

RF TEST REPORT

For

CR PHOTOELECTRIC TECHNOLOGY CO.,LTD

Product Name: 2.4G WiFi antenna

Test Model(s): MRF24G29

Report Reference No. : DACE251208050RL001

FCC ID : 2AL9S-MRF24G29

Applicant's Name : CR PHOTOELECTRIC TECHNOLOGY CO.,LTD

Address : F9,No.205,Hongchuan Road, Zhongkai High-Tech Zone,
Huizhou,guangdong,China

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

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

Test Specification Standard : 47 CFR Part 15.247

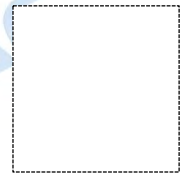
Date of Receipt : December 8, 2025

Date of Test : December 8, 2025 to December 16, 2025

Data of Issue : December 16, 2025

Result : Pass

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Apply for company information

Applicant's Name	:	CR PHOTOELECTRIC TECHNOLOGY CO.,LTD
Address	:	F9,No.205,Hongchuan Road, Zhongkai High-Tech Zone, Huizhou,guangdong,China
Product Name	:	2.4G WiFi antenna
Test Model(s)	:	MRF24G29
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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December 16, 2025

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December 16, 2025

Approved by:

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December 16, 2025

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE251208050RL001	December 16, 2025

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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 6.6.4 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 C63.10-2020 section 6.6.4 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 : CR PHOTOELECTRIC TECHNOLOGY CO.,LTD
Address : F9,No.205,Hongchuan Road, Zhongkai High-Tech Zone,
Huizhou,guangdong,China

Manufacturer : CR PHOTOELECTRIC TECHNOLOGY CO.,LTD
Address : F9,No.205,Hongchuan Road, Zhongkai High-Tech Zone,
Huizhou,guangdong,China

2.2 Description of Device (EUT)

Product Name:	2.4G WiFi antenna
Model/Type reference:	MRF24G29
Trade Mark:	CR
Power Supply:	DC 3.3V
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:	Spring Antenna
Antenna Gain:	3dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	2.4GWIFI TX	Keep the EUT in 802.11b/g/n20/n40 transmitting mode at lowest, middle and highest channel.
Test Environment		Normal Voltage(DC): 3.3V

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
PC	HP	TPN-Q304	/
Adapter	PHOTON	ATXC-069AC65B	/

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
loop antenna	EVERFINE	LLA-2	80900L-C	2025-04-17	2026-04-16
Power absorbing clamp	SCHWARZ BECK	MESS-ELEKTRONIK	/	2025-04-23	2026-04-22
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2025-04-18	2026-04-17
Cable	SCHWARZ BECK	/	/	2025-04-18	2026-04-17
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	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A	/	2025-04-25	2026-04-24
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

6dB Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

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	2025-04-25	2026-04-24
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
Spectrum Analyzer	Keysight	N9020A	MY55338111	2025-09-16	2026-09-15

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 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	2025-04-28	2026-04-27
Cable(LF)#2	Schwarzbeck	/	/	2025-04-12	2026-04-11
Cable(LF)#1	Schwarzbeck	/	/	2025-04-17	2026-04-16
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2025-04-25	2026-04-24
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2025-04-25	2026-04-24
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2025-04-18	2026-04-17
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
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.	

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.
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4 Radio Spectrum Matter Test Results (RF)

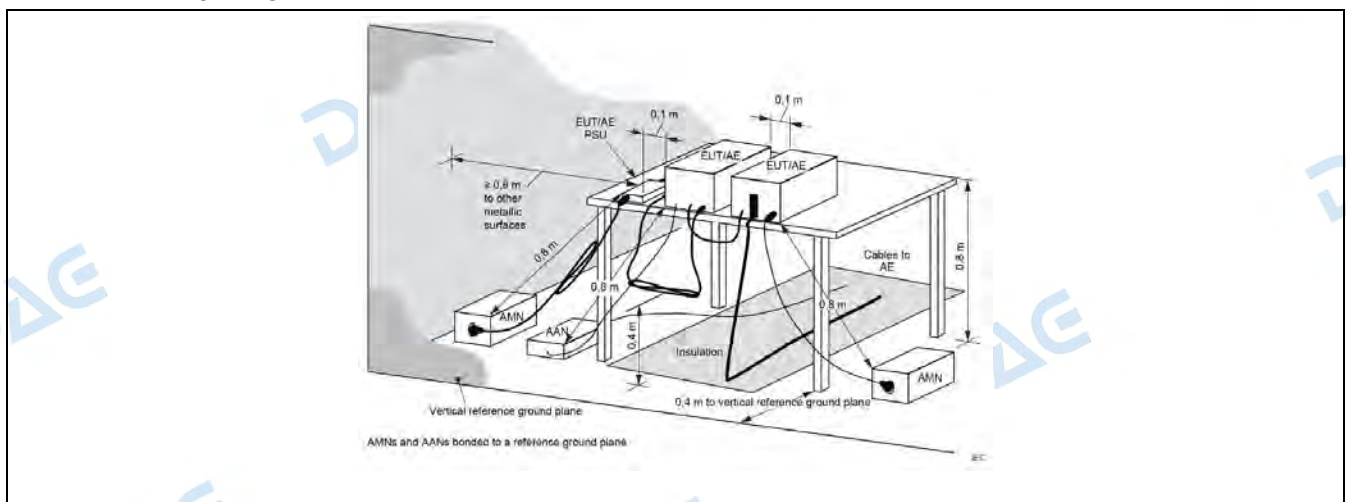
4.1 Conducted Emission at AC power line

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:

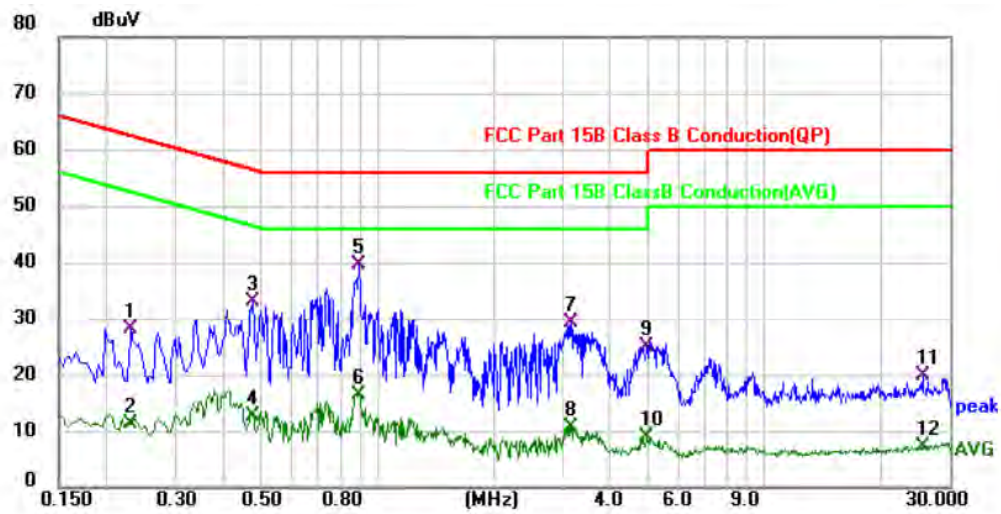
Operating Environment:					
Temperature:	23.2 °C	Humidity:	52 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.1.2 Test Setup Diagram:



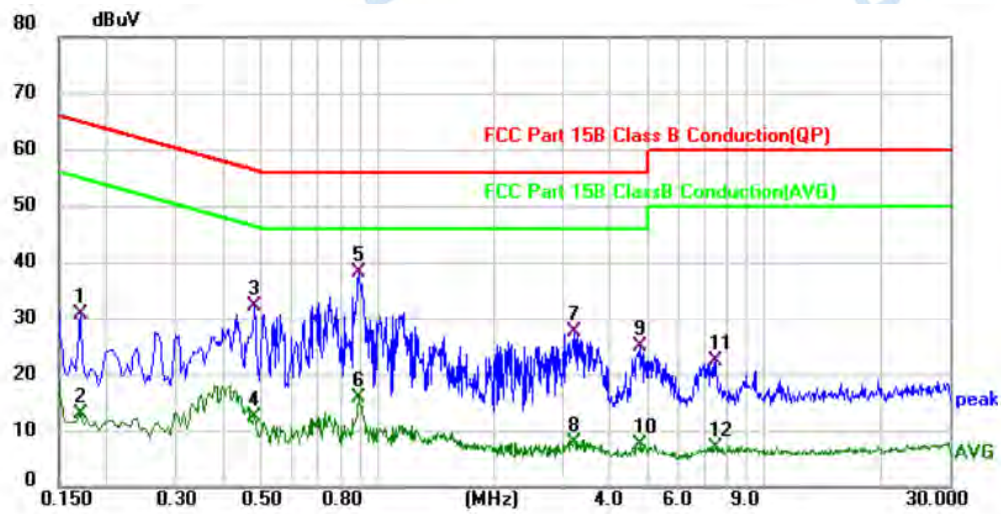
4.1.3 Test Data:

TM1 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2300	18.02	10.09	28.11	62.45	-34.34	QP	
2		0.2300	1.17	10.09	11.26	52.45	-41.19	AVG	
3		0.4740	22.92	10.10	33.02	56.44	-23.42	QP	
4		0.4740	2.70	10.10	12.80	46.44	-33.64	AVG	
5	*	0.8980	29.60	10.10	39.70	56.00	-16.30	QP	
6		0.8980	6.29	10.10	16.39	46.00	-29.61	AVG	
7		3.1700	19.15	10.08	29.23	56.00	-26.77	QP	
8		3.1700	0.64	10.08	10.72	46.00	-35.28	AVG	
9		4.9780	14.96	10.18	25.14	56.00	-30.86	QP	
10		4.9780	-1.08	10.18	9.10	46.00	-36.90	AVG	
11		25.7060	9.01	10.82	19.83	60.00	-40.17	QP	
12		25.7060	-3.63	10.82	7.19	50.00	-42.81	AVG	

TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	20.59	10.08	30.67	64.96	-34.29	QP	
2		0.1700	3.00	10.08	13.08	54.96	-41.88	AVG	
3		0.4820	22.09	10.09	32.18	56.30	-24.12	QP	
4		0.4820	2.39	10.09	12.48	46.30	-33.82	AVG	
5	*	0.8900	28.13	10.08	38.21	56.00	-17.79	QP	
6		0.8900	5.74	10.08	15.82	46.00	-30.18	AVG	
7		3.2180	17.38	10.09	27.47	56.00	-28.53	QP	
8		3.2180	-2.14	10.09	7.95	46.00	-38.05	AVG	
9		4.7619	14.74	10.19	24.93	56.00	-31.07	QP	
10		4.7619	-2.58	10.19	7.61	46.00	-38.39	AVG	
11		7.4740	12.25	10.24	22.49	60.00	-37.51	QP	
12		7.4740	-3.10	10.24	7.14	50.00	-42.86	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

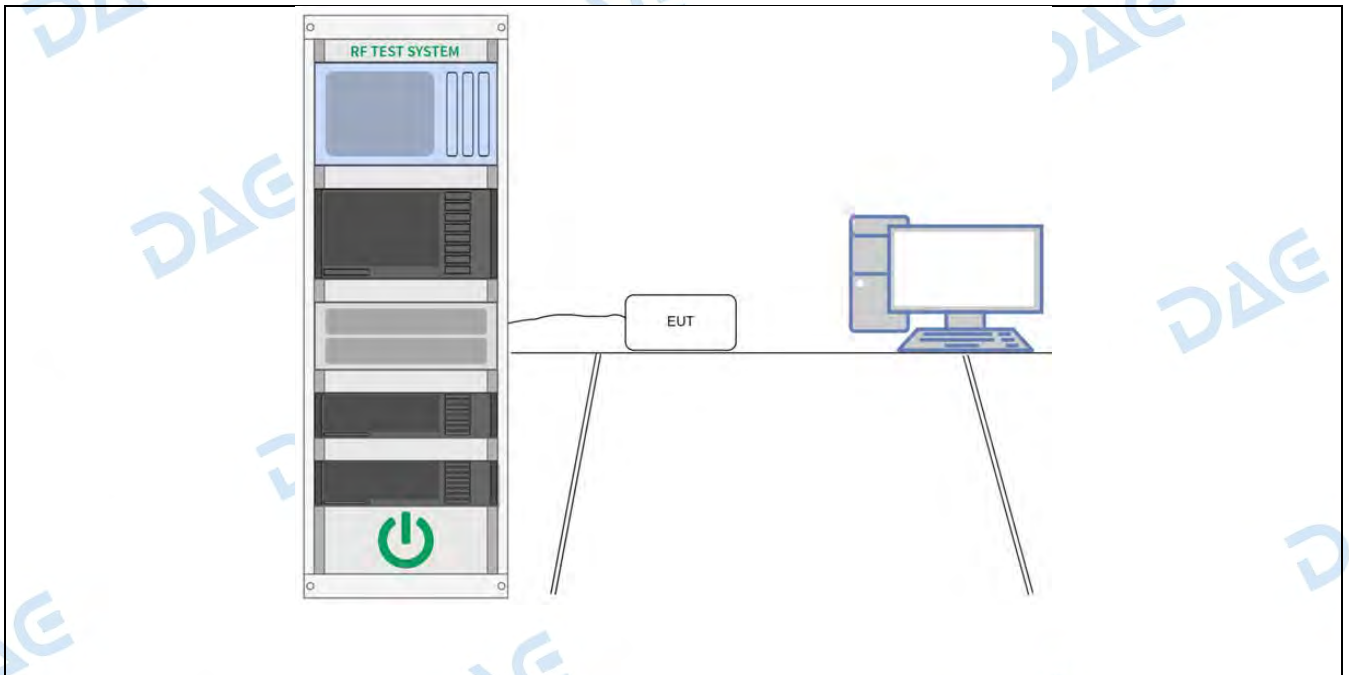
Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 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:	23.7 °C	Humidity:	49 %	Atmospheric Pressure:	101.4 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

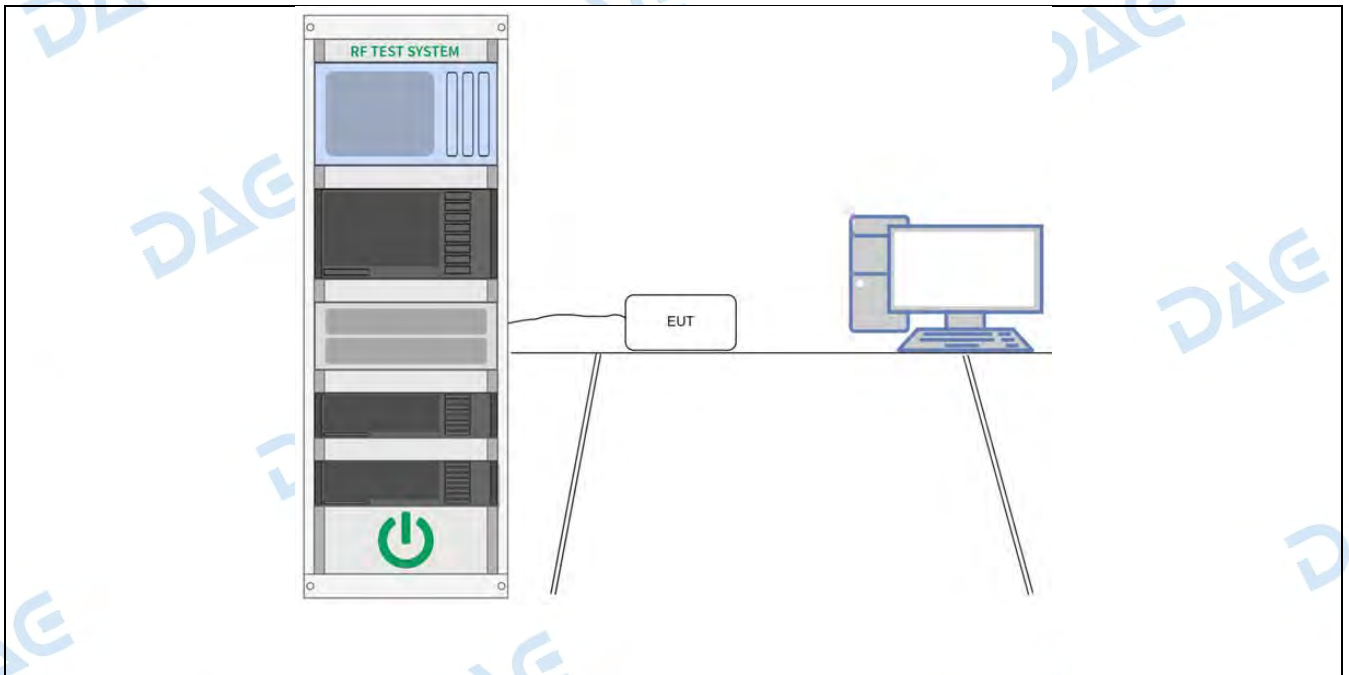
Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of 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 Note: Per ANSI C63.10-2020, if there are two or more antennas, the conducted powers at Core 0, Core 1,..., Core i were first measured separately, as shown in the section above(this product only have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2020 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = $10 \cdot \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi For completely uncorrelated unequal antenna gain Directional gain = $10 \cdot \log[(10G_1/10 + 10G_2/10 + \dots + 10G_N/10) / NANT]$ dBi Sample Multiple antennas Calculation: Core 0 + Core 1 + ... Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.8 °C	Humidity:	55 %	Atmospheric Pressure:	101.4 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.3.2 Test Setup Diagram:

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4.3.3 Test Data:

Please Refer to Appendix for Details.

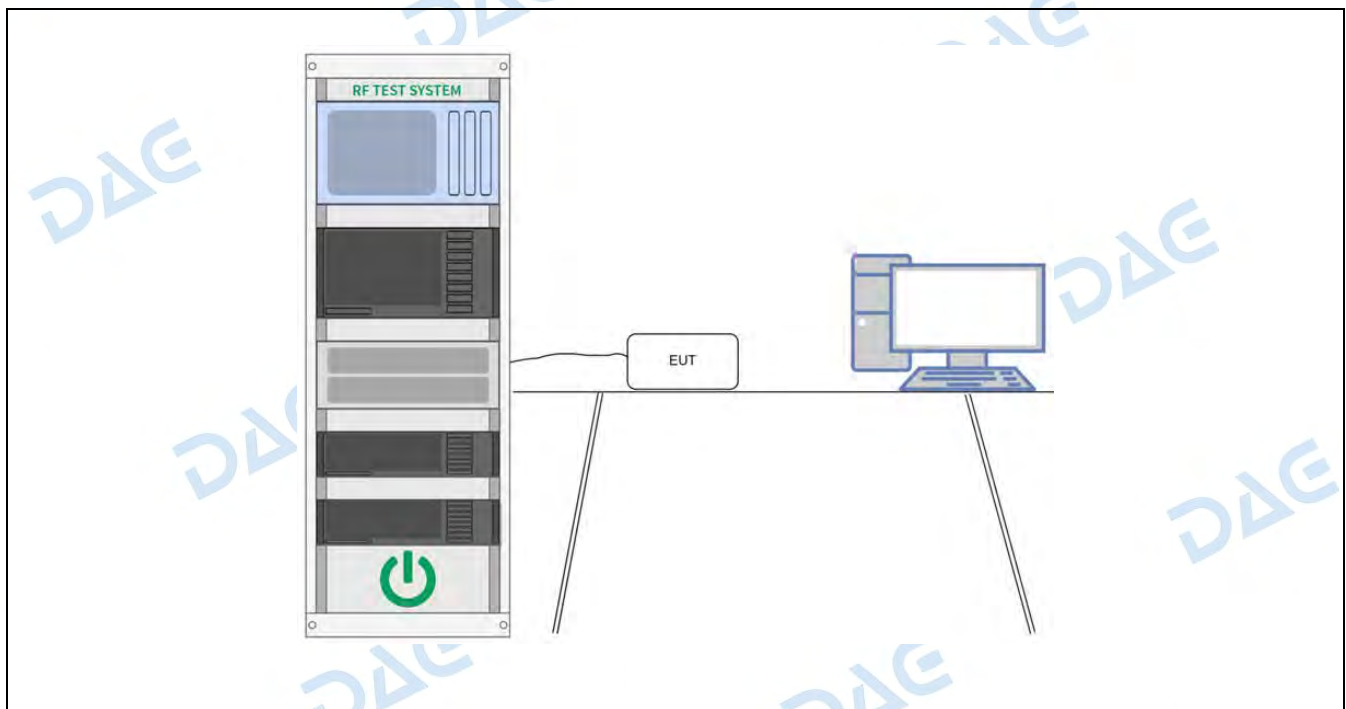
4.4 Power Spectral Density

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, section 11.10, Maximum power spectral density level in the fundamental emission

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	48 %	Atmospheric Pressure:	101.4 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.

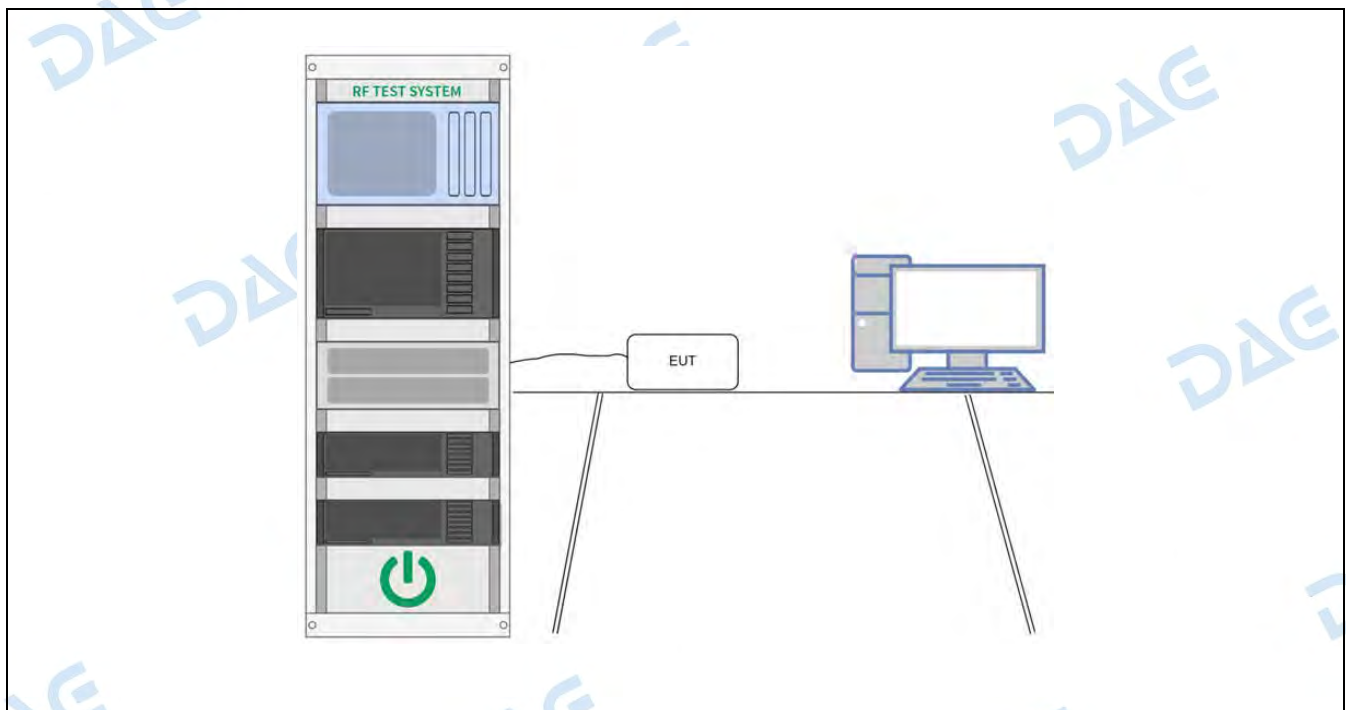
4.5 Emissions in non-restricted frequency bands

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:	23.8 °C	Humidity:	54 %	Atmospheric Pressure:	101.4 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:	23.4 °C	Humidity:	50 %
Atmospheric Pressure:	101.4 kPa		
Pretest mode:	TM1		
Final test mode:	TM1		

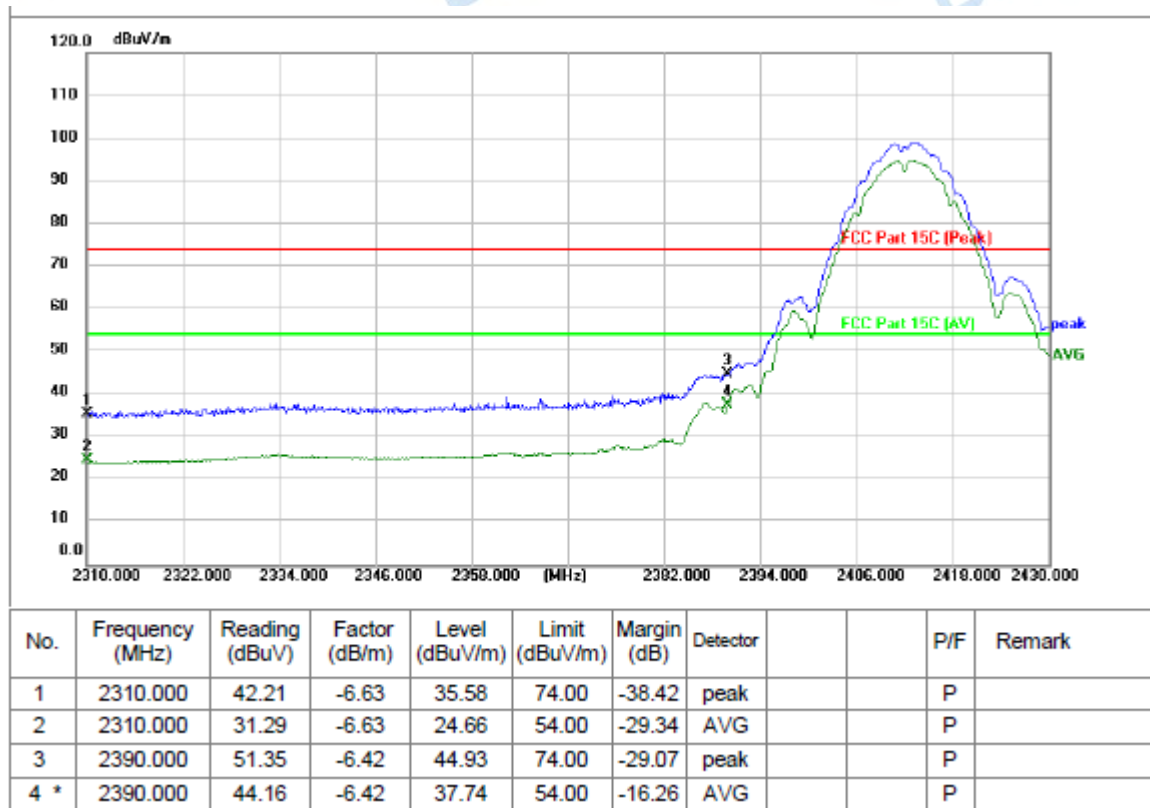
4.6.2 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2310.000	41.26	-6.63	34.63	74.00	-39.37	peak			P	
2	2310.000	32.04	-6.63	25.41	54.00	-28.59	AVG			P	
3	2390.000	47.13	-6.42	40.71	74.00	-33.29	peak			P	
4 *	2390.000	39.42	-6.42	33.00	54.00	-21.00	AVG			P	

