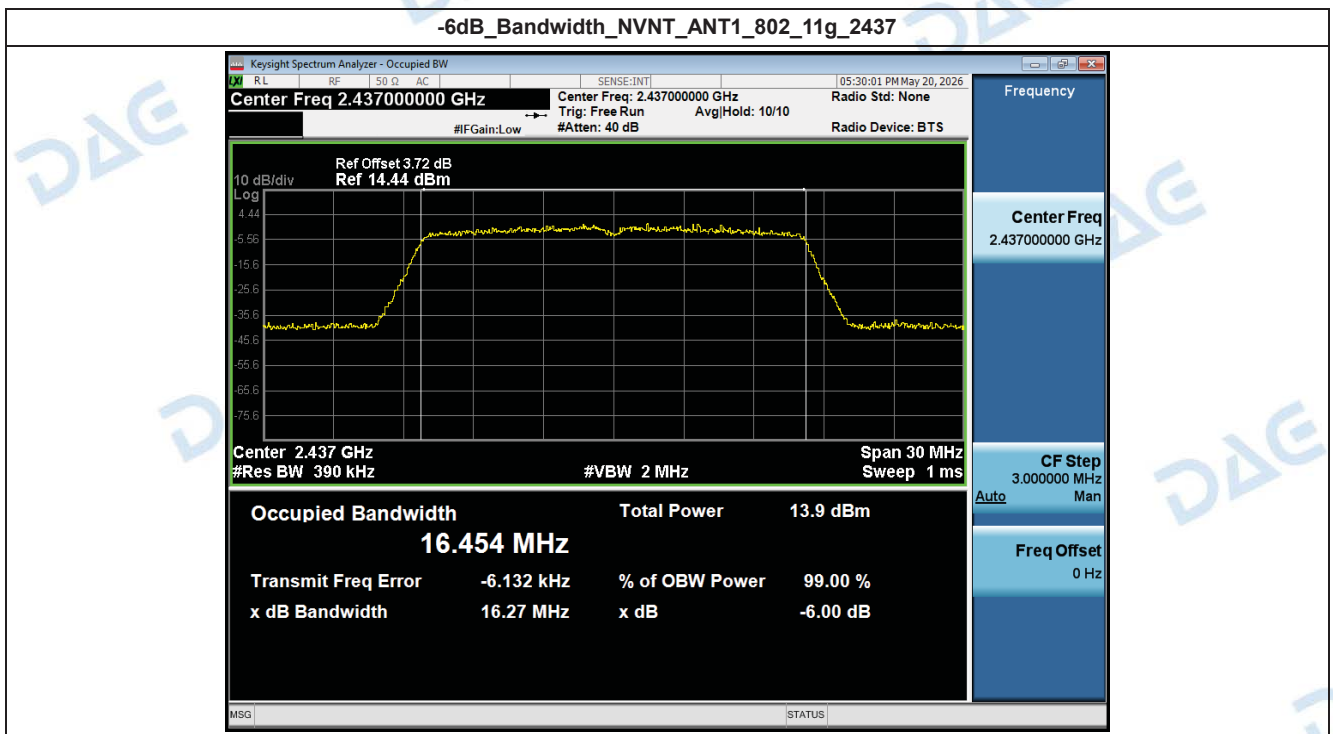
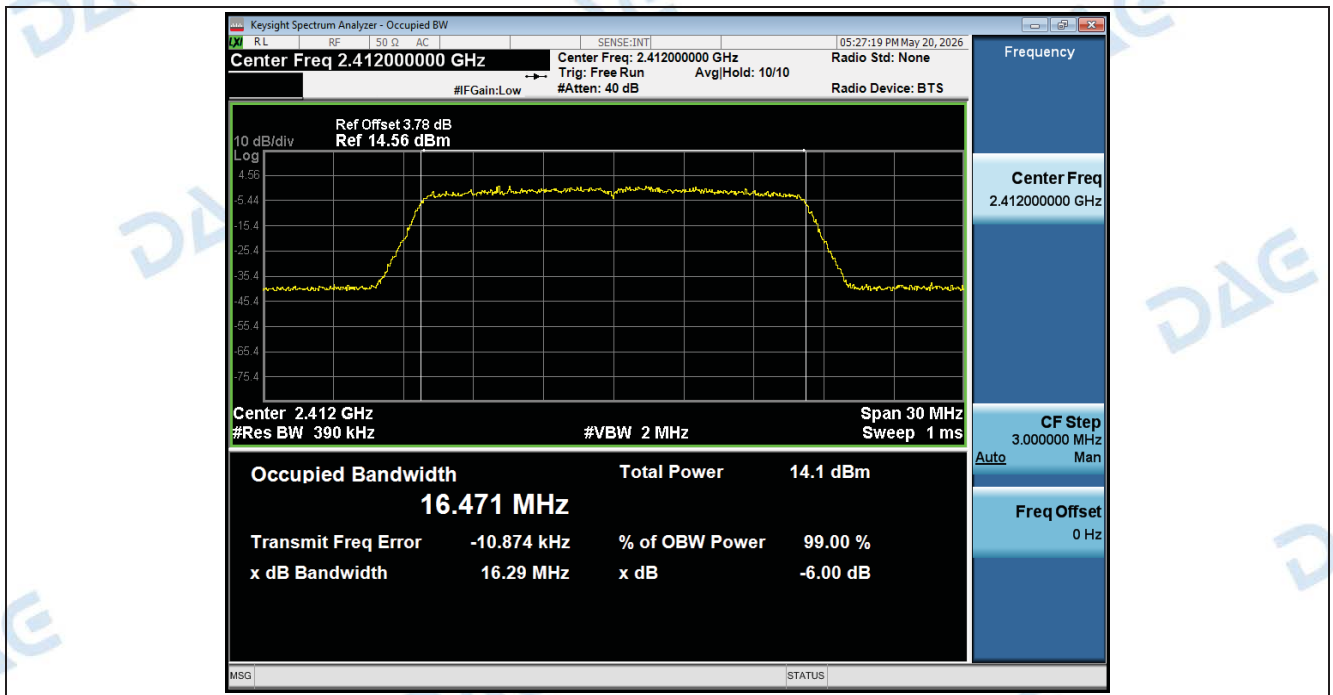
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.10	500	Pass
NVNT	ANT1	802.11b	2437.00	8.09	500	Pass
NVNT	ANT1	802.11b	2462.00	8.07	500	Pass
NVNT	ANT1	802.11g	2412.00	16.29	500	Pass
NVNT	ANT1	802.11g	2437.00	16.27	500	Pass
NVNT	ANT1	802.11g	2462.00	16.29	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.54	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.51	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.62	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.58	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

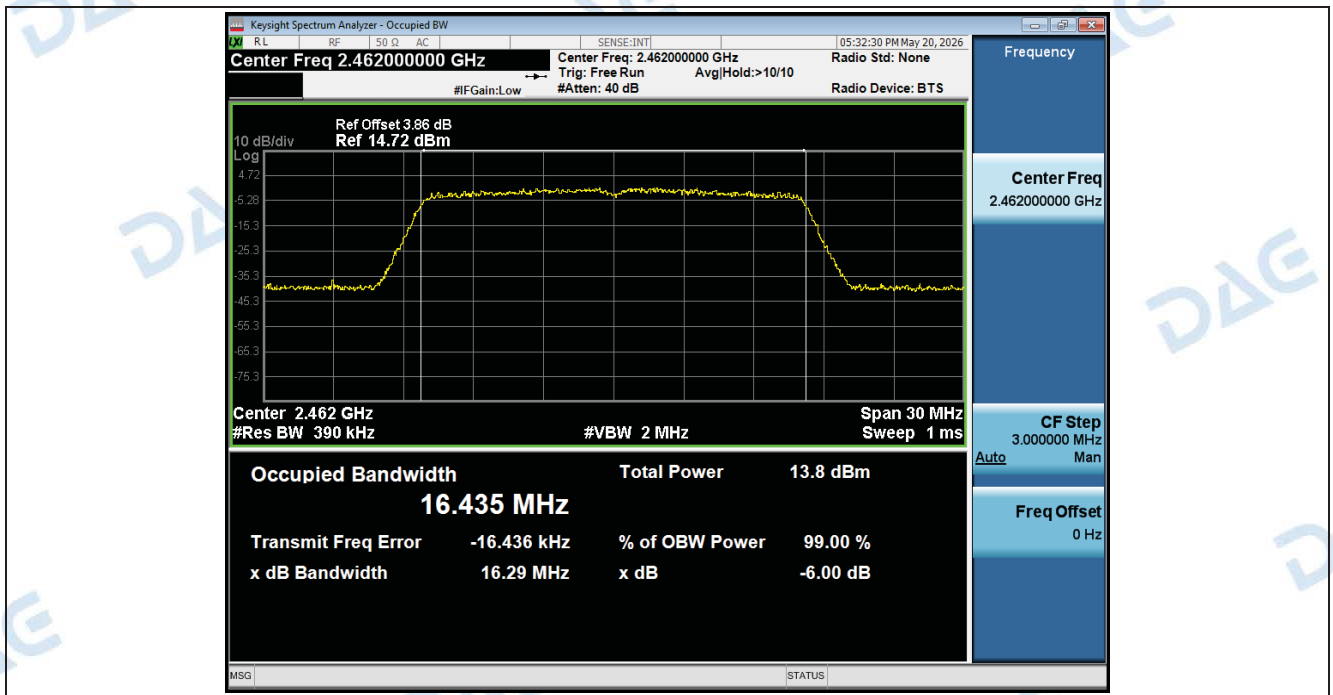


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

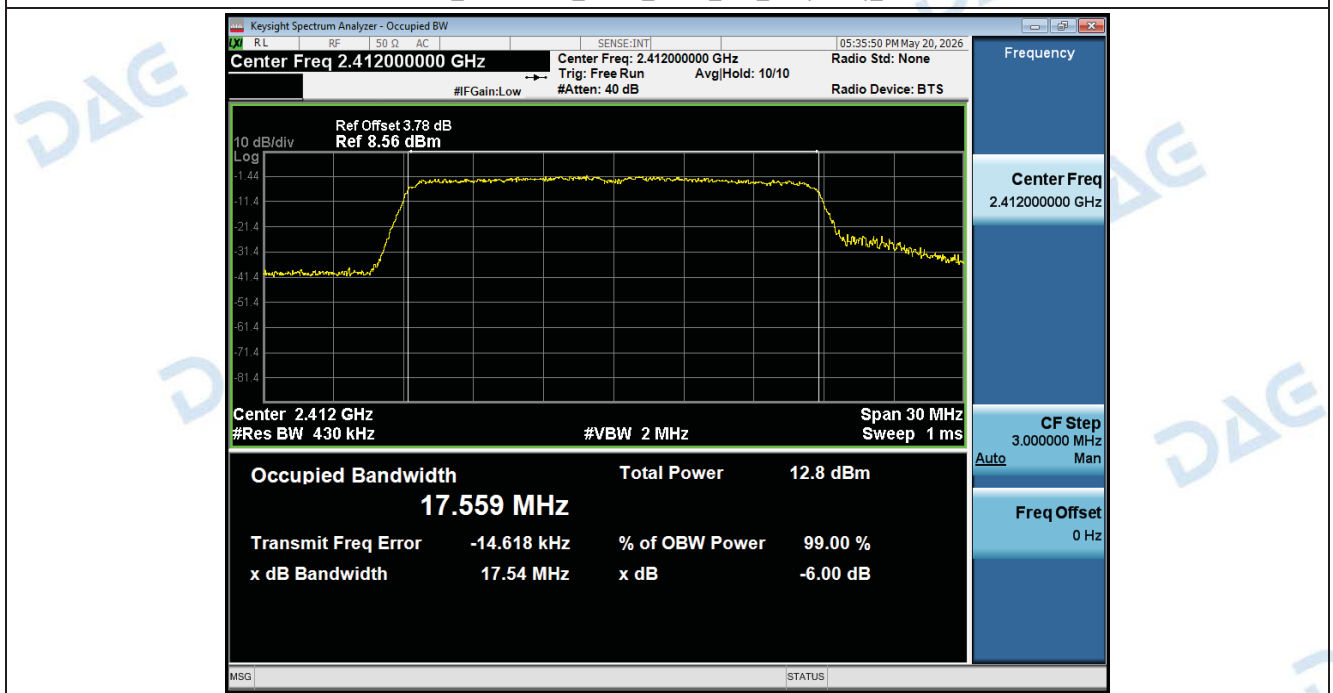




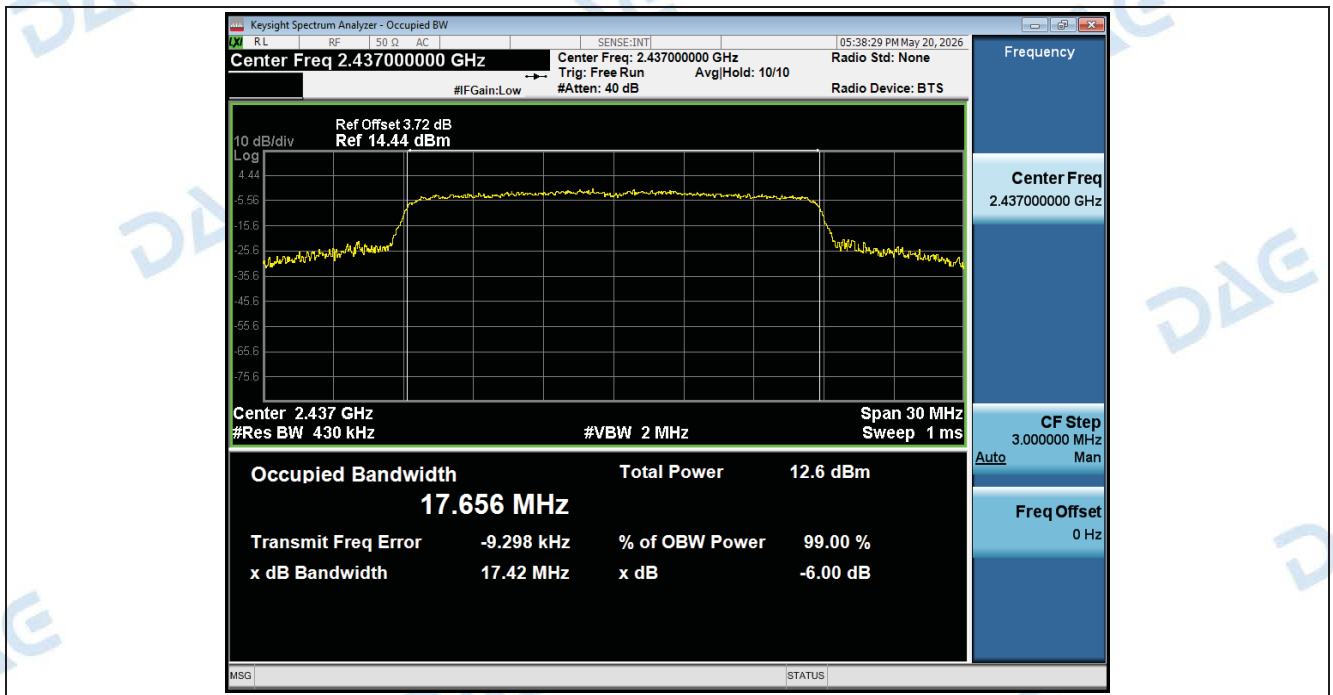
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



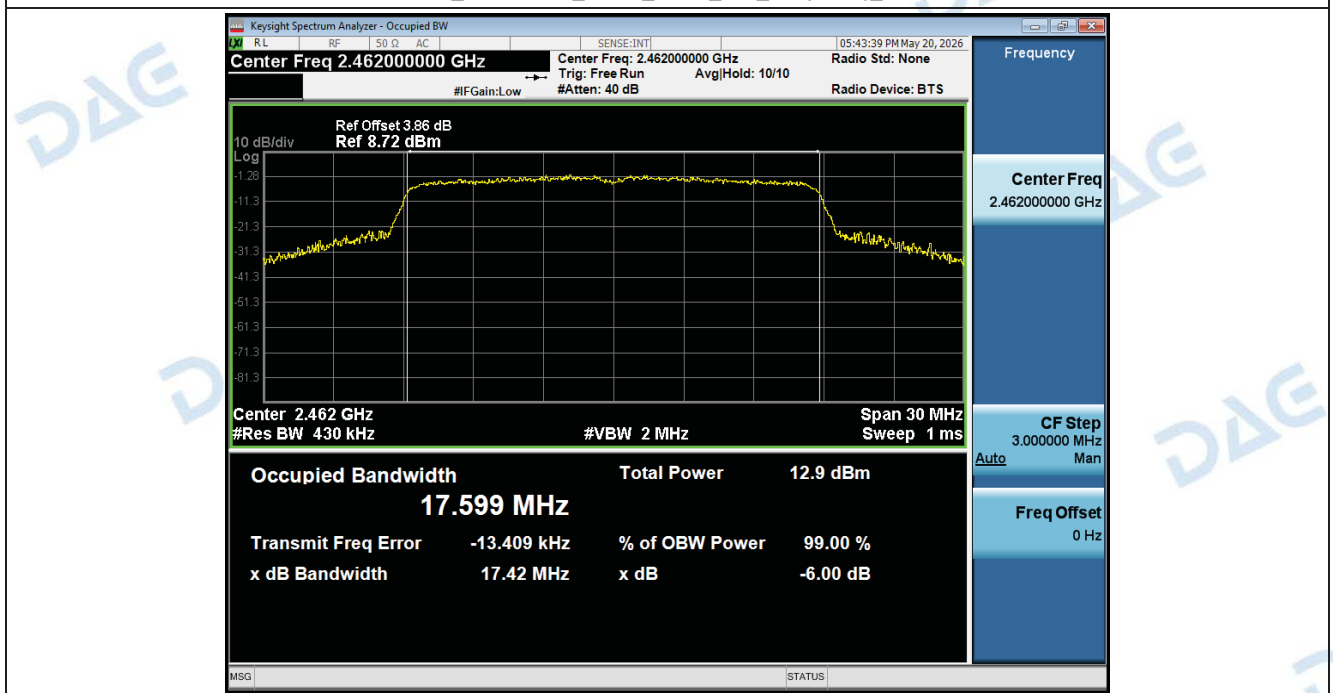
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



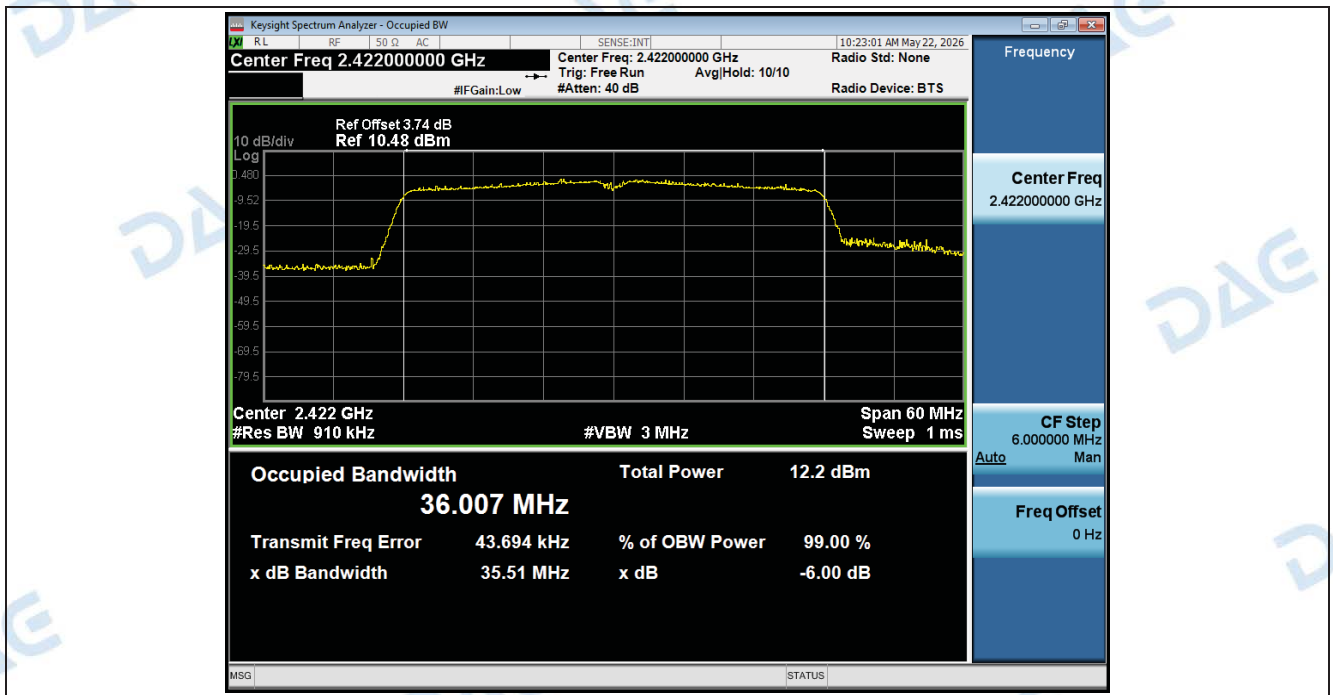
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



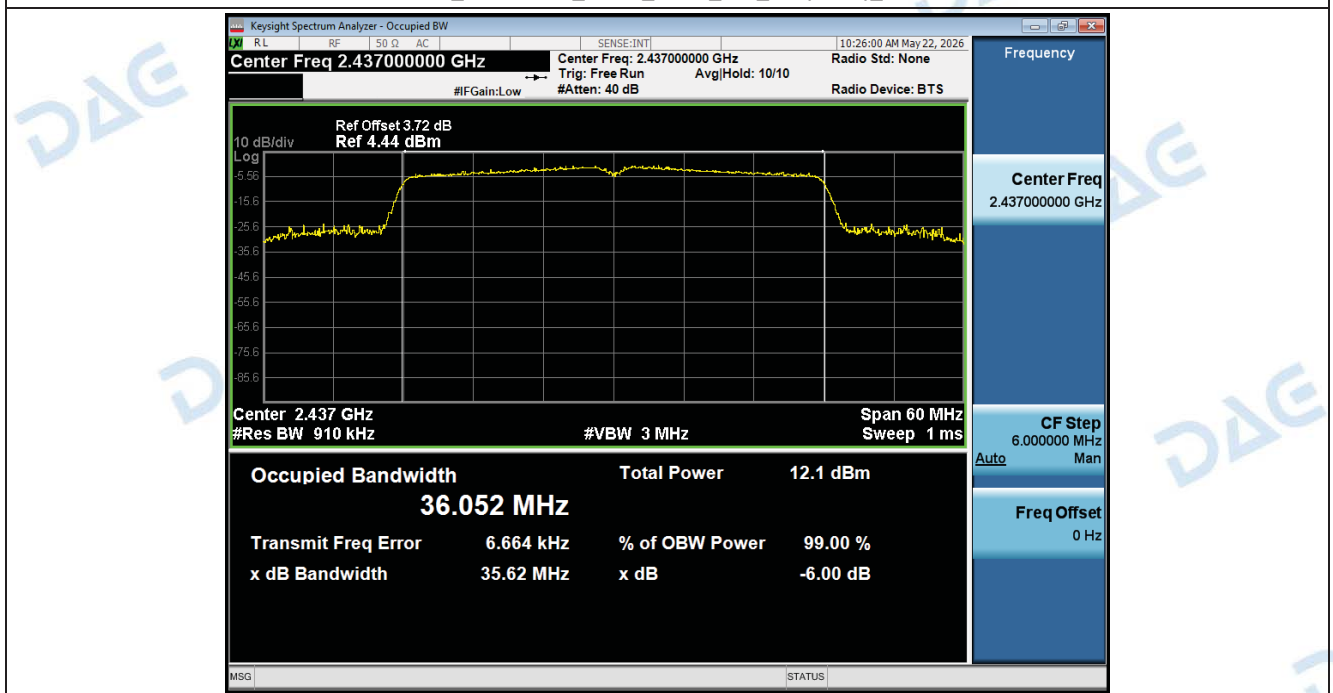
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



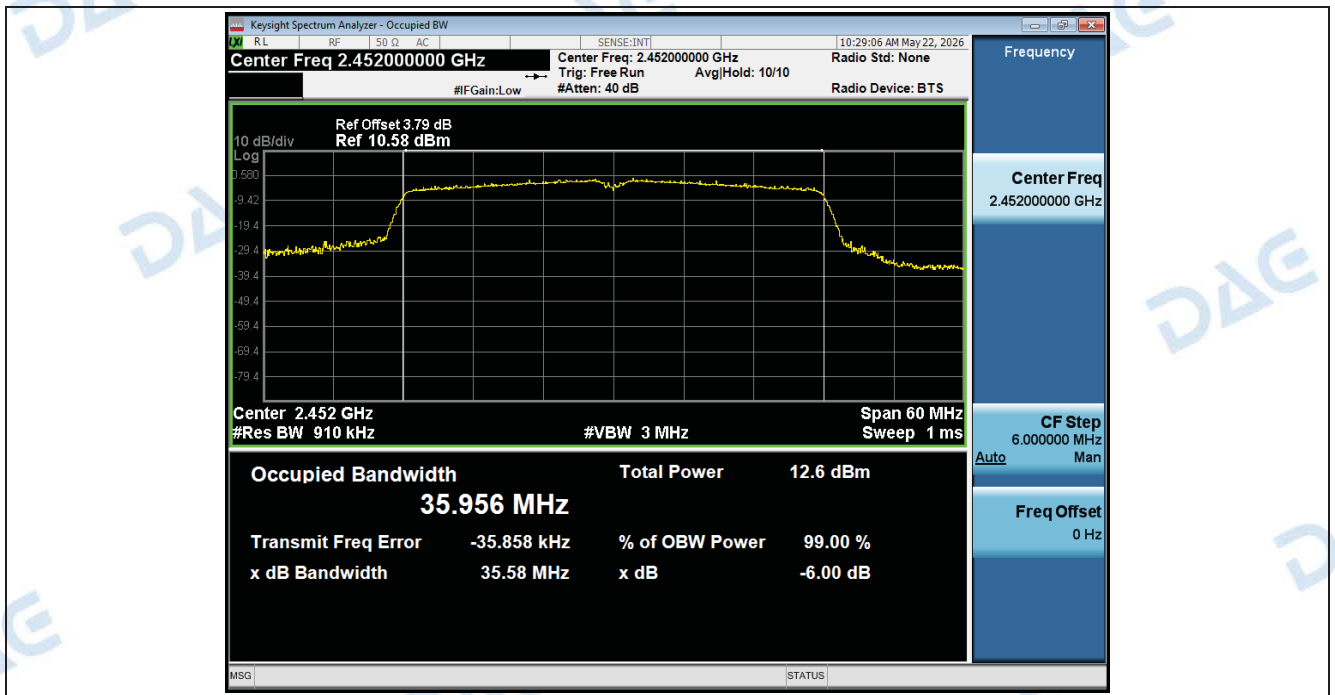
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



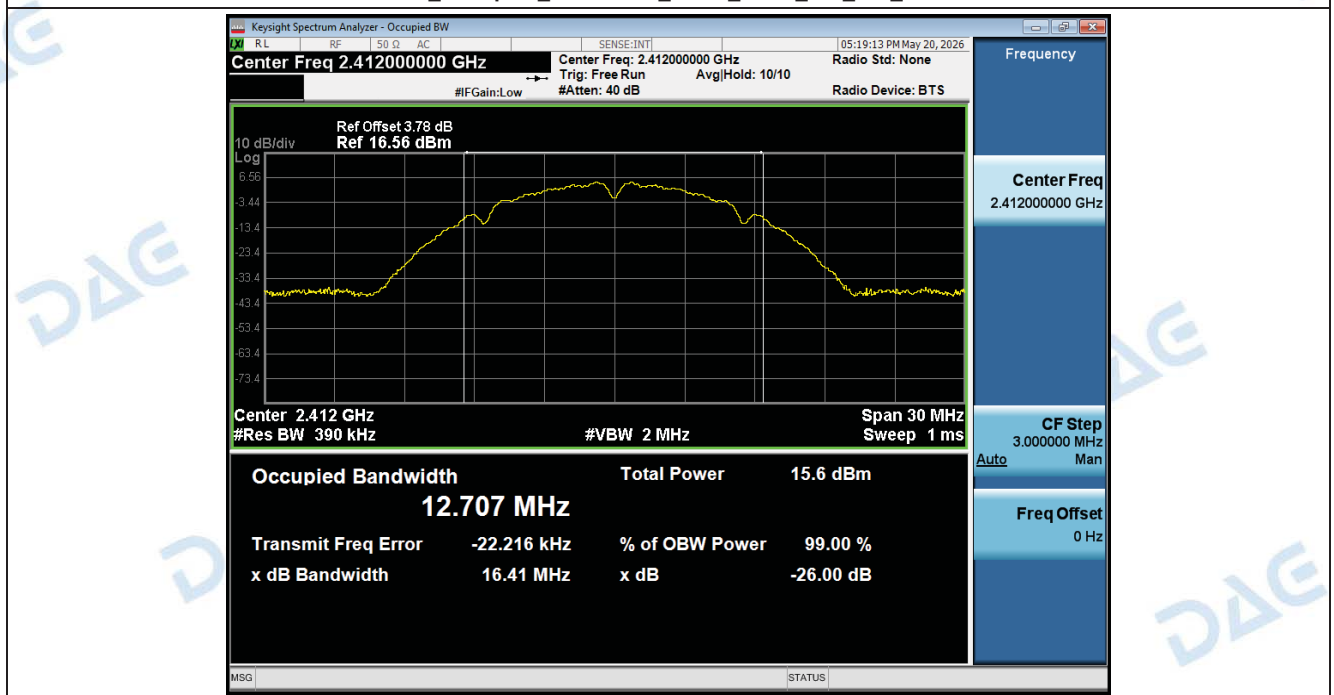
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



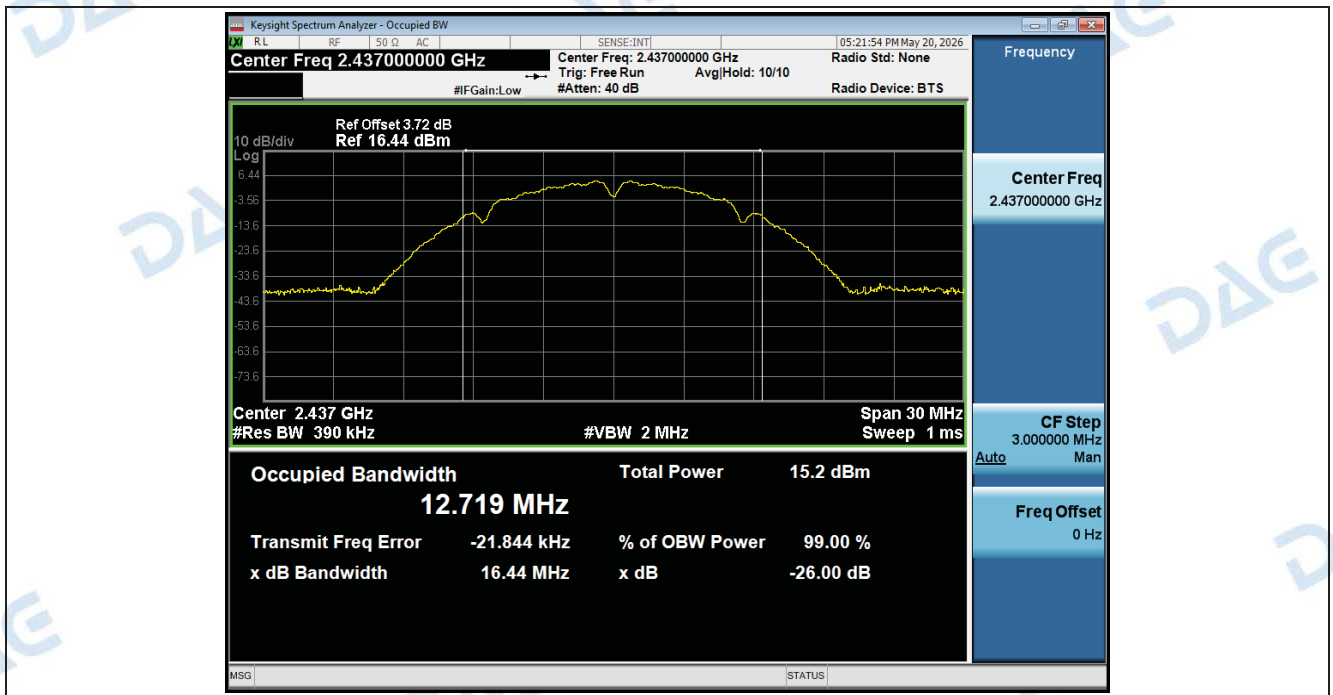
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.707
NVNT	ANT1	802.11b	2437.00	12.719
NVNT	ANT1	802.11b	2462.00	12.715
NVNT	ANT1	802.11g	2412.00	16.475
NVNT	ANT1	802.11g	2437.00	16.455
NVNT	ANT1	802.11g	2462.00	16.442
NVNT	ANT1	802.11n(HT20)	2412.00	17.599
NVNT	ANT1	802.11n(HT20)	2437.00	17.693
NVNT	ANT1	802.11n(HT20)	2462.00	17.627
NVNT	ANT1	802.11n(HT40)	2422.00	36.036
NVNT	ANT1	802.11n(HT40)	2437.00	36.063
NVNT	ANT1	802.11n(HT40)	2452.00	35.973

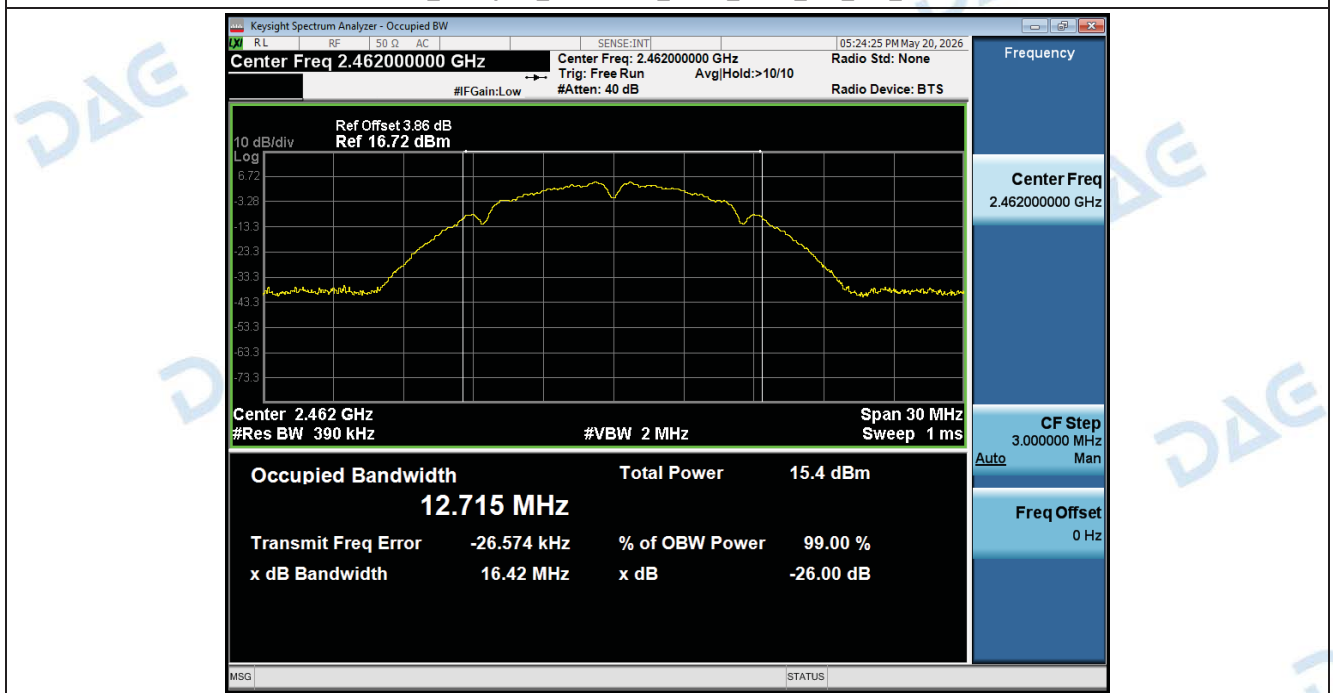
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



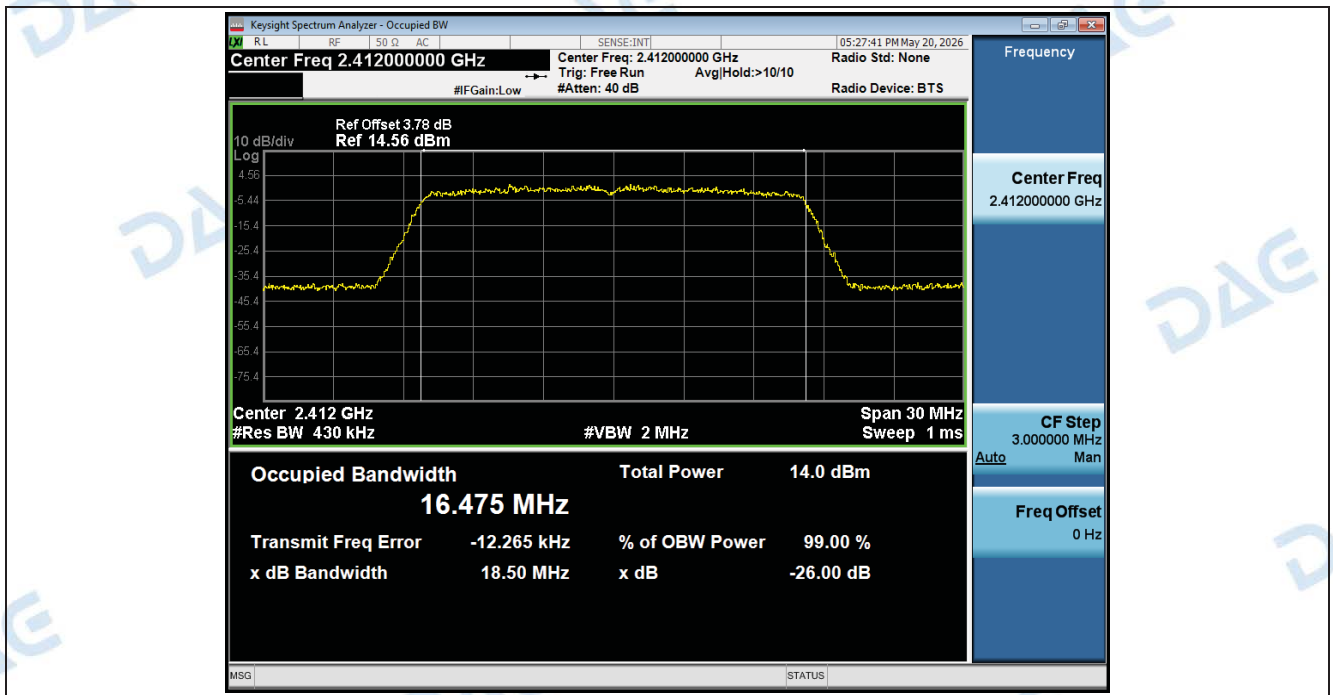
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



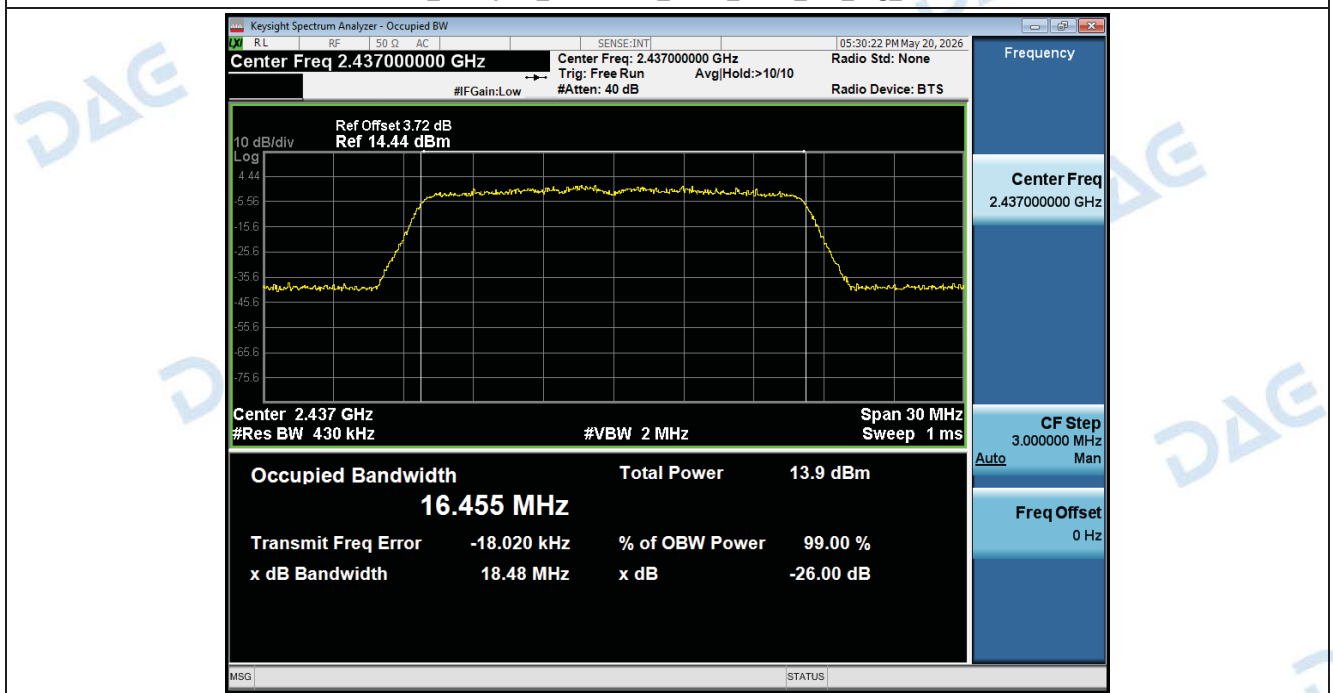
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



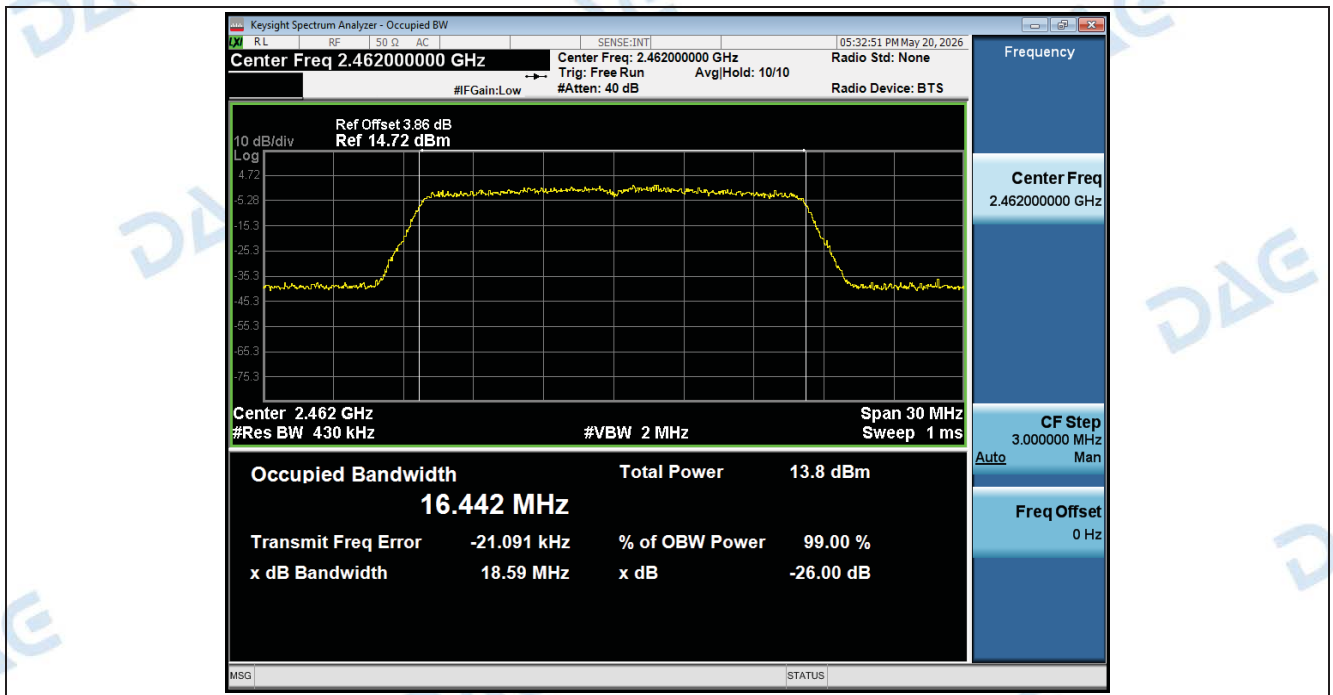
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



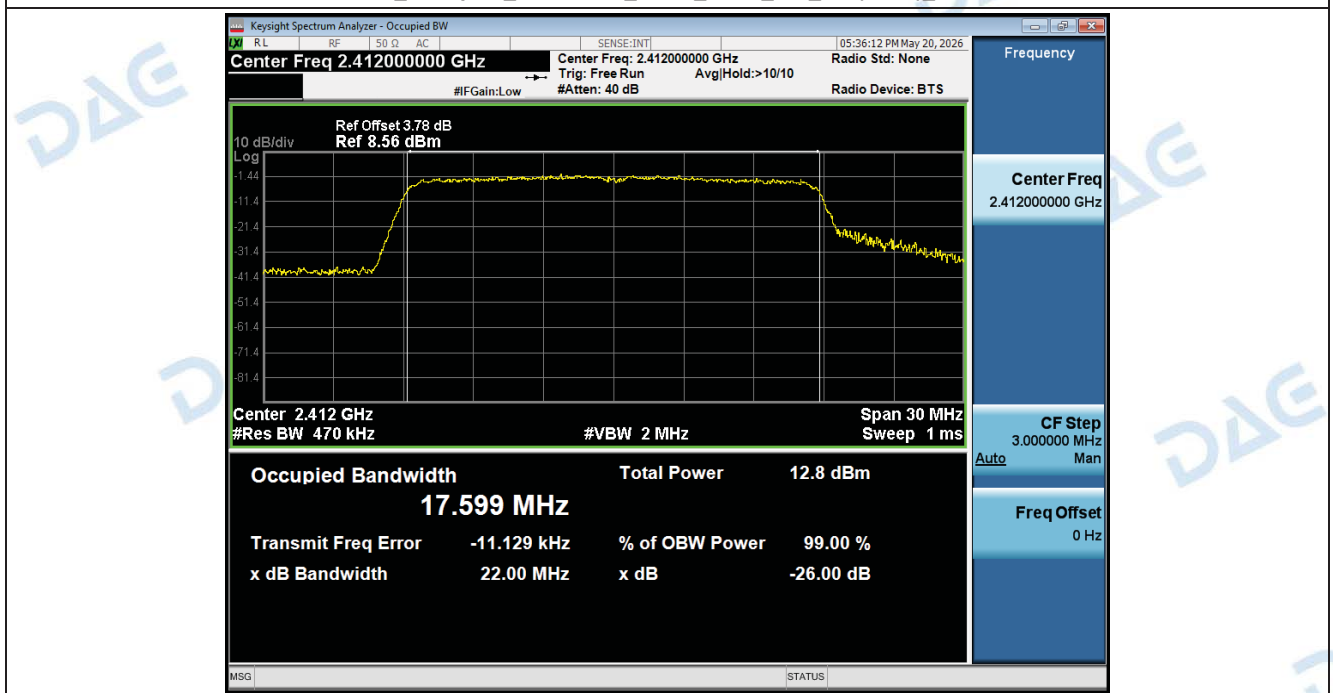
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



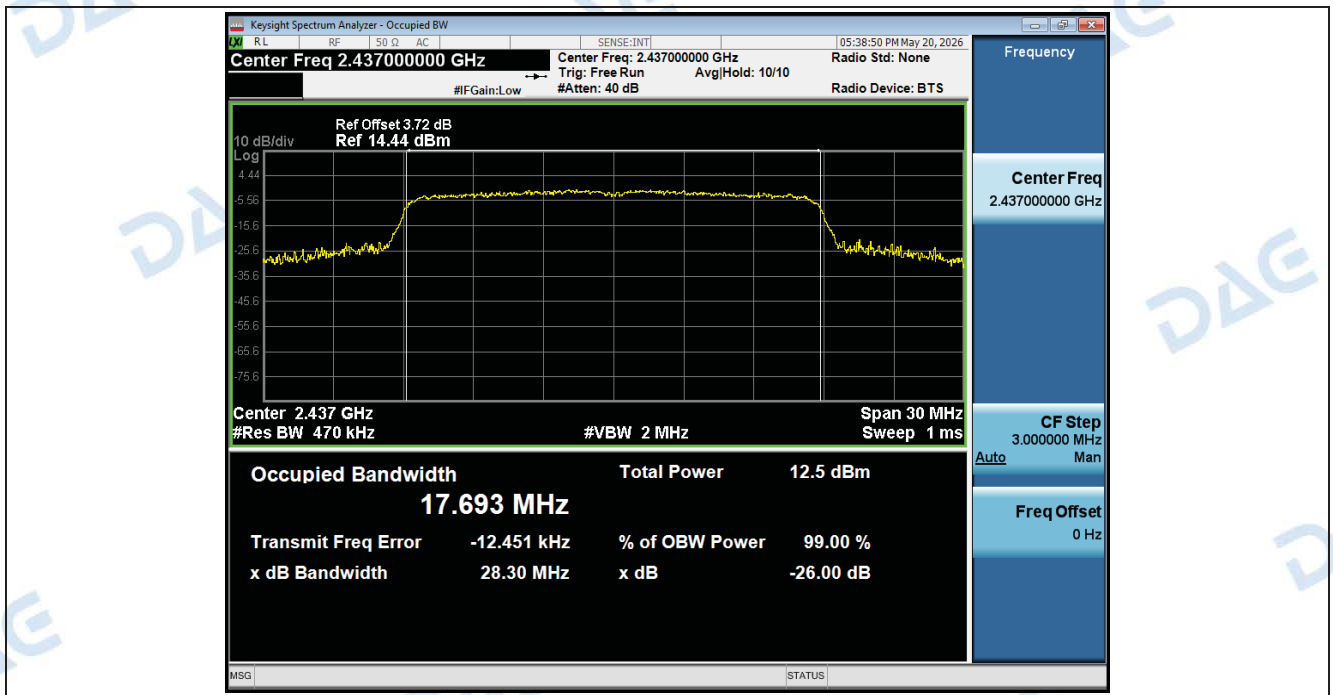
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



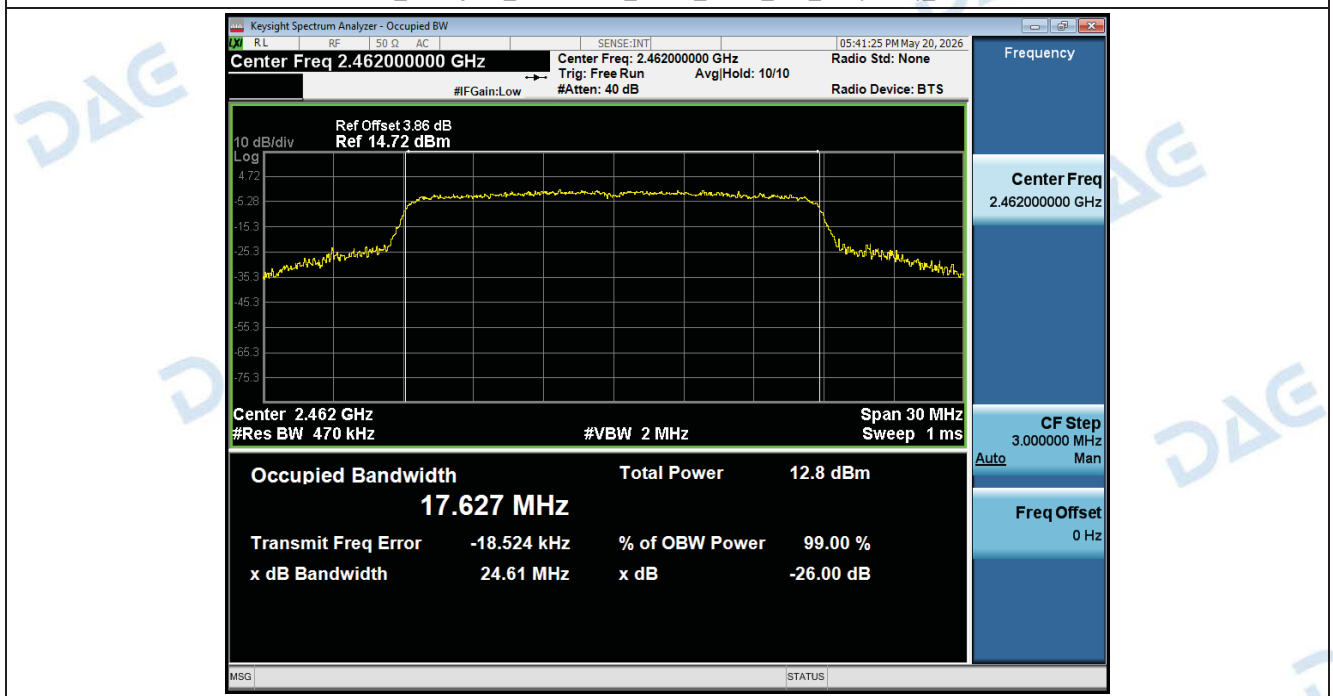
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



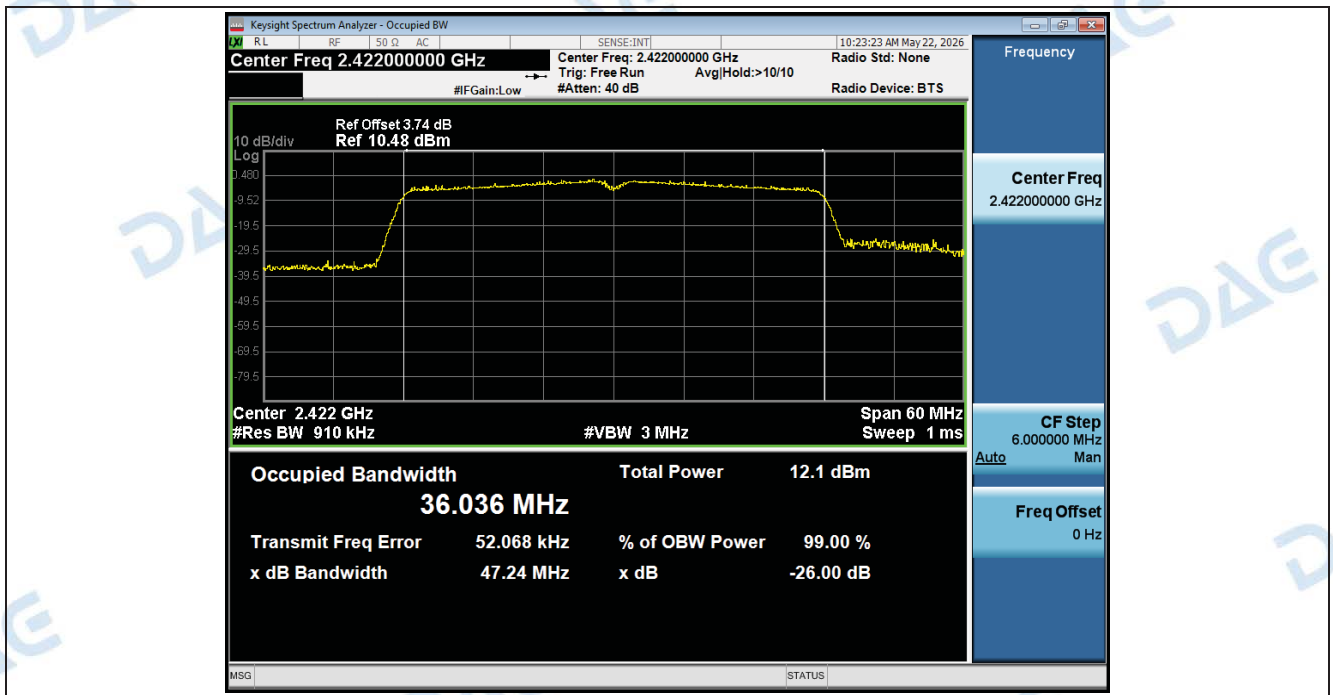
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