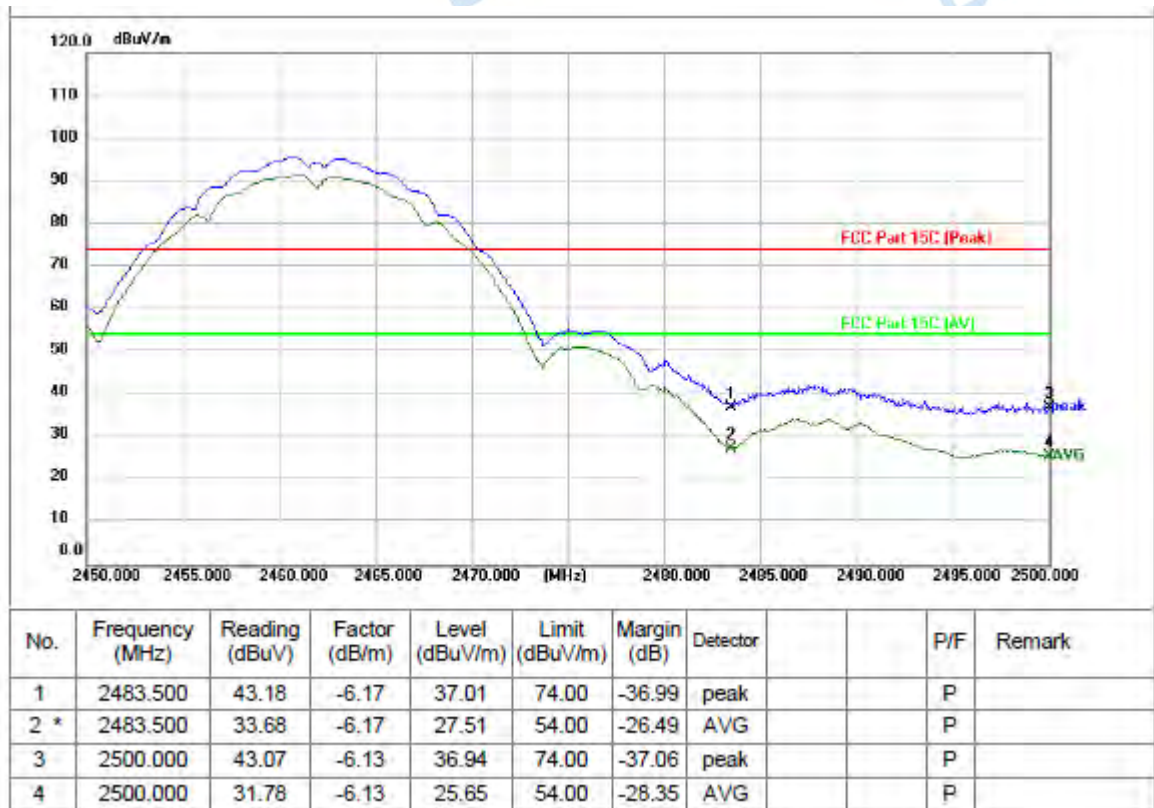
TM1 / Polarization: Vertical



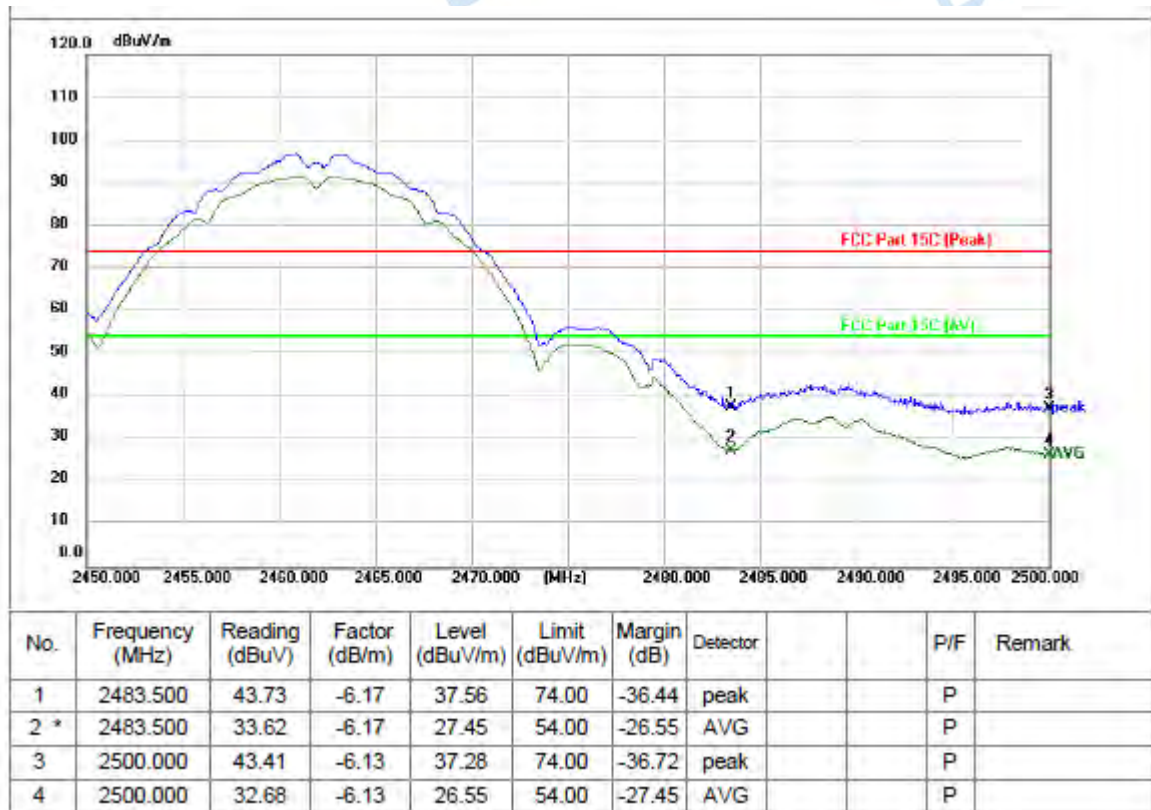
Remark: Margin = Level - Limit, Level = Test receiver reading + correction factor

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

TM1 / Polarization: Horizontal



TM1 / Polarization: Vertical



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 6.6.4 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		

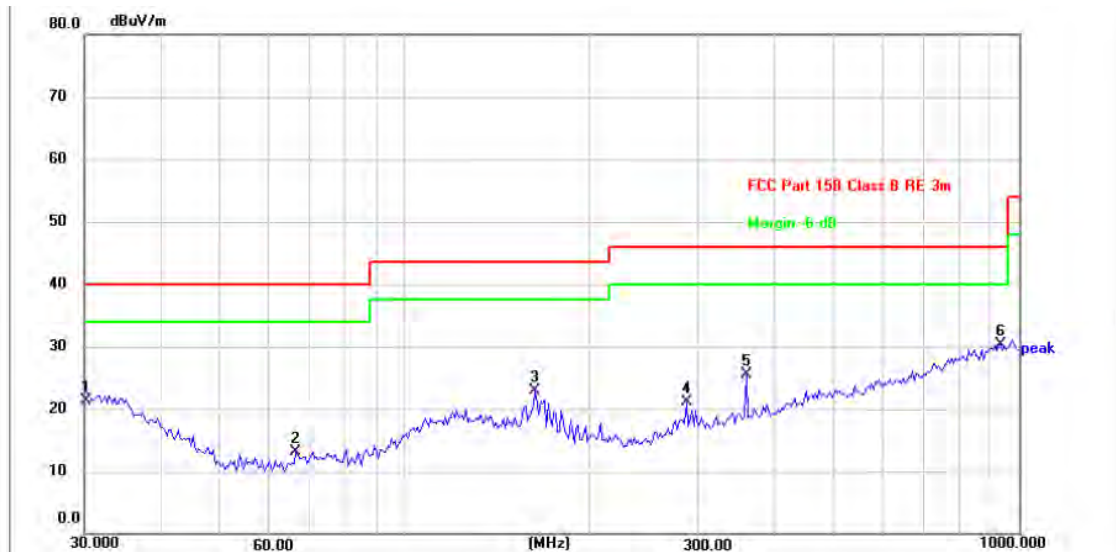
	channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Preamplifier Factor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

Operating Environment:					
Temperature:	23.8 °C	Humidity:	51 %	Atmospheric Pressure:	101.4 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.7.2 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	30.2111	23.75	-2.49	21.26	40.00	-18.74	QP		P	
2	66.2662	26.56	-13.47	13.09	40.00	-26.91	QP		P	
3	162.6106	31.05	-8.23	22.82	43.50	-20.68	QP		P	
4	286.9823	28.99	-7.93	21.06	46.00	-24.94	QP		P	
5	359.1860	32.05	-6.57	25.48	46.00	-20.52	QP		P	
6 *	932.2715	25.89	4.41	30.30	46.00	-15.70	QP		P	

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	39.1616	30.39	-7.31	23.08	40.00	-16.92	QP			P	
2	121.9755	26.34	-6.84	19.50	43.50	-24.00	QP			P	
3	162.6106	34.31	-8.52	25.79	43.50	-17.71	QP			P	
4	286.9823	30.20	-8.15	22.05	46.00	-23.95	QP			P	
5 *	359.1860	37.50	-6.80	30.70	46.00	-15.30	QP			P	
6	449.5558	32.08	-4.64	27.44	46.00	-18.56	QP			P	

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 6.6.4 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:		

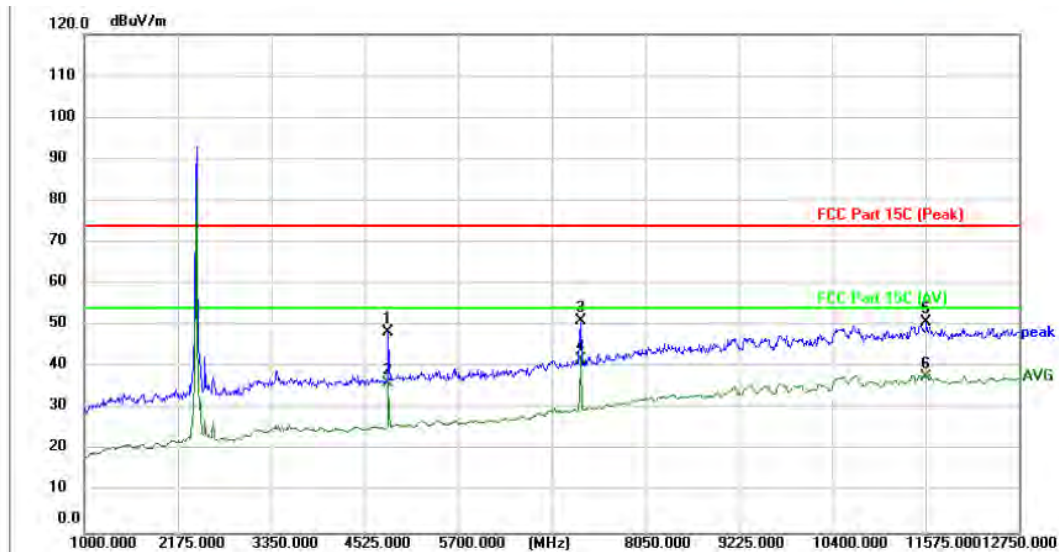
	1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test 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:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101.4 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

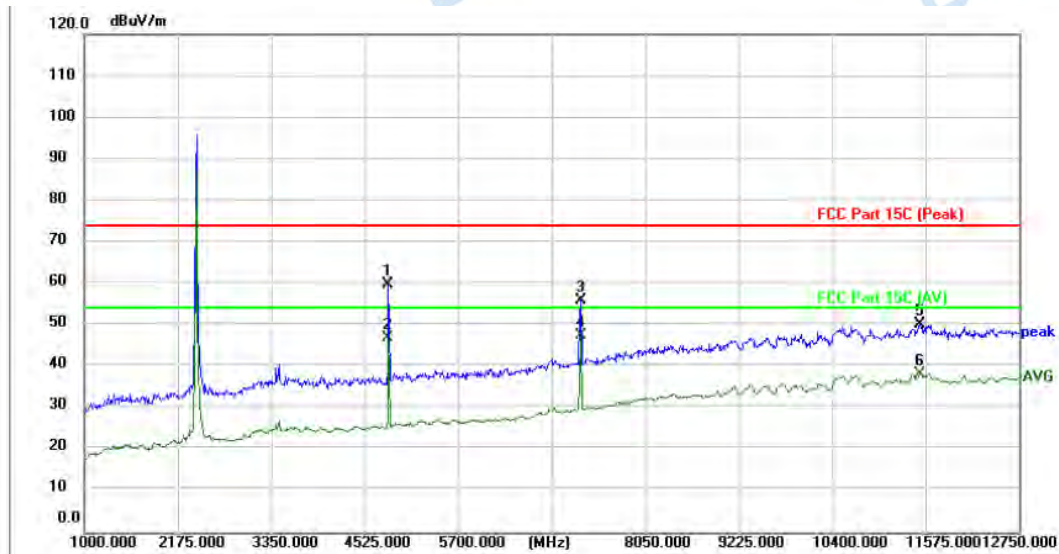
4.8.2 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	4818.750	49.25	-0.65	48.60	74.00	-25.40	peak		P	
2	4818.750	36.88	-0.65	36.23	54.00	-17.77	AVG		P	
3	7239.250	46.61	4.42	51.03	74.00	-22.97	peak		P	
4 *	7239.250	37.42	4.42	41.84	54.00	-12.16	AVG		P	
5	11586.750	41.09	9.72	50.81	74.00	-23.19	peak		P	
6	11586.750	28.00	9.72	37.72	54.00	-16.28	AVG		P	

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4818.750	60.36	-0.65	59.71	74.00	-14.29	peak			P	
2	4818.750	47.54	-0.65	46.89	54.00	-7.11	AVG			P	
3	7239.250	51.68	4.42	56.10	74.00	-17.90	peak			P	
4 *	7239.250	43.17	4.42	47.59	54.00	-6.41	AVG			P	
5	11504.500	40.71	9.67	50.38	74.00	-23.62	peak			P	
6	11504.500	28.50	9.67	38.17	54.00	-15.83	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.

5 TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos.

6 PHOTOS OF THE EUT

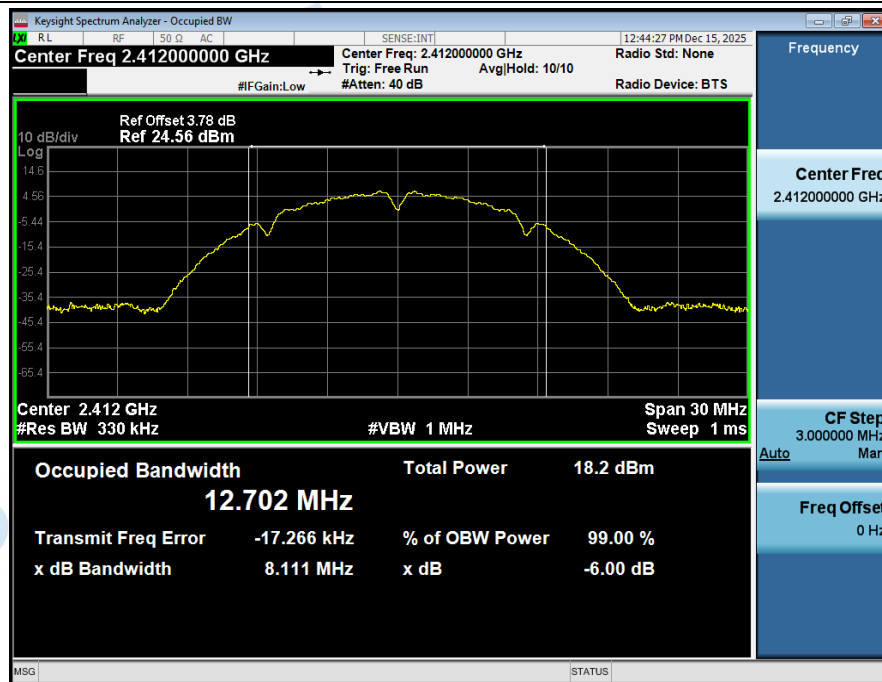
Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

Appendix

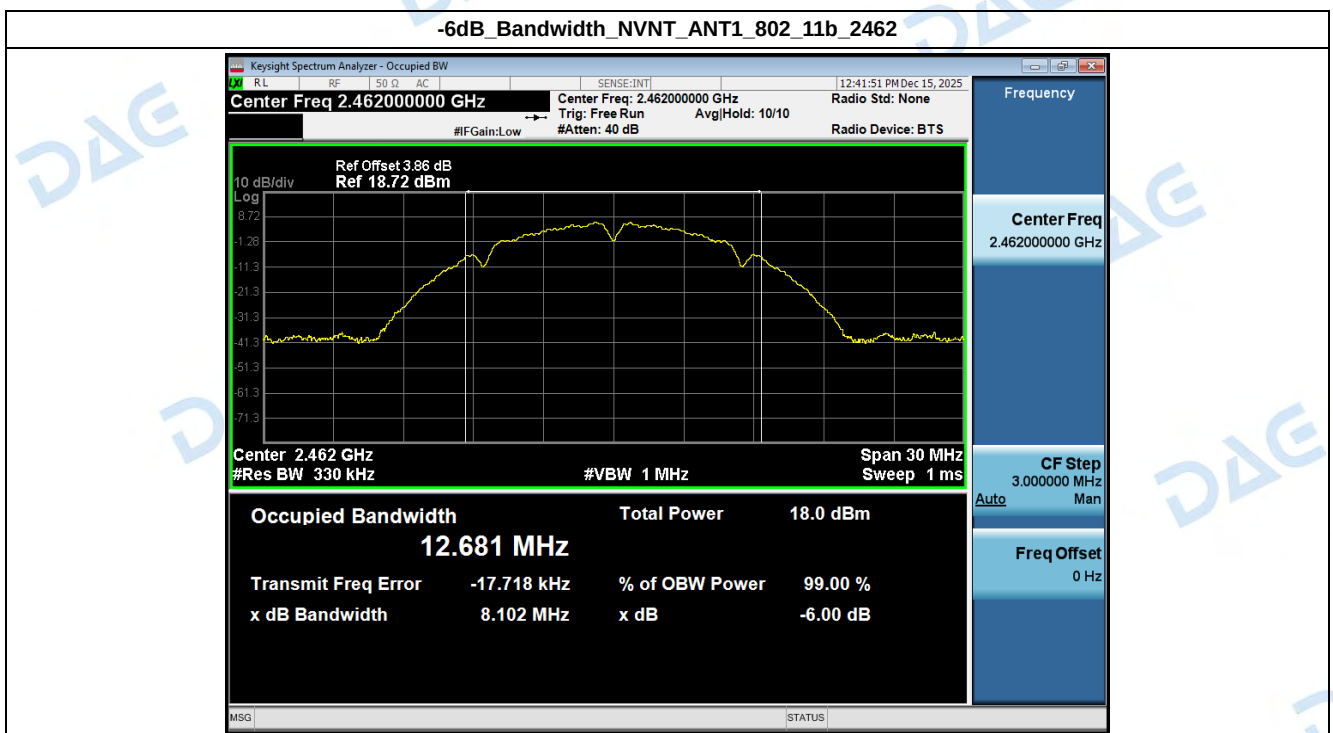
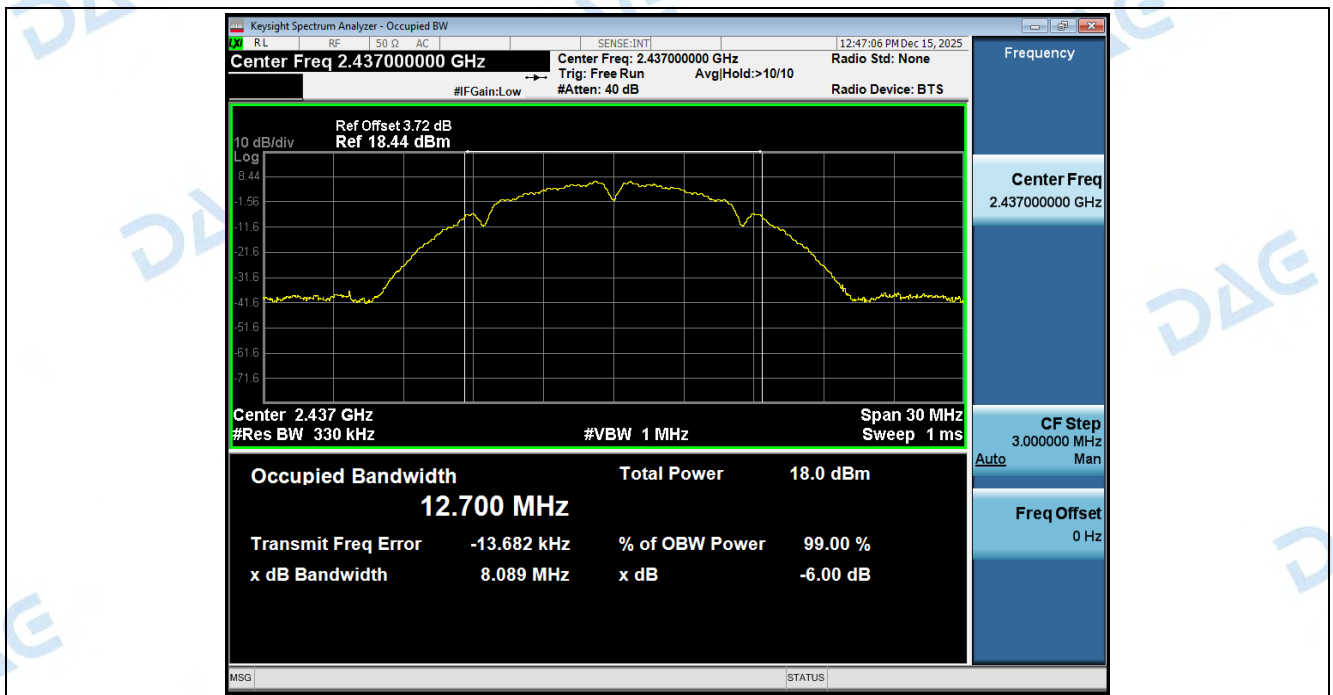
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.11	500	Pass
NVNT	ANT1	802.11b	2437.00	8.09	500	Pass
NVNT	ANT1	802.11b	2462.00	8.10	500	Pass
NVNT	ANT1	802.11g	2412.00	16.28	500	Pass
NVNT	ANT1	802.11g	2437.00	16.18	500	Pass
NVNT	ANT1	802.11g	2462.00	16.30	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.56	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.50	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.55	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.36	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.61	500	Pass