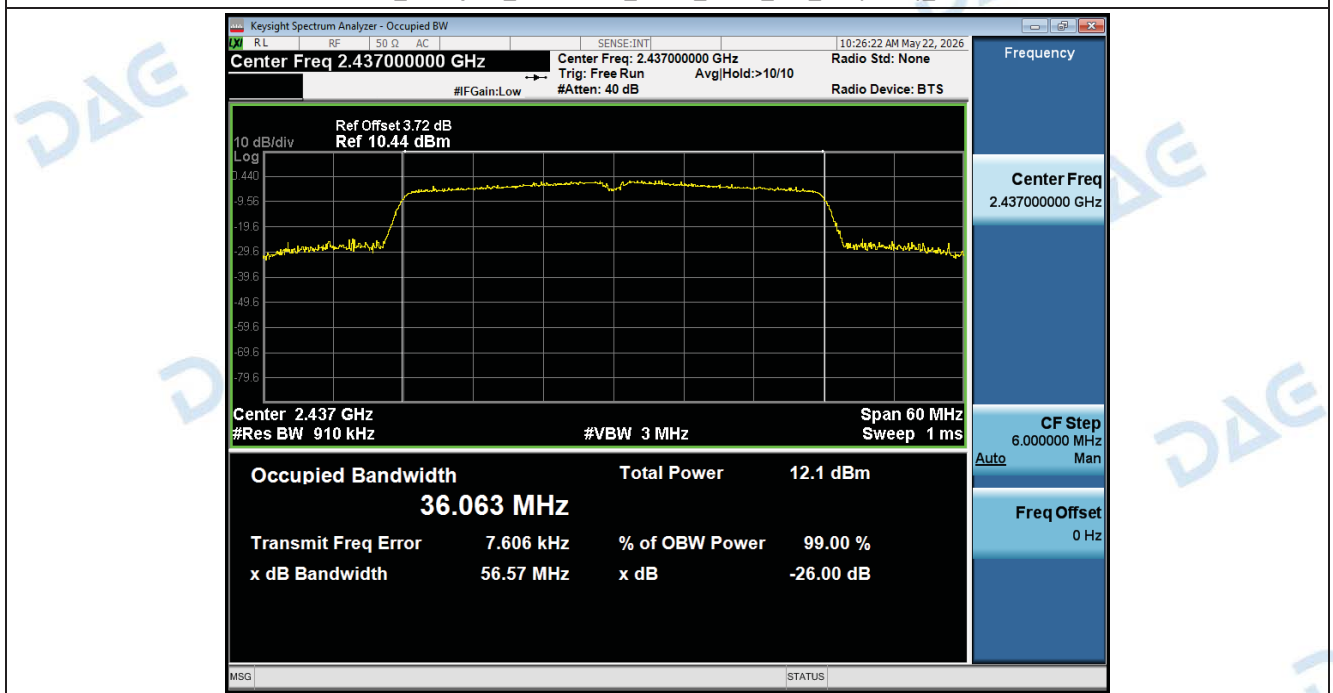
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



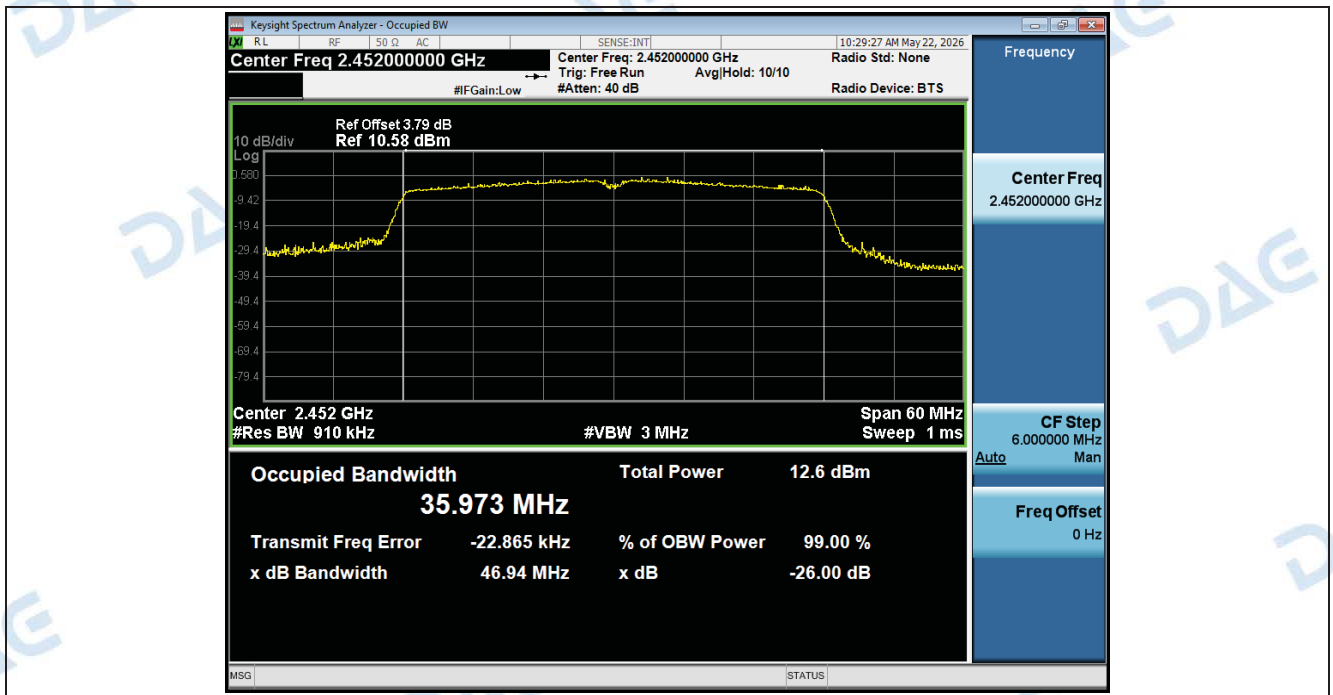
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



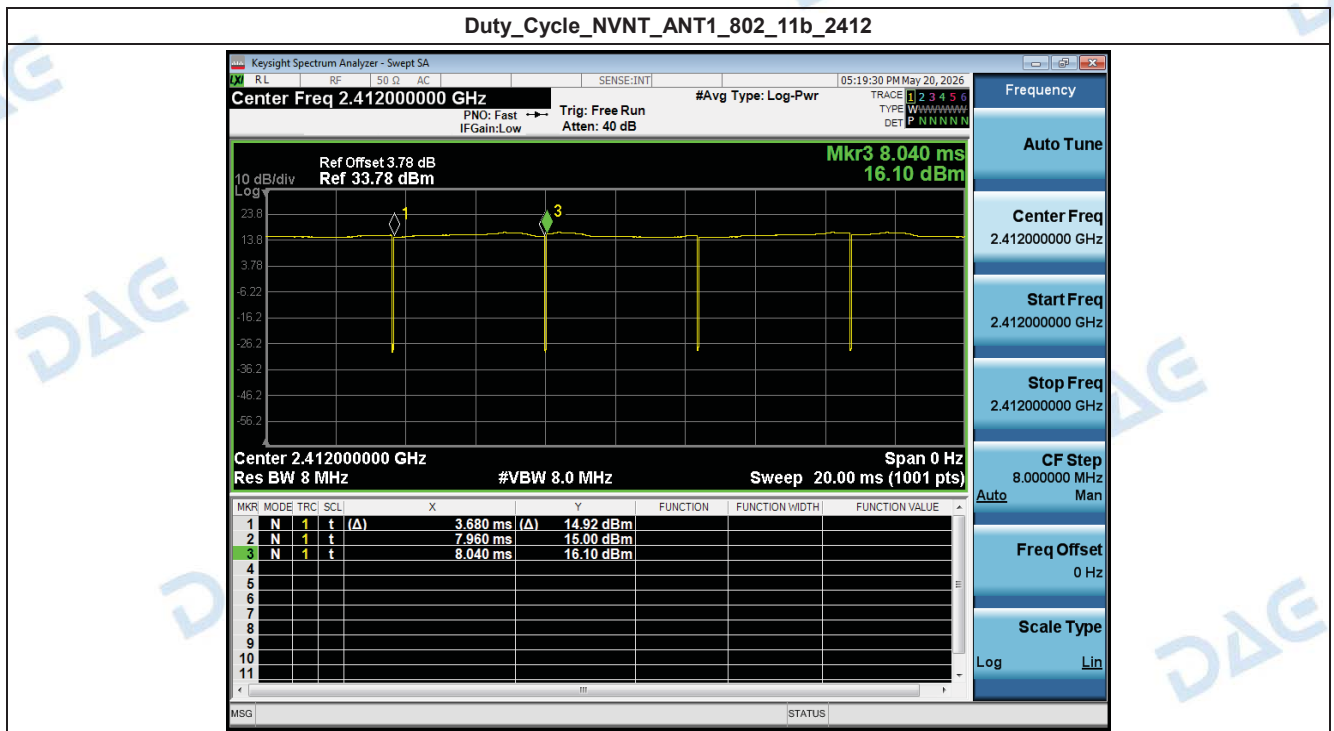
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

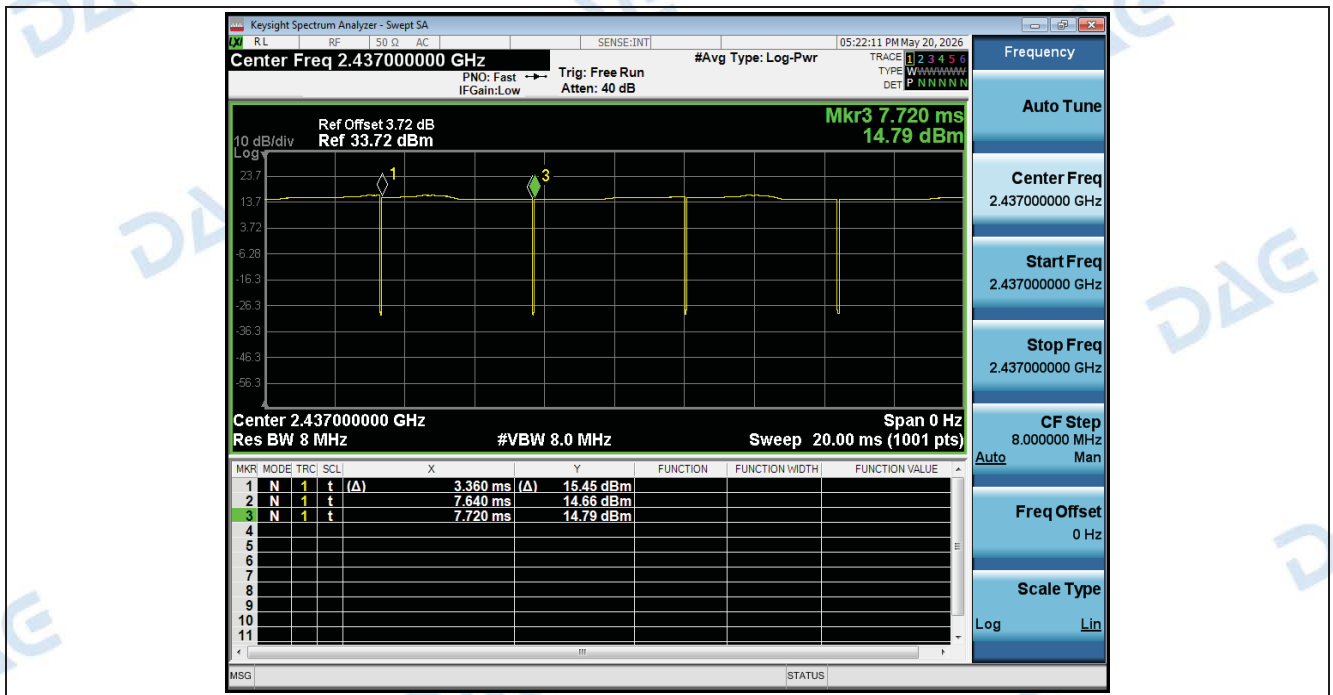
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.62	0.00
NVNT	ANT1	802.11b	2437.00	98.62	0.00
NVNT	ANT1	802.11b	2462.00	98.62	0.00
NVNT	ANT1	802.11g	2412.00	83.33	0.79
NVNT	ANT1	802.11g	2437.00	83.33	0.79
NVNT	ANT1	802.11g	2462.00	84.62	0.73
NVNT	ANT1	802.11n(HT20)	2412.00	97.06	0.13
NVNT	ANT1	802.11n(HT20)	2437.00	97.10	0.13
NVNT	ANT1	802.11n(HT20)	2462.00	97.06	0.13
NVNT	ANT1	802.11n(HT40)	2422.00	94.29	0.26
NVNT	ANT1	802.11n(HT40)	2437.00	94.44	0.25
NVNT	ANT1	802.11n(HT40)	2452.00	94.29	0.26

Duty_Cycle_NVNT_ANT1_802_11b_2412

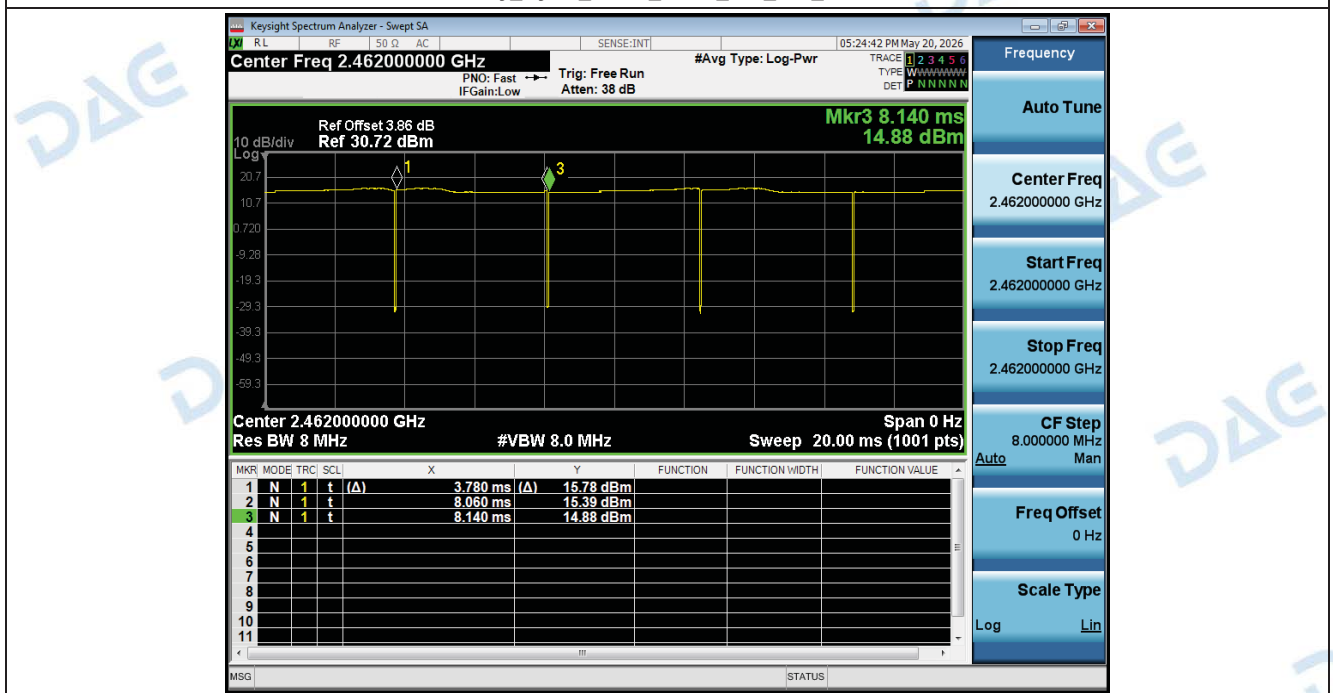


Duty_Cycle_NVNT_ANT1_802_11b_2437

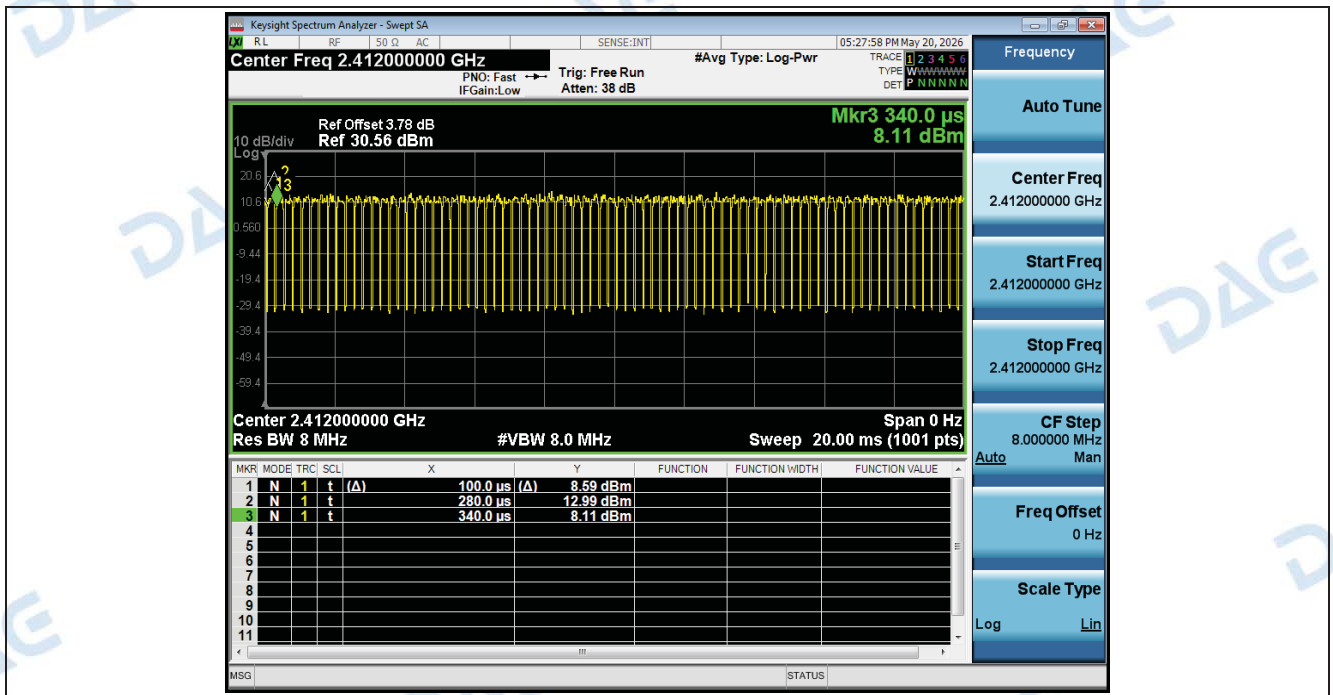




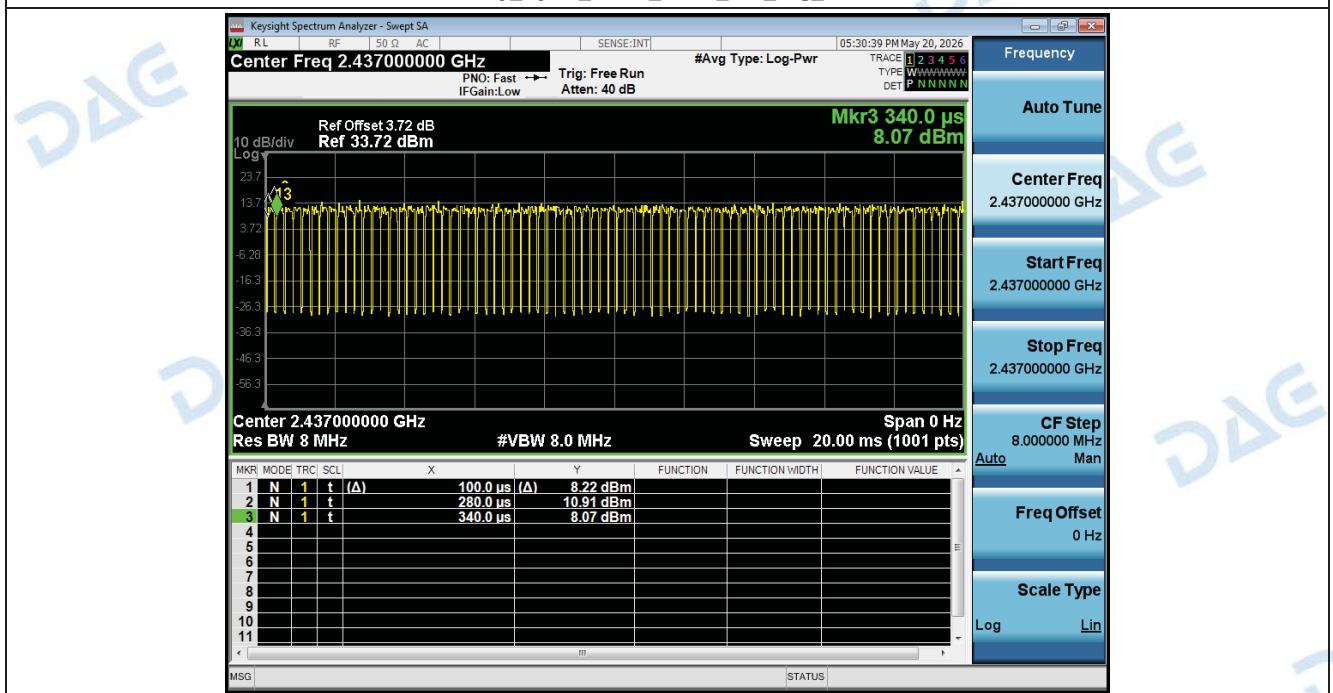
Duty_Cycle_NVNT_ANT1_802_11b_2462



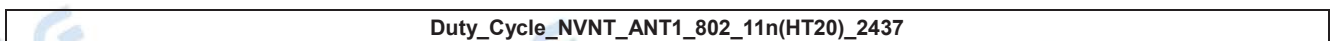
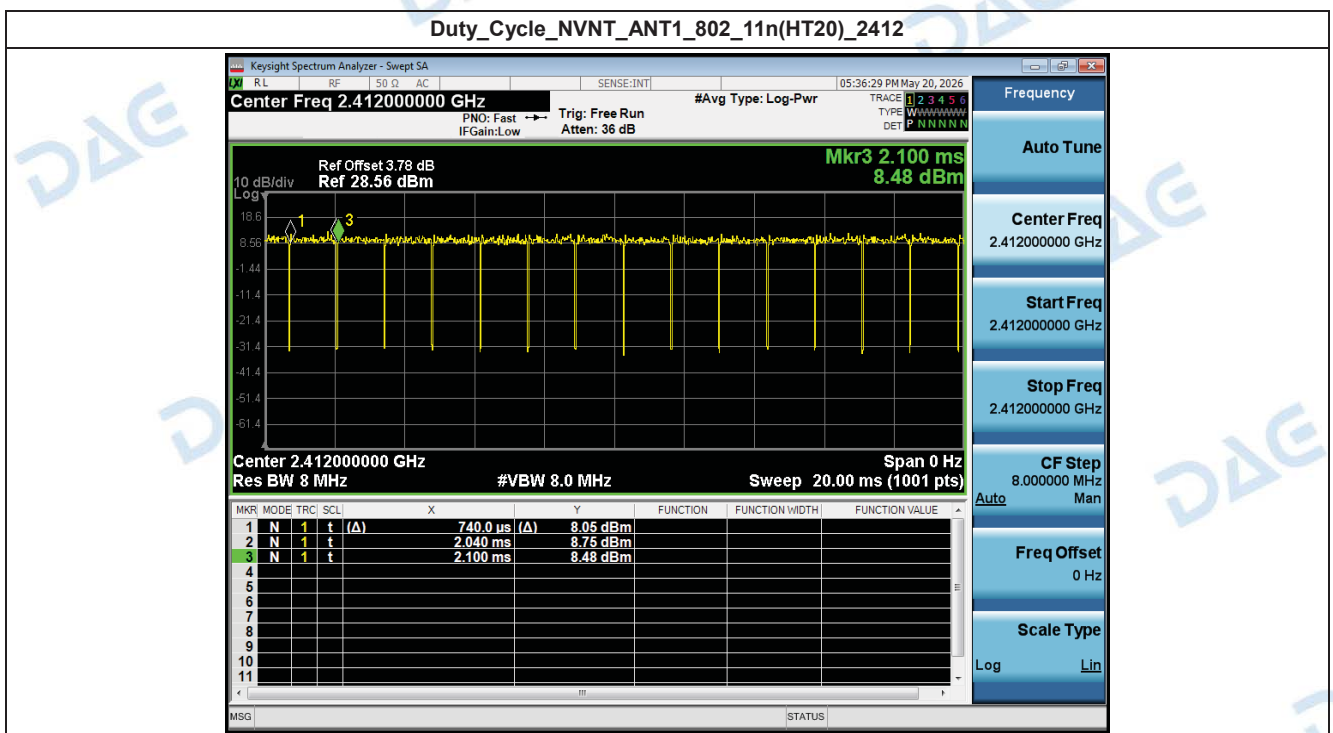
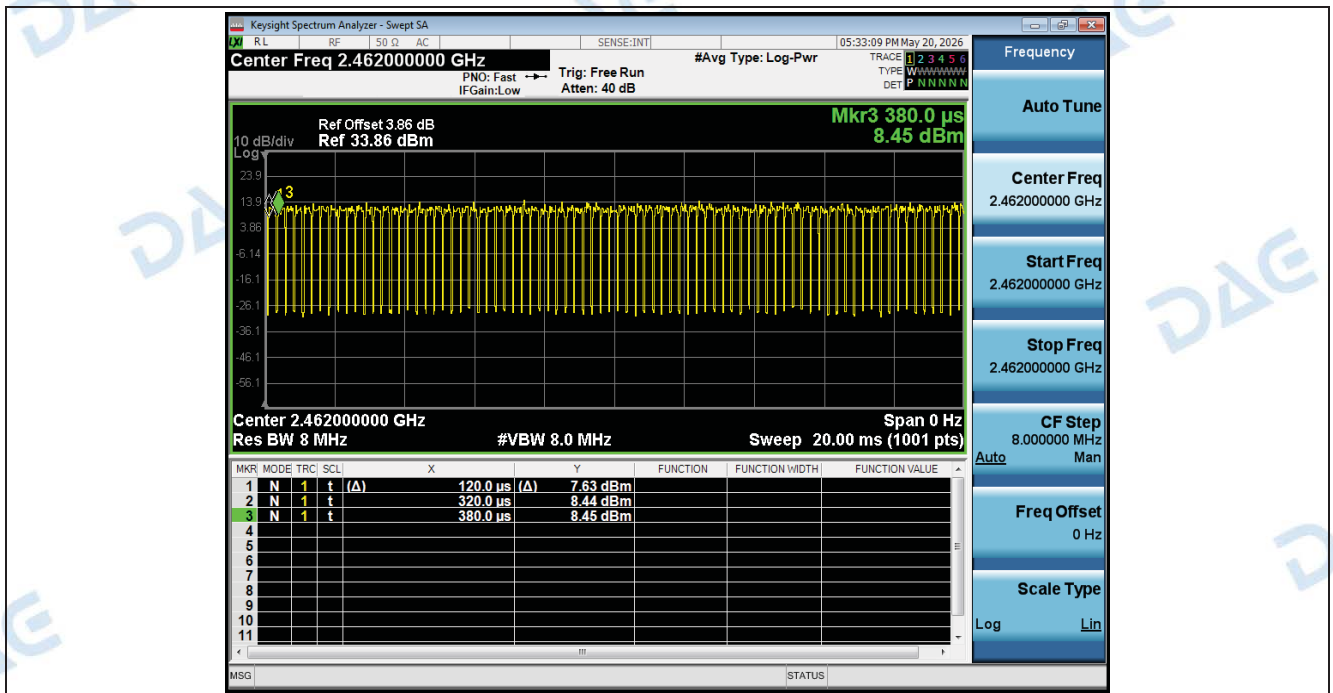
Duty_Cycle_NVNT_ANT1_802_11g_2412