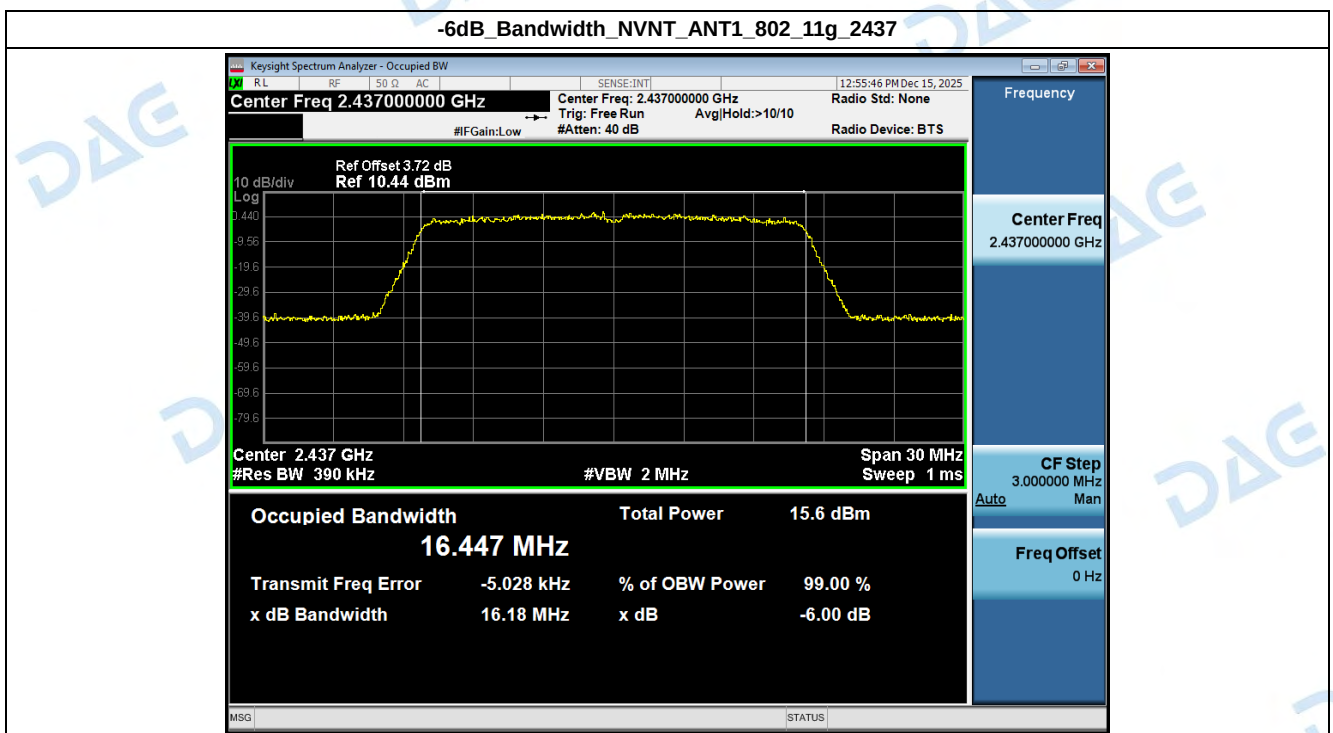
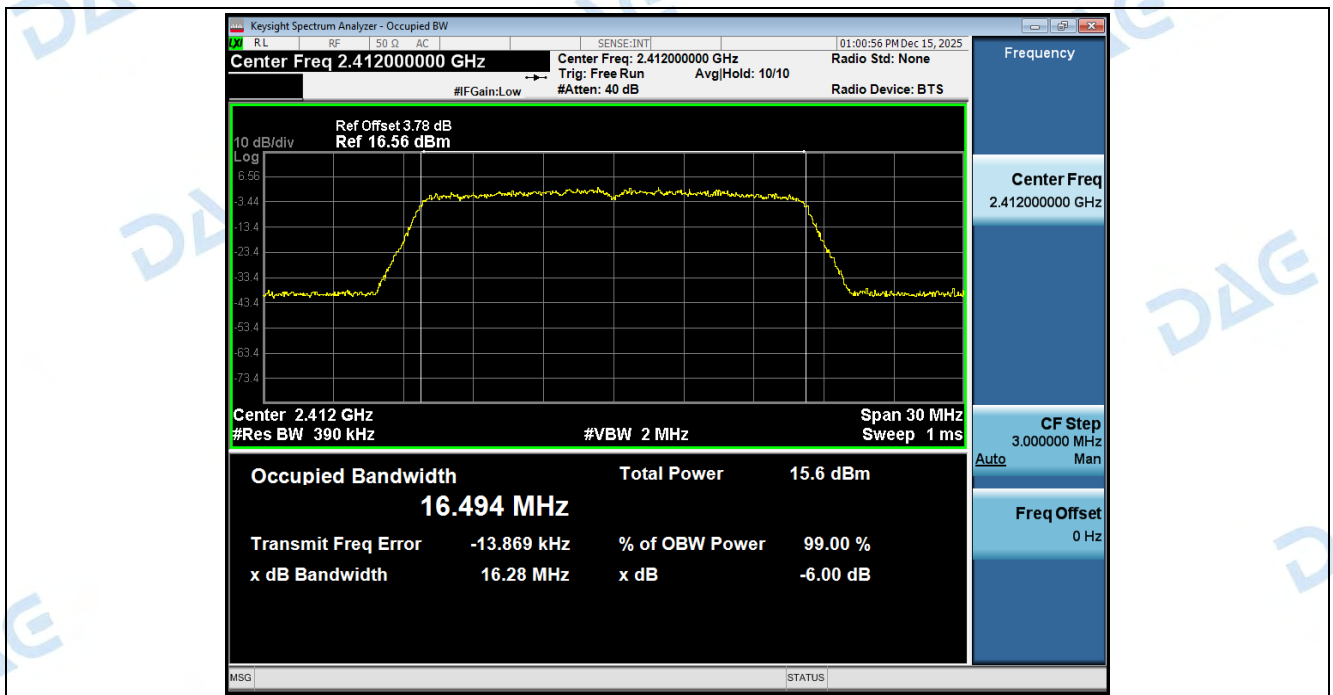
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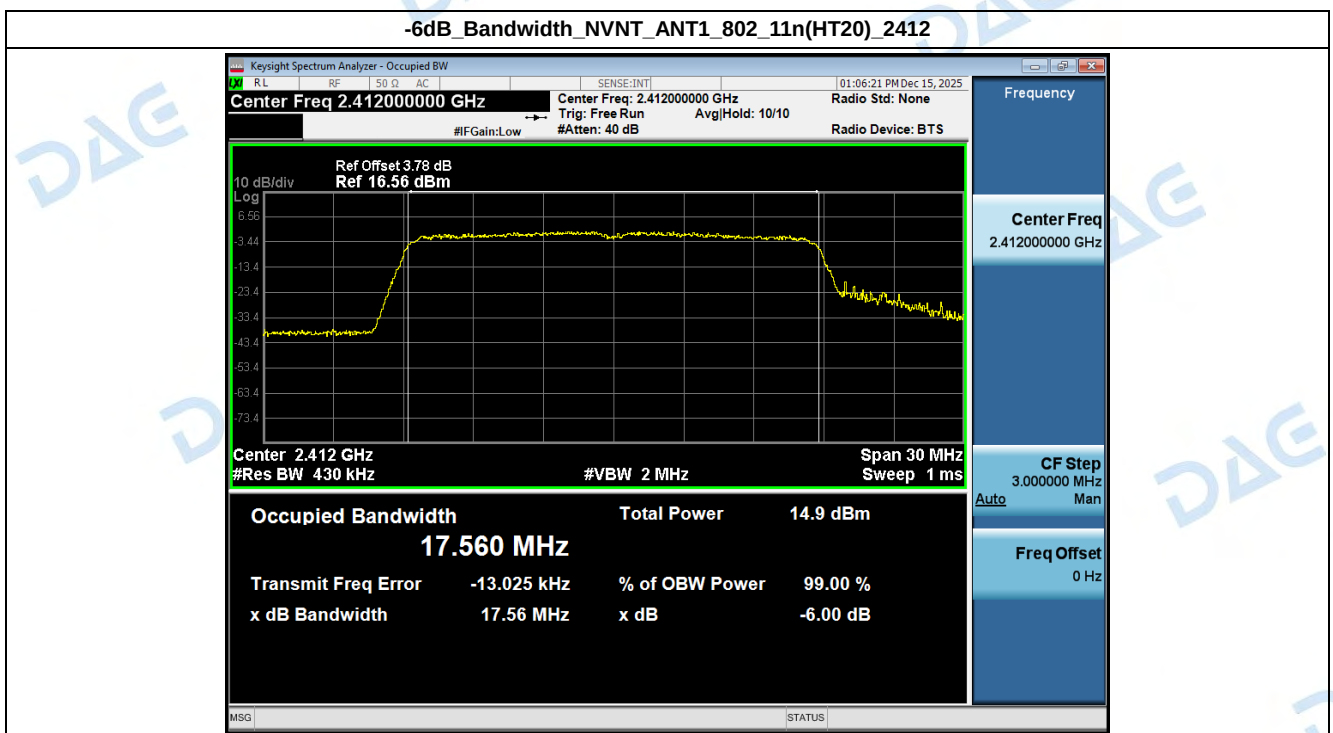
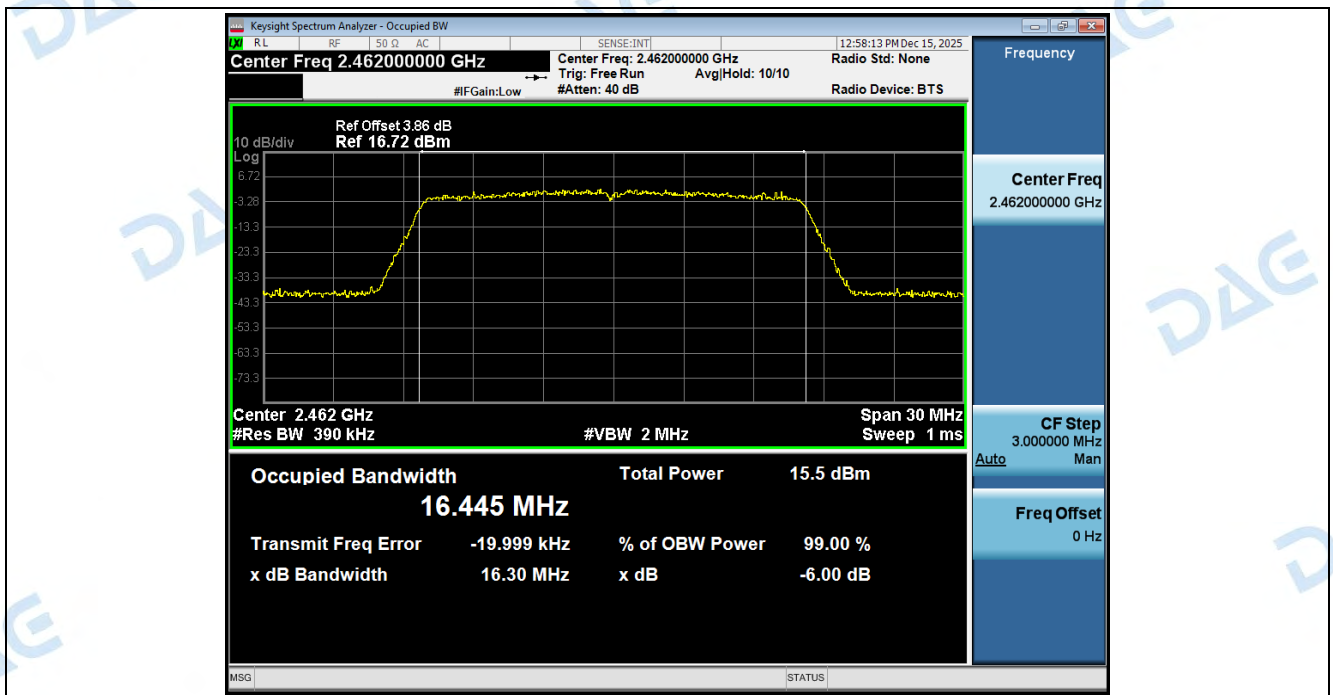
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

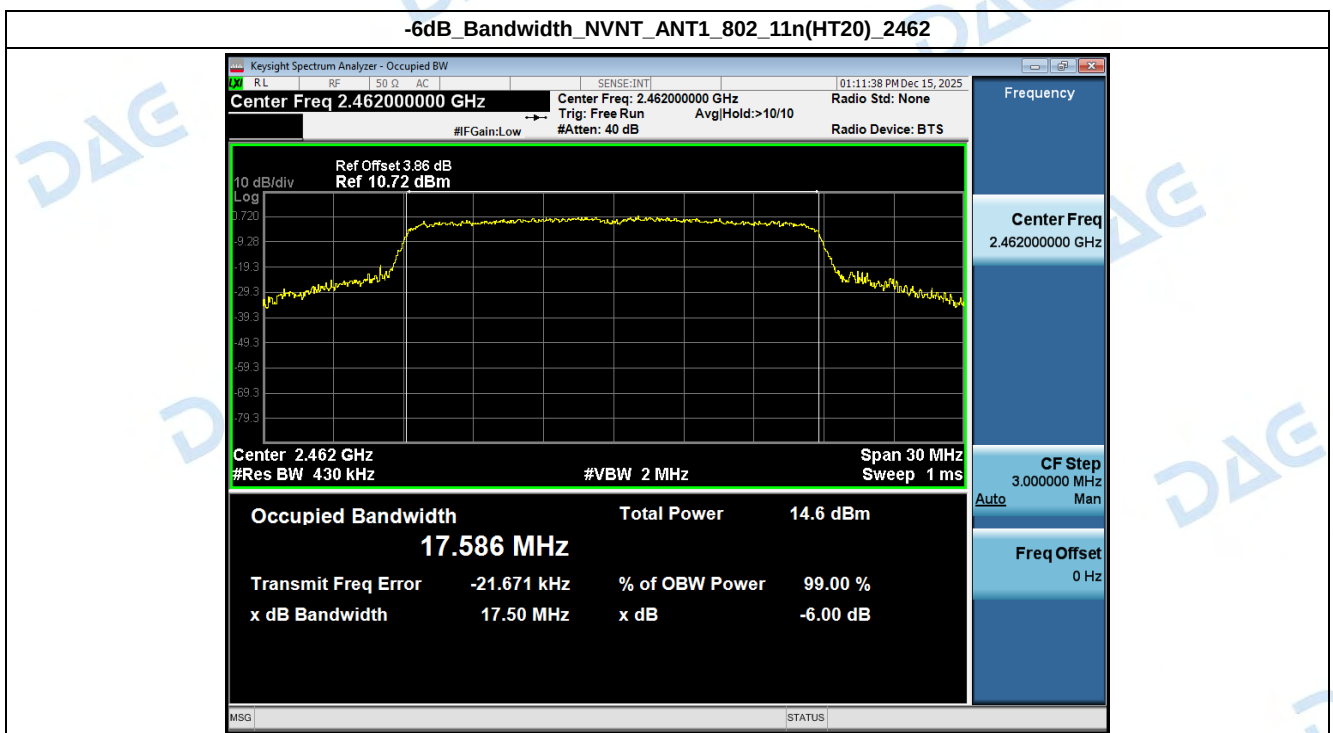
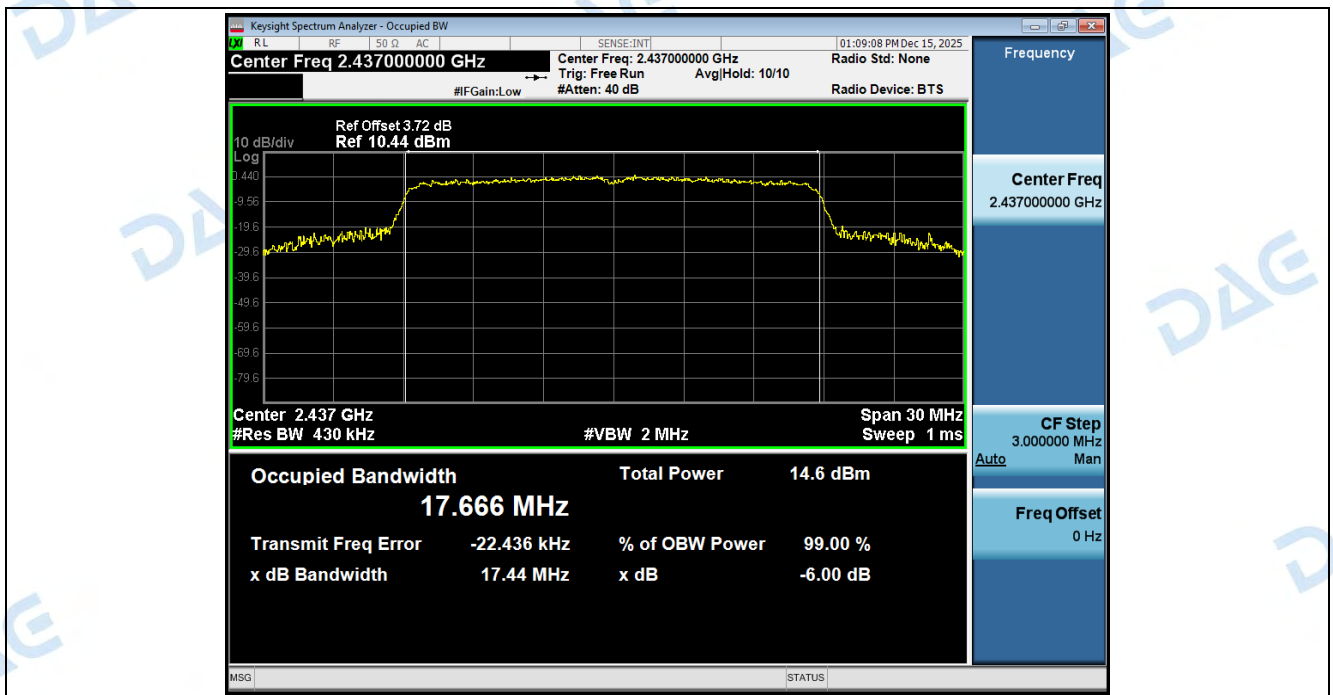


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

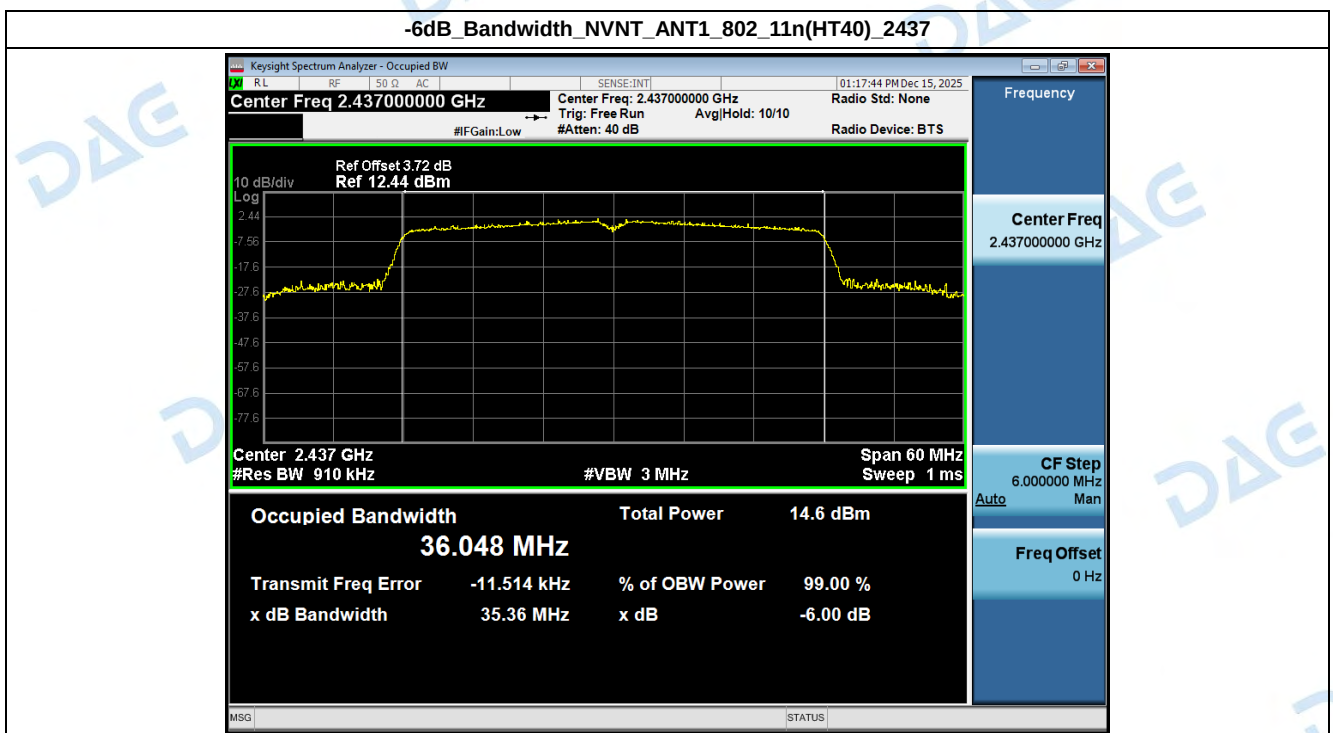
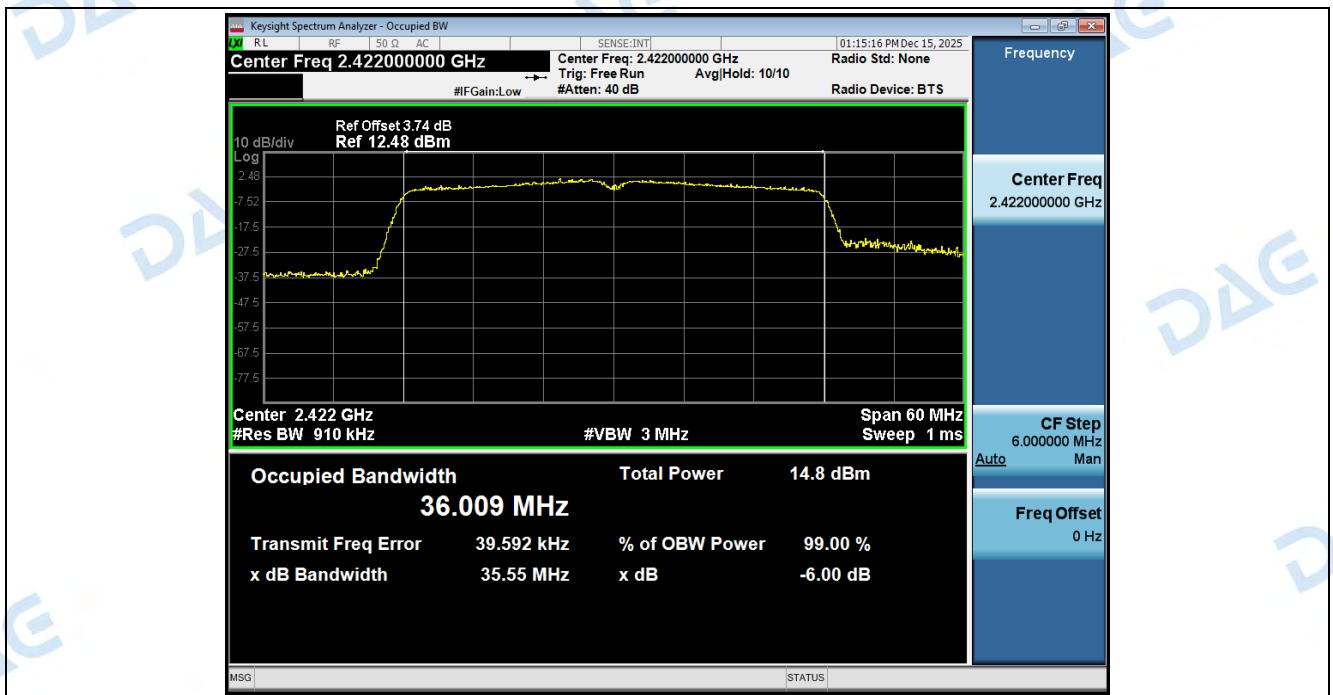


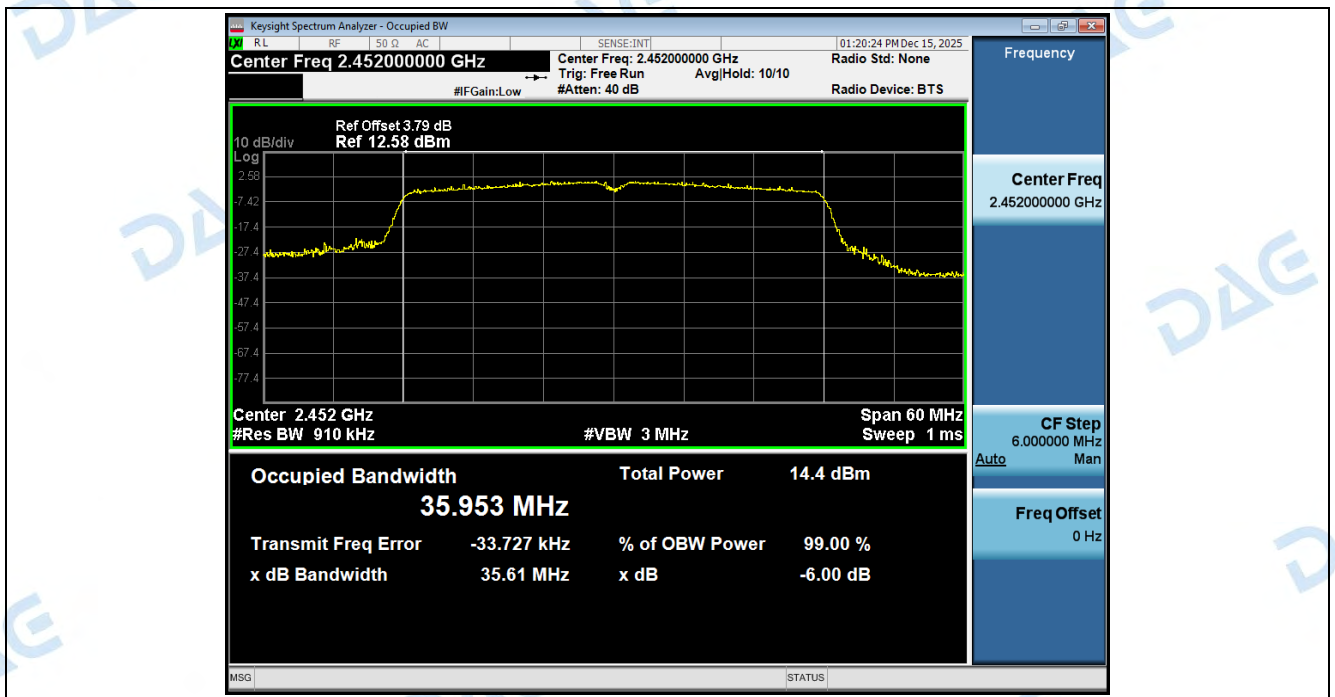
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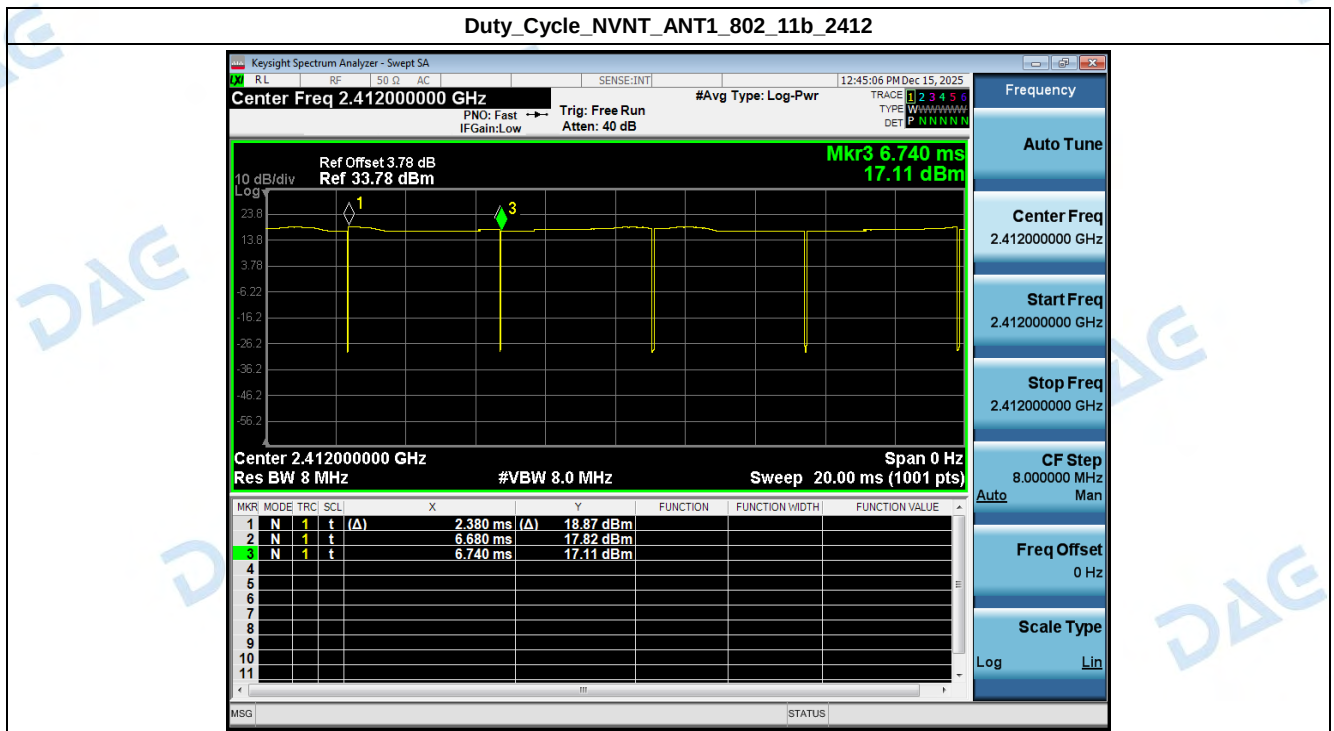
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



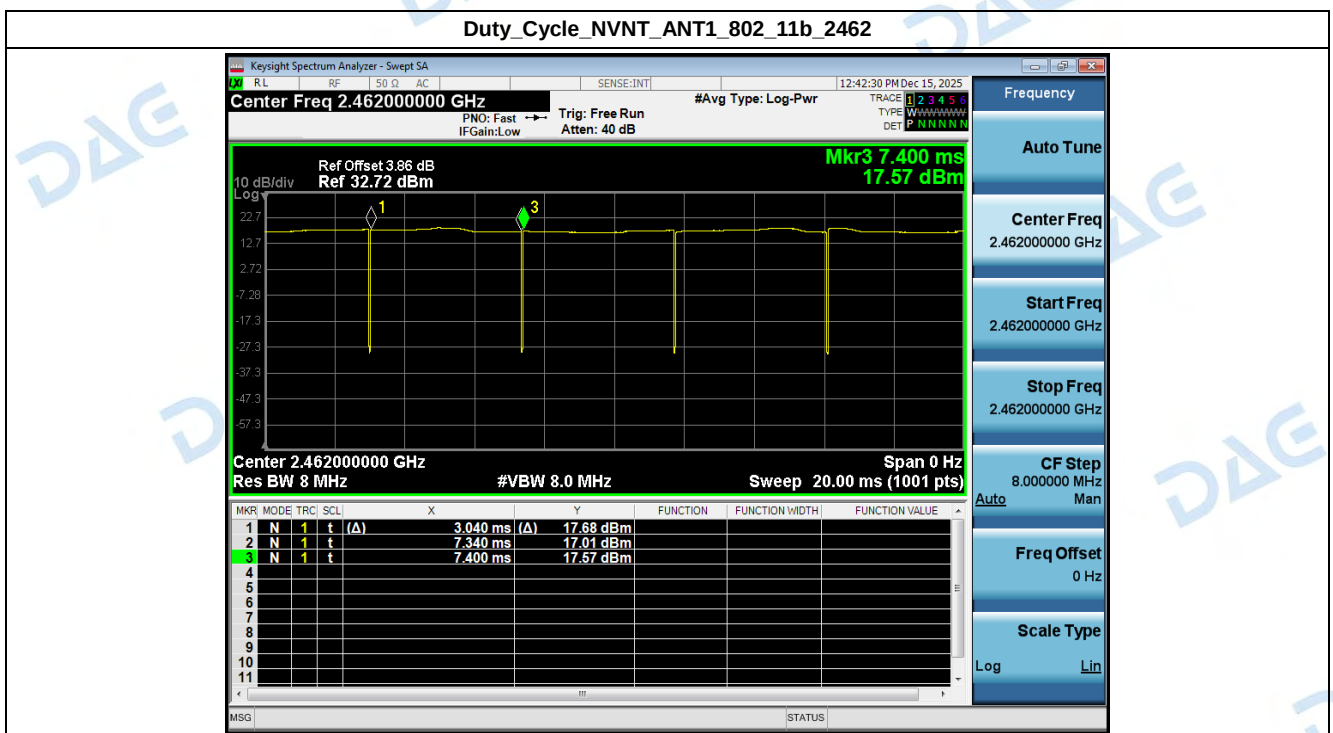
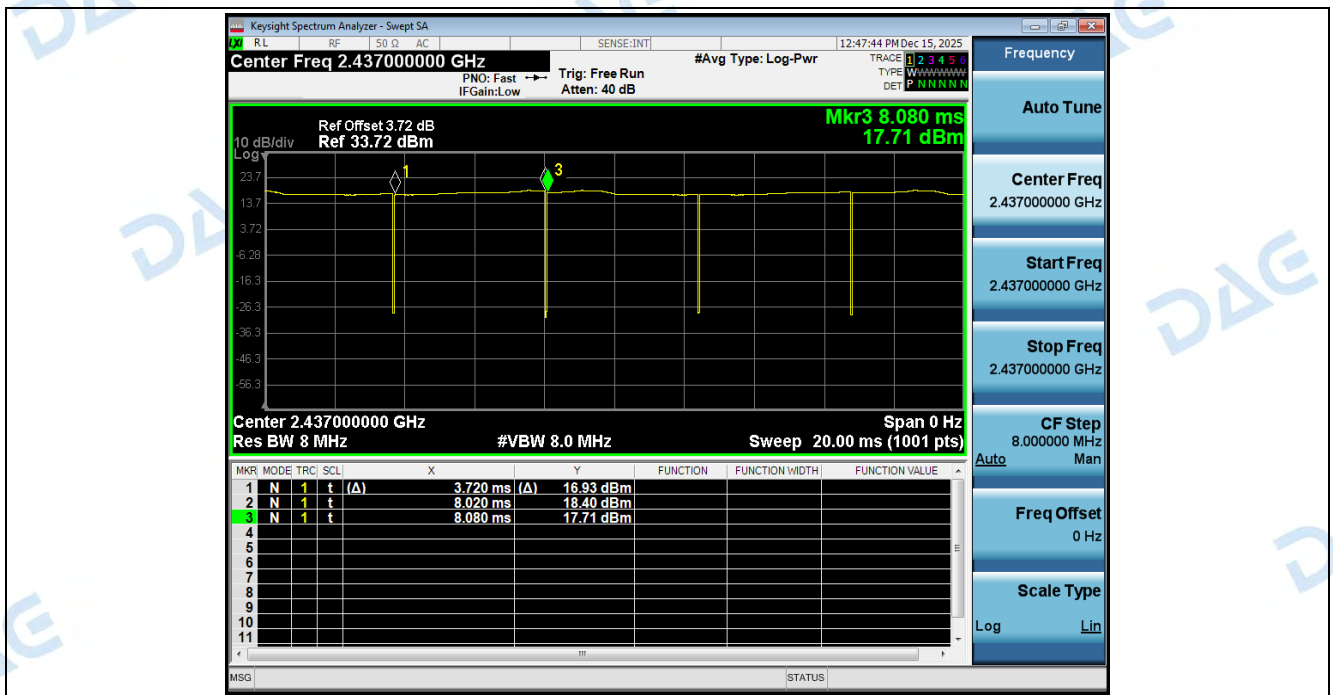


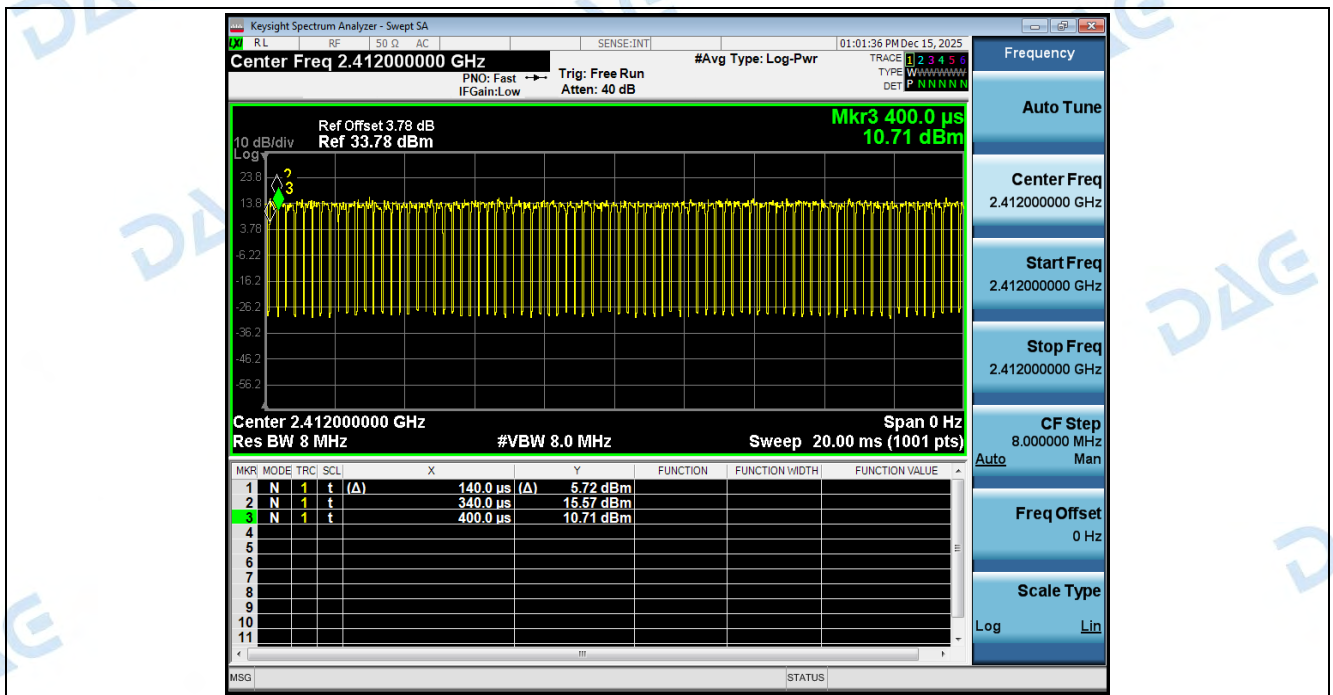
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.08	0.00
NVNT	ANT1	802.11b	2437.00	99.08	0.00
NVNT	ANT1	802.11b	2462.00	99.08	0.00
NVNT	ANT1	802.11g	2412.00	84.62	0.73
NVNT	ANT1	802.11g	2437.00	84.62	0.73
NVNT	ANT1	802.11g	2462.00	84.62	0.73
NVNT	ANT1	802.11n(HT20)	2412.00	98.53	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	97.06	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	94.29	0.26
NVNT	ANT1	802.11n(HT40)	2452.00	94.29	0.26

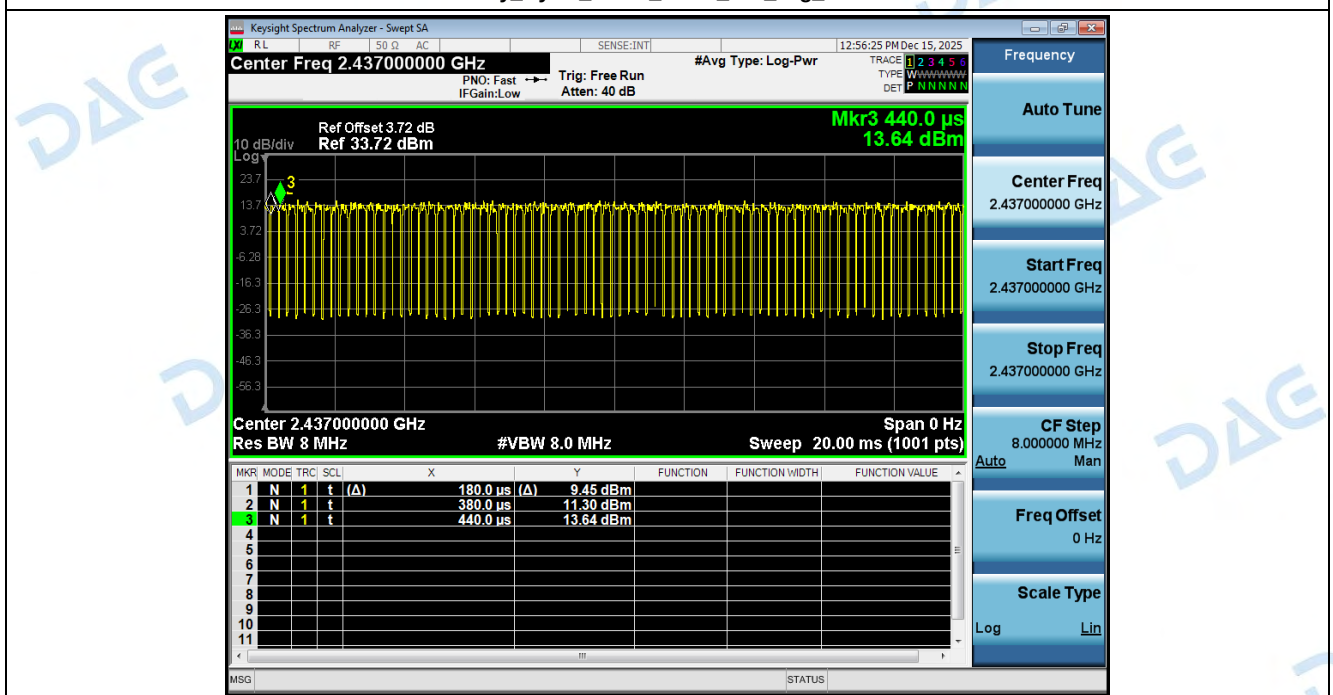


Duty_Cycle_NVNT_ANT1_802_11b_2437

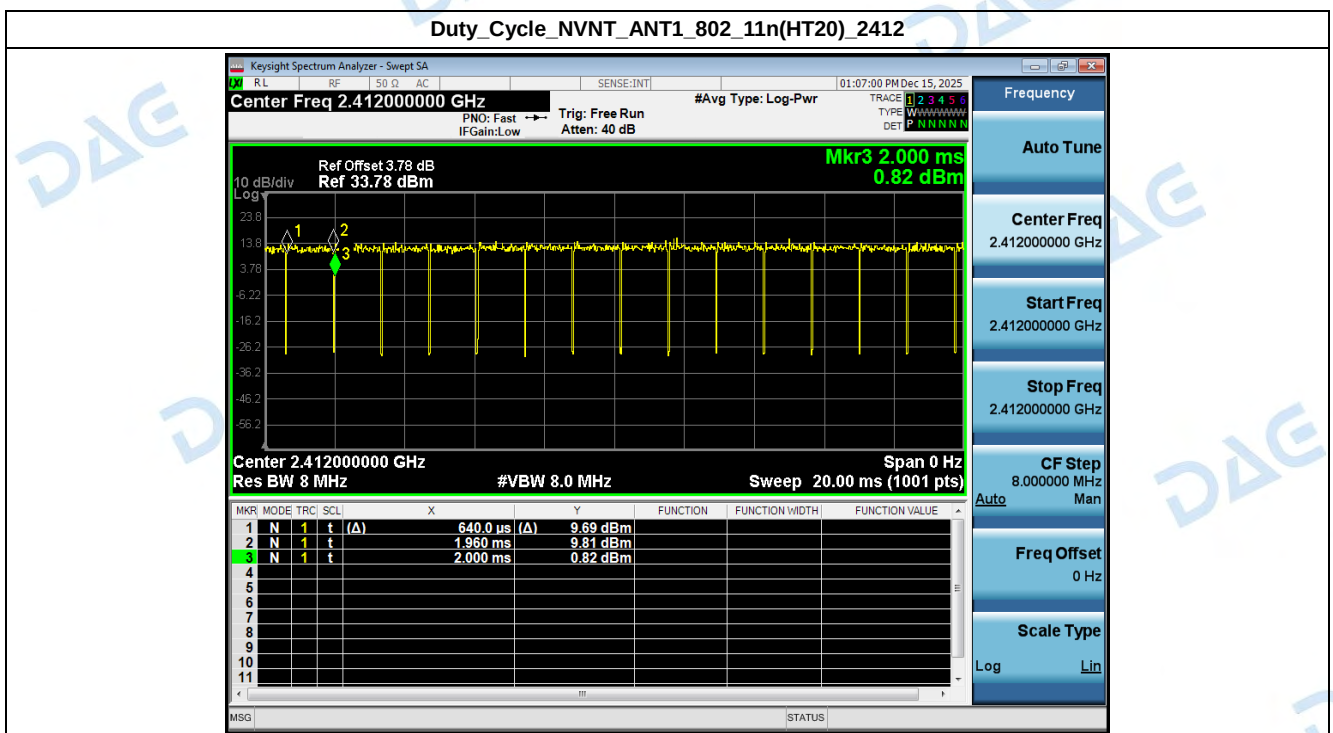
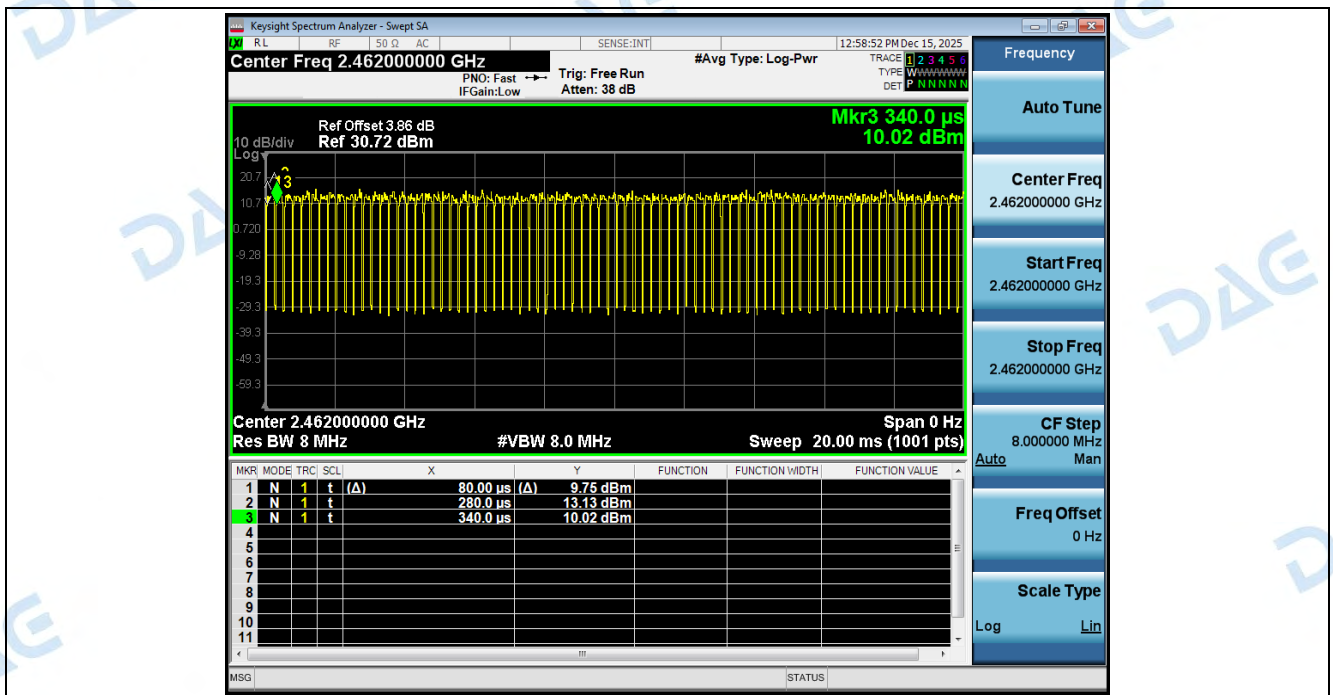




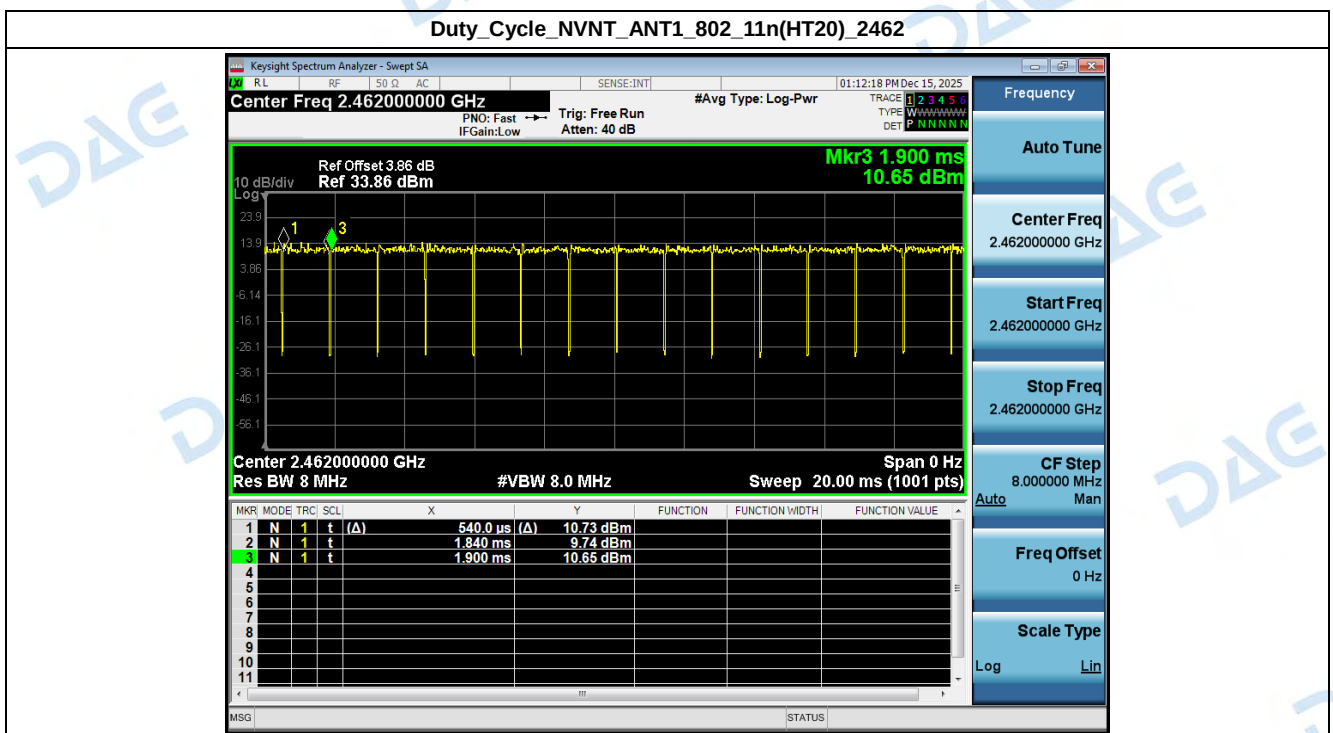
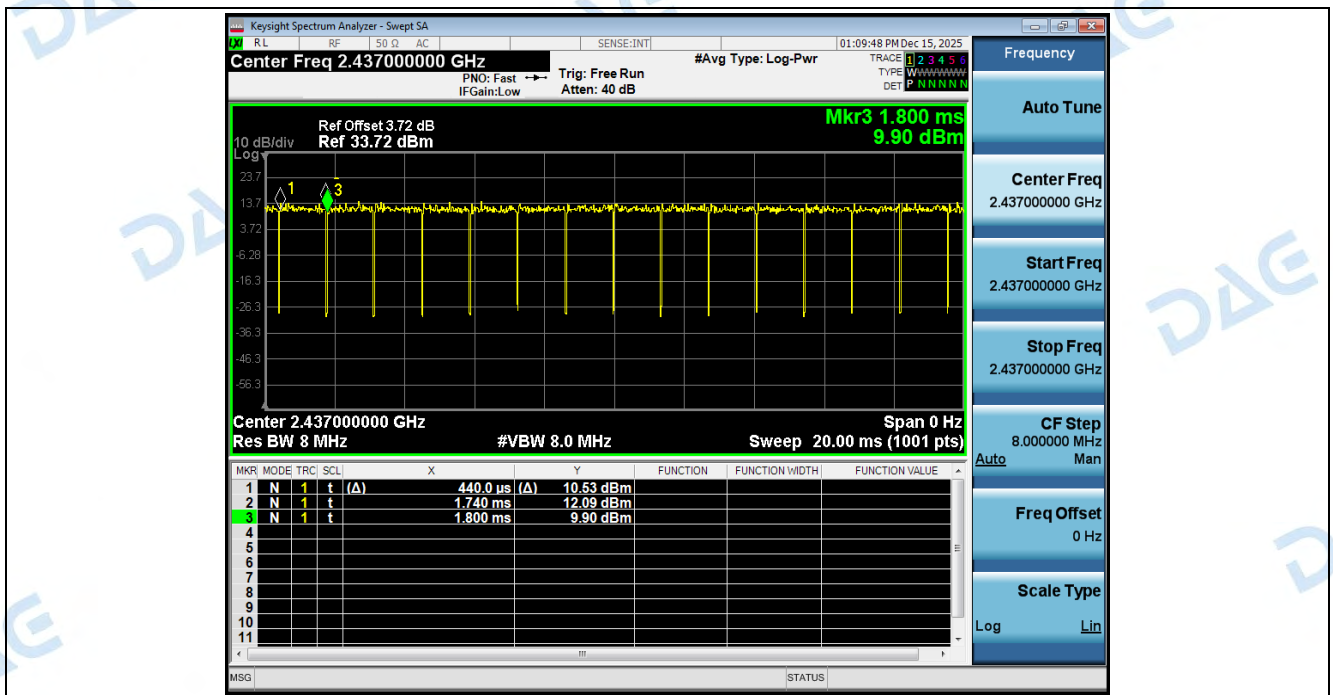
Duty_Cycle_NVNT_ANT1_802_11g_2437



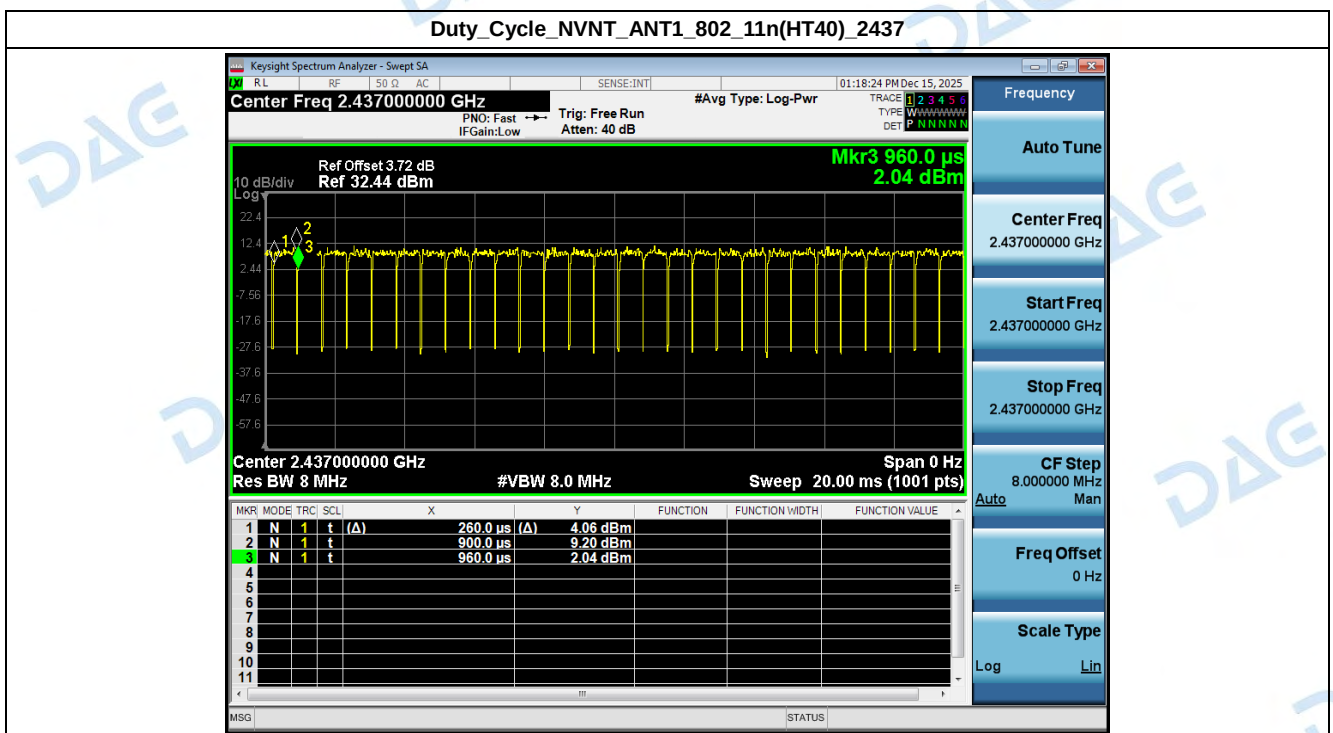
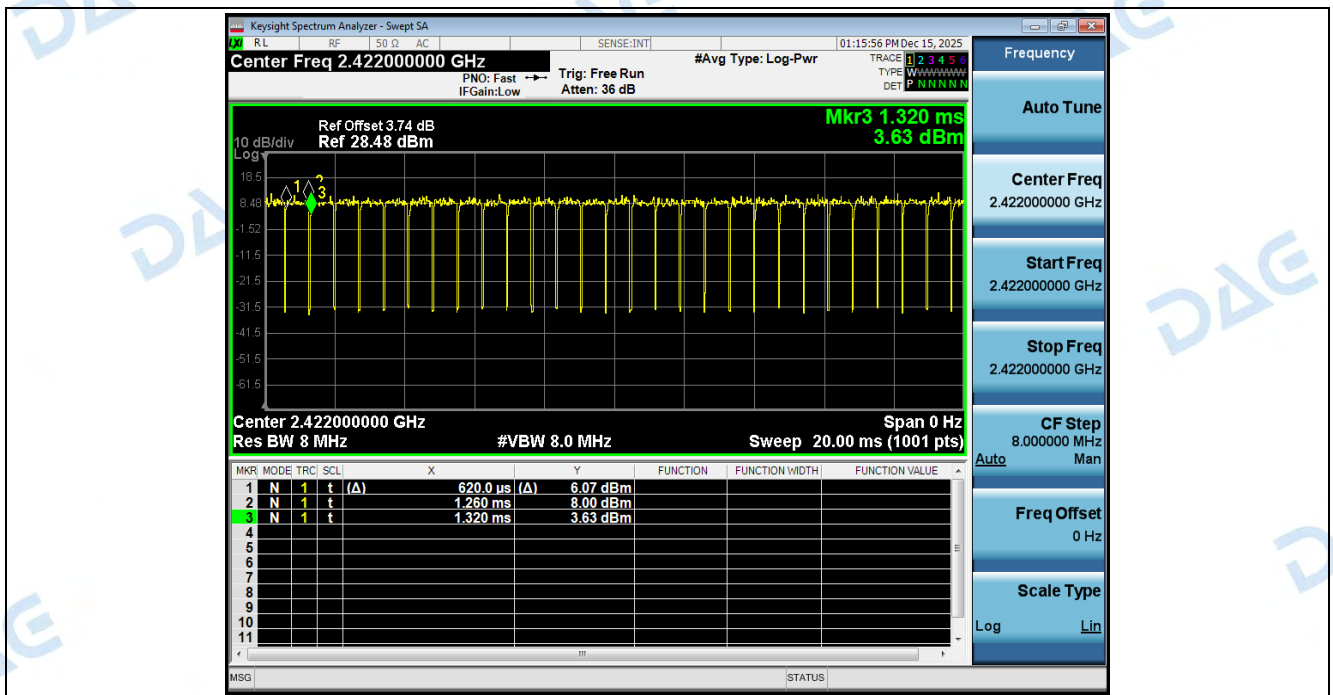
Duty_Cycle_NVNT_ANT1_802_11g_2462