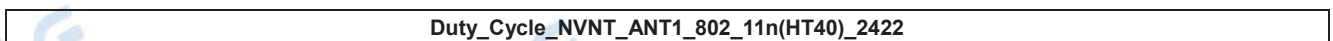
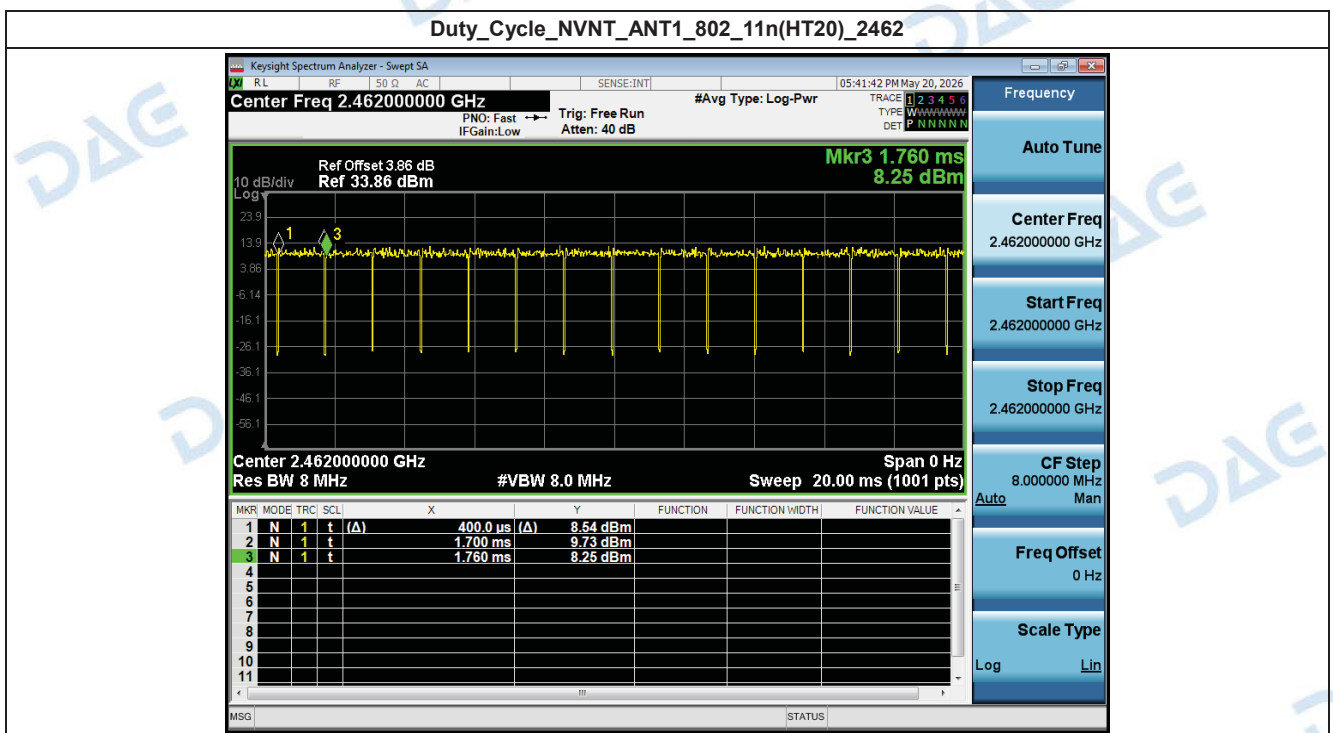
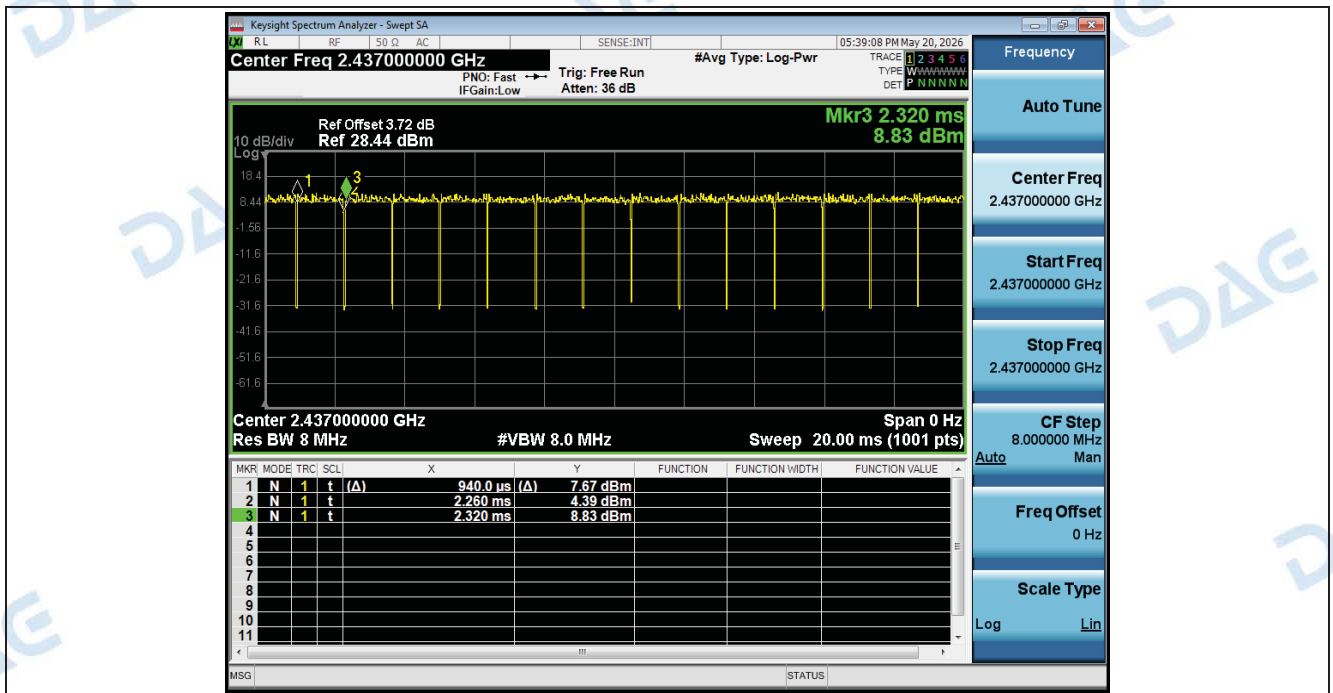


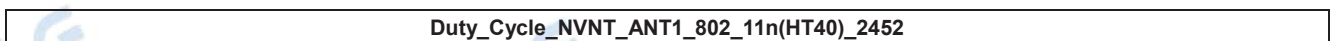
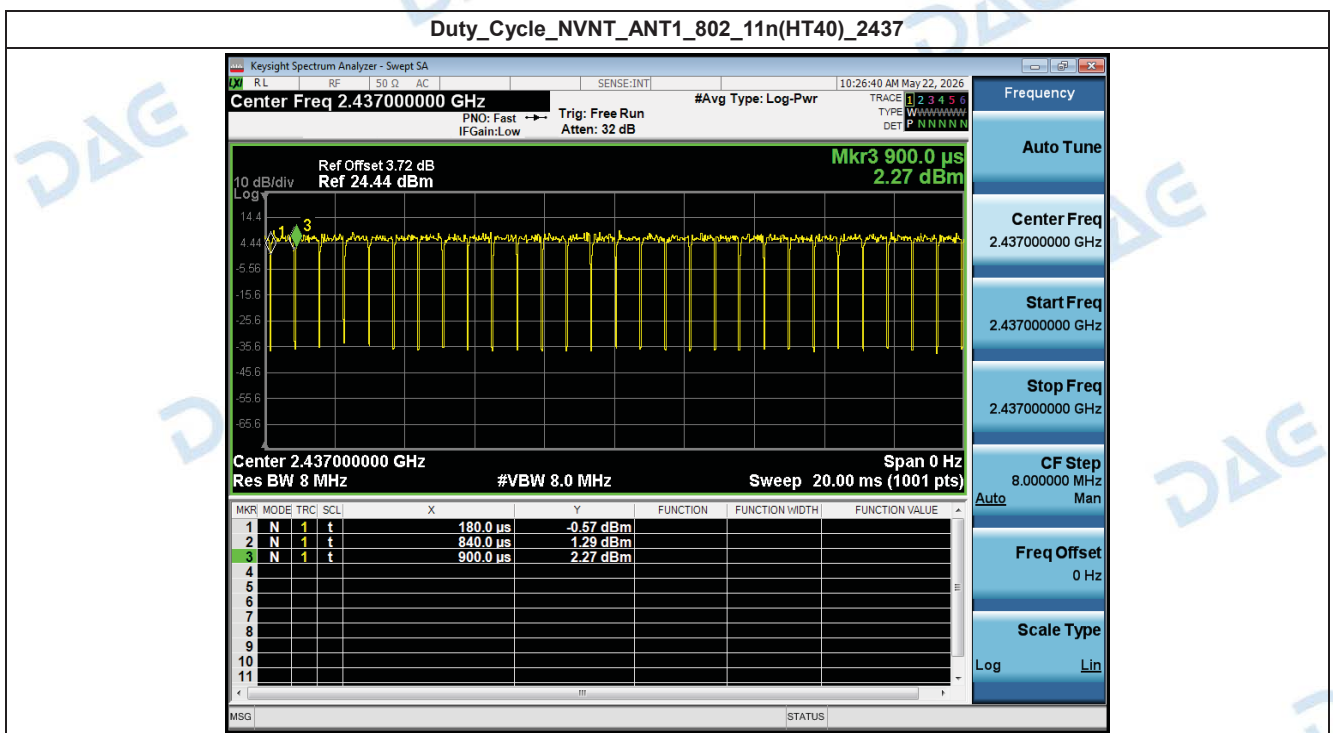
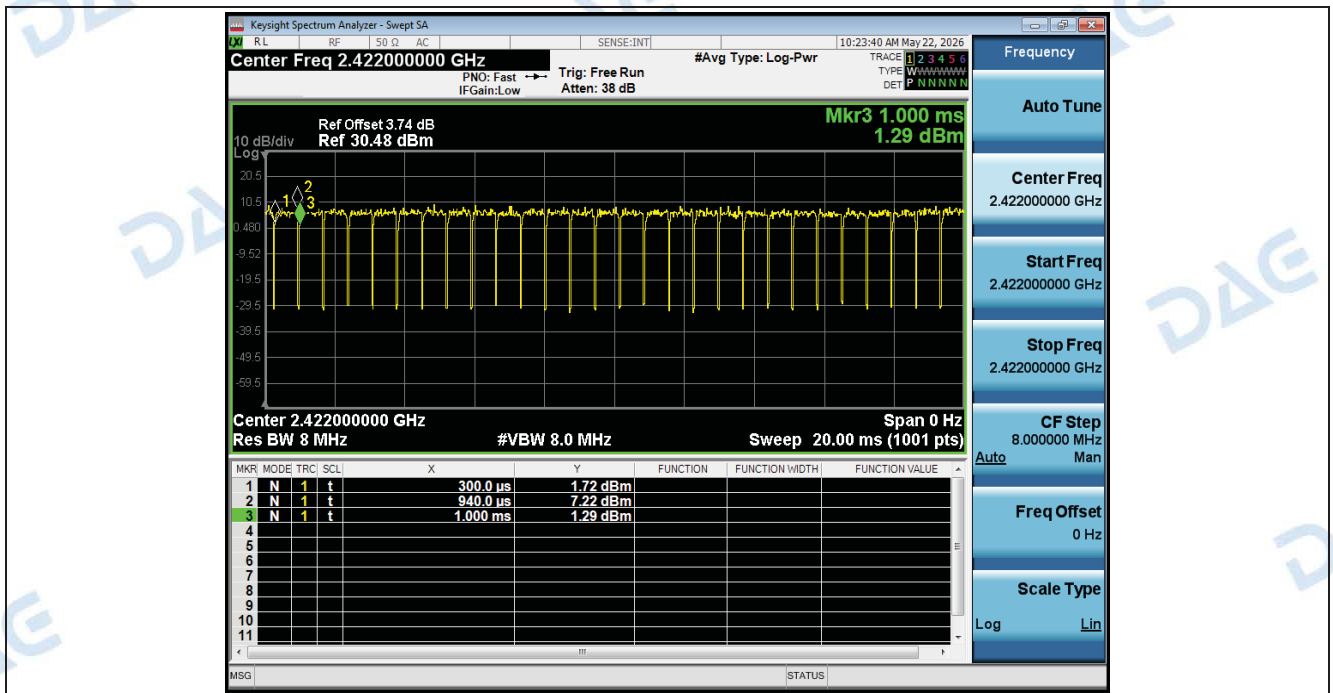
Duty_Cycle_NVNT_ANT1_802_11g_2437

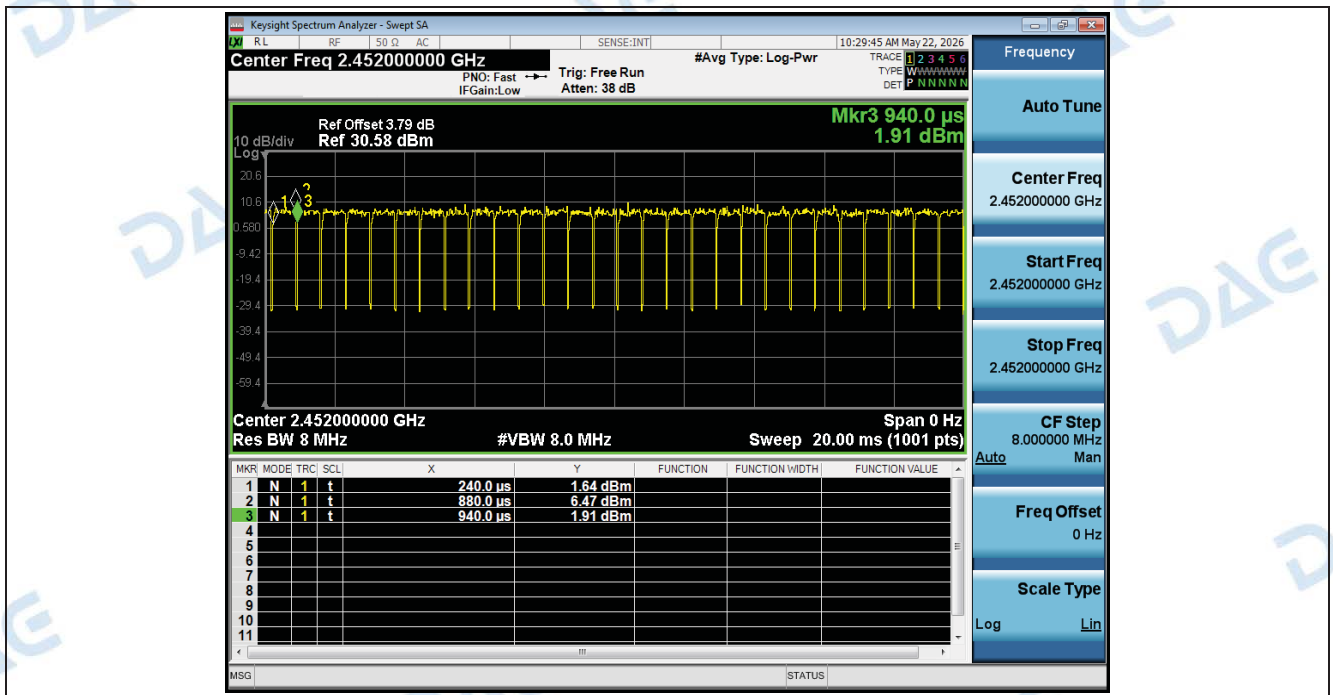


Duty_Cycle_NVNT_ANT1_802_11g_2462









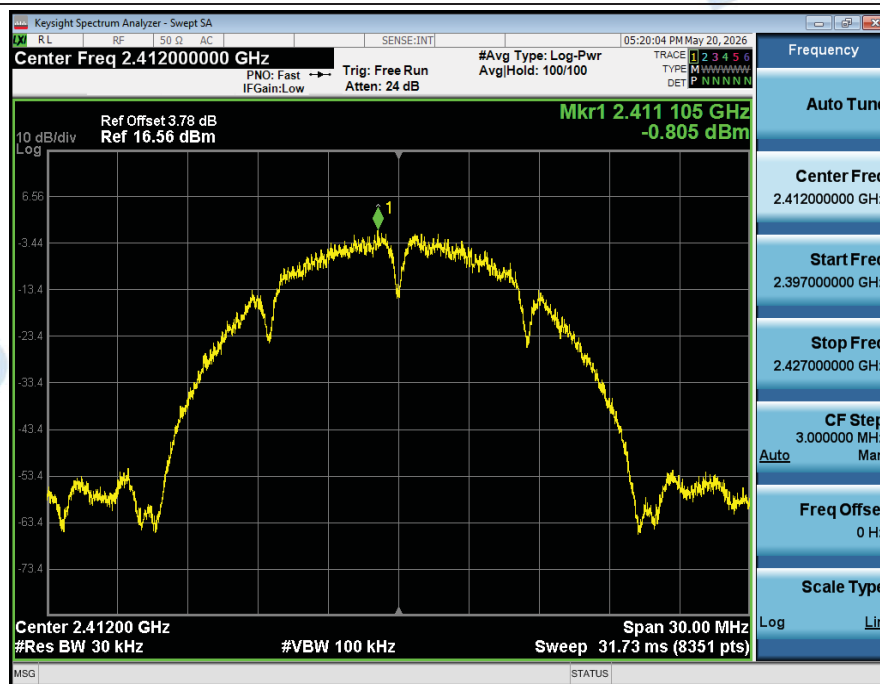
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	14.71	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	14.42	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	14.50	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	13.56	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.42	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	13.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	12.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	12.05	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	12.30	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	11.14	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	11.08	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	11.57	30	Pass

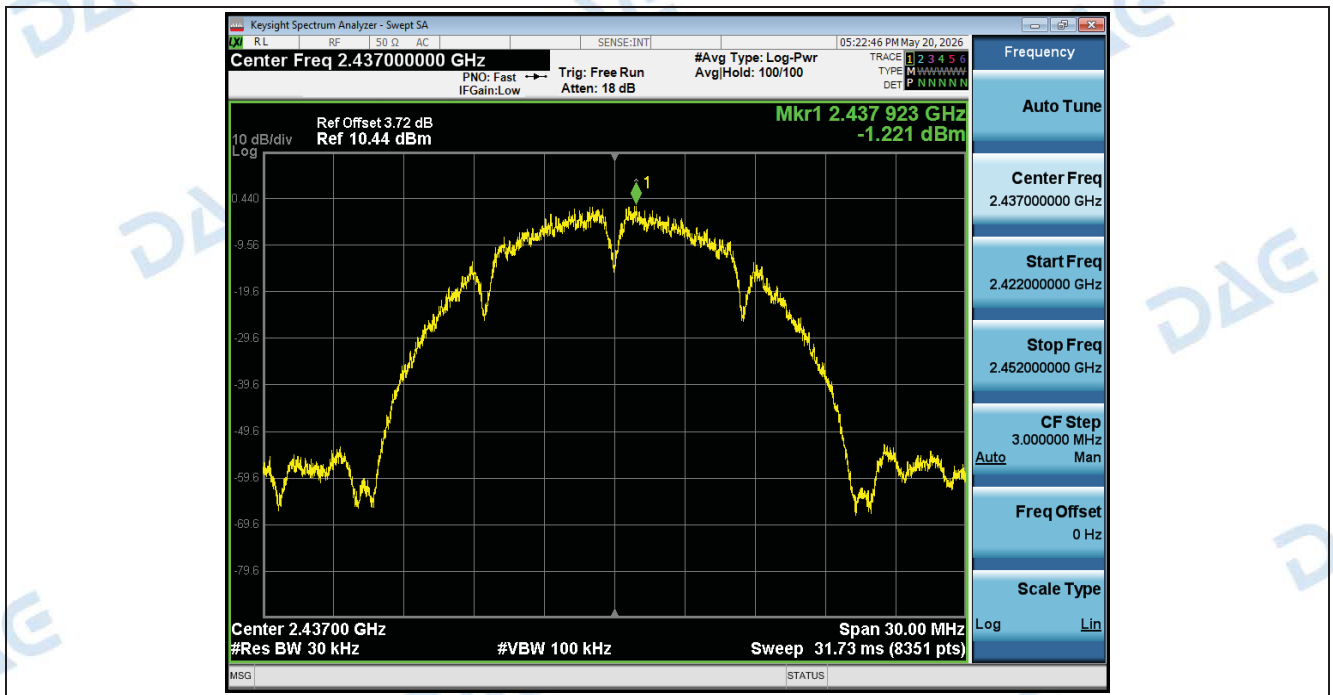
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.81	N/A	-10.00	-10.80	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.22	N/A	-10.00	-11.22	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.29	N/A	-10.00	-11.29	8	Pass
NVNT	ANT1	802.11g	2412.00	-8.81	N/A	-10.00	-18.81	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.43	N/A	-10.00	-19.43	8	Pass
NVNT	ANT1	802.11g	2462.00	-9.15	N/A	-10.00	-19.15	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-9.24	N/A	-10.00	-19.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-9.57	N/A	-10.00	-19.57	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-9.28	N/A	-10.00	-19.28	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-13.75	N/A	-10.00	-23.75	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-13.66	N/A	-10.00	-23.66	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-13.54	N/A	-10.00	-23.54	8	Pass

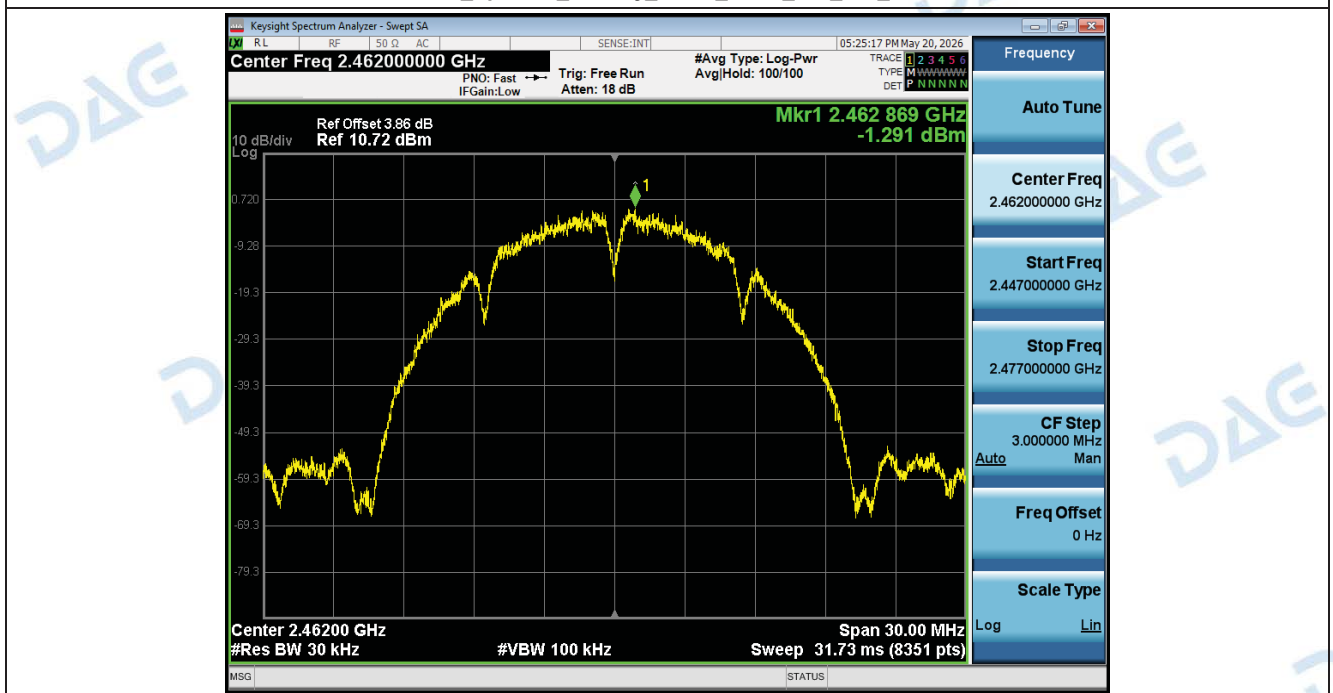
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



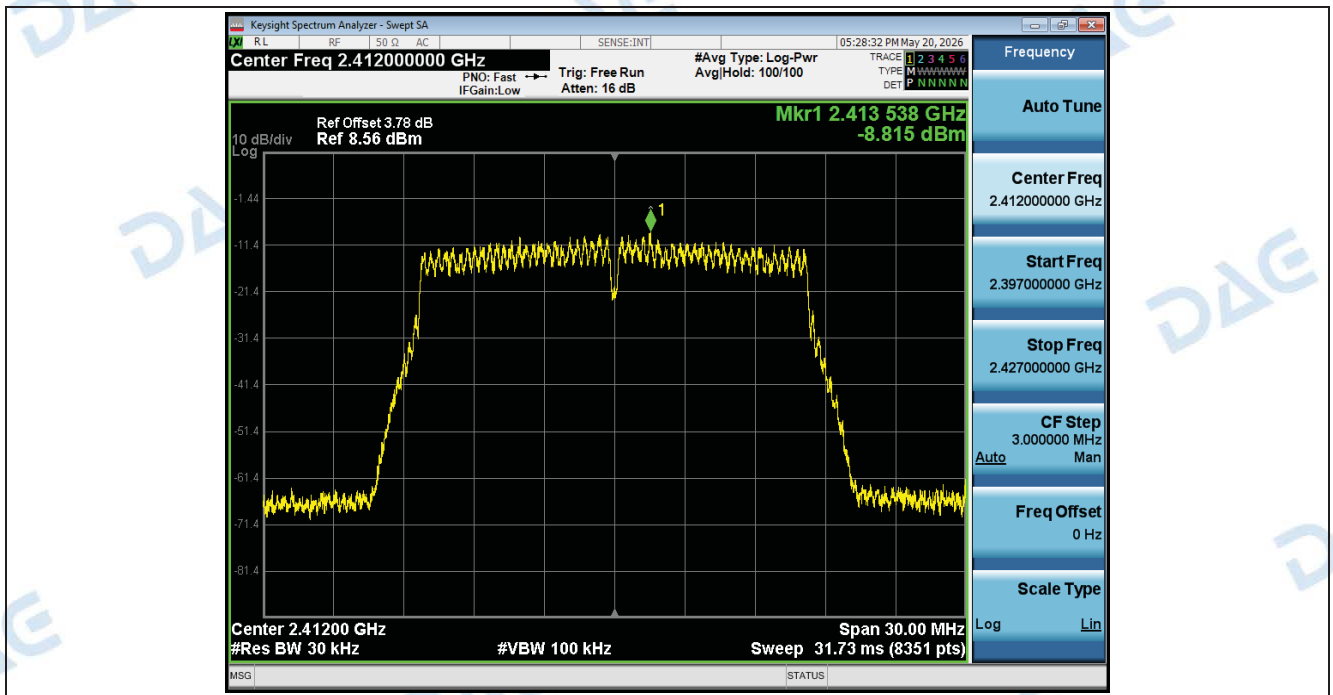
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



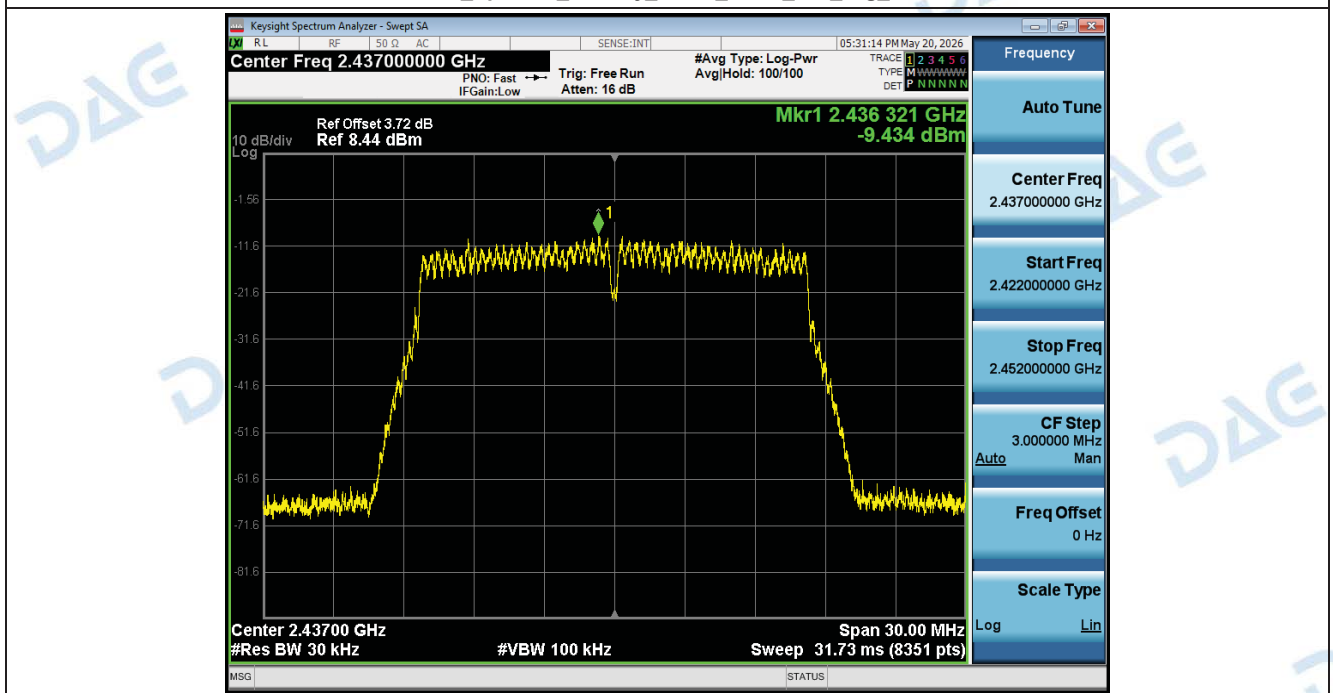
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