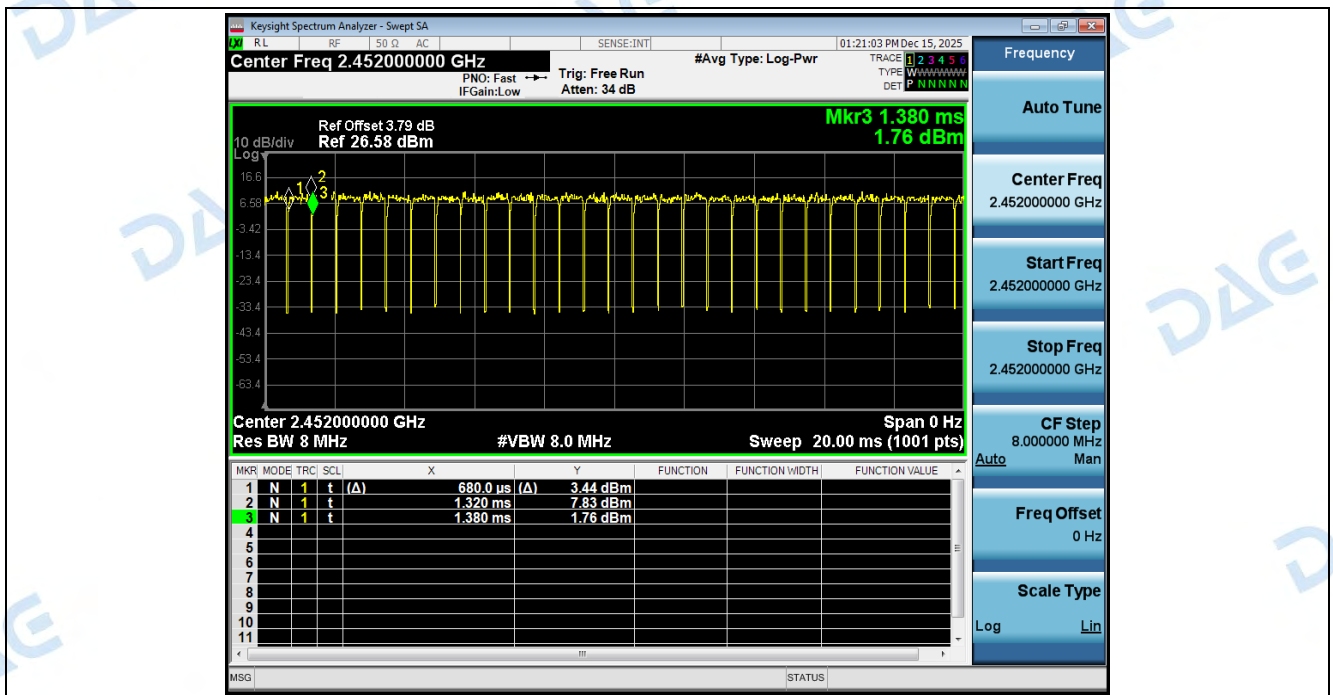
Duty Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle_NVNT_ANT1_802_11n(HT40)_2452



3. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.85	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.68	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.62	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.35	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	15.10	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	15.11	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	14.40	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	14.12	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	14.04	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	13.84	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	13.60	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	13.39	30	Pass

4. 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	1.19	N/A	-10.00	-8.81	8	Pass
NVNT	ANT1	802.11b	2437.00	0.90	N/A	-10.00	-9.11	8	Pass
NVNT	ANT1	802.11b	2462.00	1.37	N/A	-10.00	-8.63	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.42	N/A	-10.00	-17.42	8	Pass
NVNT	ANT1	802.11g	2437.00	-7.30	N/A	-10.00	-17.30	8	Pass
NVNT	ANT1	802.11g	2462.00	-7.44	N/A	-10.00	-17.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.19	N/A	-10.00	-17.19	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.67	N/A	-10.00	-17.67	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.70	N/A	-10.00	-17.70	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-11.53	N/A	-10.00	-21.53	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-11.31	N/A	-10.00	-21.31	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-11.99	N/A	-10.00	-21.99	8	Pass

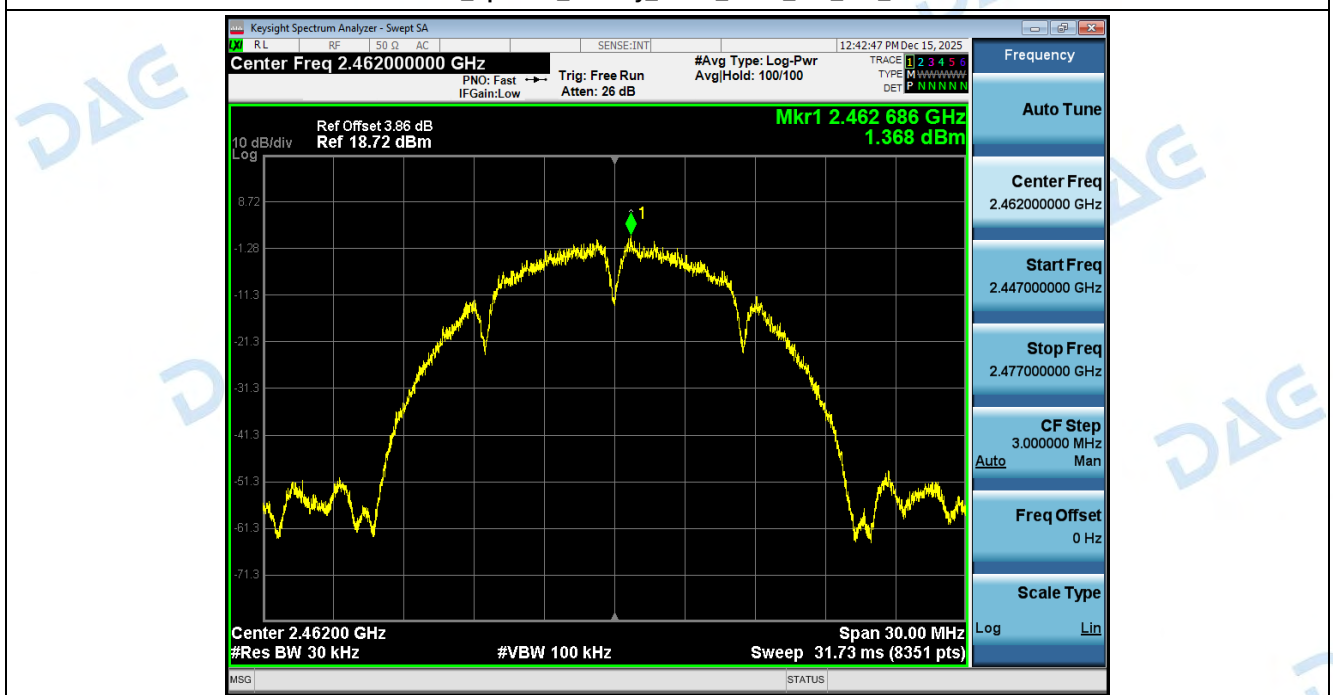
Power Spectral Density_NVNT_ANT1_802_11b_2412



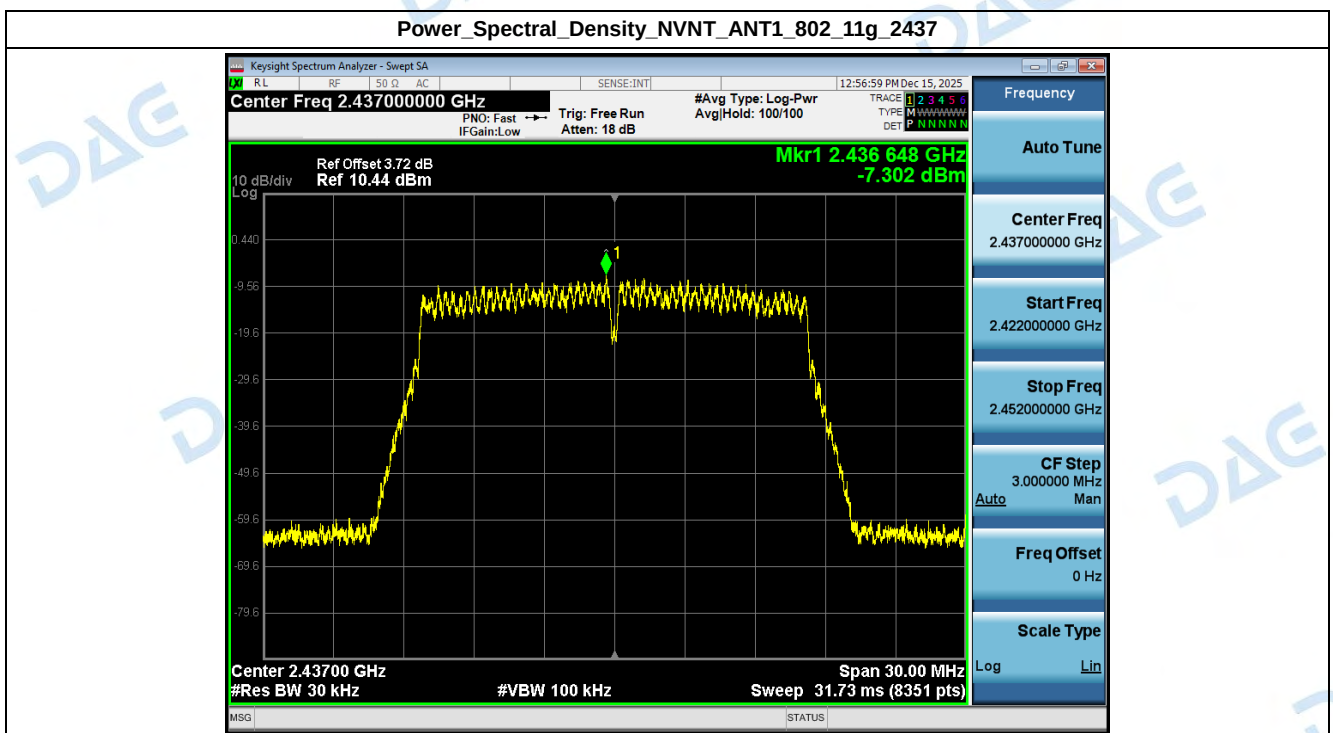
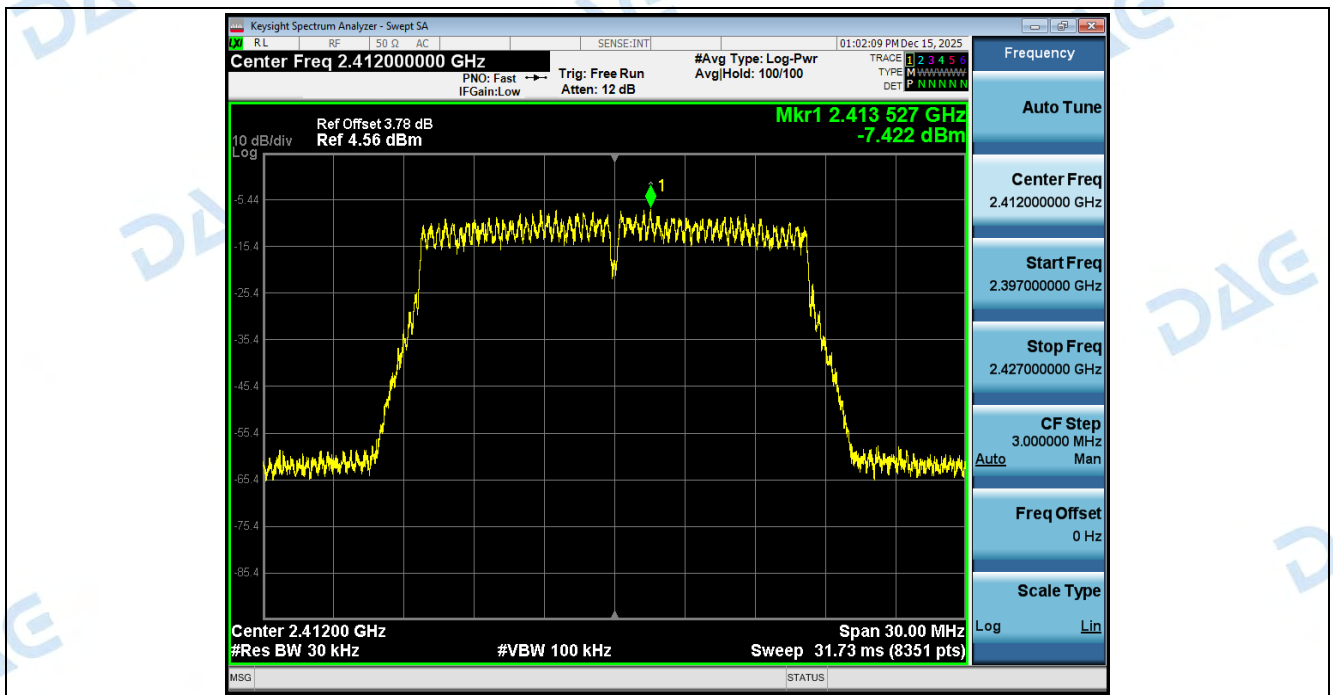
Power Spectral Density_NVNT_ANT1_802_11b_2437



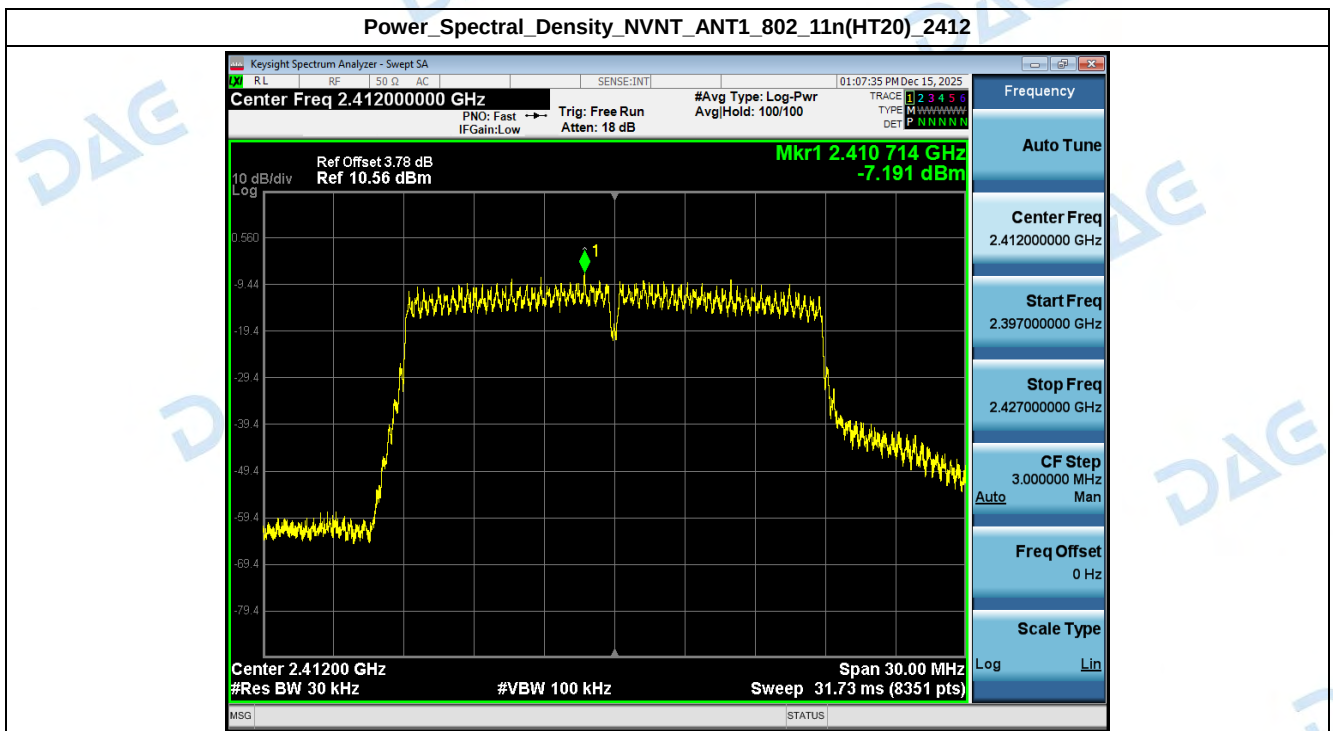
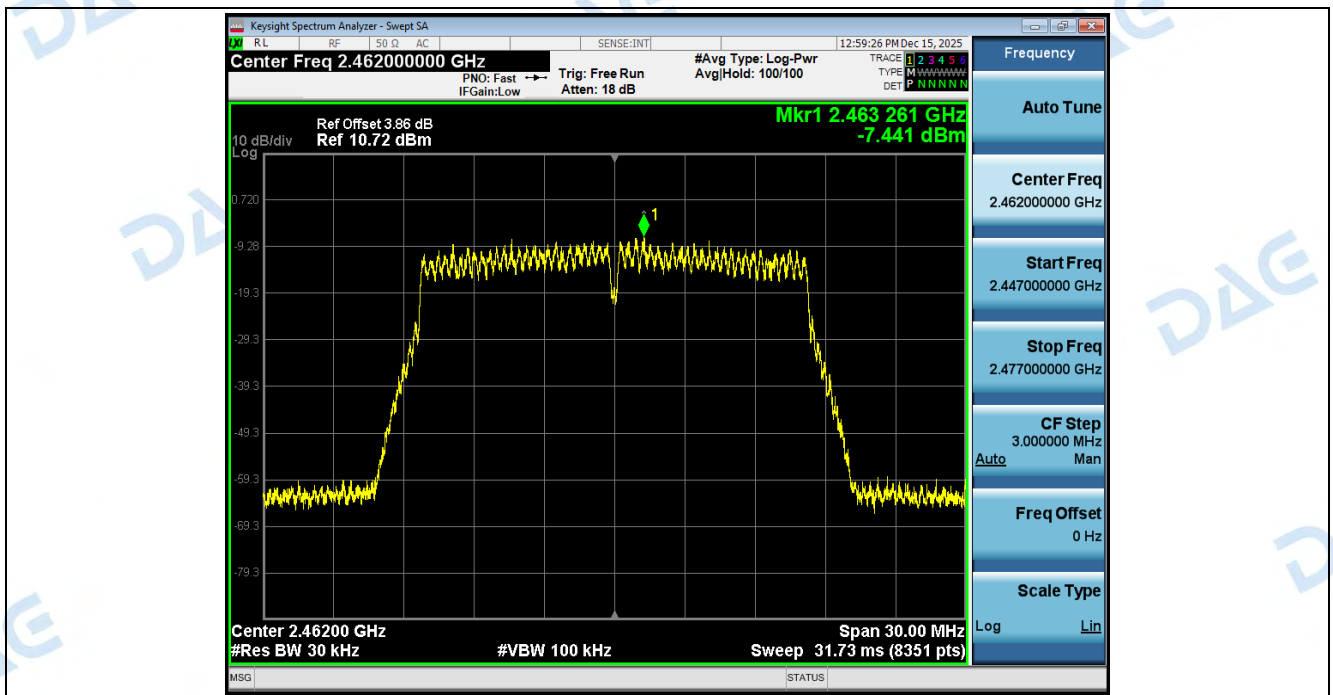
Power Spectral Density_NVNT_ANT1_802_11b_2462



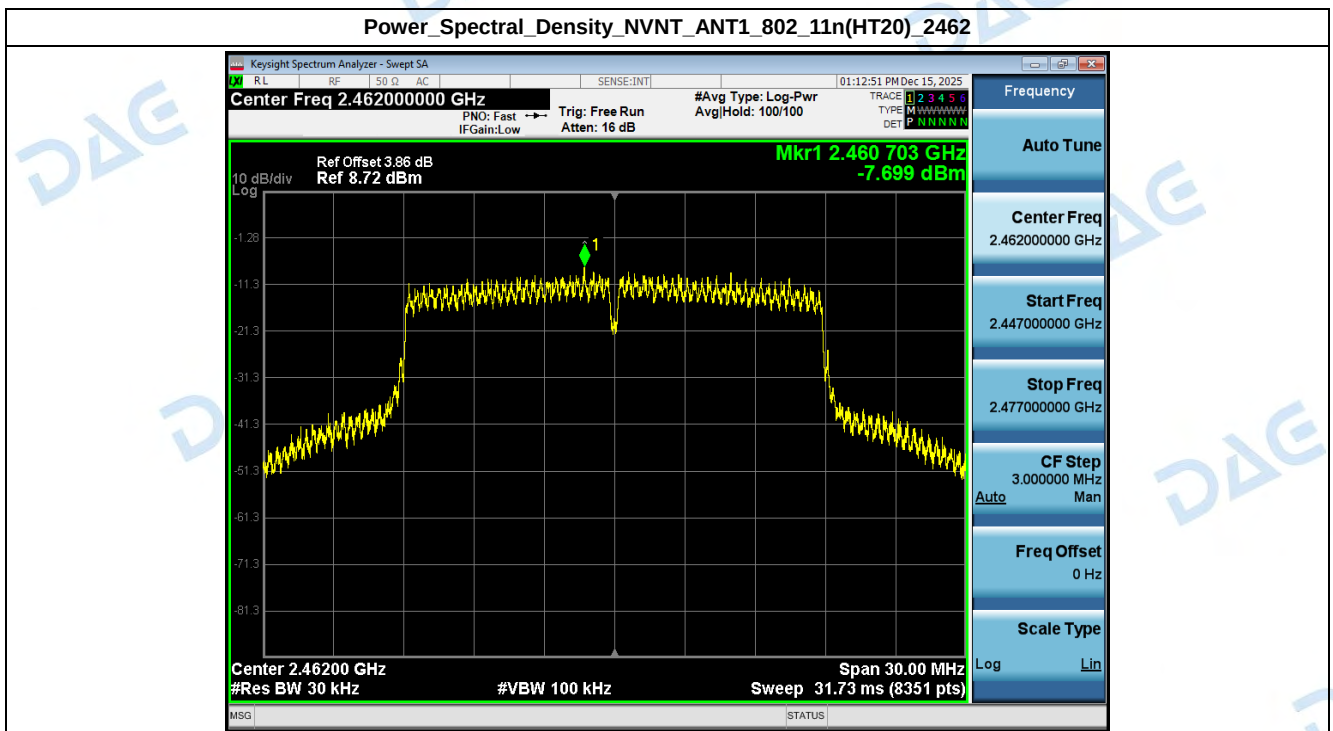
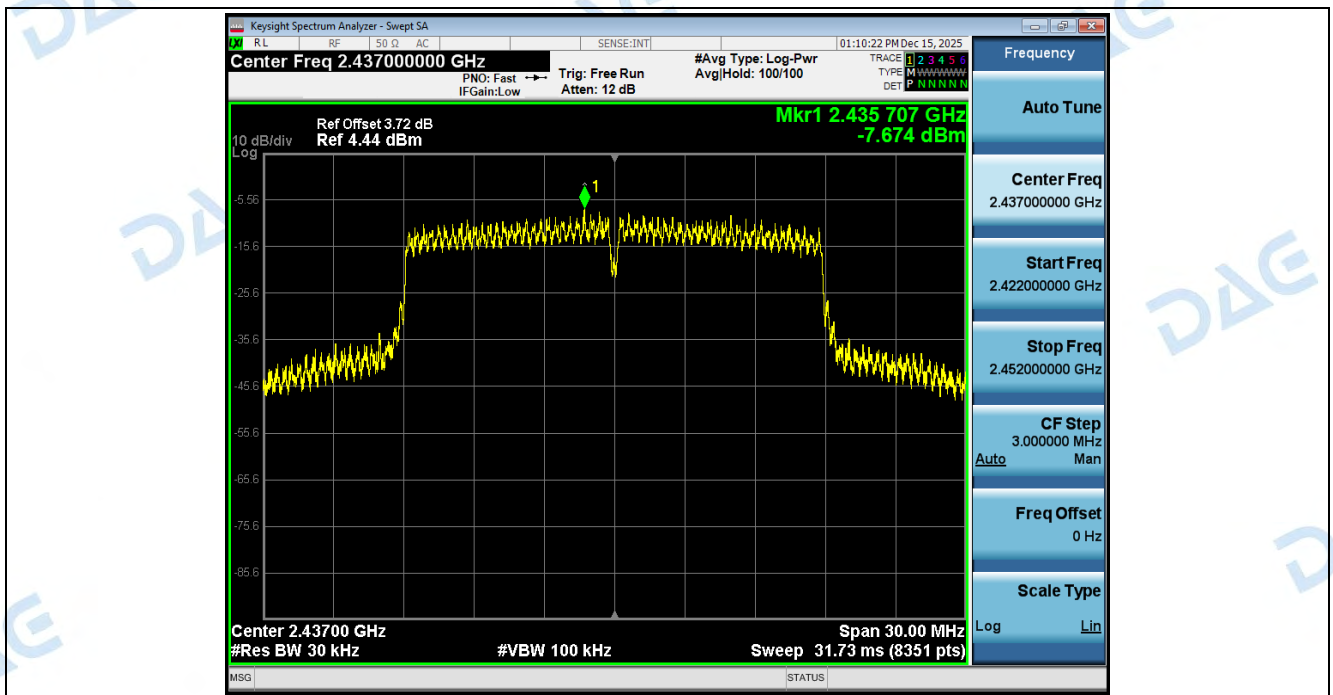
Power Spectral Density_NVNT_ANT1_802_11g_2412

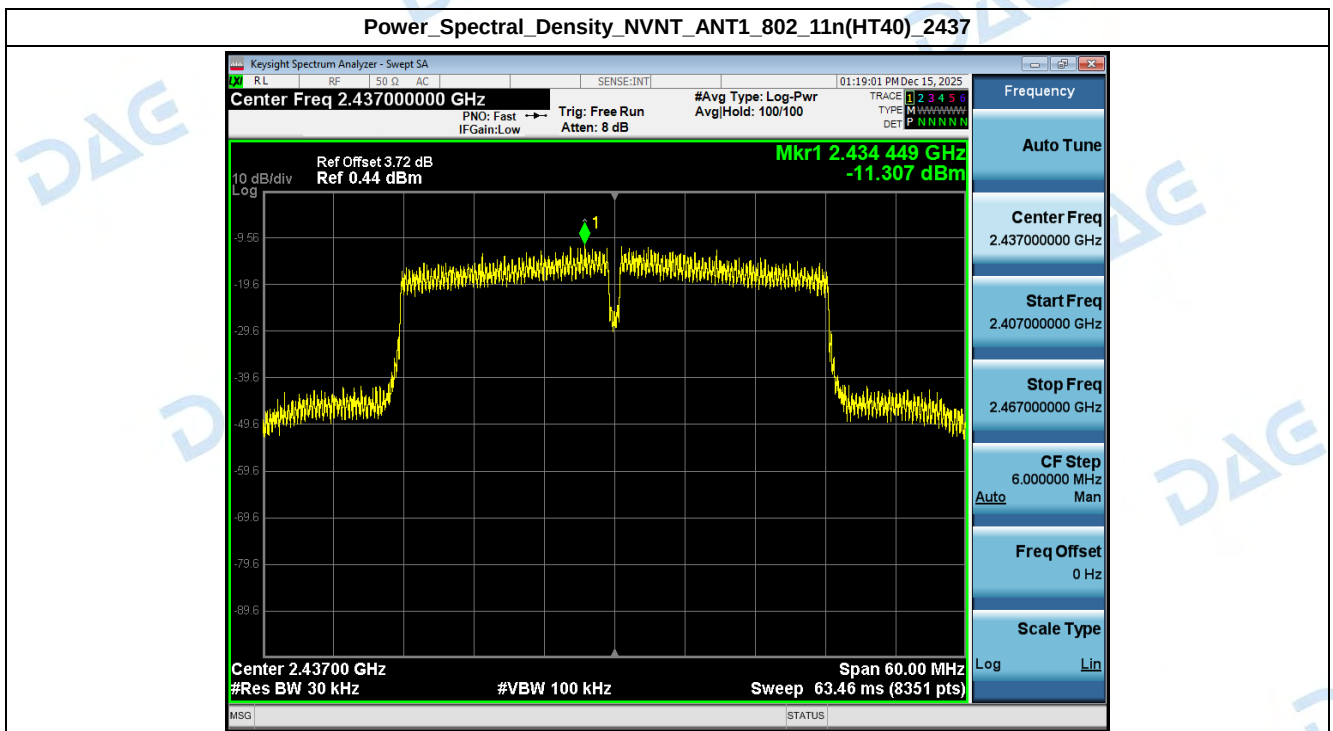
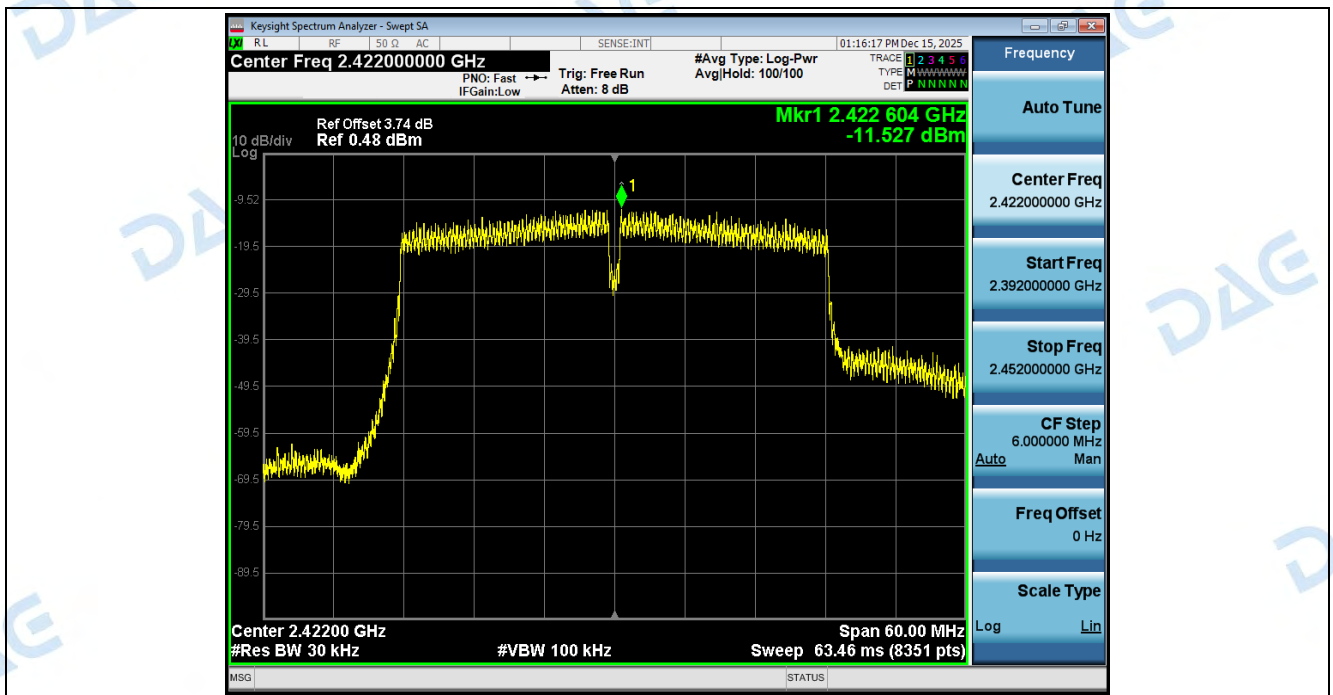


Power Spectral Density NVNT_ANT1_802_11g_2462



Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437





Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



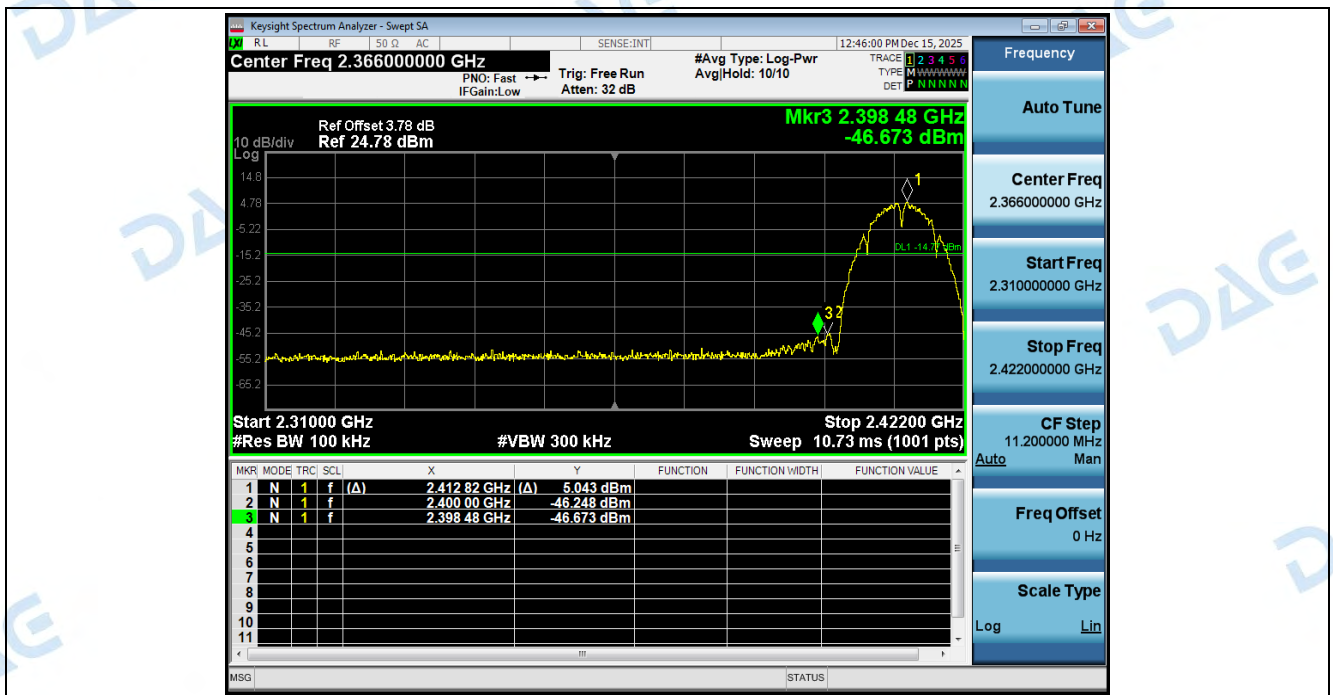
5. Bandedge

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	2398.480	5.233	-46.673	-14.767	Pass
NVNT	ANT1	802.11b	2462.00	2492.896	5.072	-50.863	-14.928	Pass
NVNT	ANT1	802.11g	2412.00	2390.640	-2.664	-54.151	-22.664	Pass
NVNT	ANT1	802.11g	2462.00	2499.424	-2.970	-56.006	-22.970	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-2.802	-54.267	-22.802	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.456	-2.829	-55.656	-22.829	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2394.480	-6.140	-56.287	-26.140	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-6.985	-56.538	-26.985	Pass

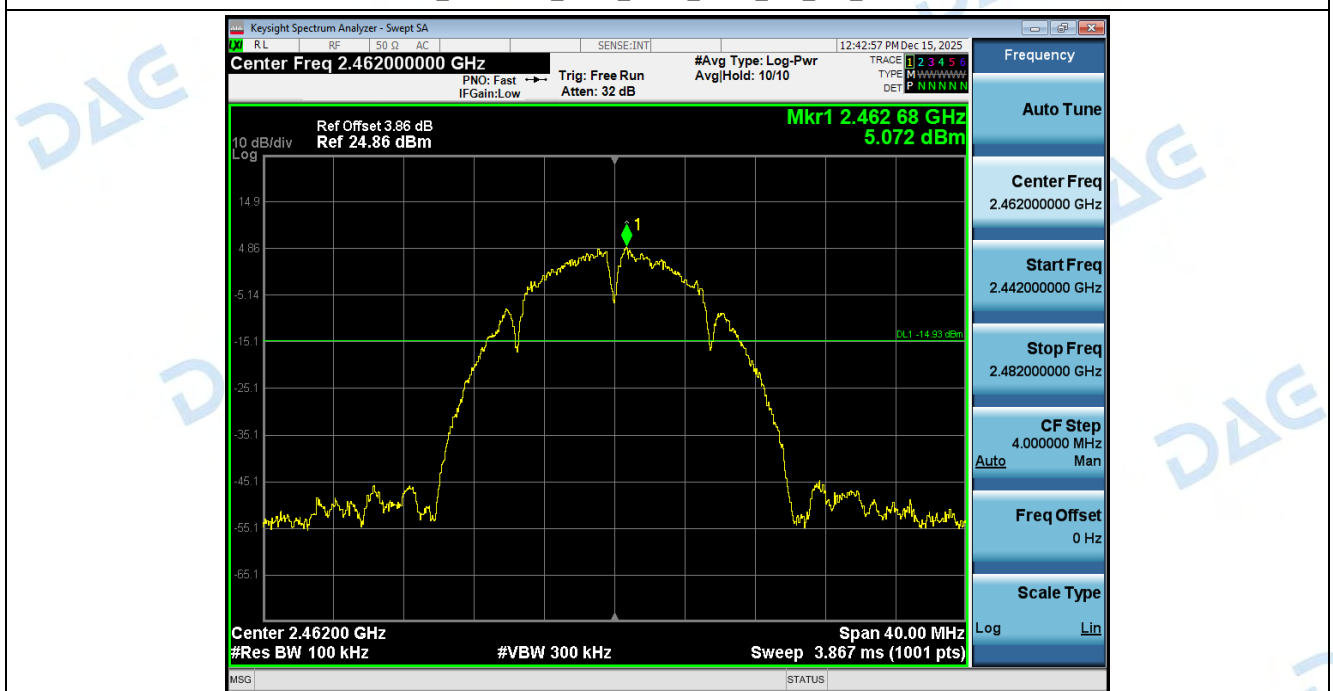
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



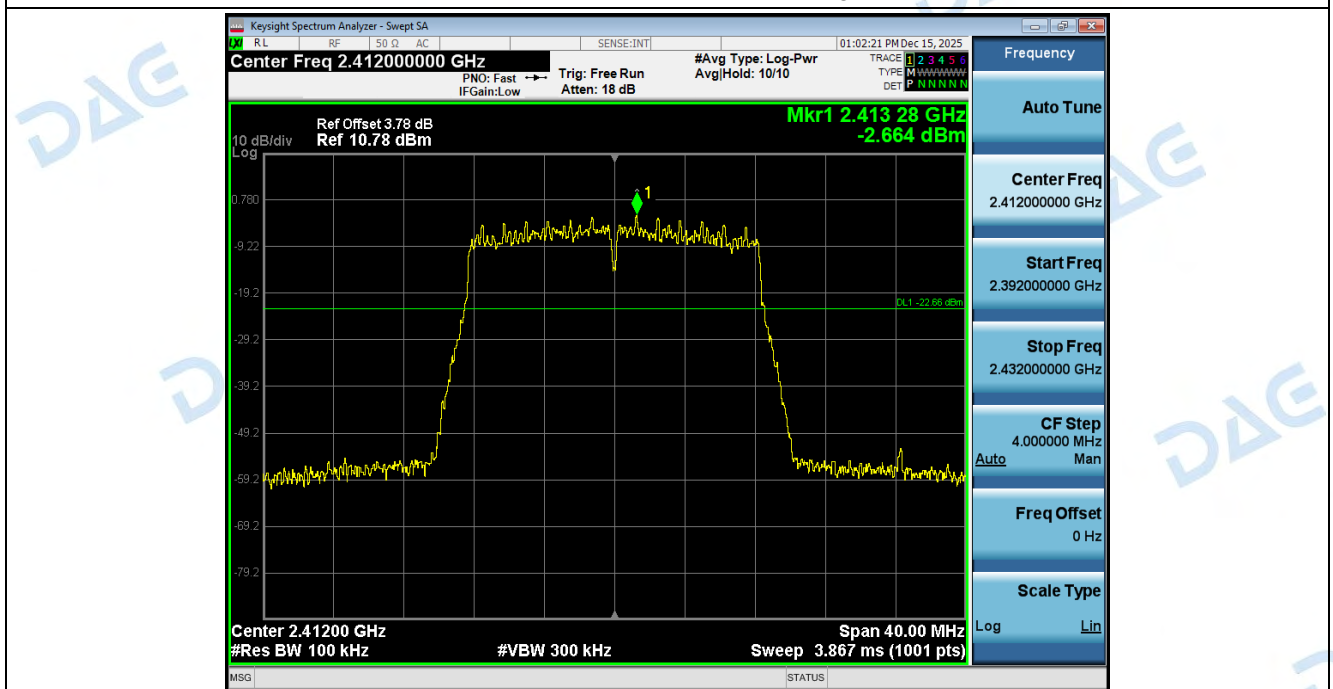
1 Reference_Level_NVNT_ANT1_802_11b_2462



2 Bandedge_NVNT_ANT1_802_11b_2462



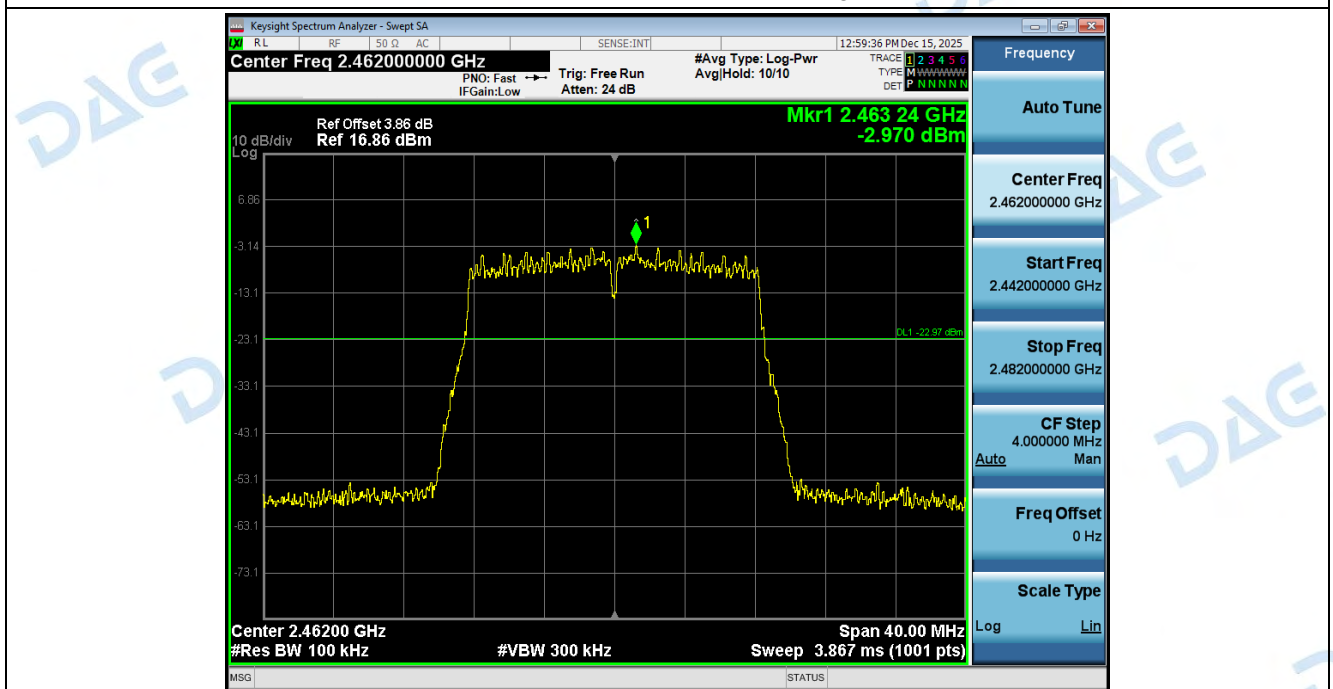
1 Reference_Level_NVNT_ANT1_802_11g_2412



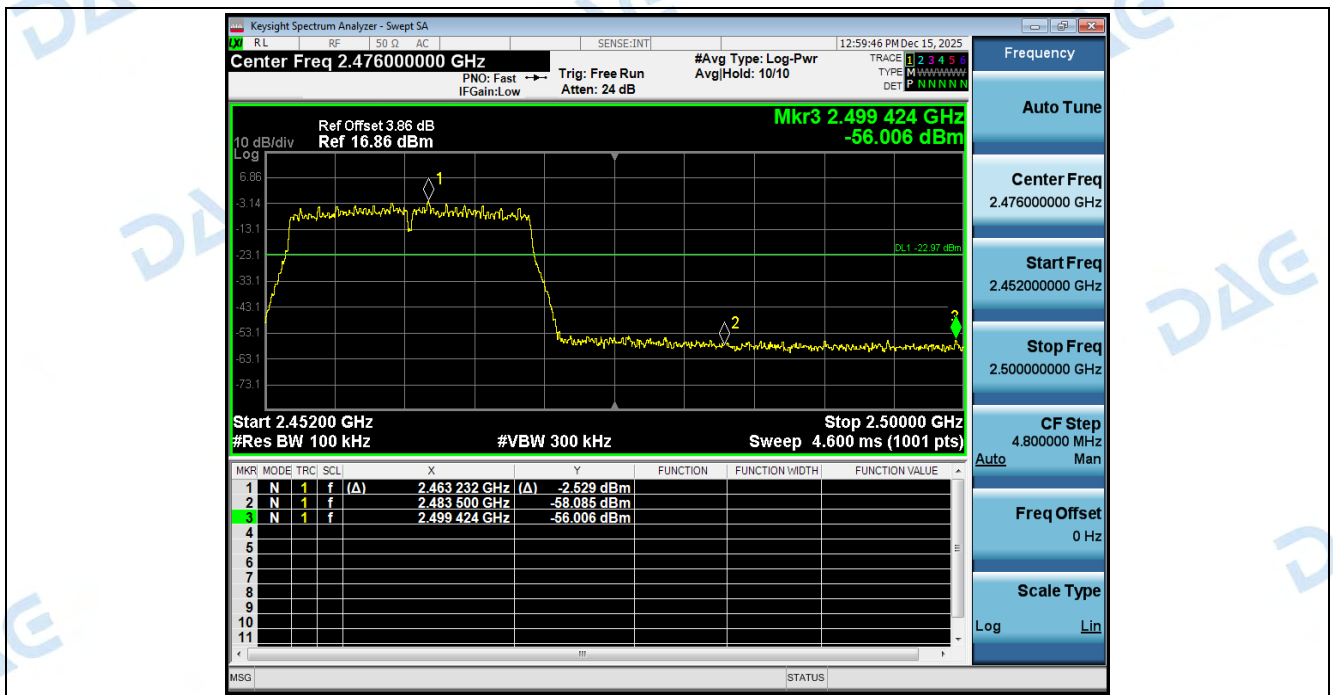
2 Bandedge_NVNT_ANT1_802_11g_2412



1 Reference_Level_NVNT_ANT1_802_11g_2462



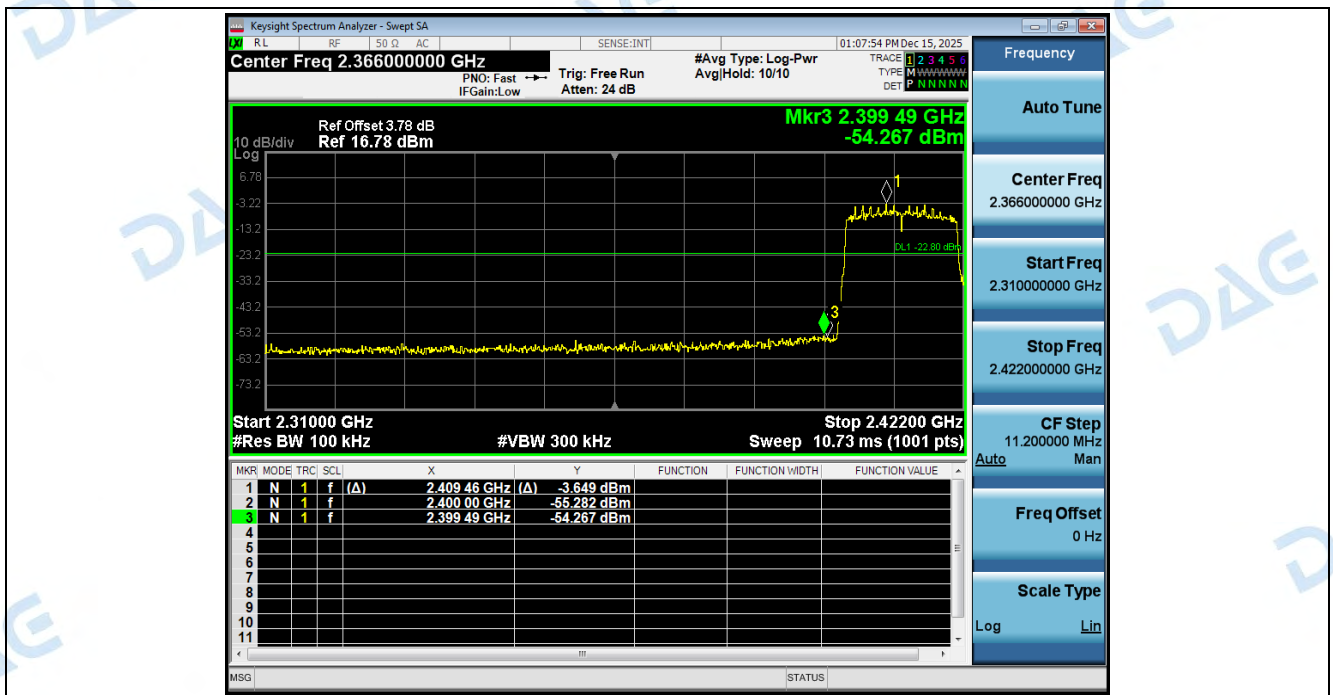
2 Bandedge_NVNT_ANT1_802_11g_2462



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



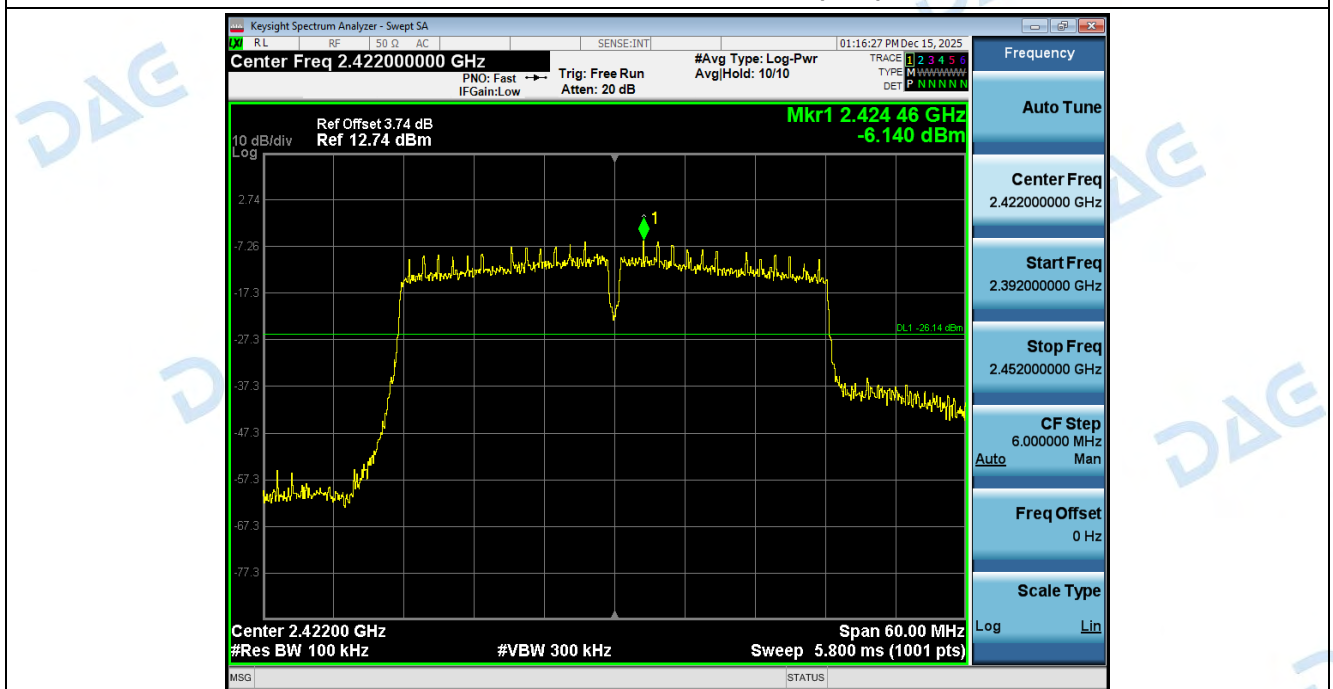
1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



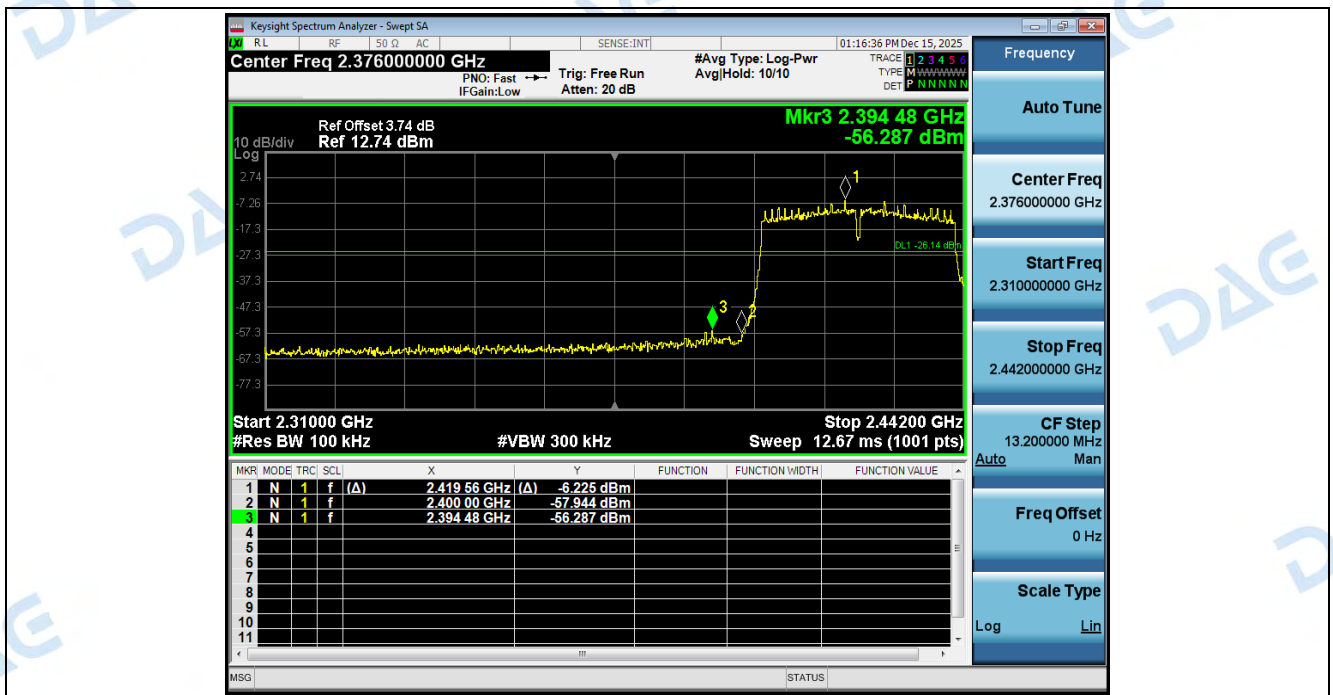
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