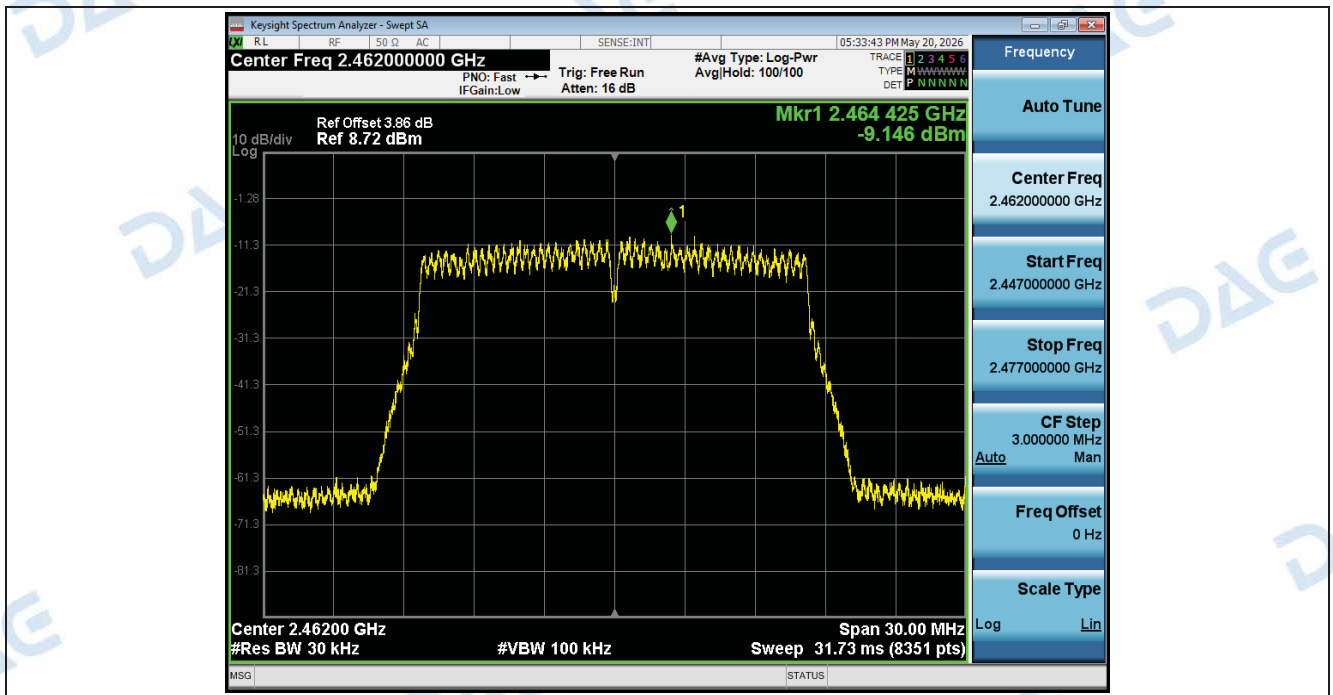
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



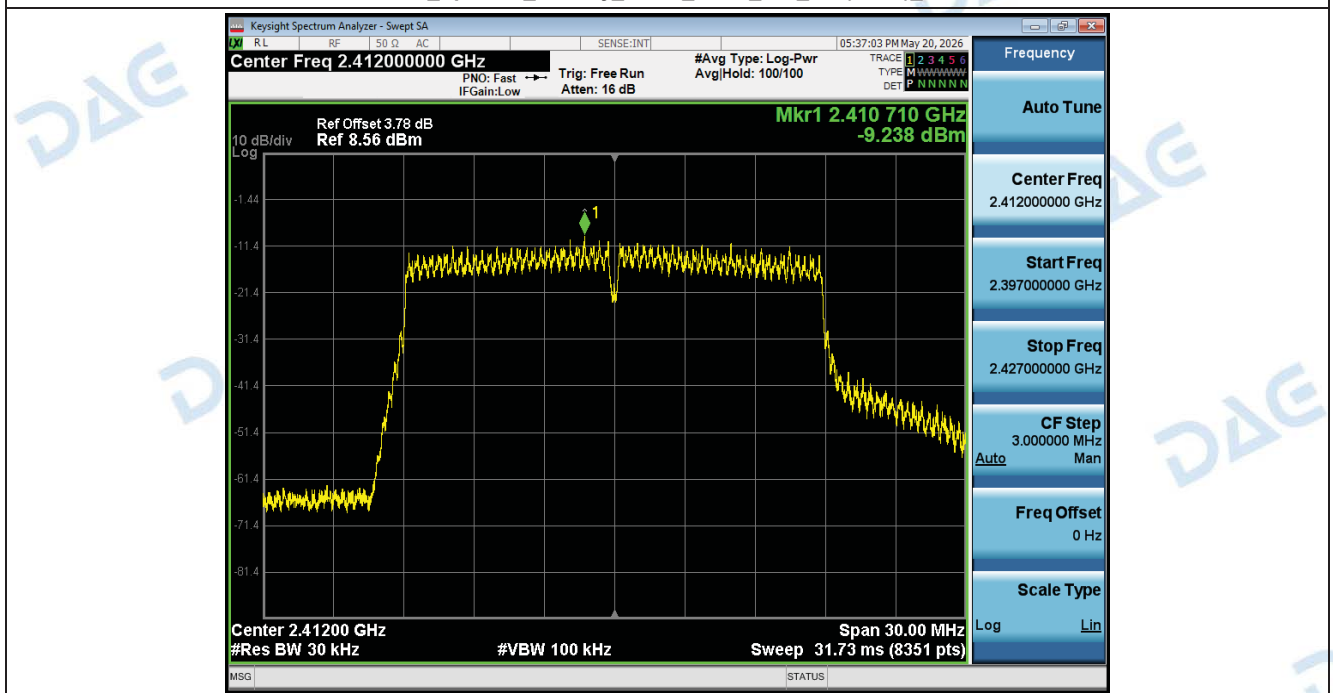
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



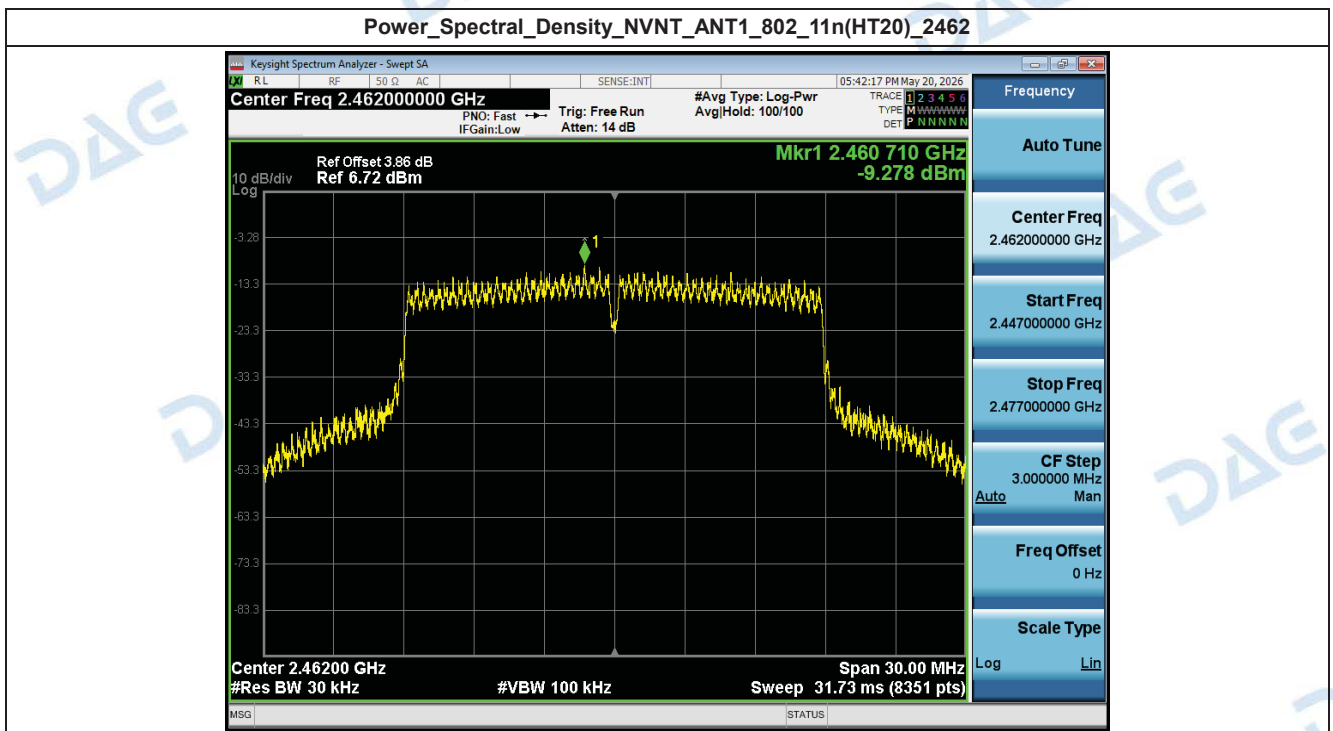
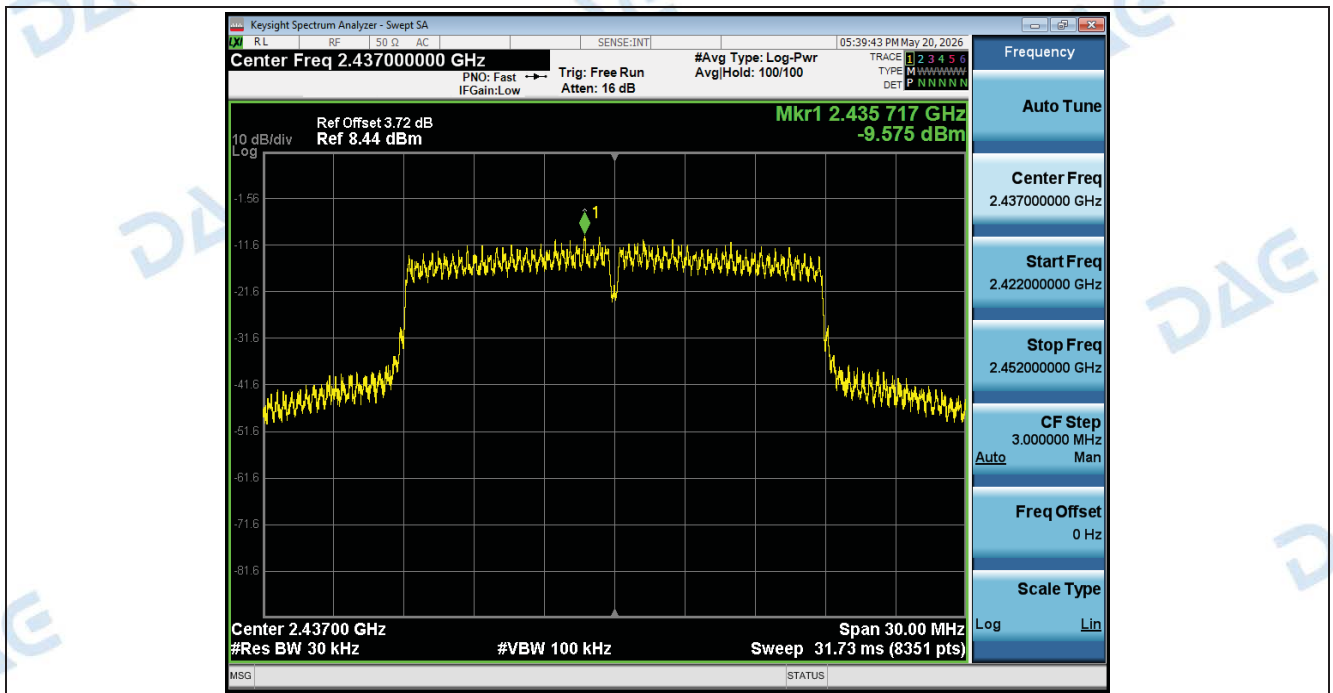
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



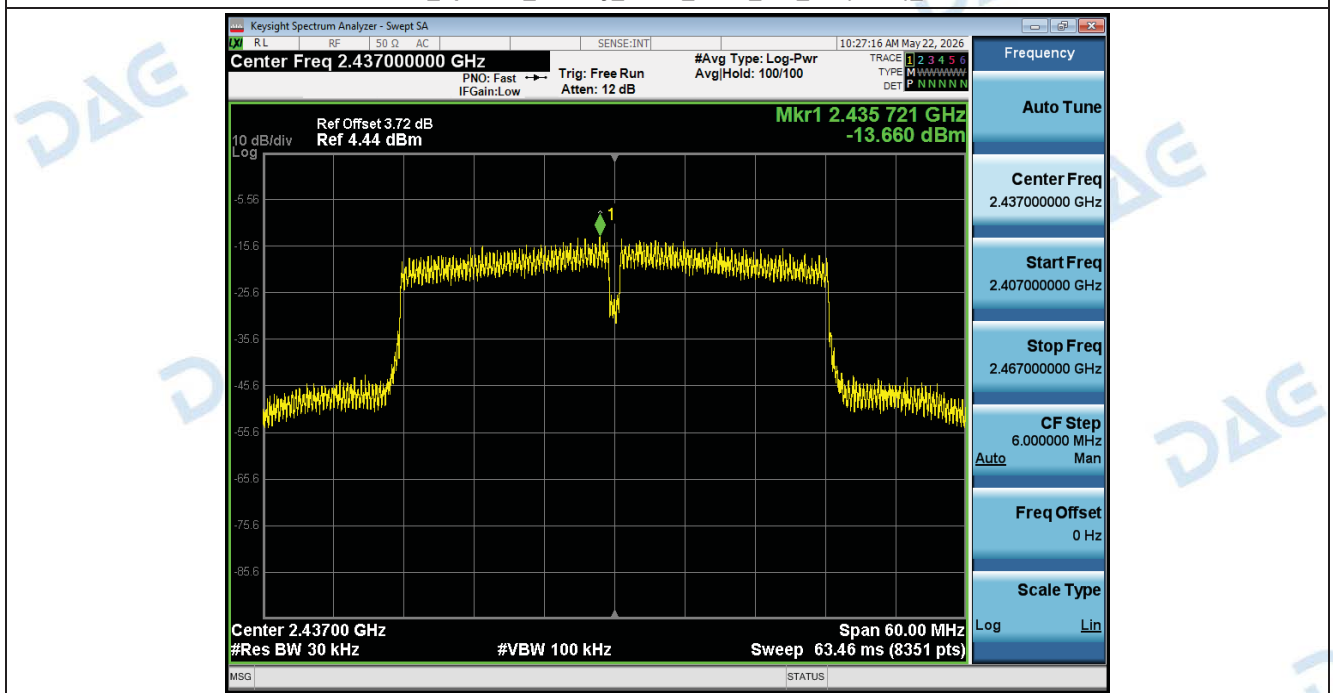
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



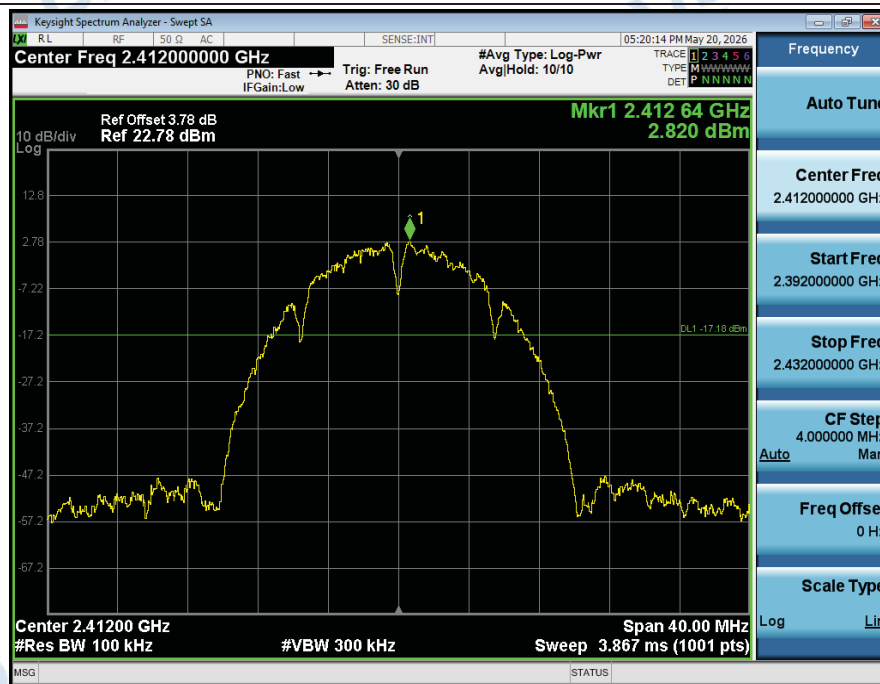
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



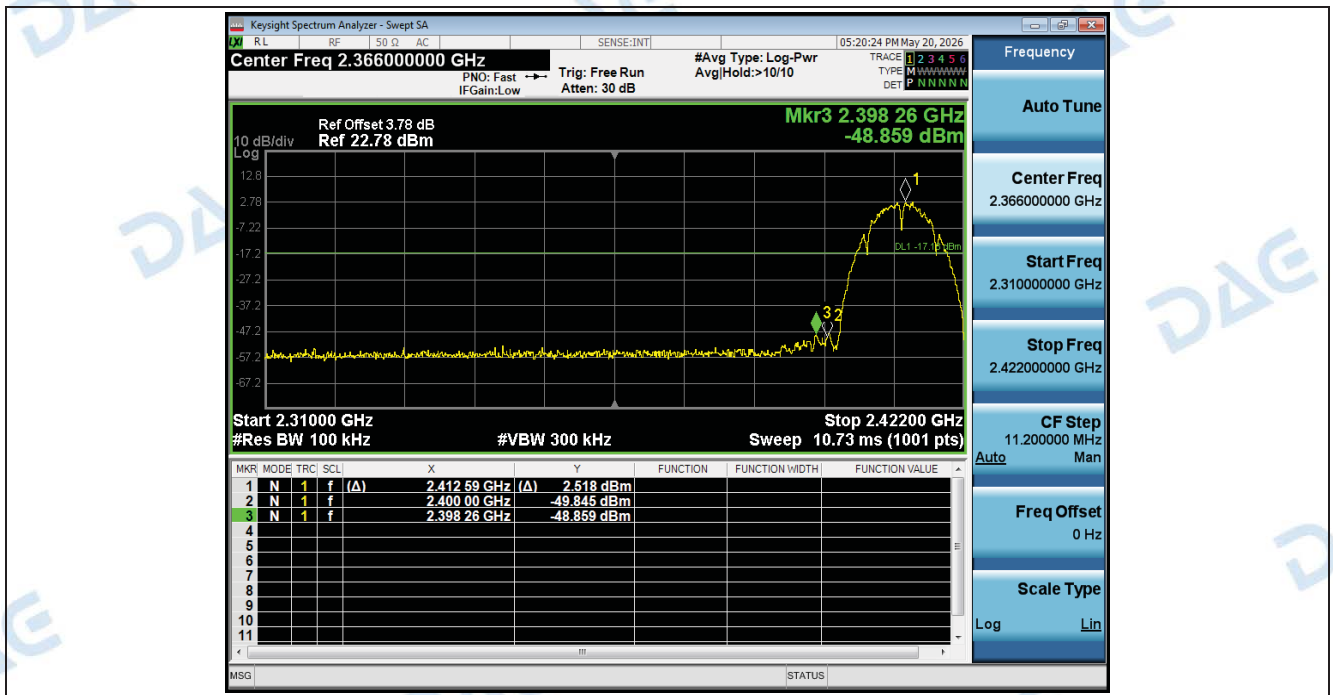
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.256	2.820	-48.859	-17.180	Pass
NVNT	ANT1	802.11b	2462.00	2490.592	3.123	-56.019	-16.877	Pass
NVNT	ANT1	802.11g	2412.00	2391.648	-4.863	-58.454	-24.863	Pass
NVNT	ANT1	802.11g	2462.00	2483.968	-4.677	-59.869	-24.677	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.920	-6.002	-57.123	-26.002	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.696	-5.060	-60.241	-25.060	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2389.464	-9.000	-57.510	-29.000	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-8.219	-57.907	-28.219	Pass

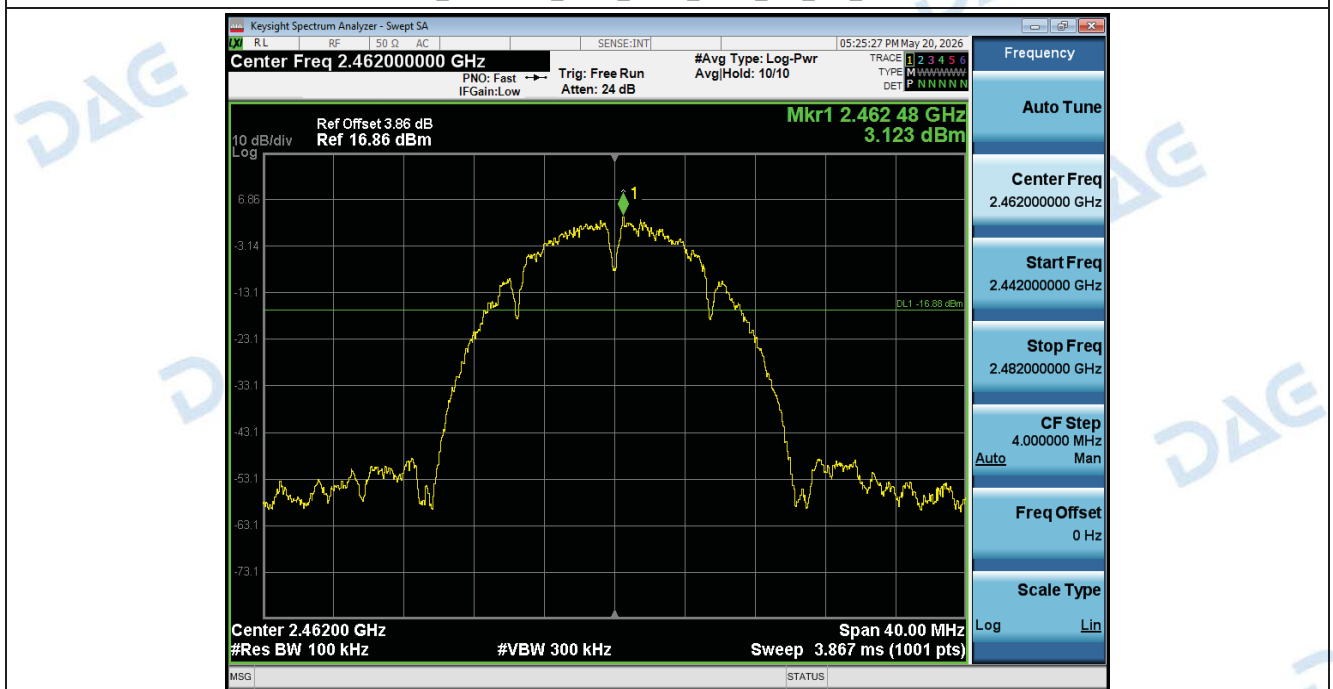
1_Reference_Level_NVNT_ANT1_802_11b_2412



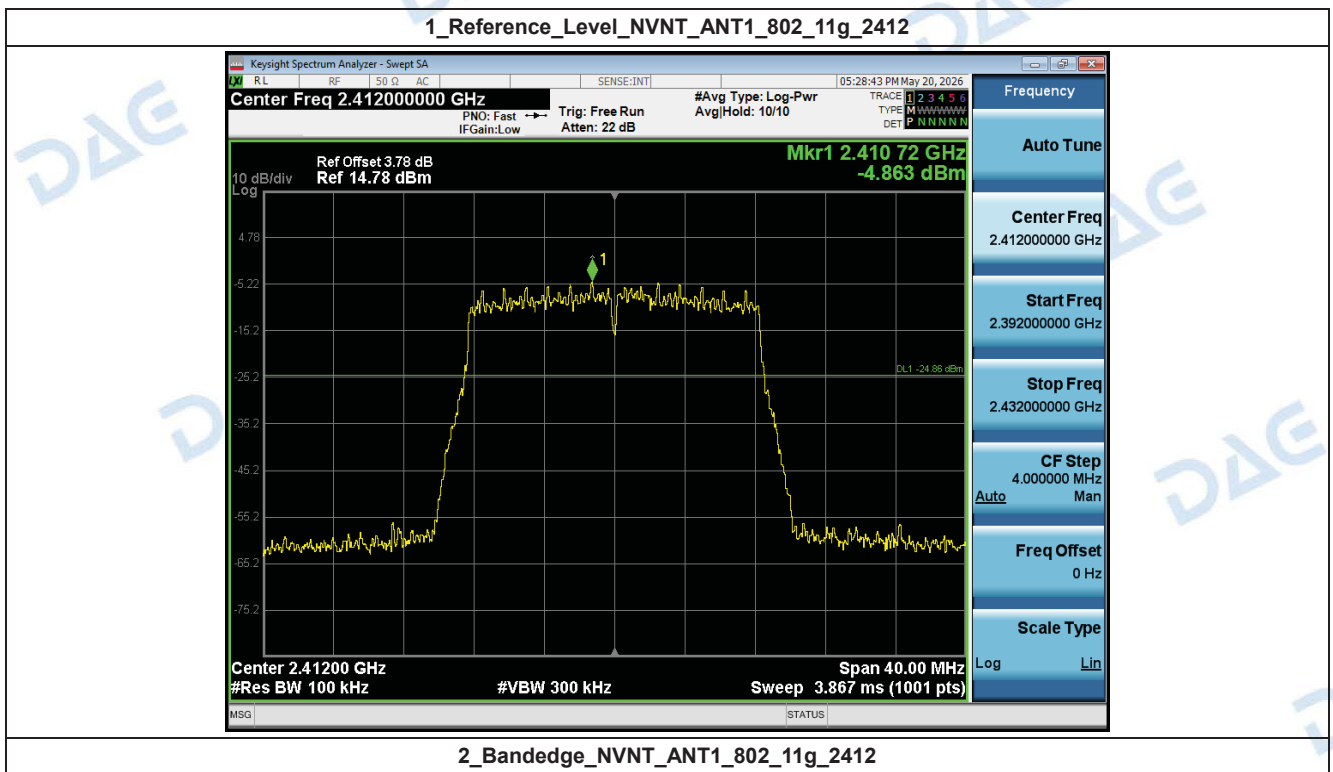
2_Bandedge_NVNT_ANT1_802_11b_2412

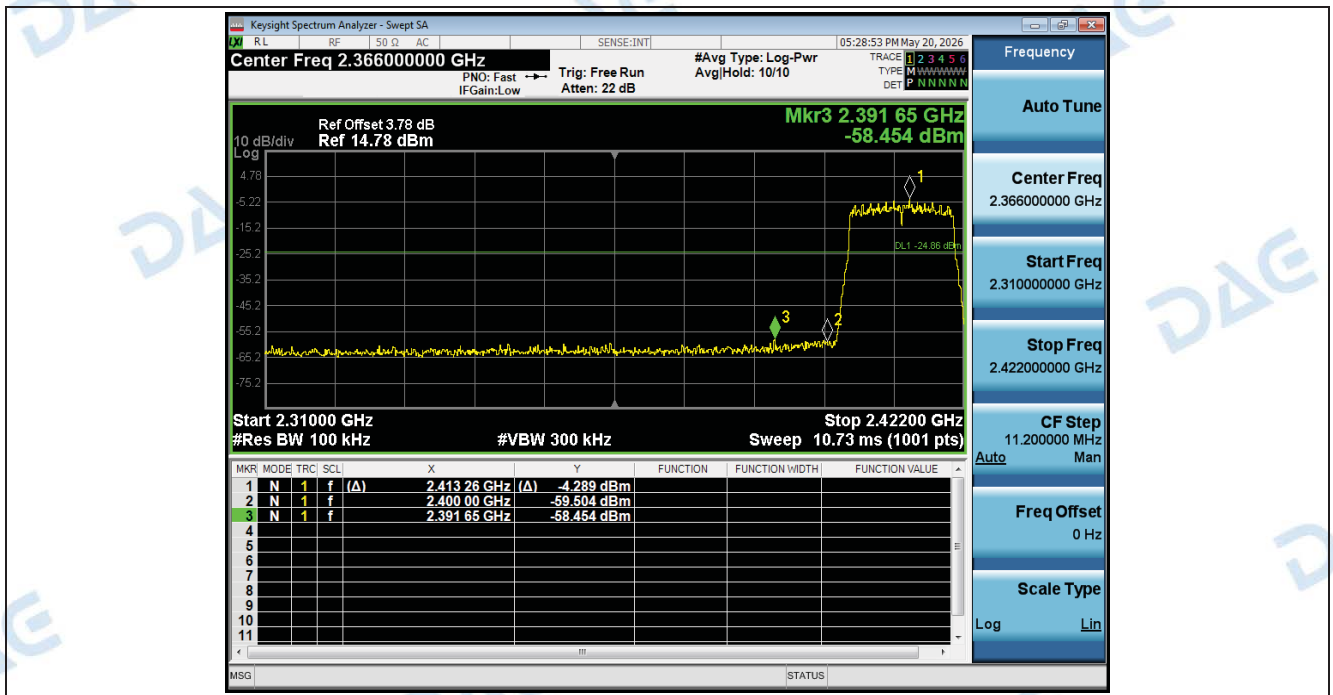


1_Reference_Level_NVNT_ANT1_802_11b_2462

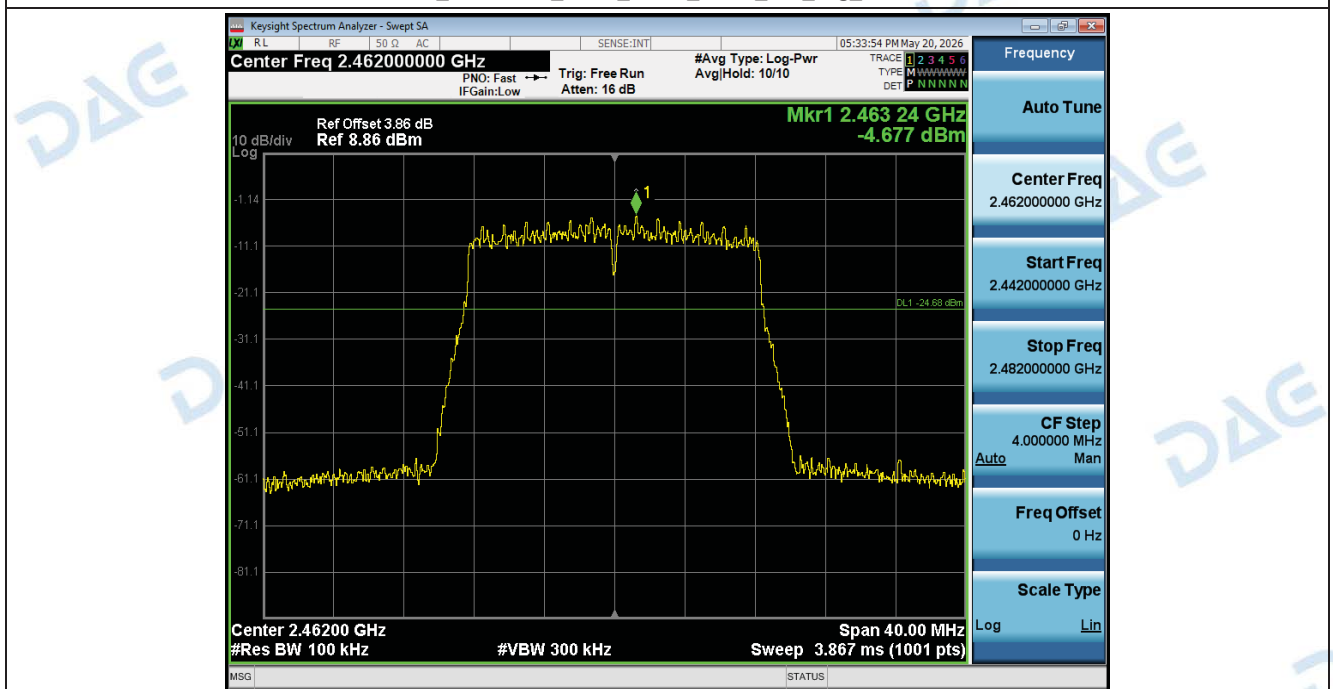


2_Bandedge_NVNT_ANT1_802_11b_2462

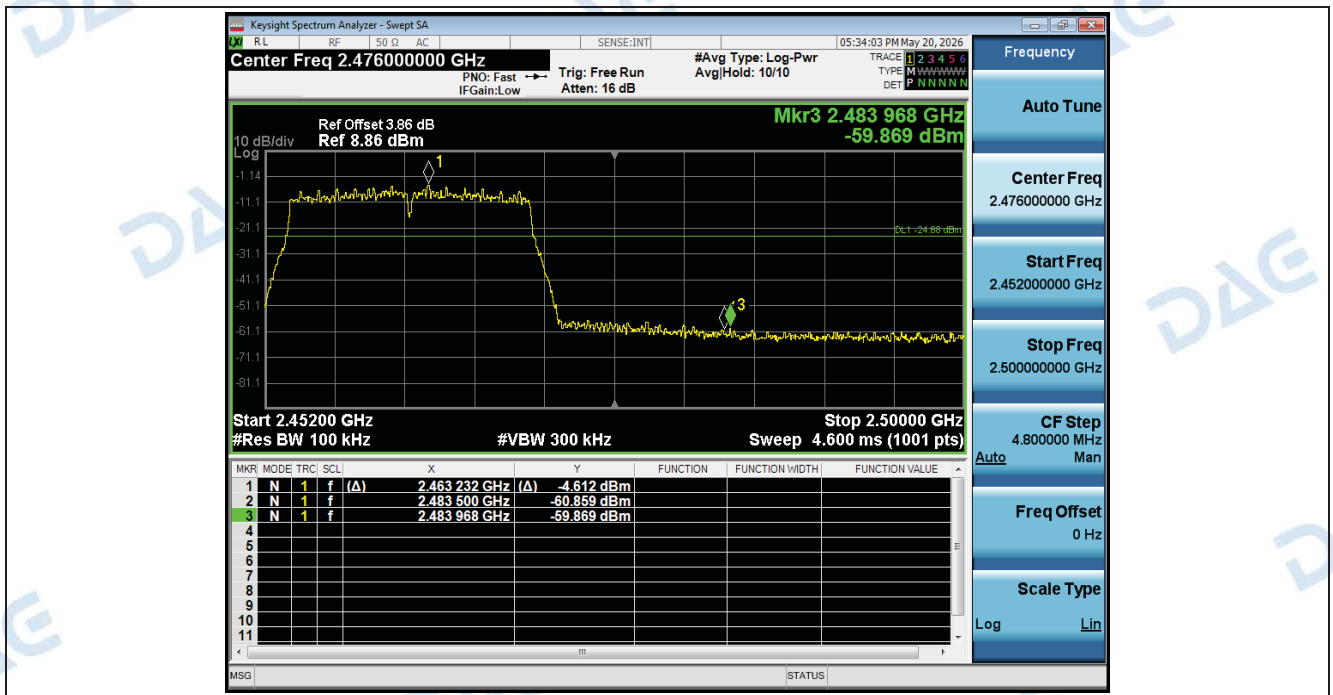




1_Reference_Level_NVNT_ANT1_802_11g_2462



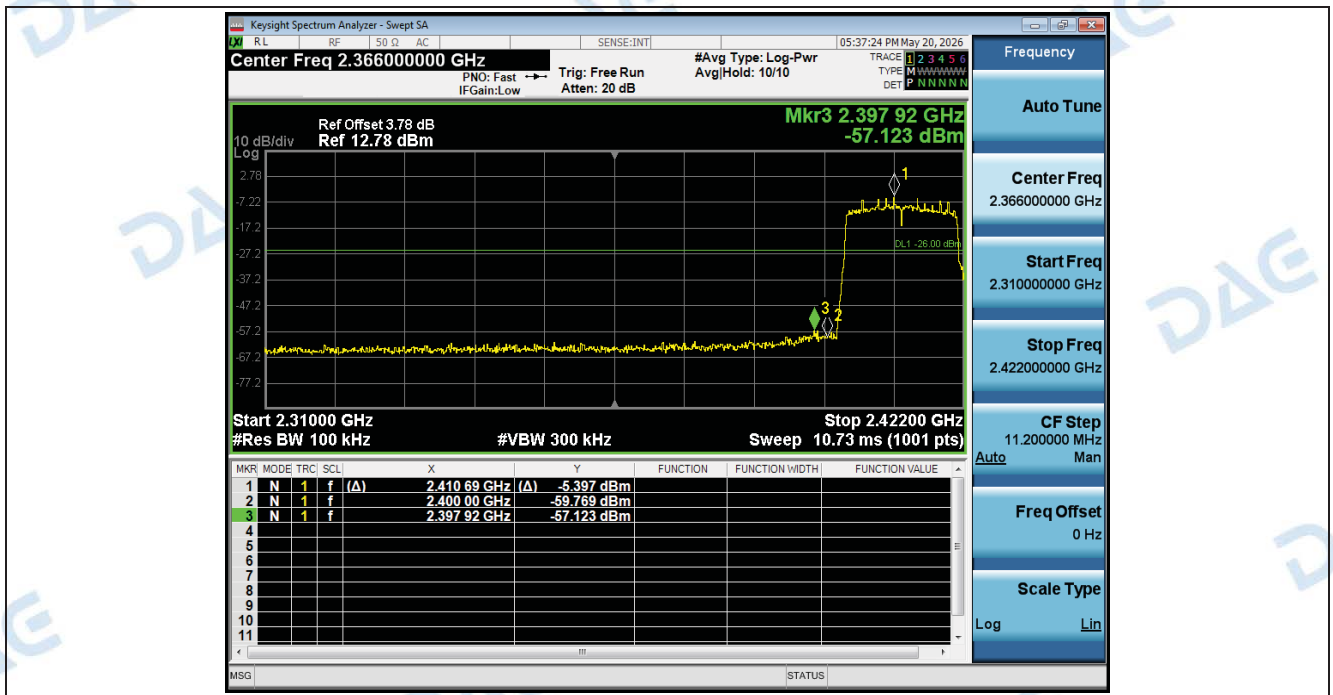
2_Bandedge_NVNT_ANT1_802_11g_2462



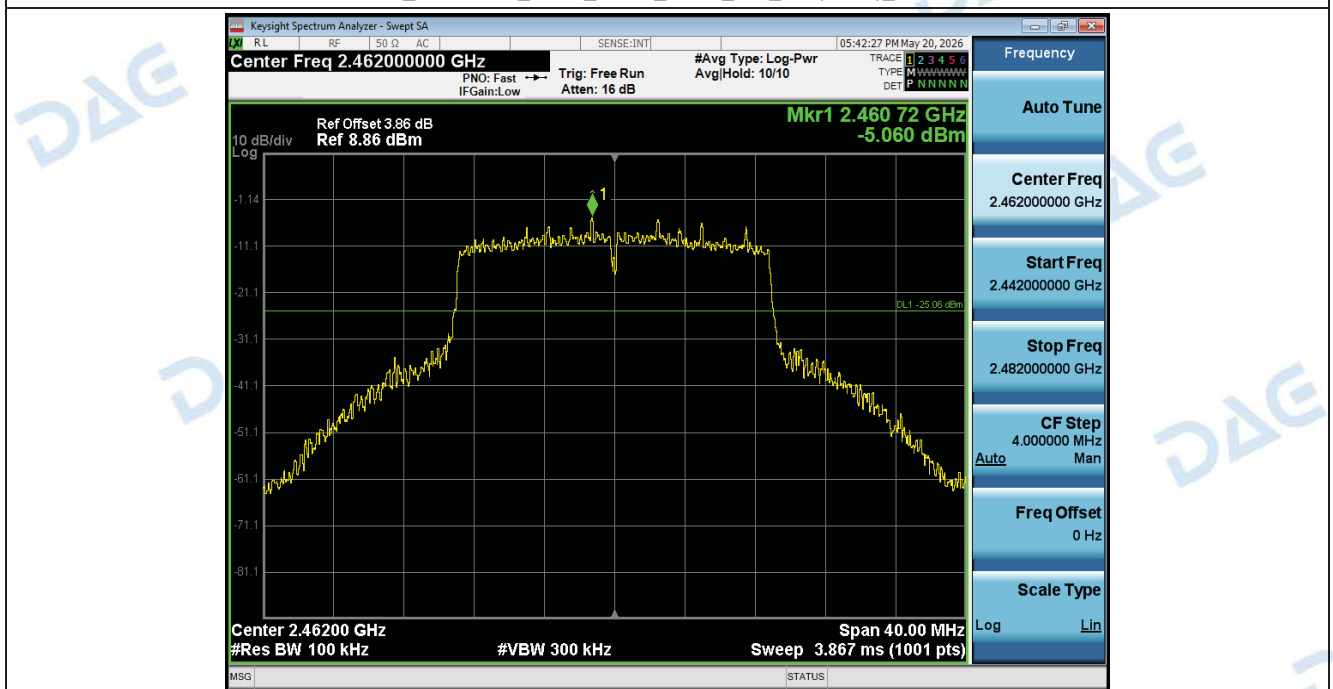
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



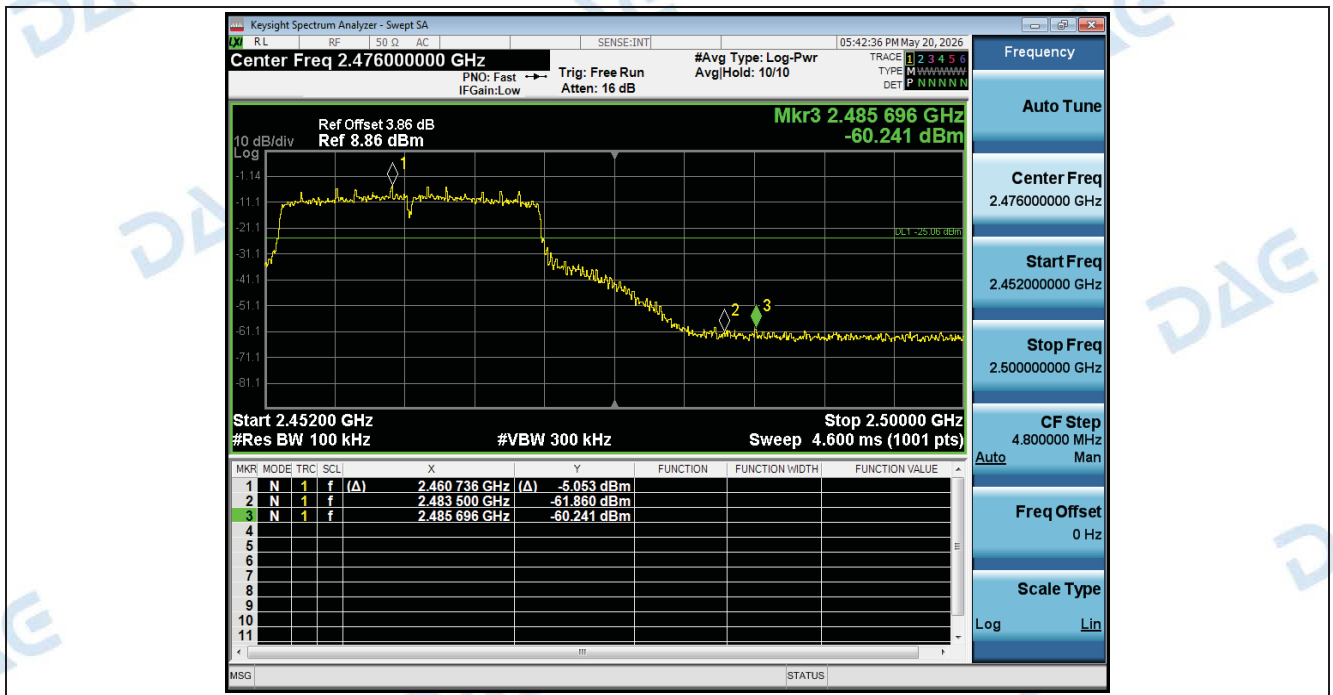
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



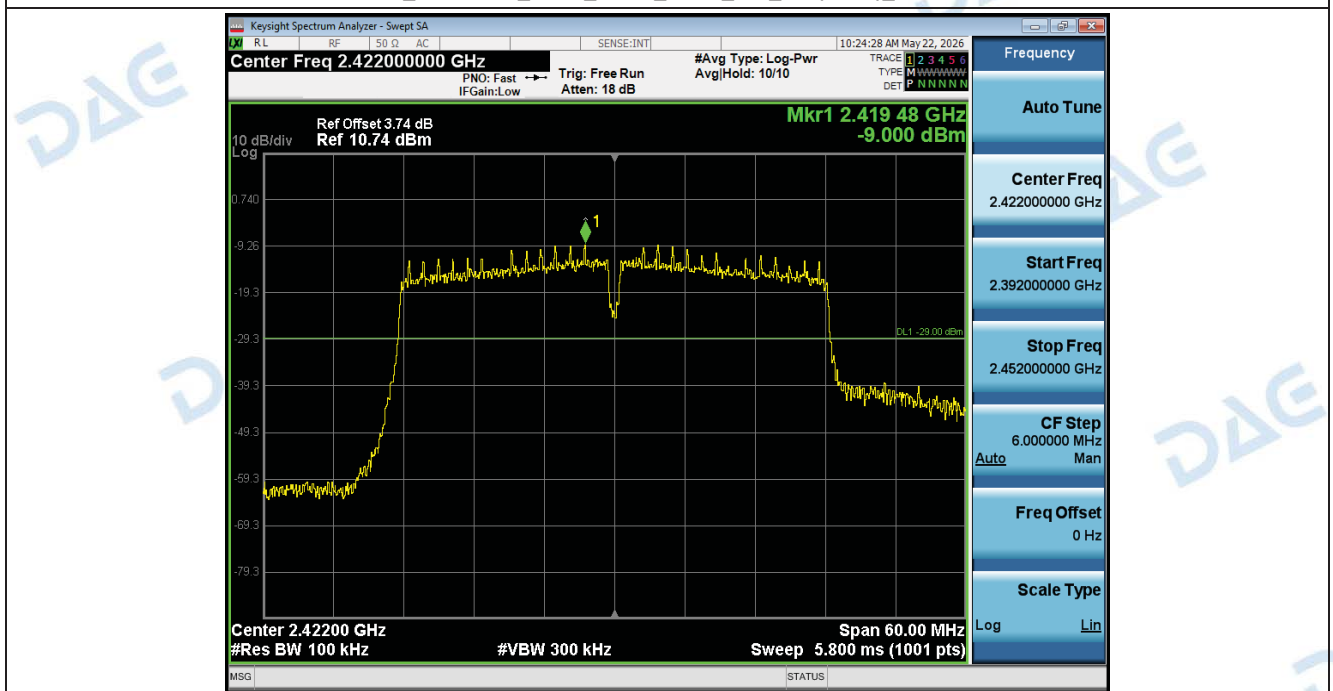
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



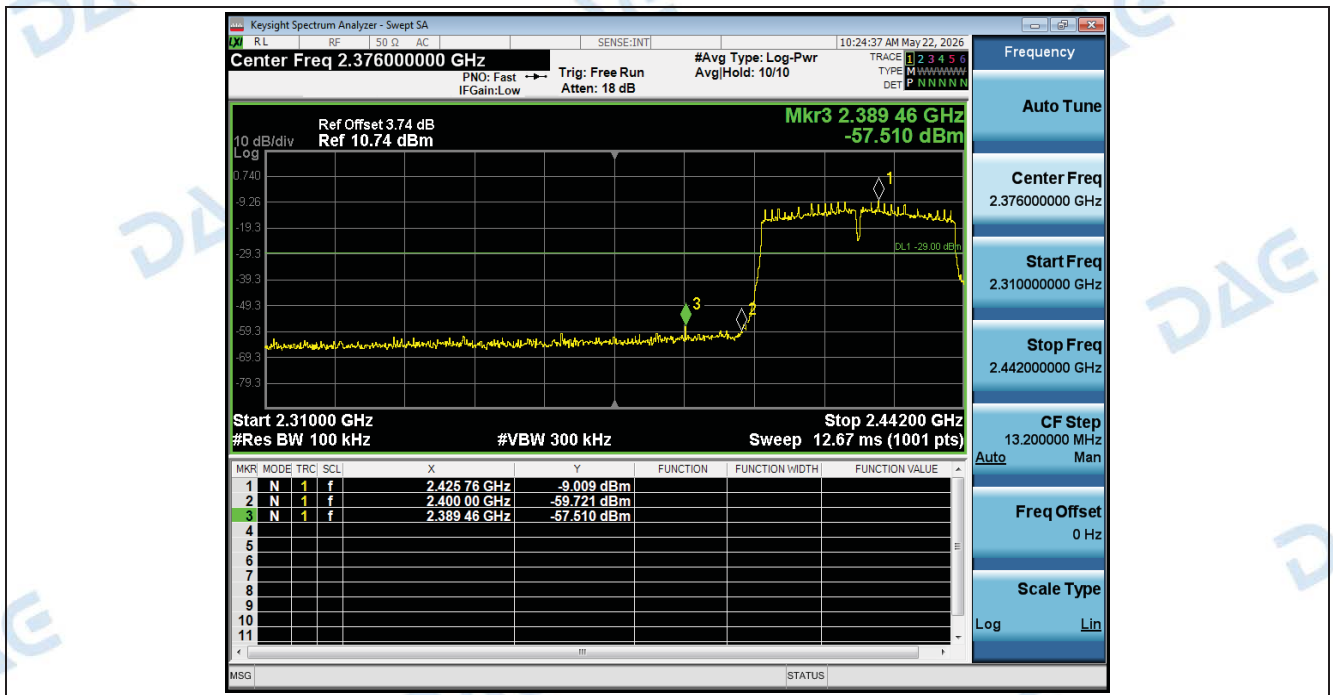
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



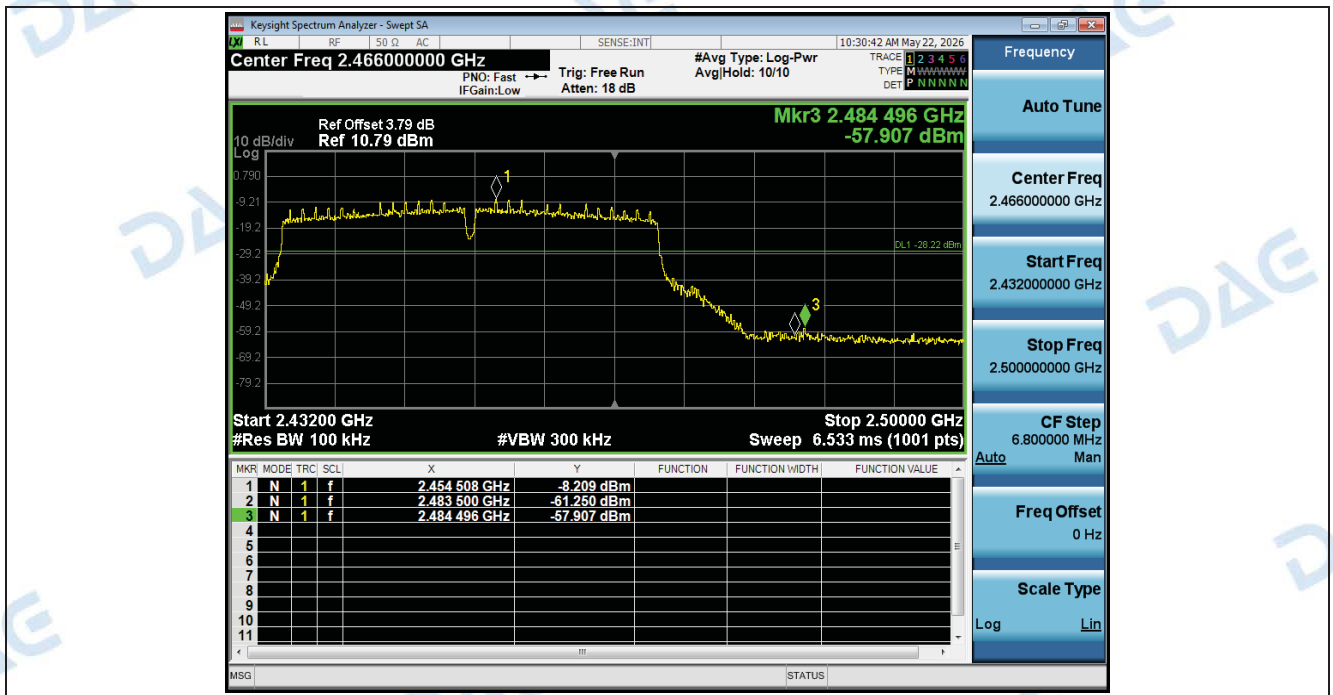
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



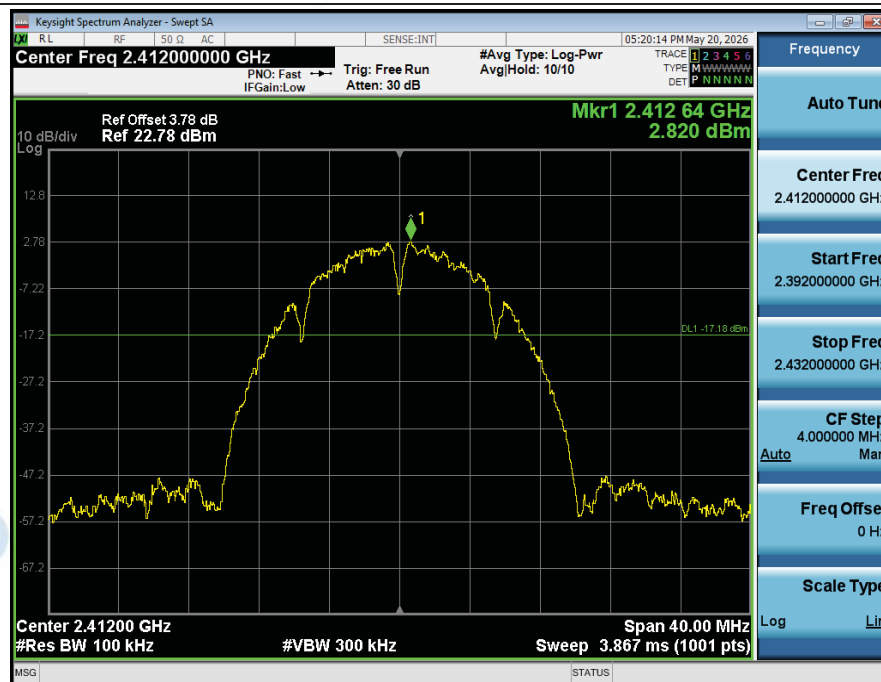
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



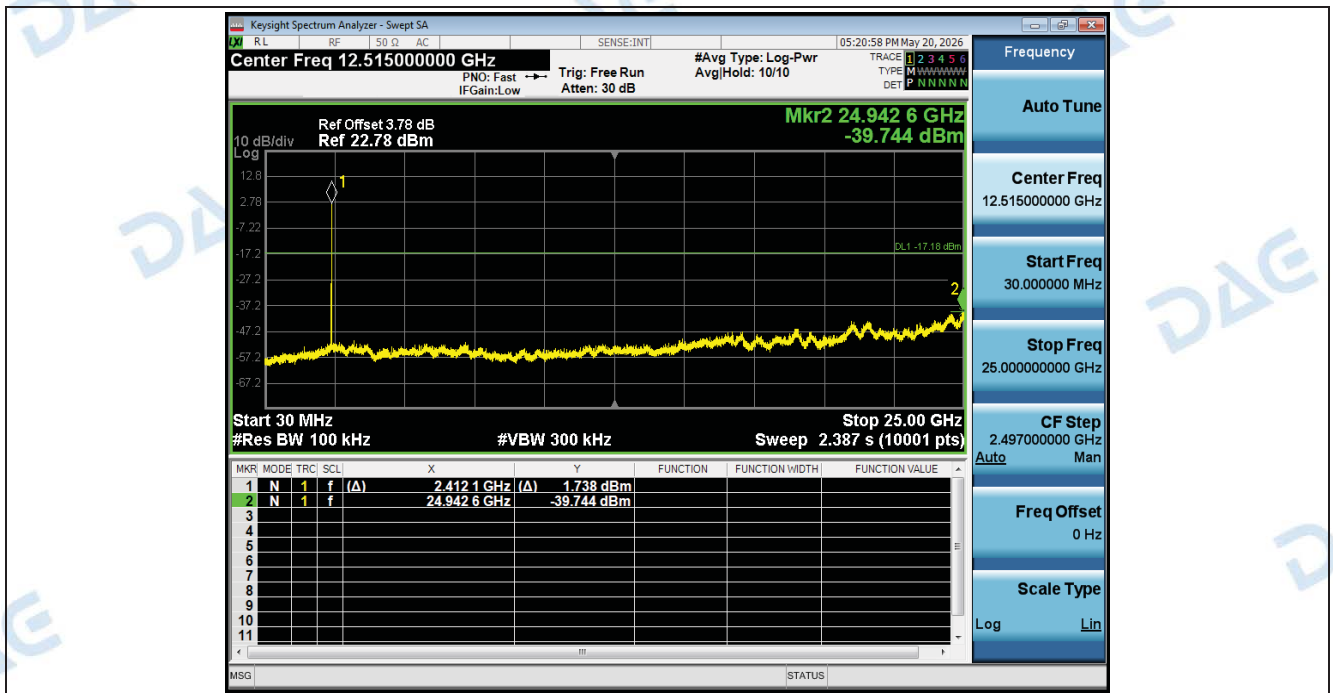
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24942.569	2.820	-39.744	-17.180	Pass
NVNT	ANT1	802.11b	2437.00	24942.569	2.287	-45.610	-17.713	Pass
NVNT	ANT1	802.11b	2462.00	24997.503	3.123	-46.048	-16.877	Pass
NVNT	ANT1	802.11g	2412.00	24960.048	-4.863	-47.861	-24.863	Pass
NVNT	ANT1	802.11g	2437.00	24515.582	-4.562	-53.681	-24.562	Pass
NVNT	ANT1	802.11g	2462.00	24962.545	-4.677	-53.894	-24.677	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24475.630	-6.002	-49.661	-26.002	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24503.097	-6.093	-49.992	-26.093	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24982.521	-5.060	-53.896	-25.060	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24967.539	-9.000	-52.386	-29.000	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24937.575	-8.677	-52.108	-28.677	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24997.503	-8.219	-52.063	-28.219	Pass