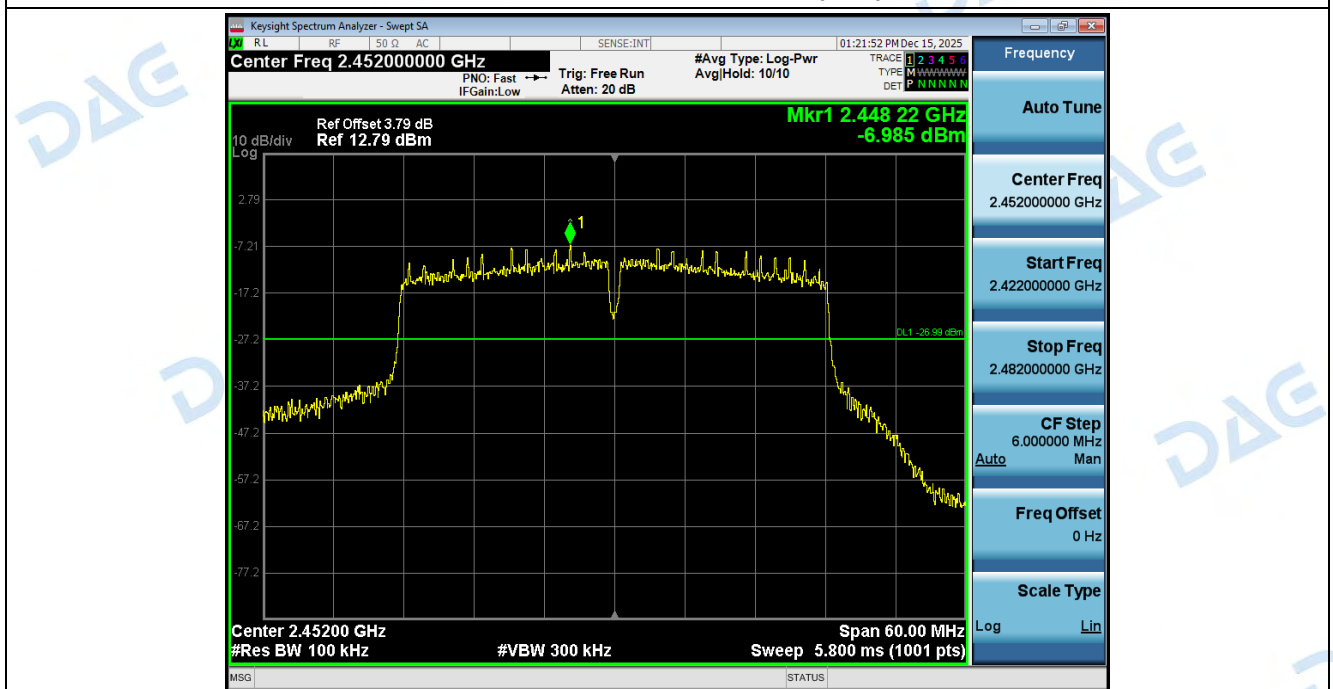
1 Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



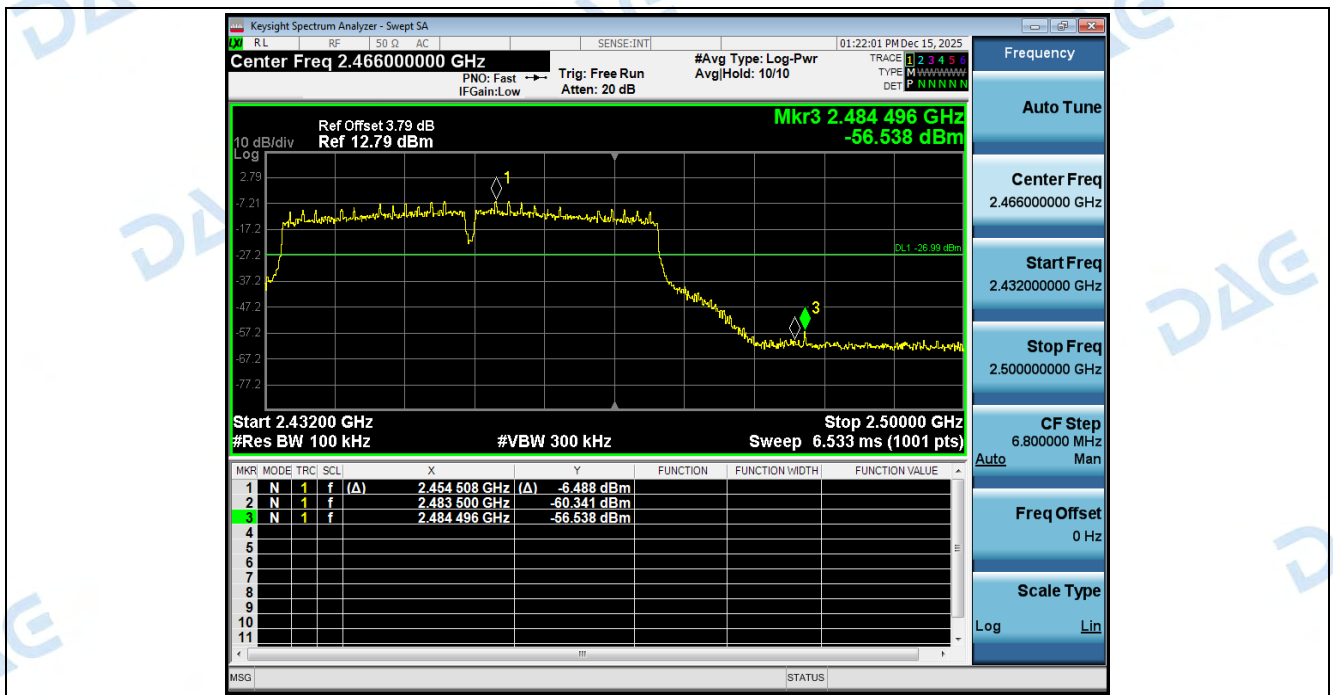
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



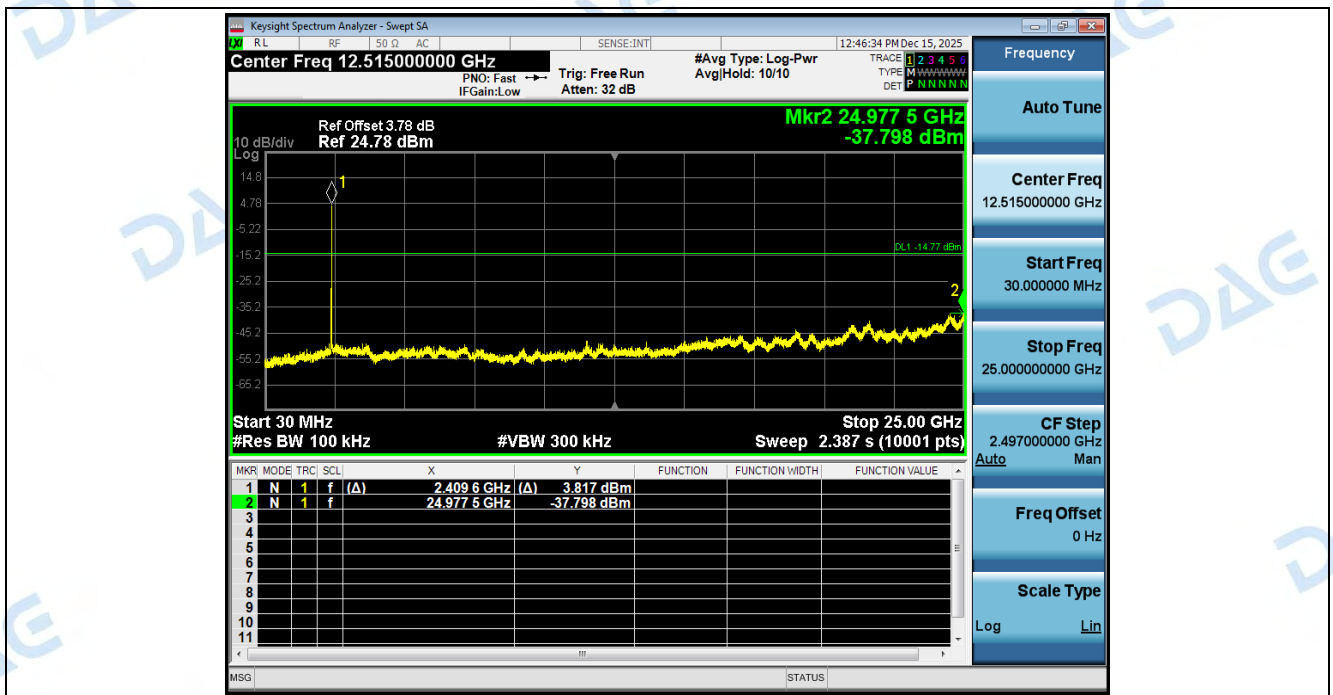
6. Spurious Emission

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	24977.527	5.233	-37.798	-14.767	Pass
NVNT	ANT1	802.11b	2437.00	24470.636	4.632	-37.519	-15.368	Pass
NVNT	ANT1	802.11b	2462.00	24985.018	5.072	-37.804	-14.928	Pass
NVNT	ANT1	802.11g	2412.00	24490.612	-2.664	-51.139	-22.664	Pass
NVNT	ANT1	802.11g	2437.00	24980.024	-3.252	-45.308	-23.252	Pass
NVNT	ANT1	802.11g	2462.00	24987.515	-2.970	-46.151	-22.970	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24985.018	-2.802	-46.241	-22.802	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24995.006	-3.464	-48.145	-23.464	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24960.048	-2.829	-51.456	-22.829	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24990.012	-6.140	-49.642	-26.140	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24970.036	-6.305	-50.135	-26.305	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24972.533	-6.985	-49.080	-26.985	Pass

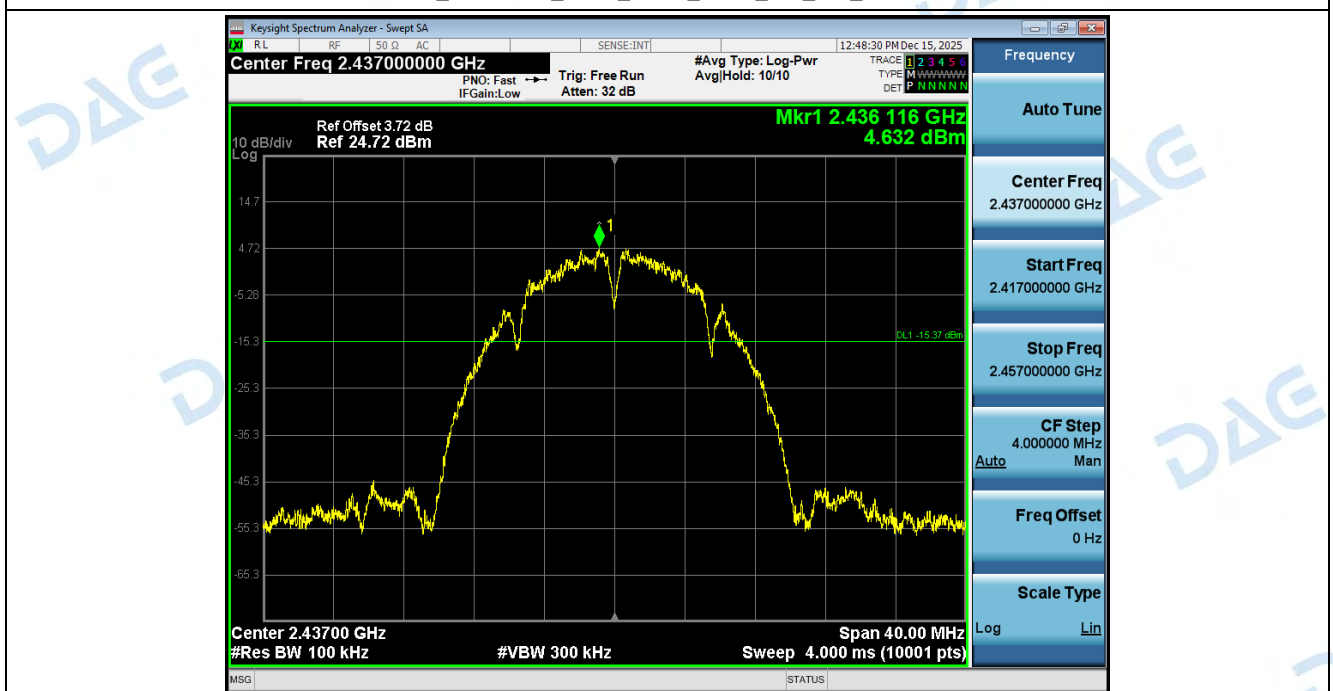
1_Reference_Level_NVNT_ANT1_802_11b_2412



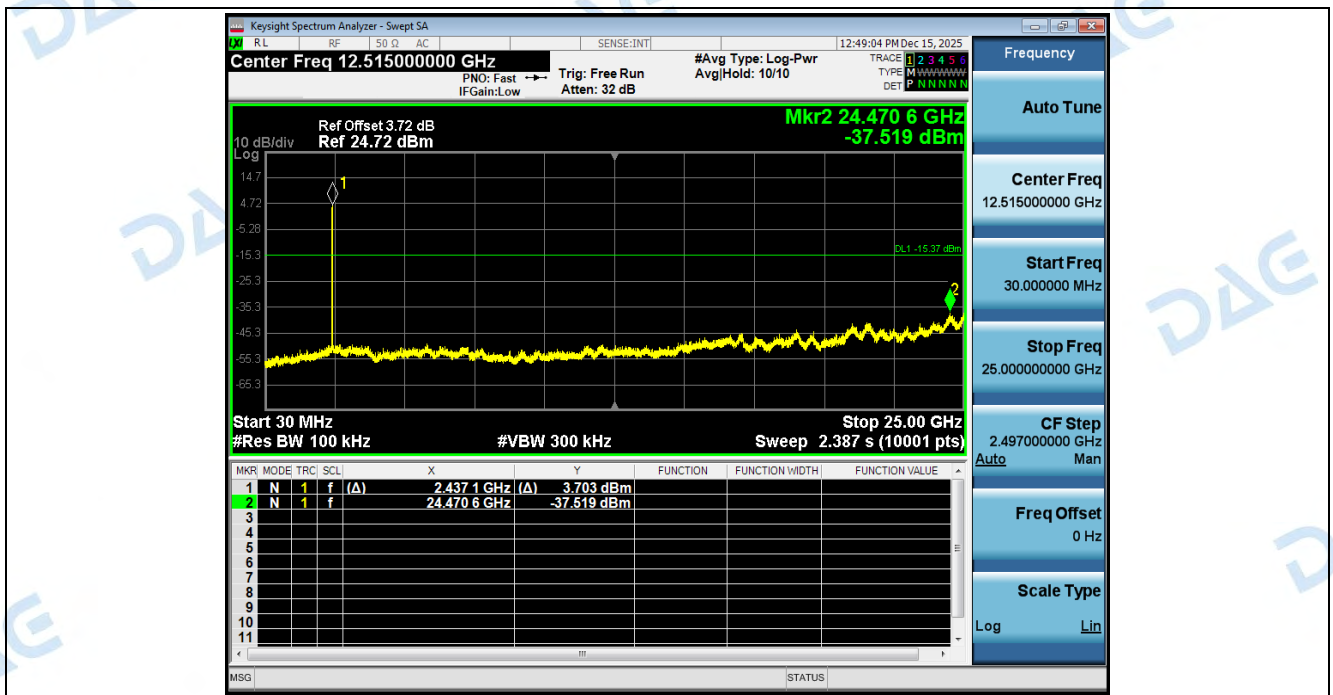
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



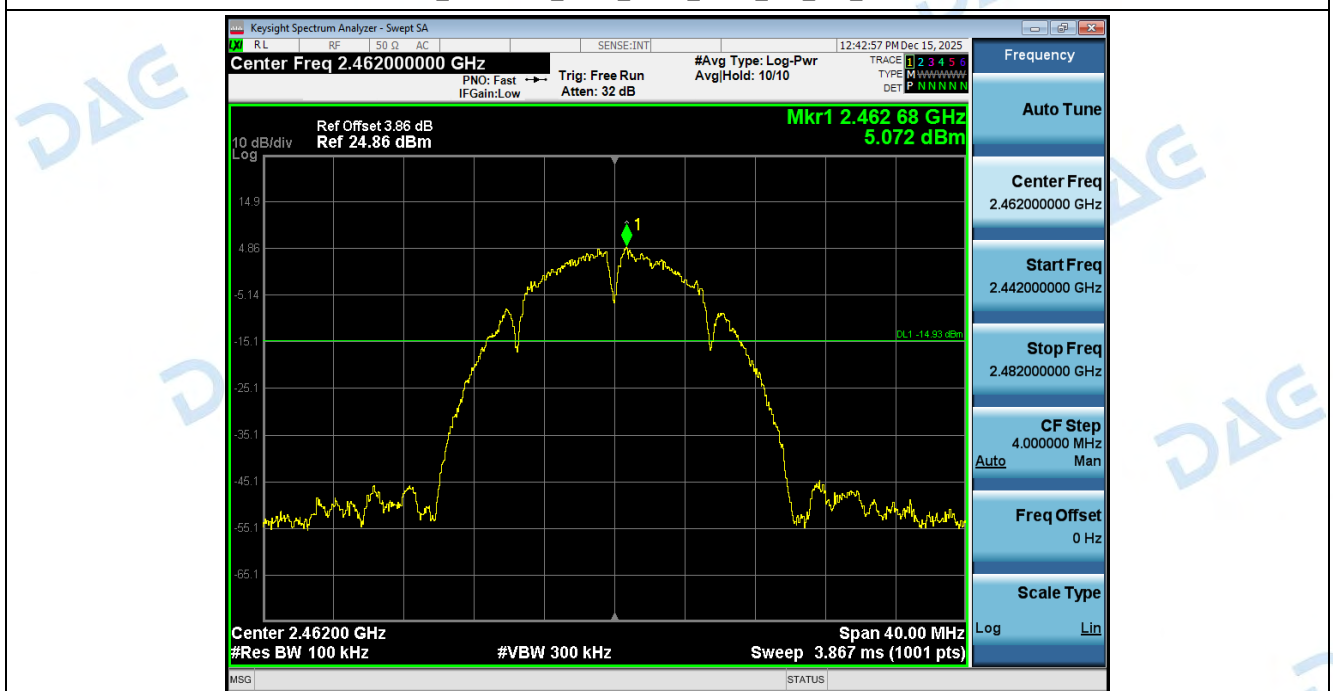
1 Reference_Level_NVNT_ANT1_802_11b_2437



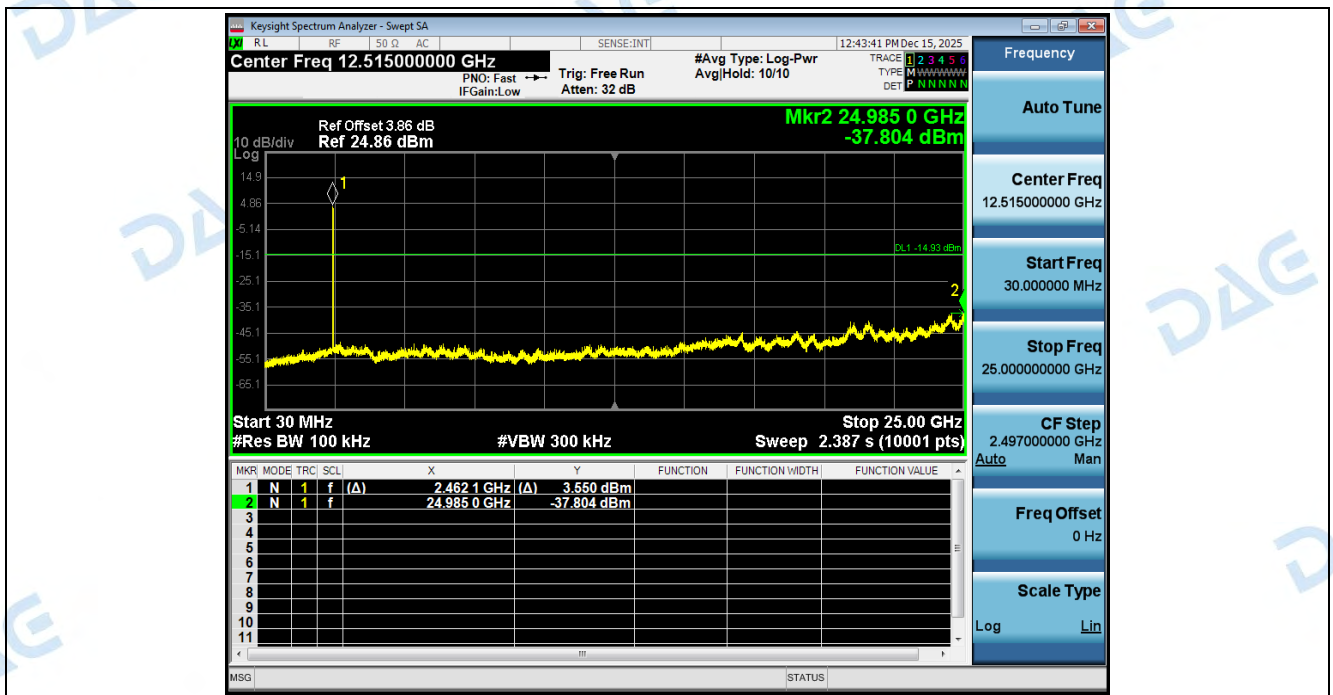
2 Spurious Emission_NVNT_ANT1_802_11b_2437



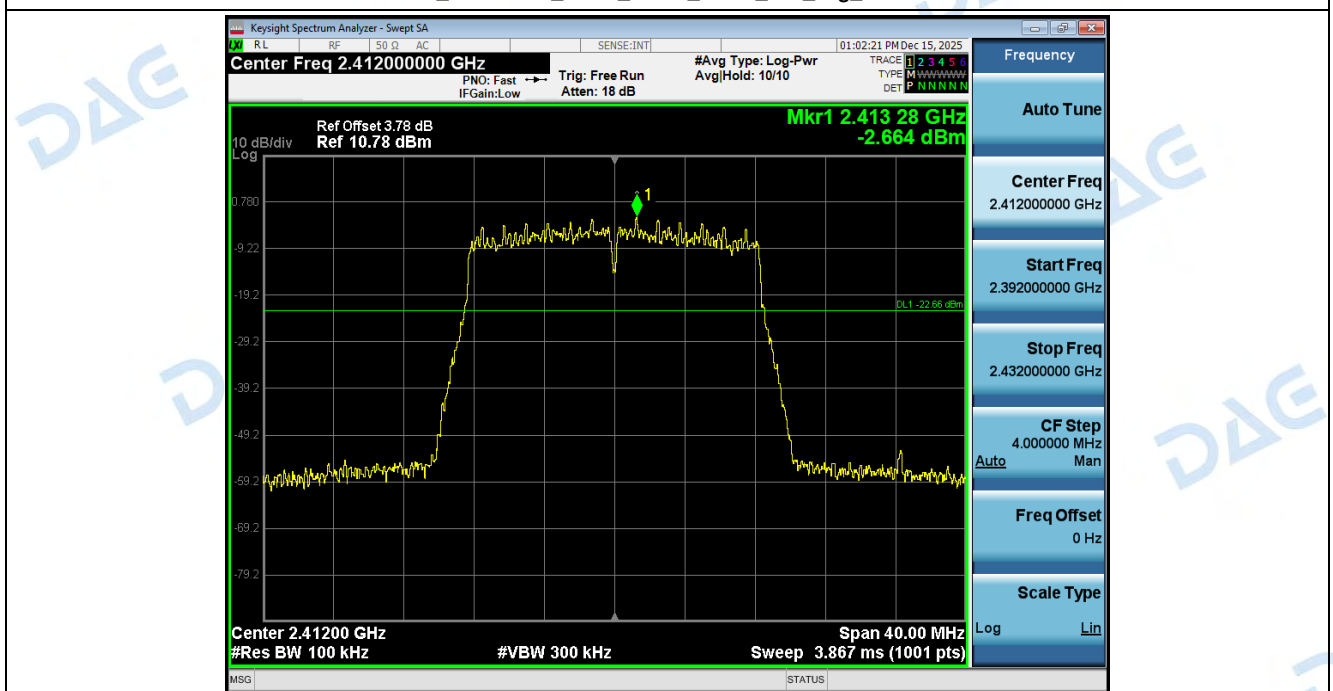
1 Reference_Level_NVNT_ANT1_802_11b_2462



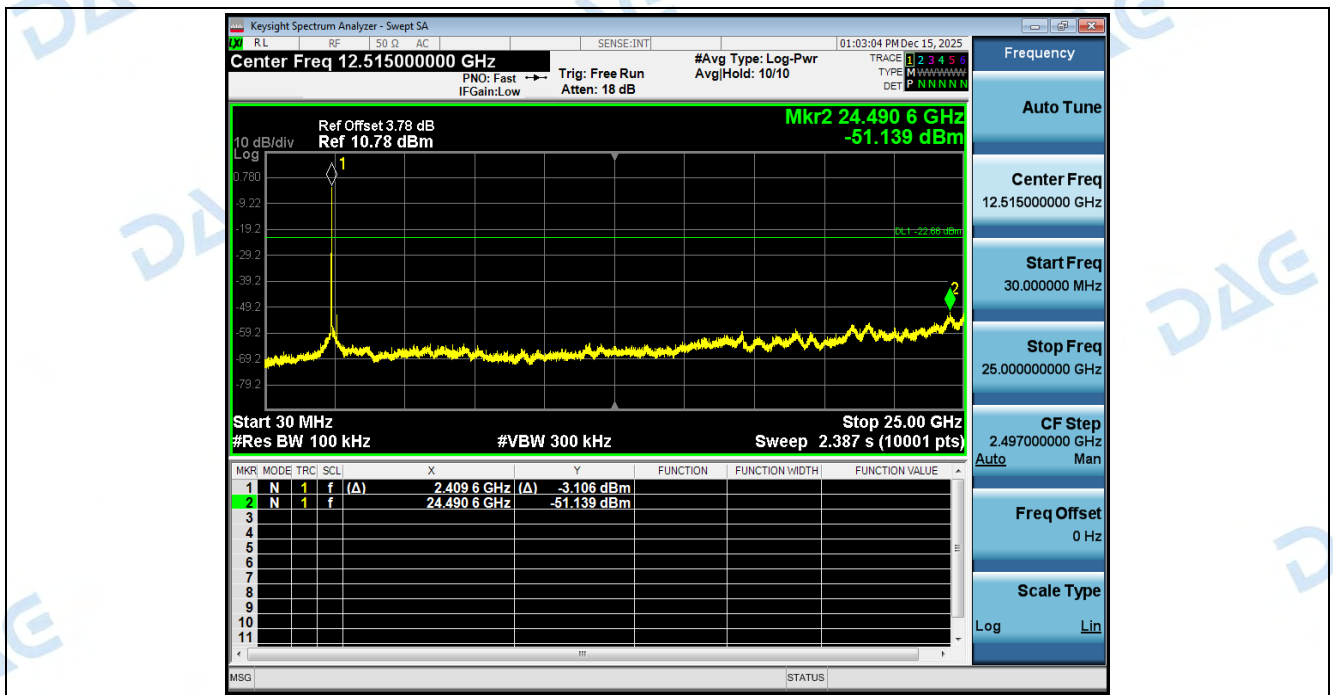
2 Spurious Emission_NVNT_ANT1_802_11b_2462