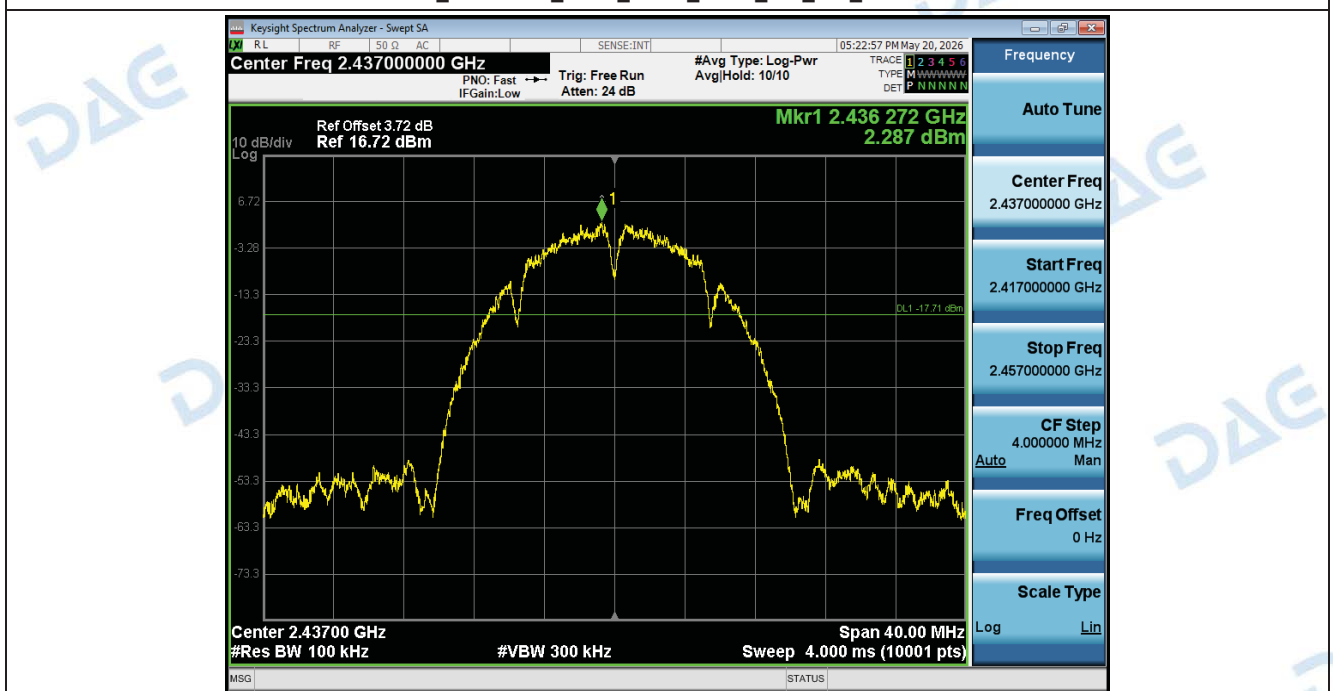
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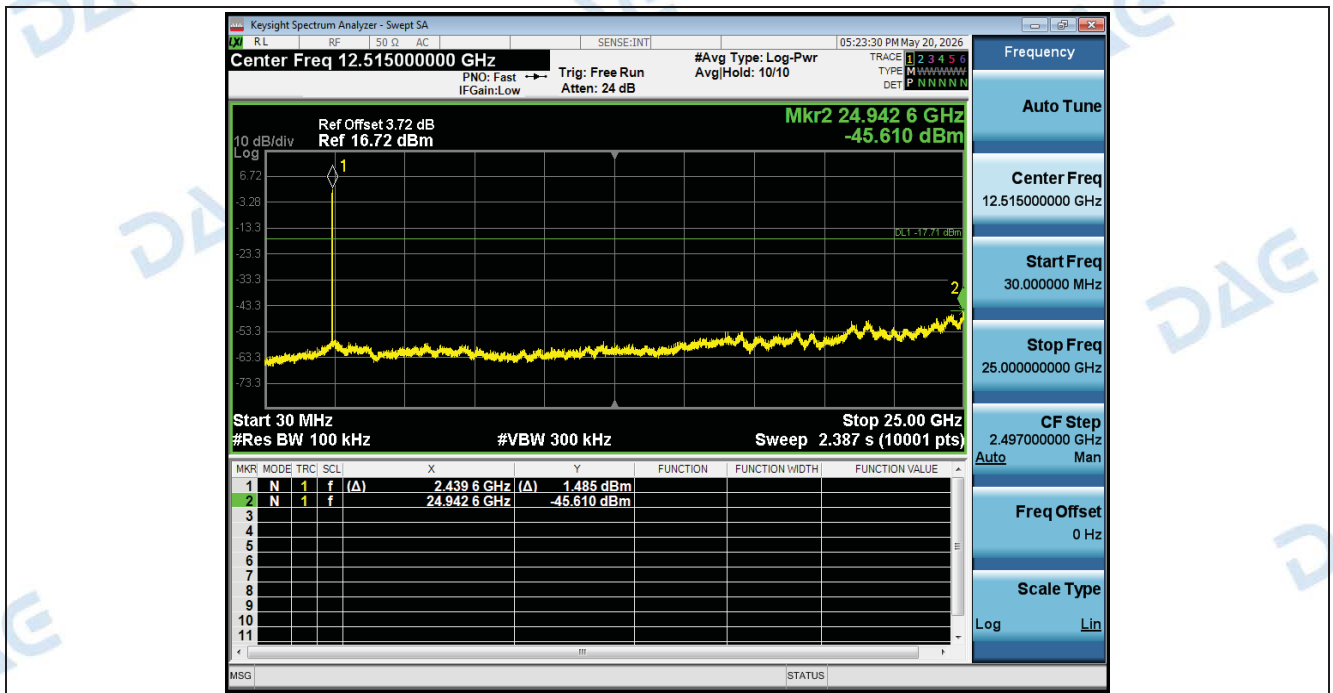
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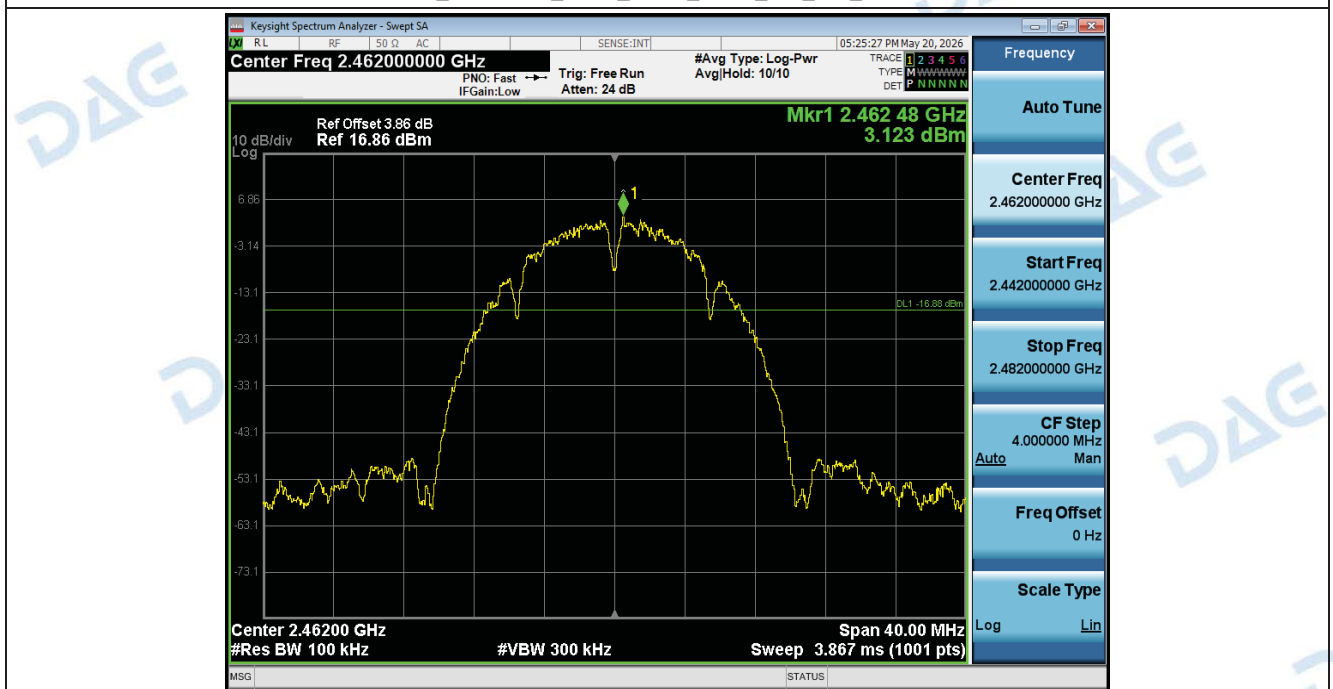
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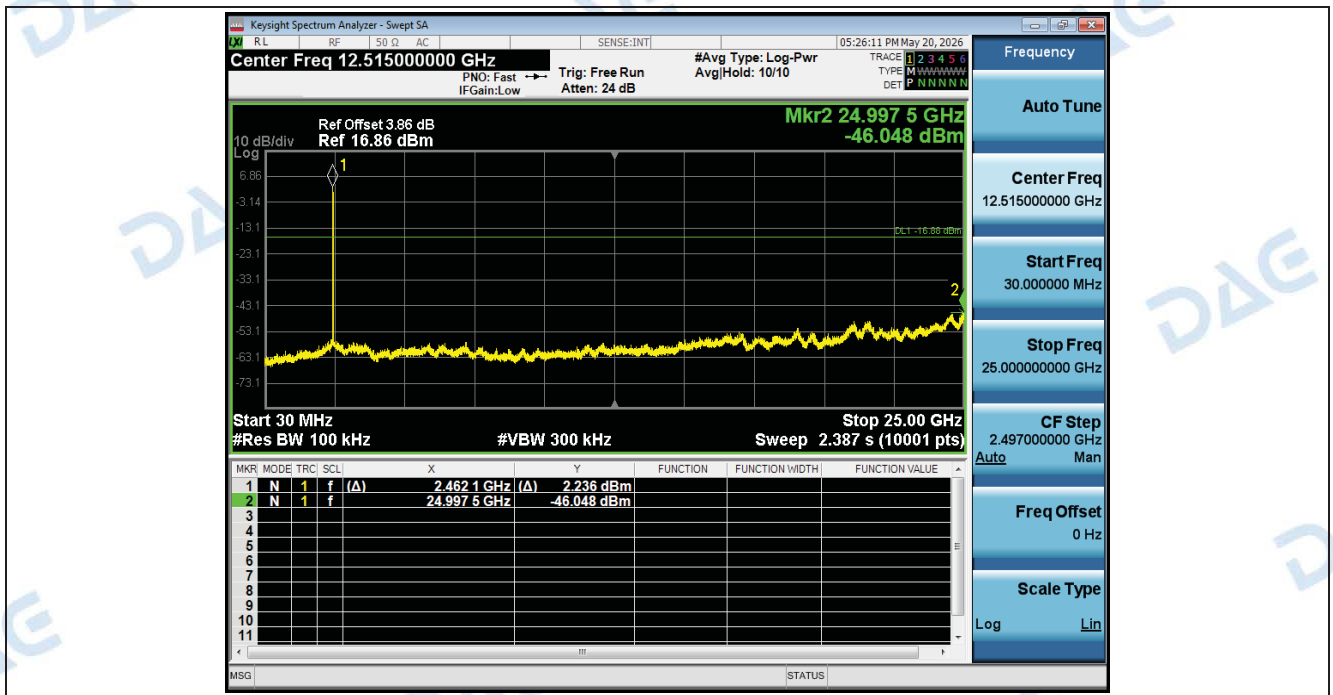
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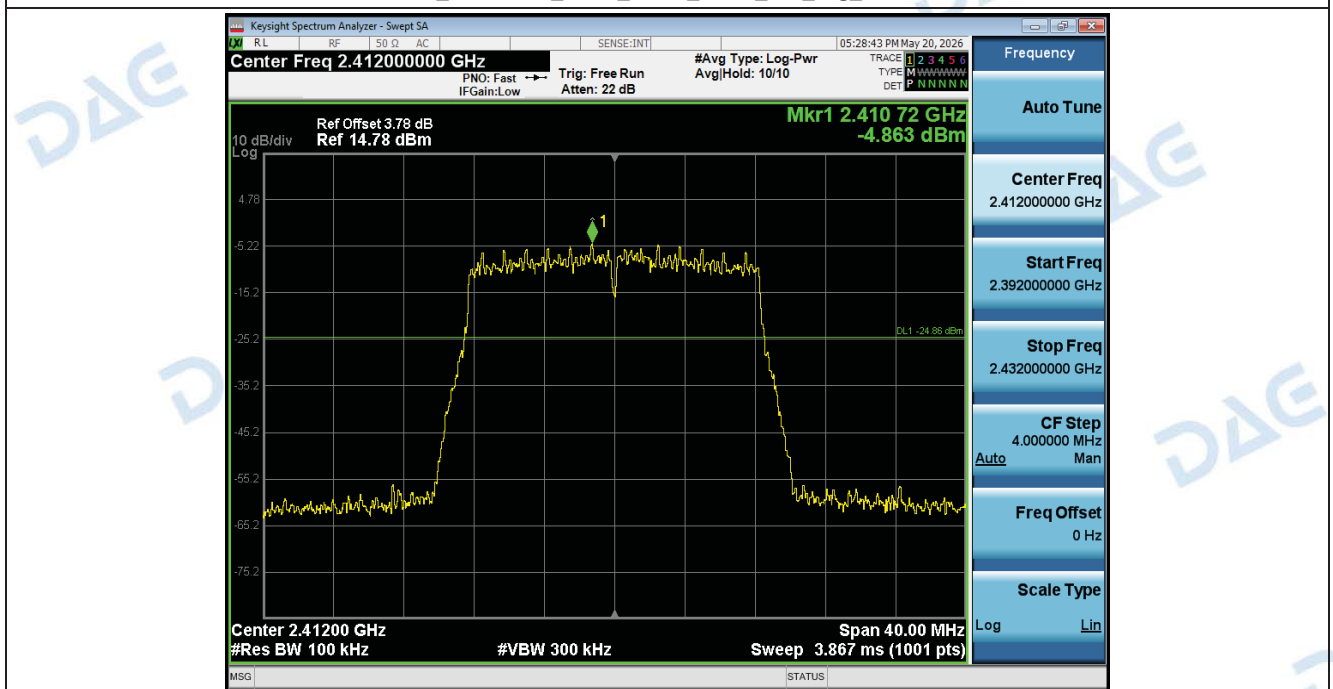
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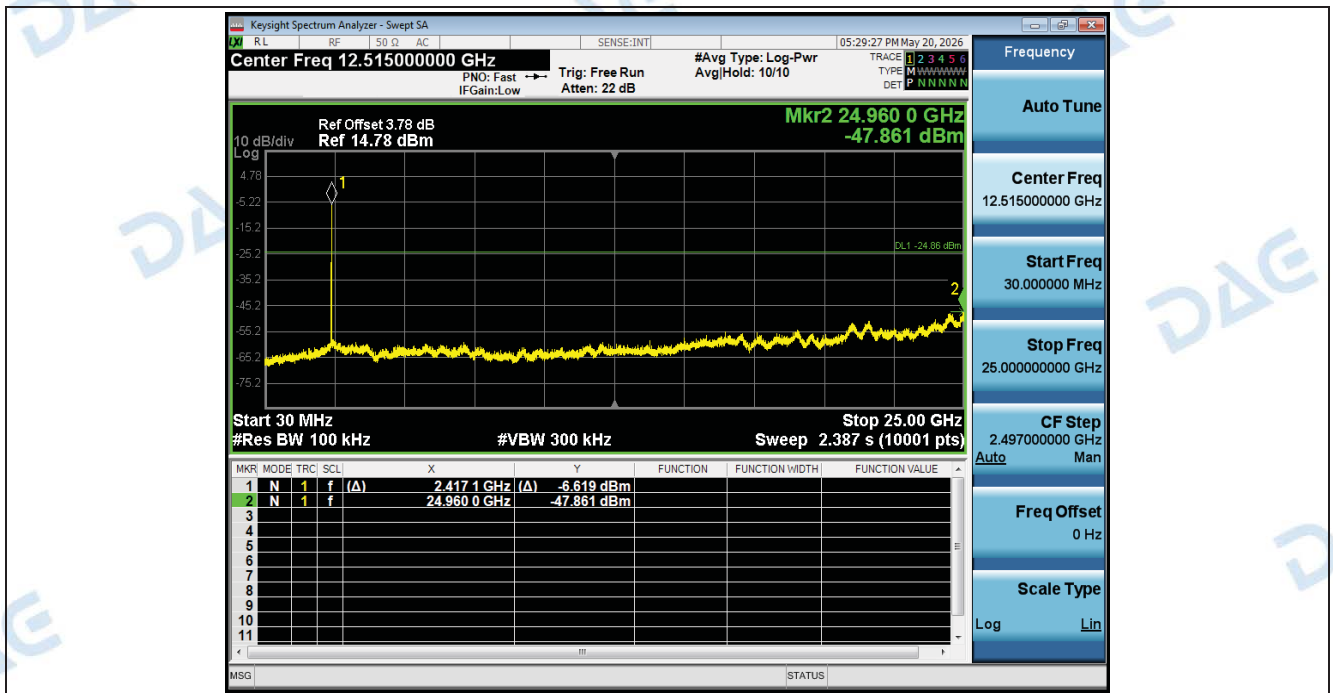
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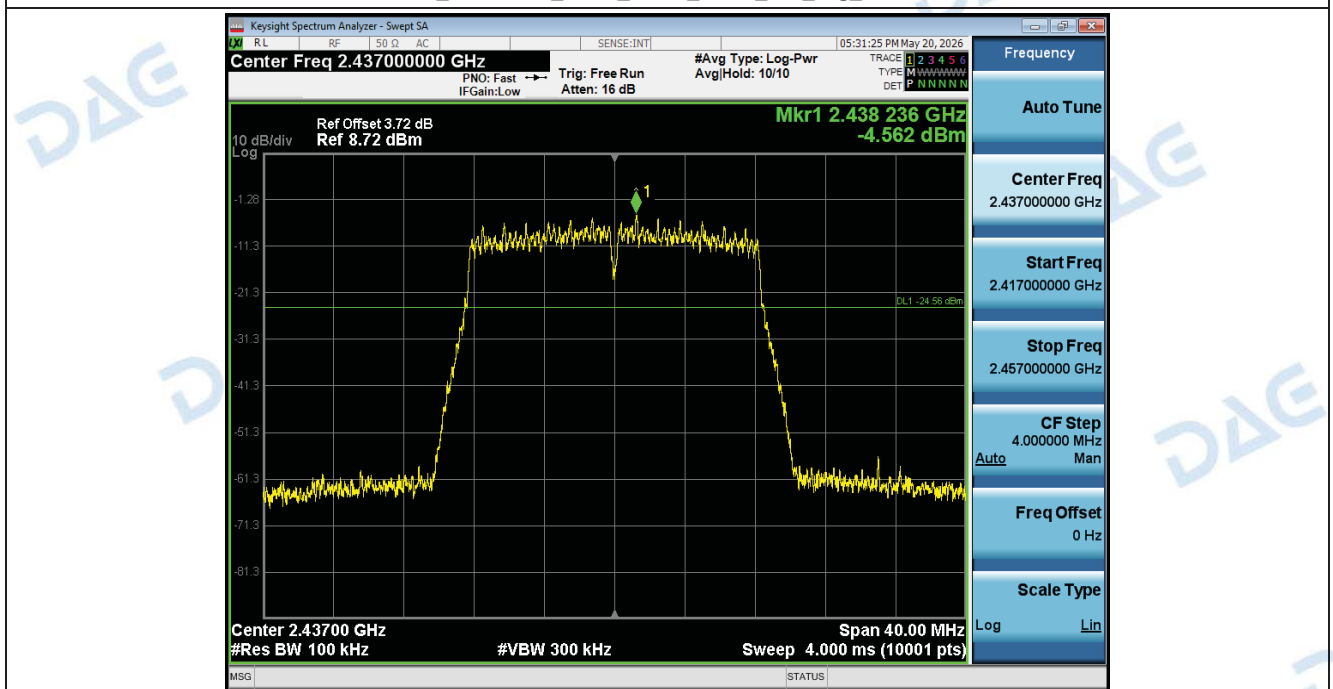
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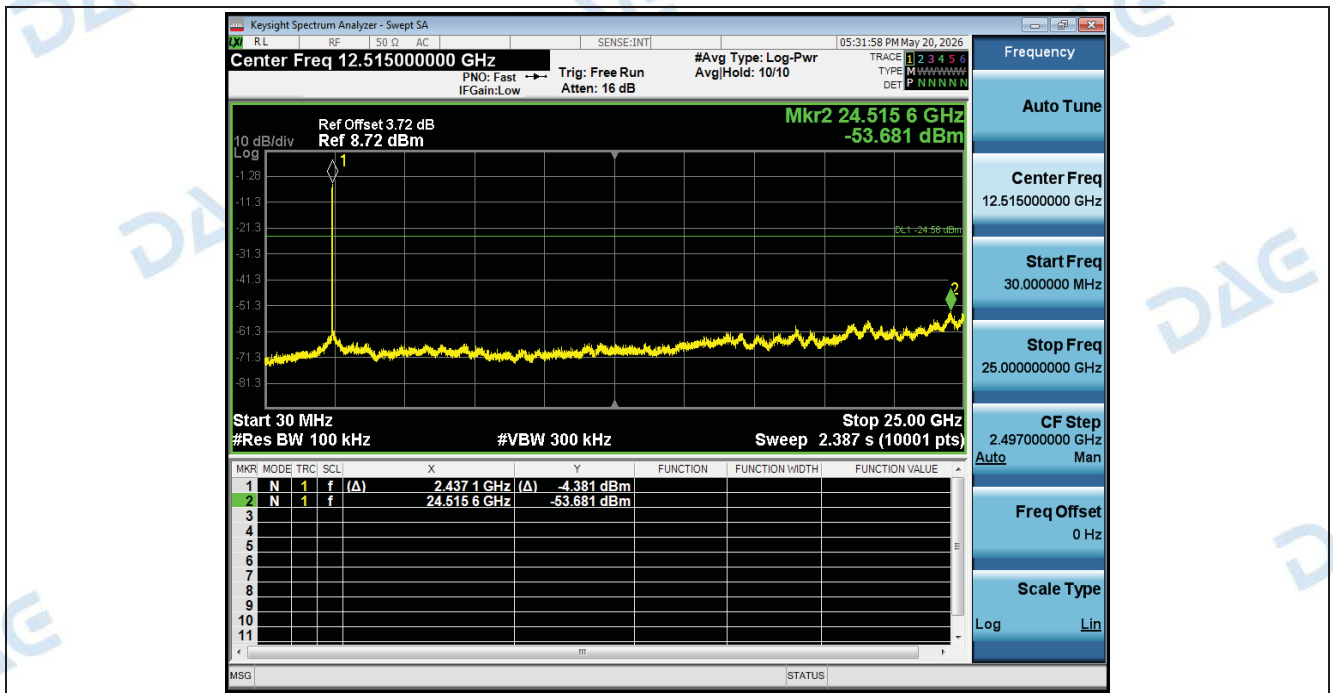
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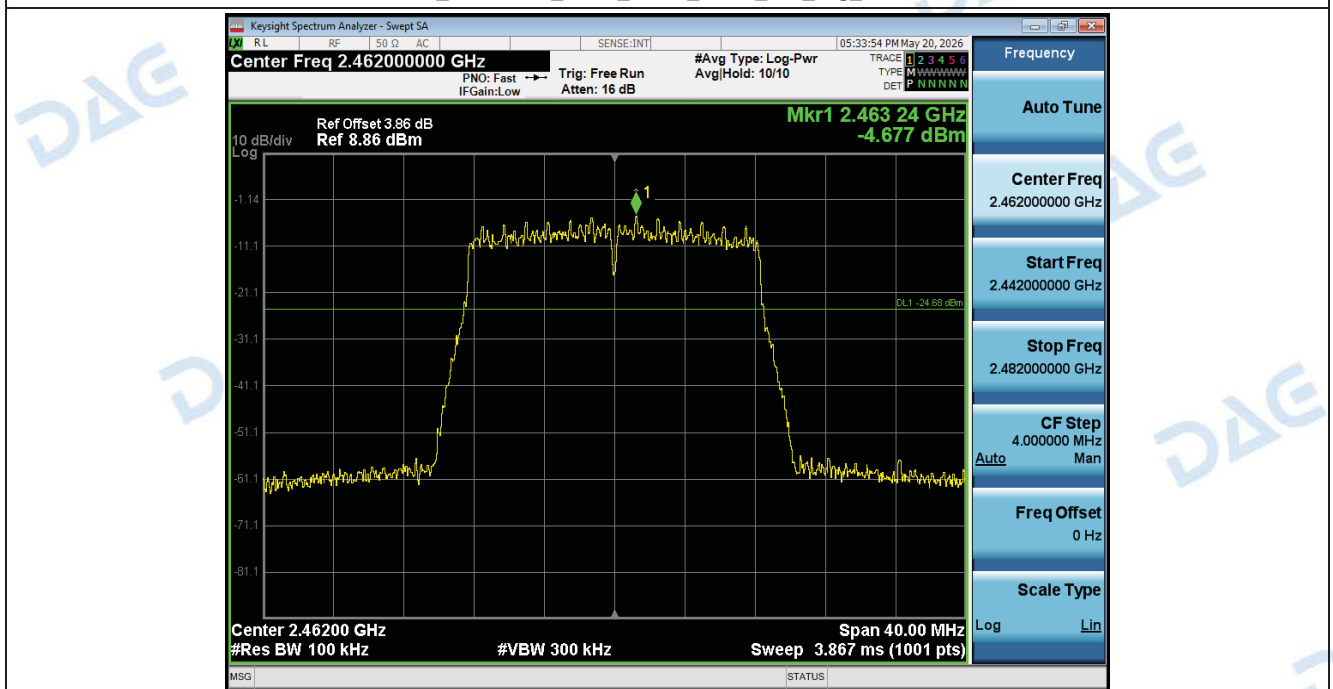
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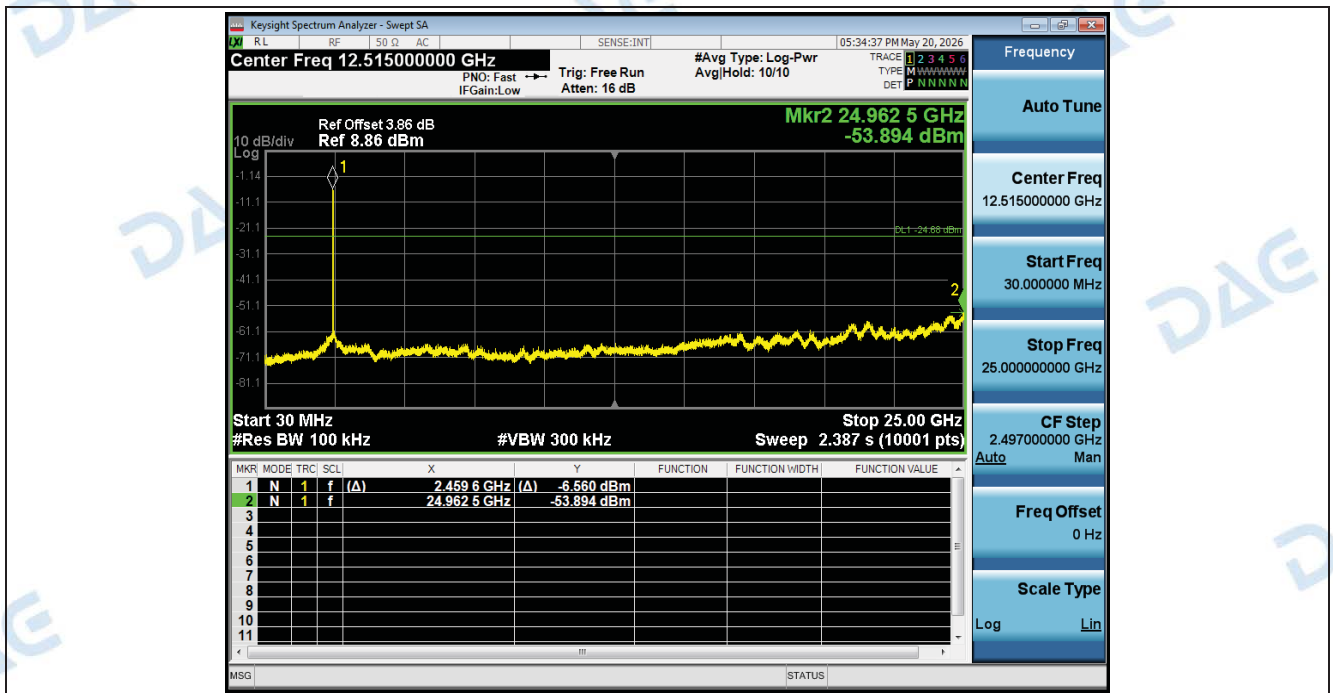
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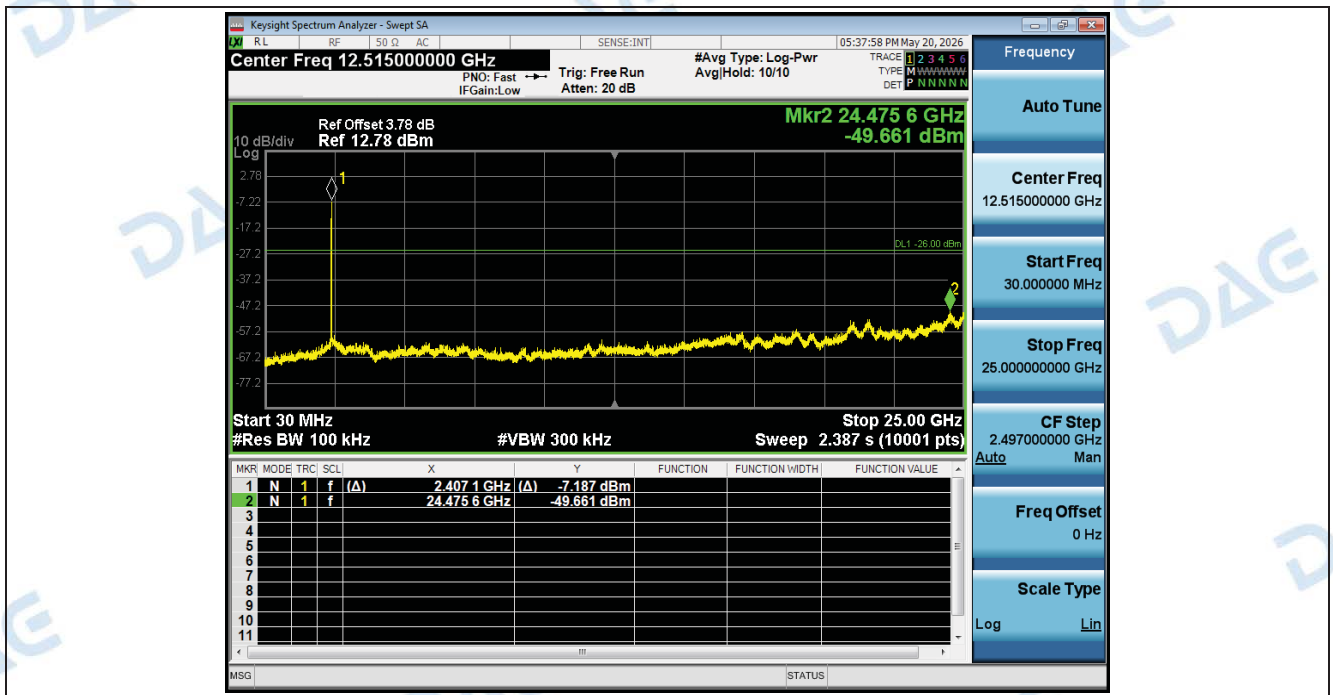
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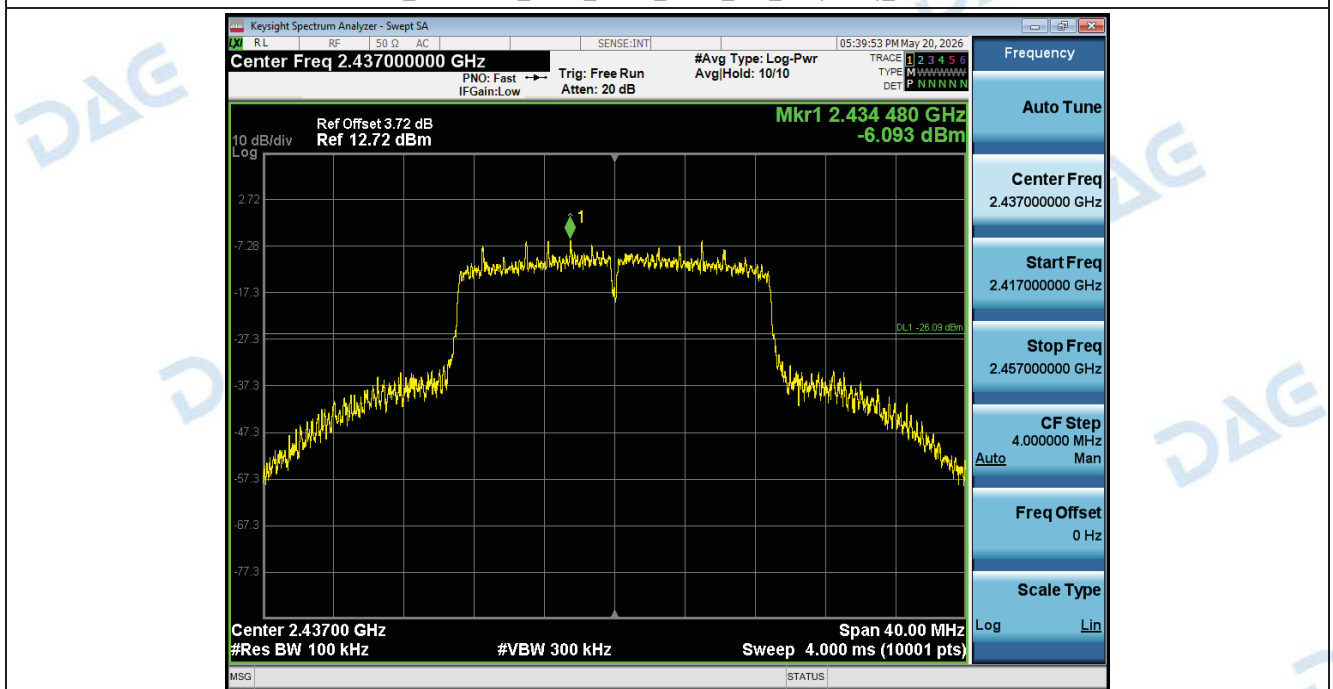
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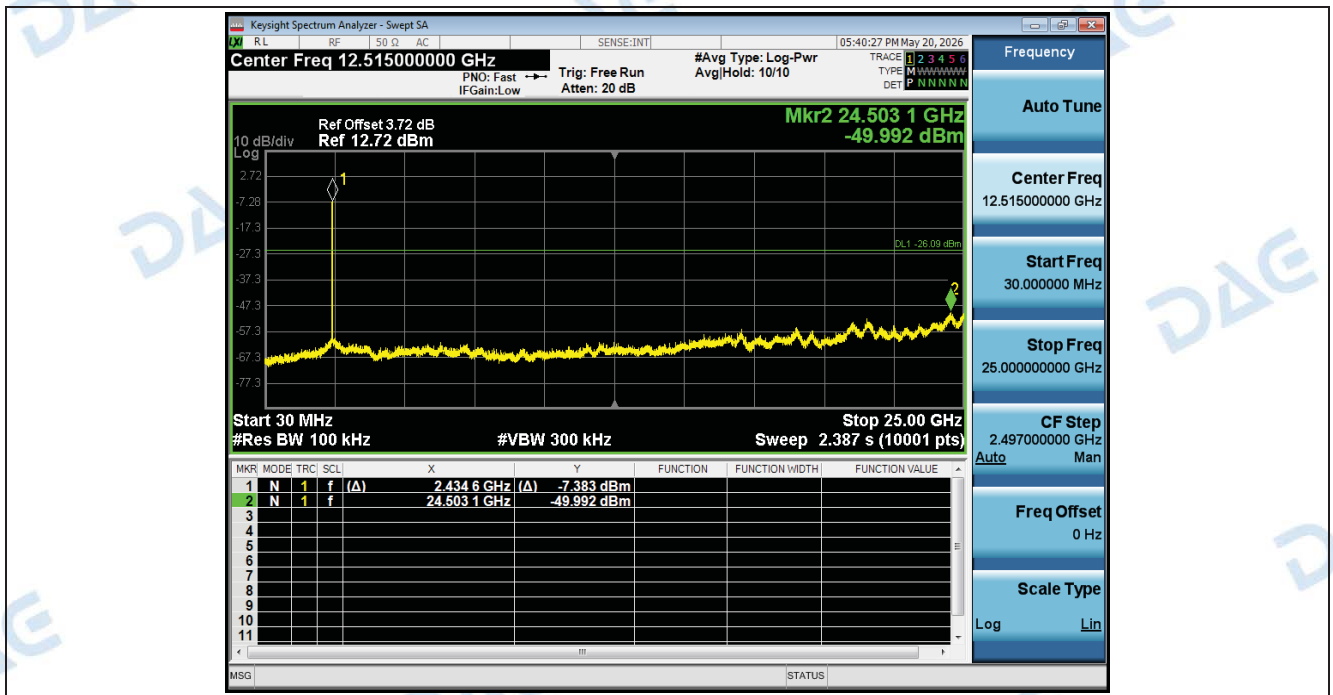
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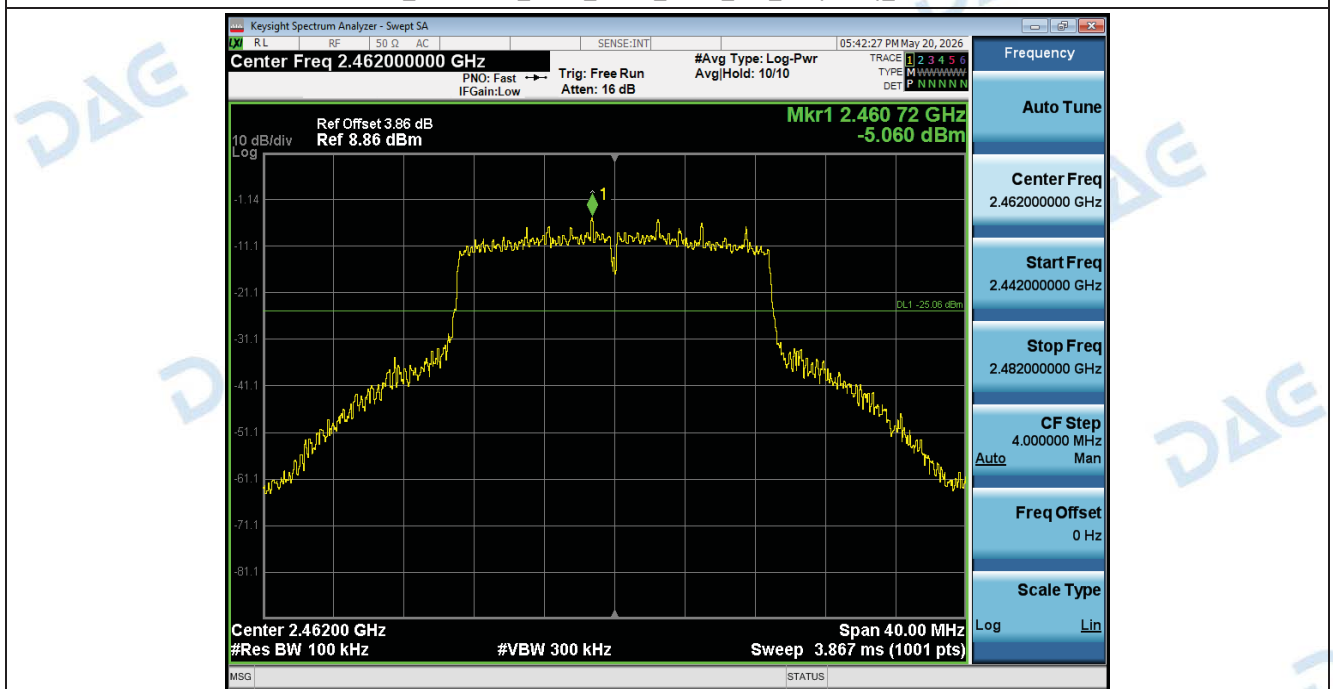
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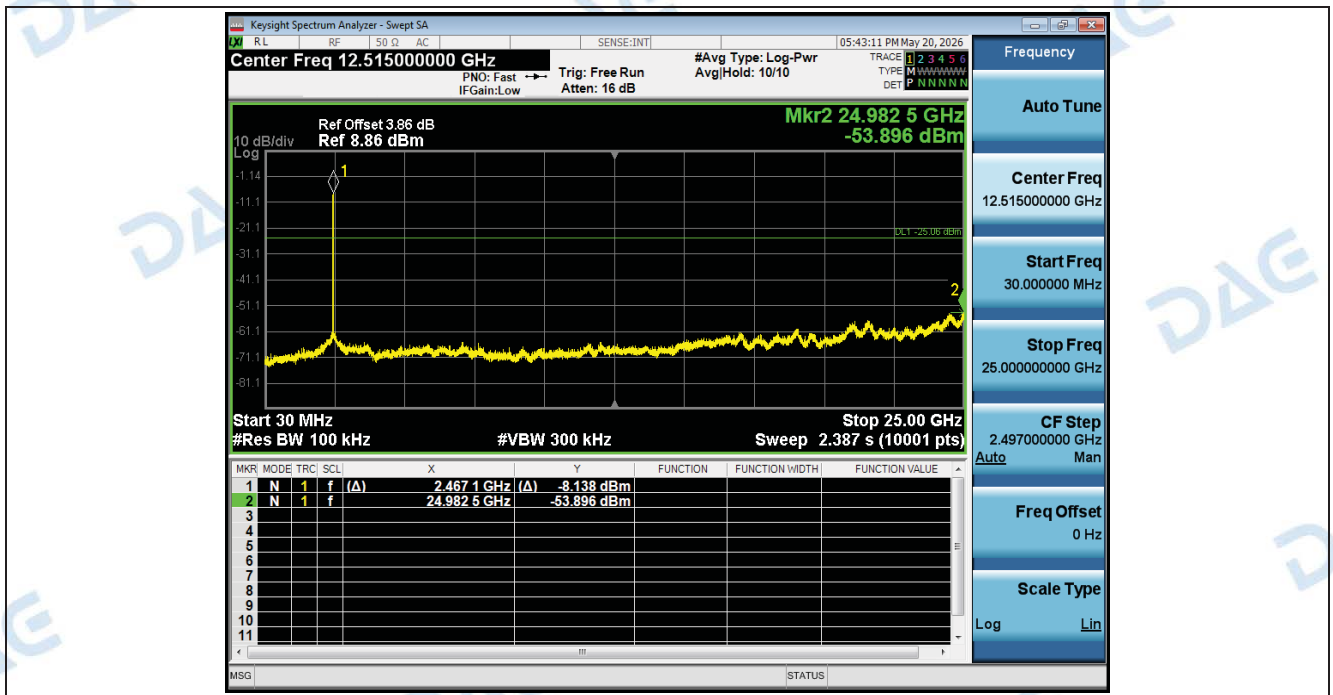
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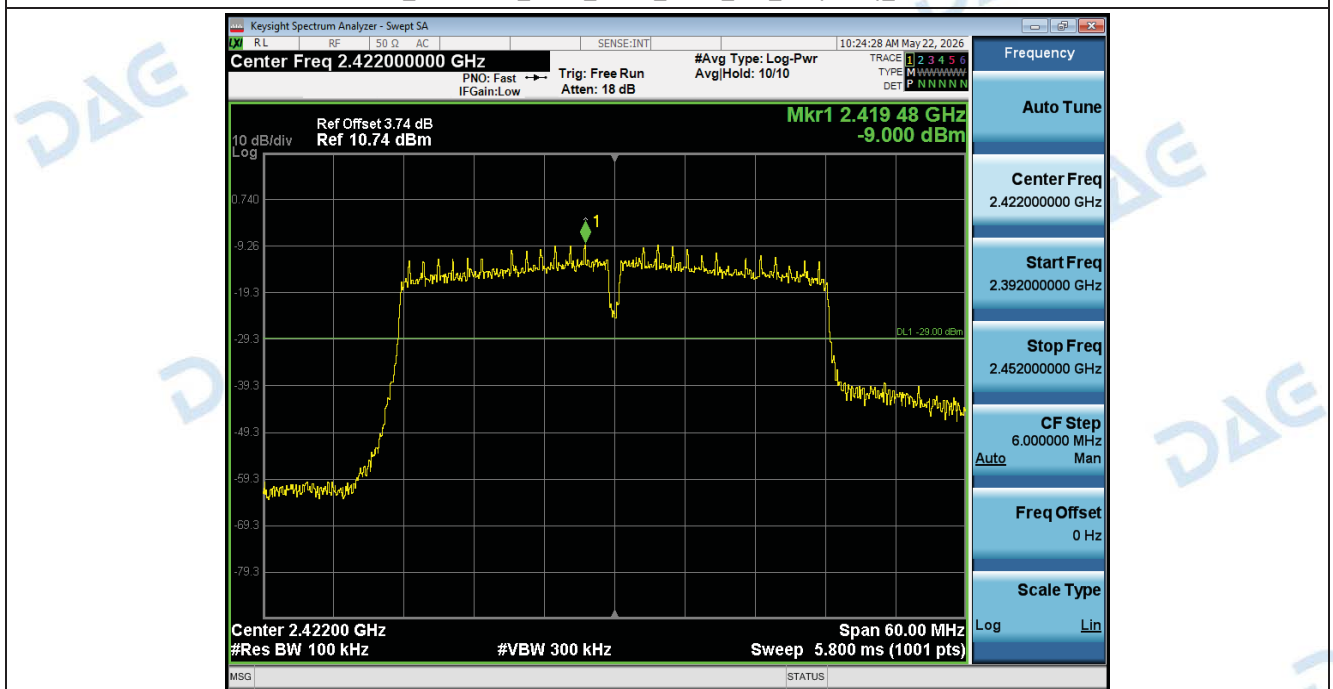
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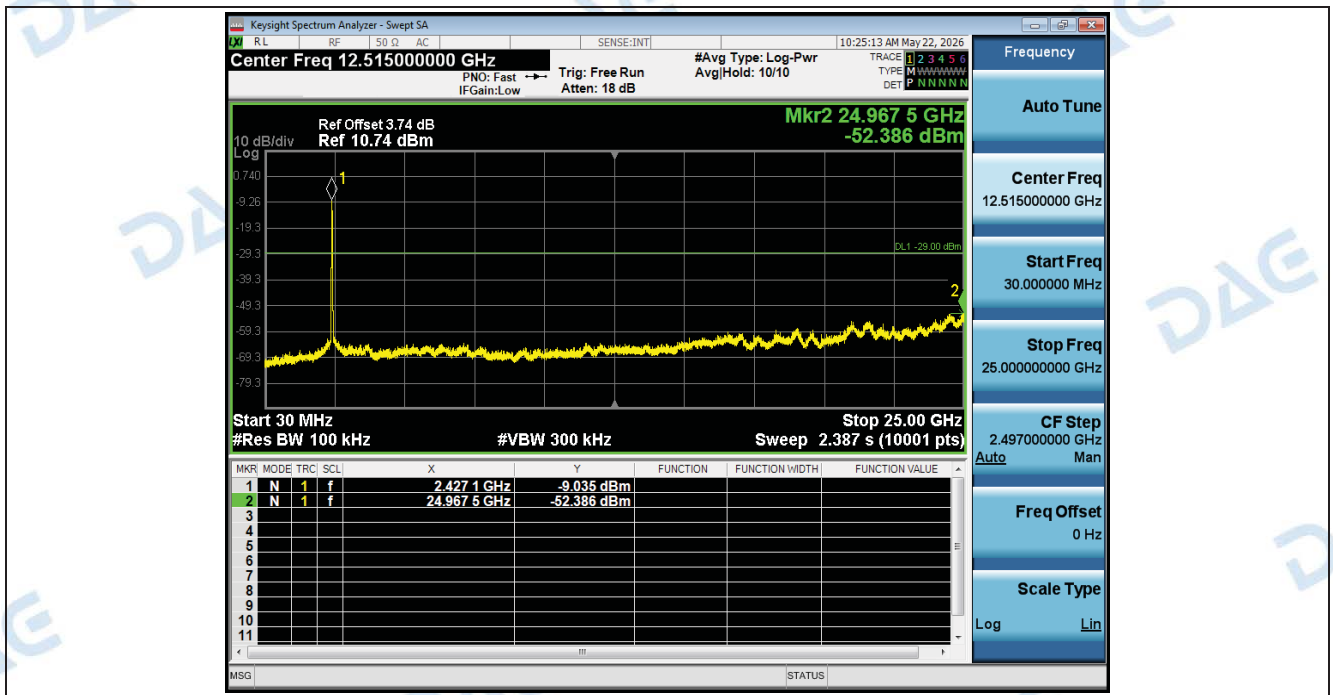
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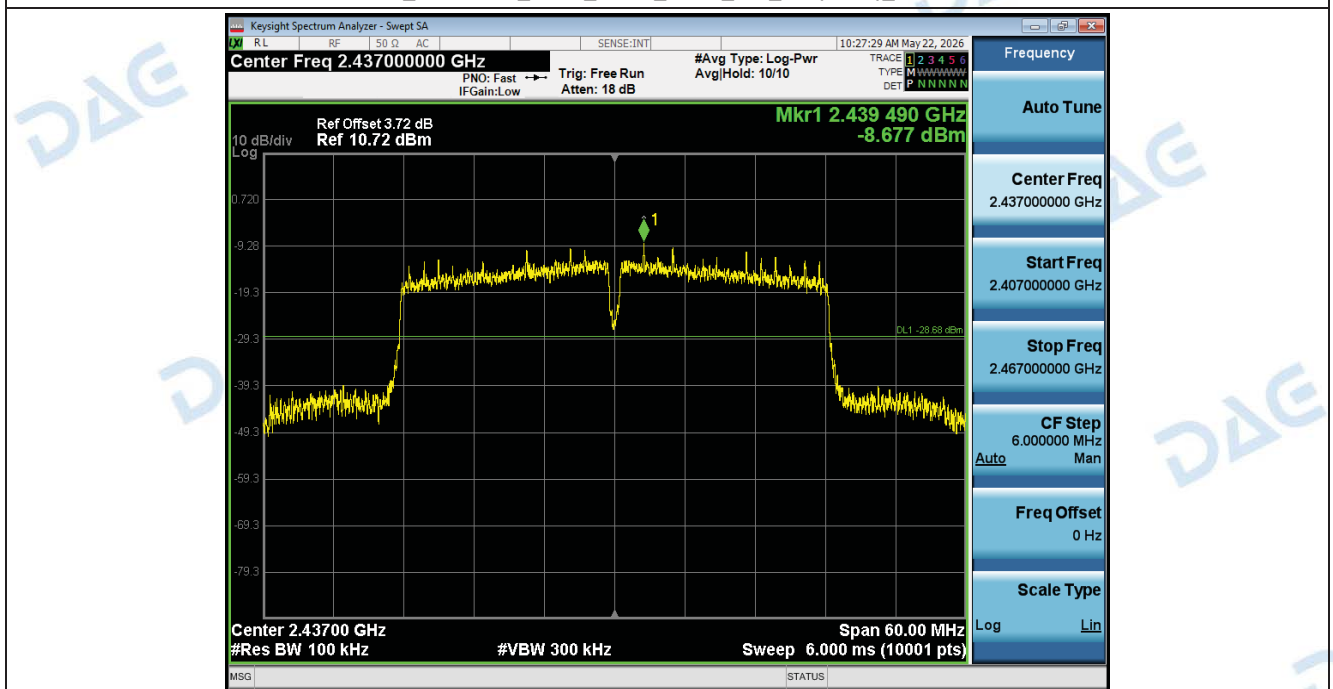
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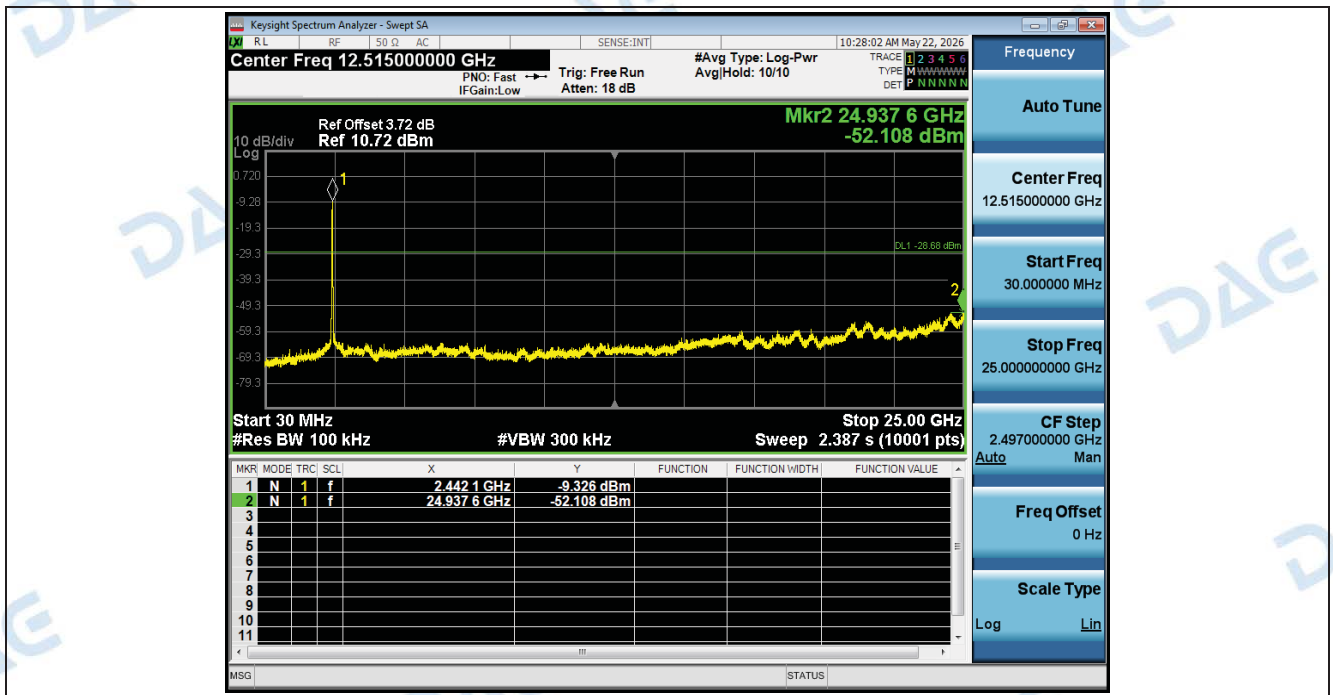
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1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



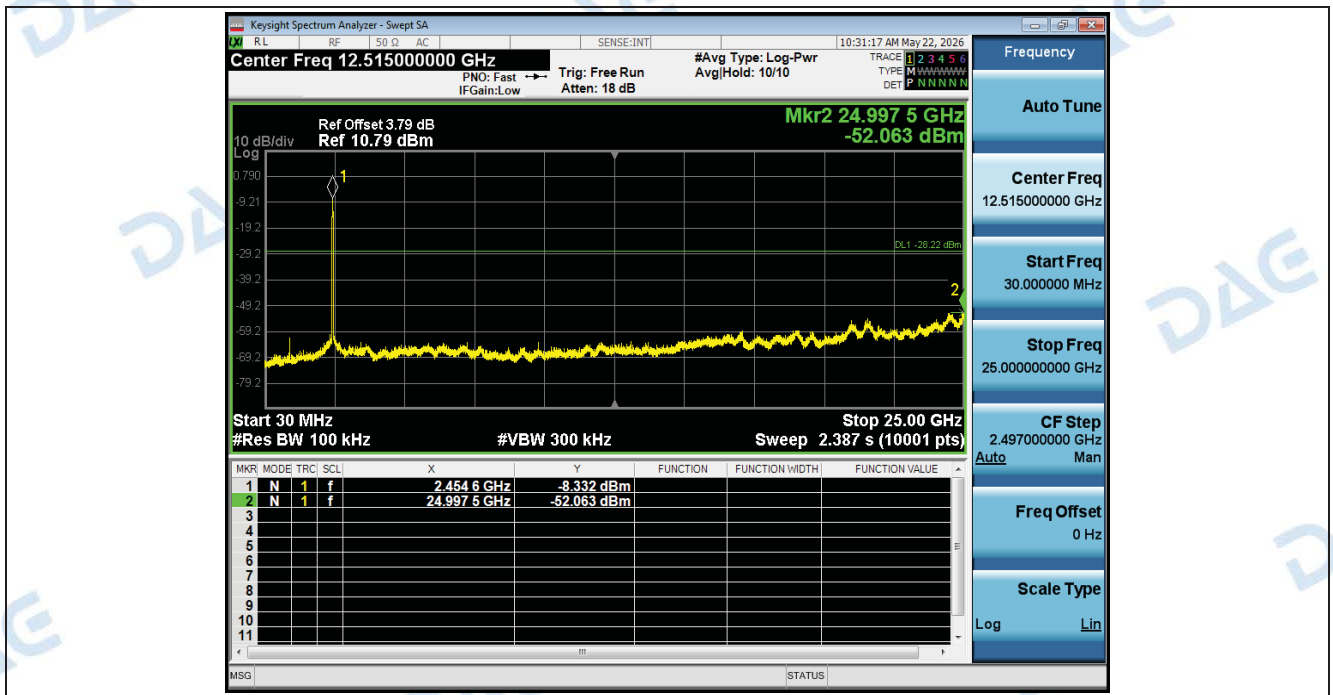
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



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