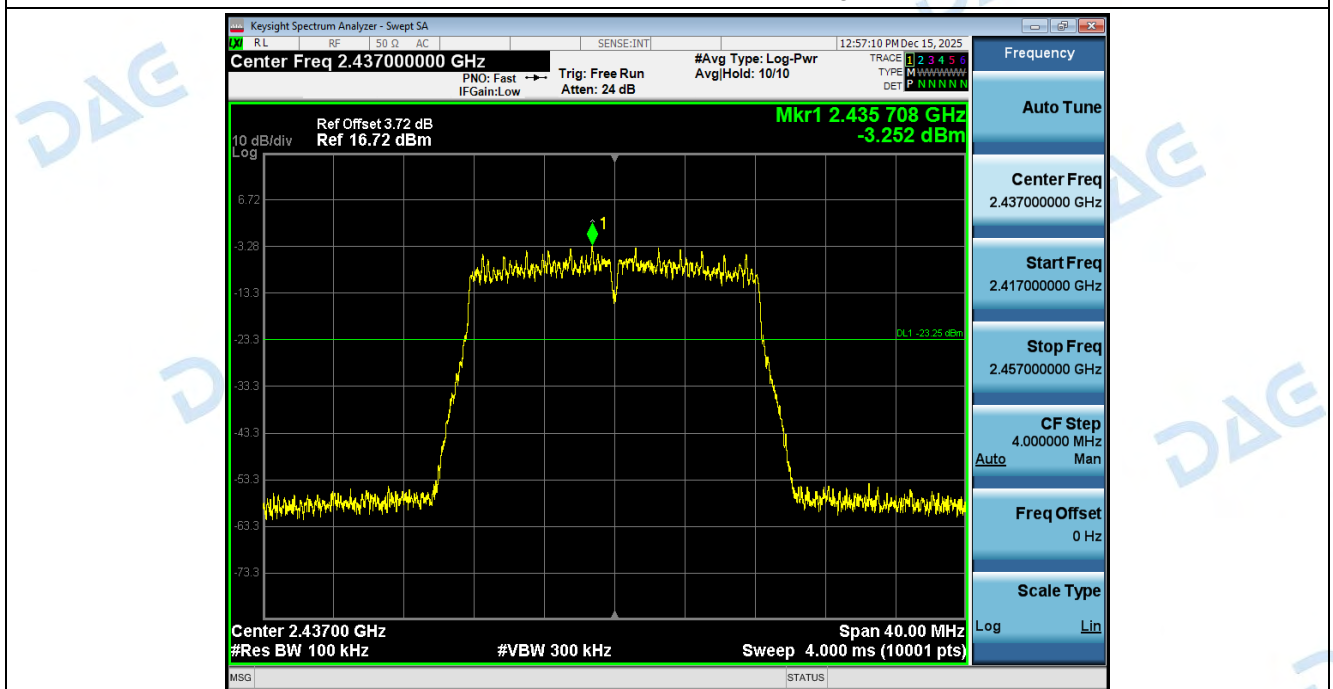
1 Reference_Level_NVNT_ANT1_802_11g_2412



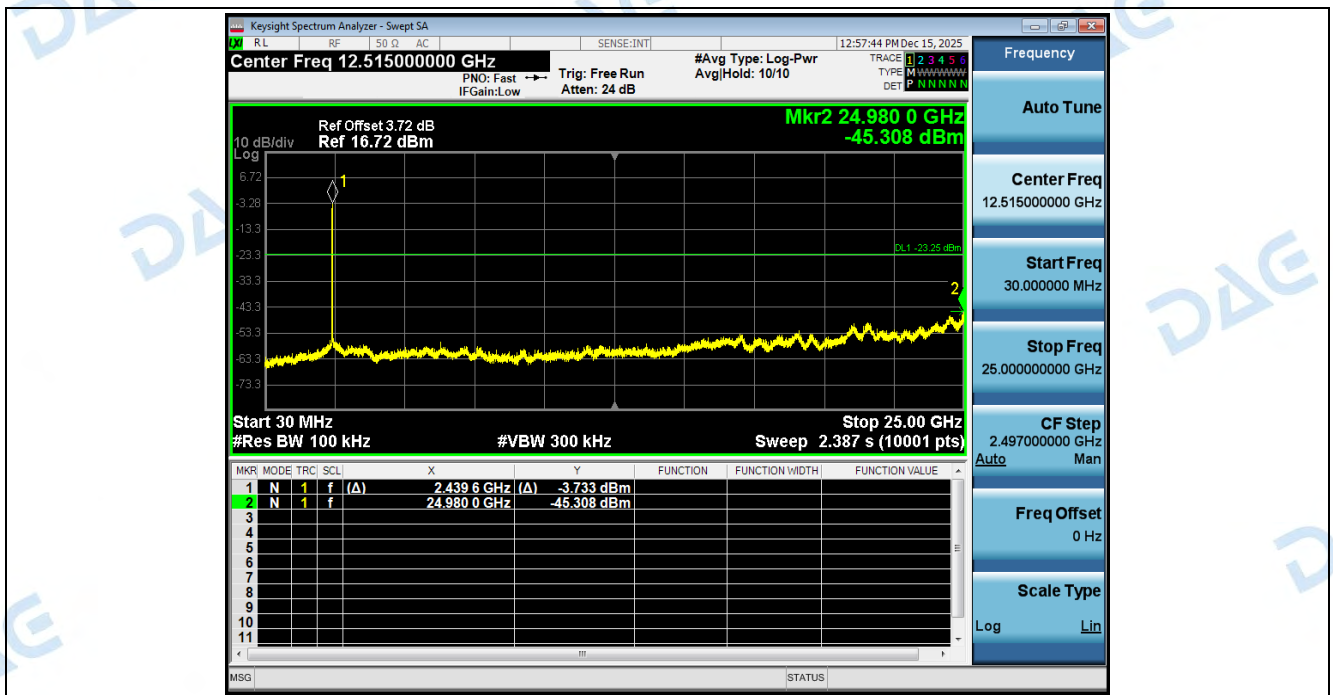
2 Spurious_Emission_NVNT_ANT1_802_11g_2412



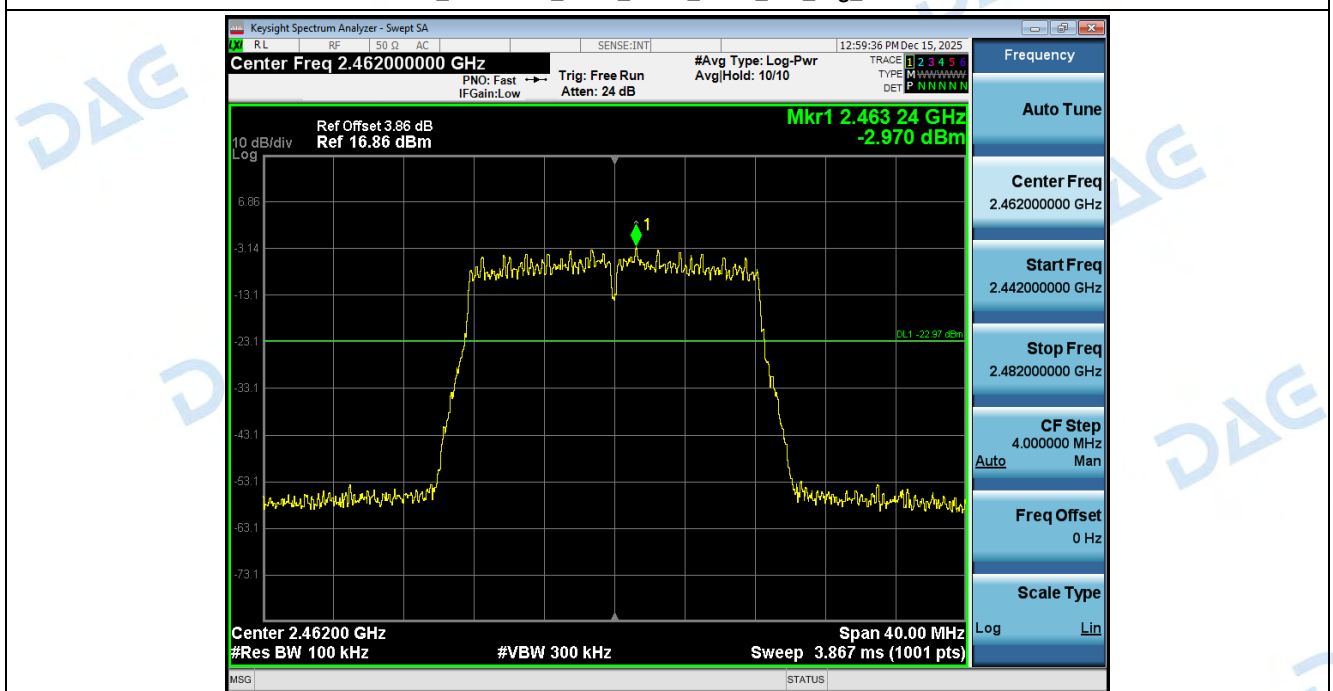
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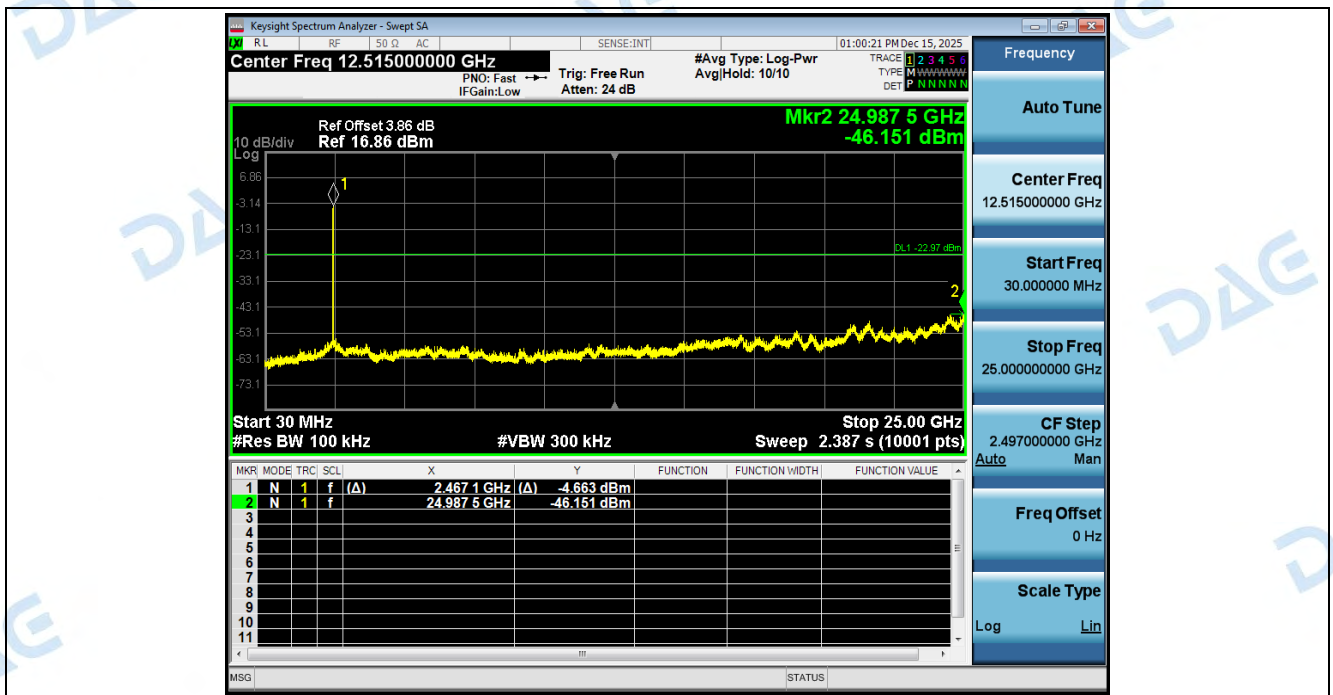
2 Spurious Emission_NVNT_ANT1_802_11g_2437



1 Reference_Level_NVNT_ANT1_802_11g_2462



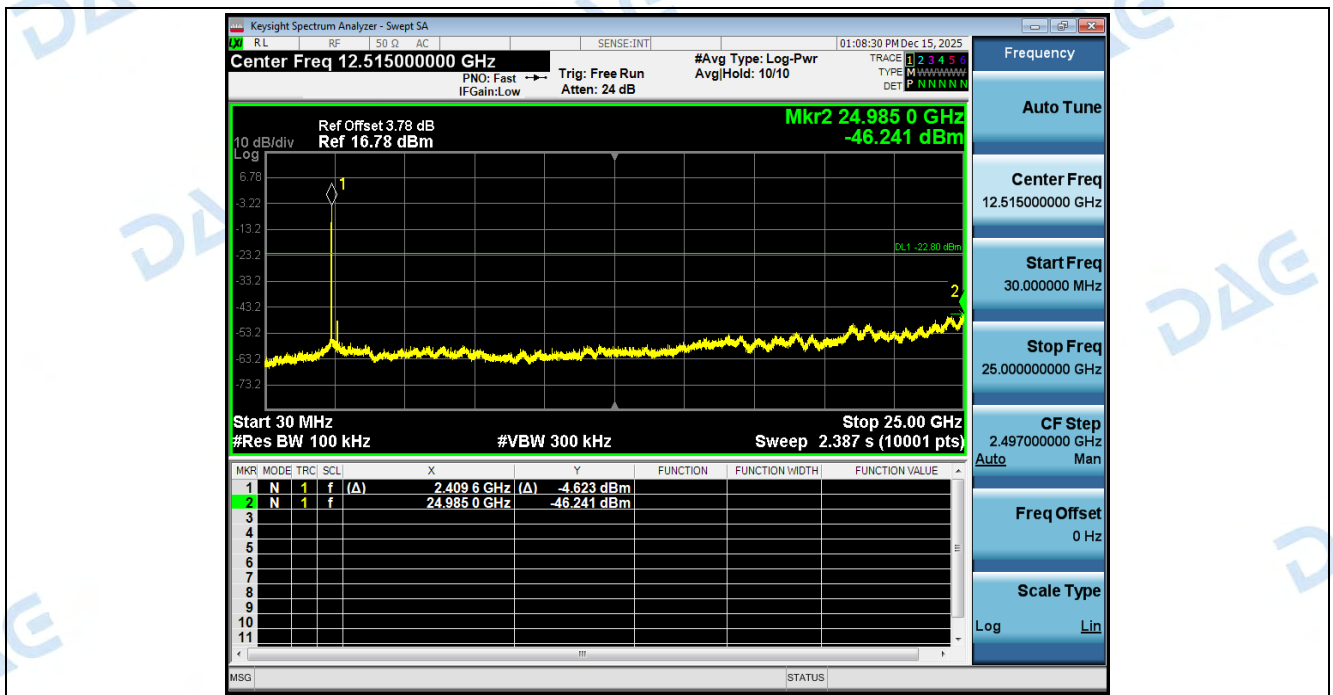
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



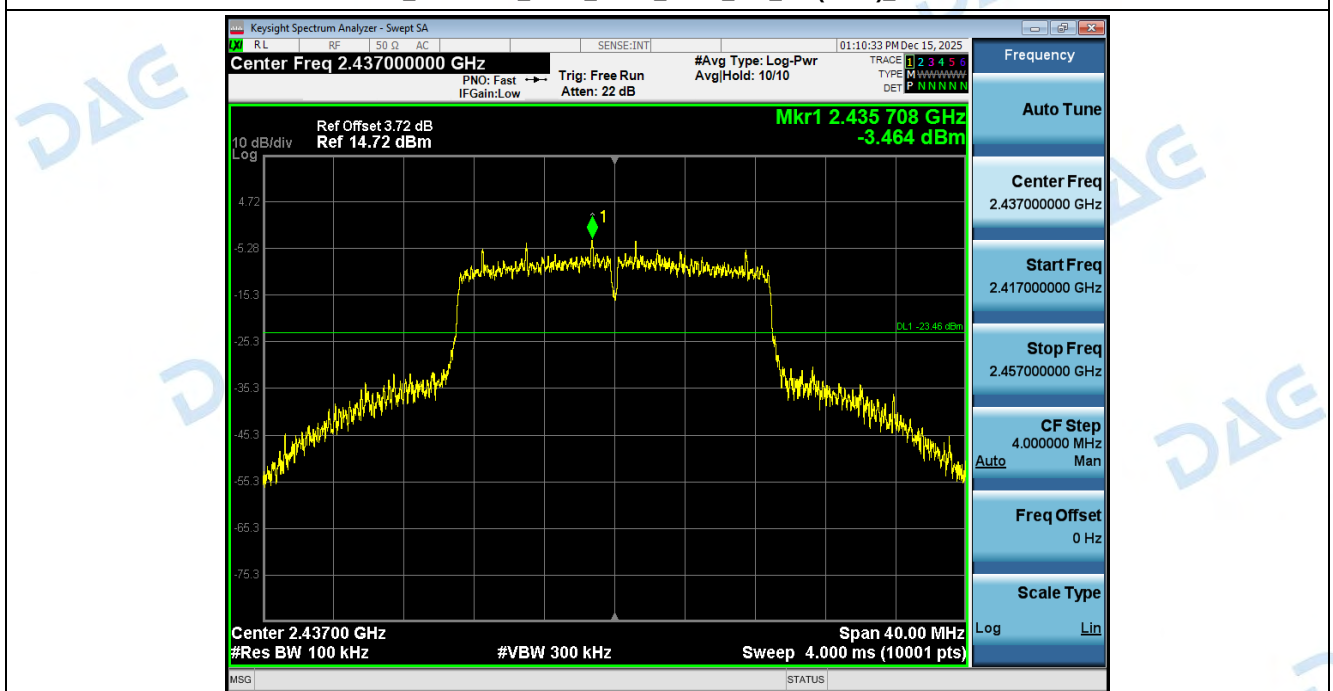
1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



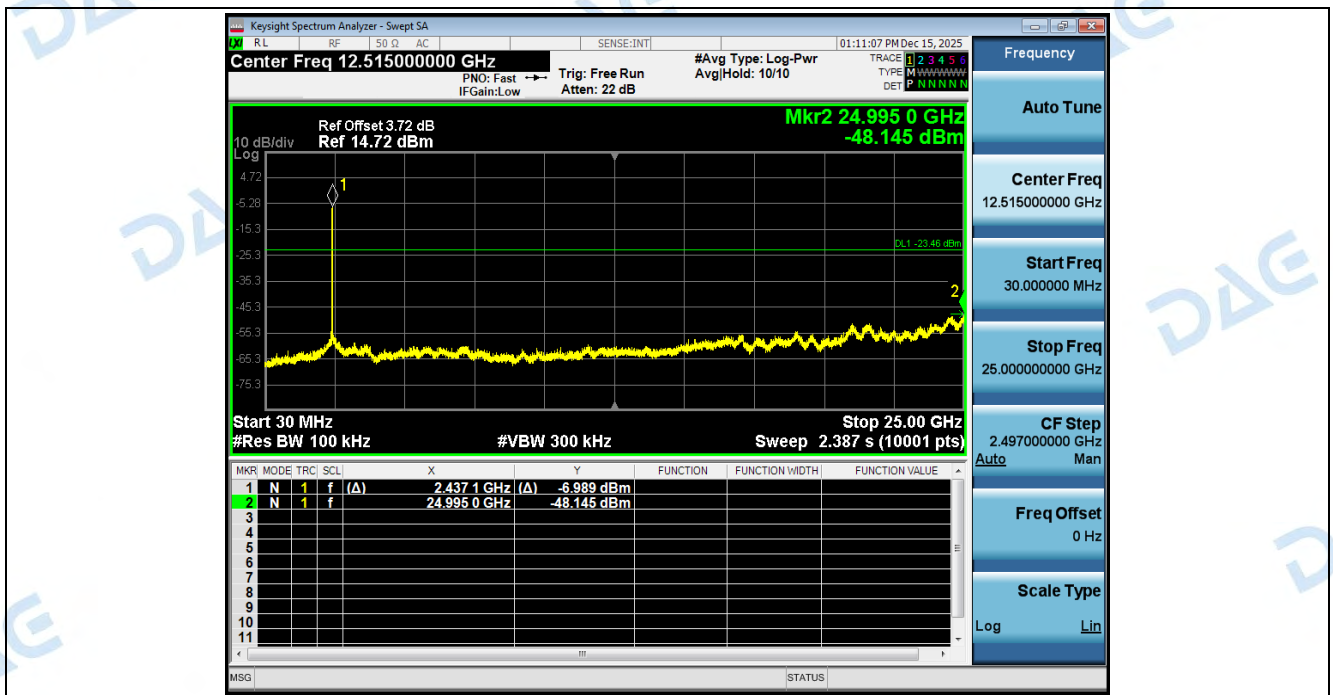
2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2412



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



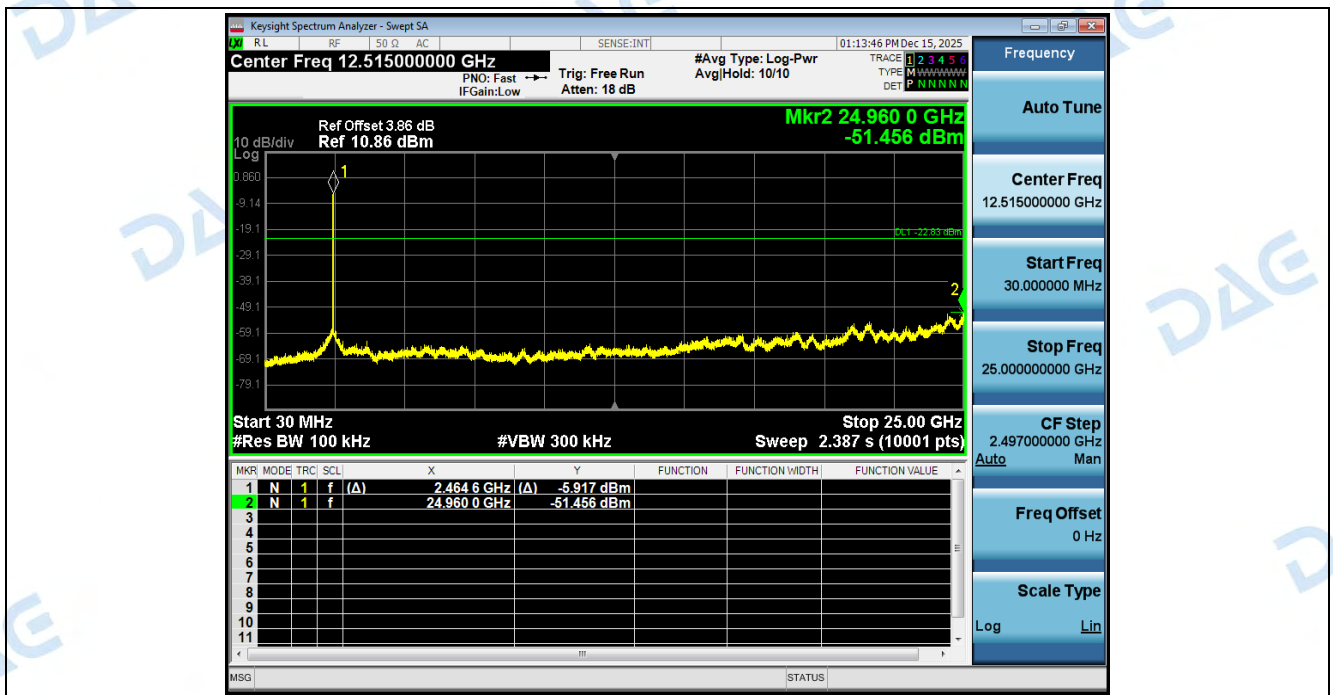
2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



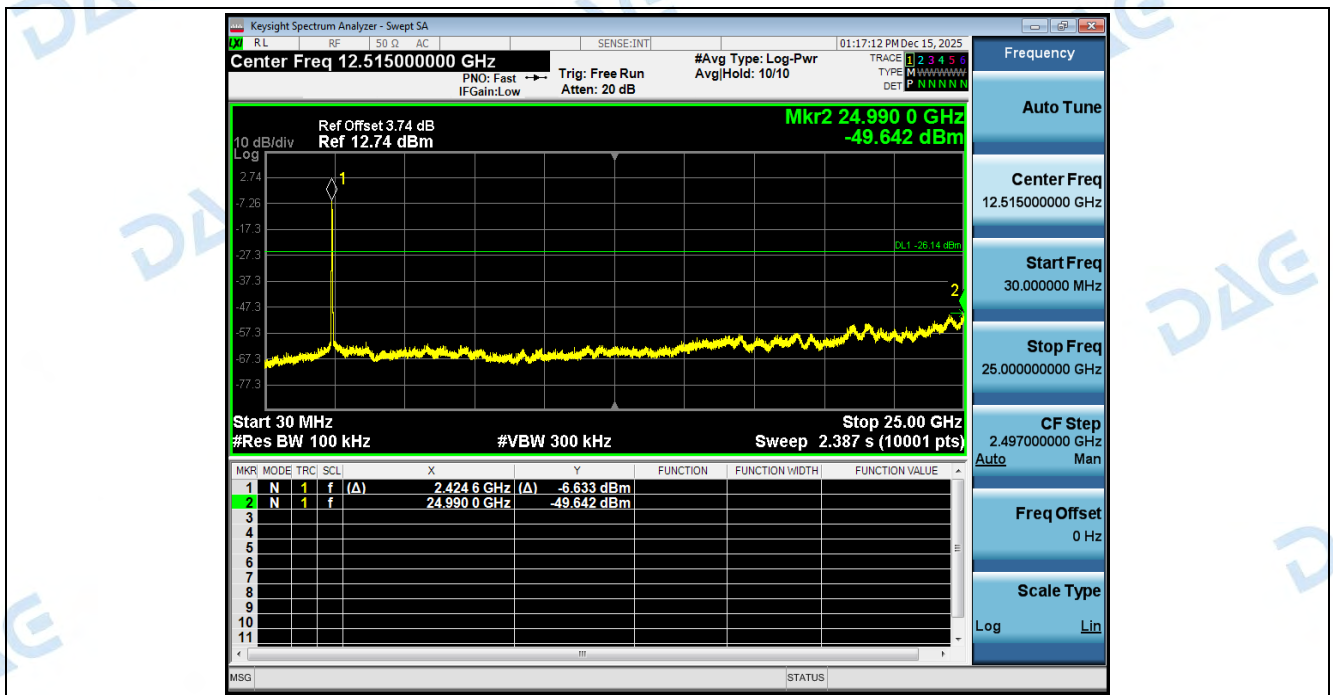
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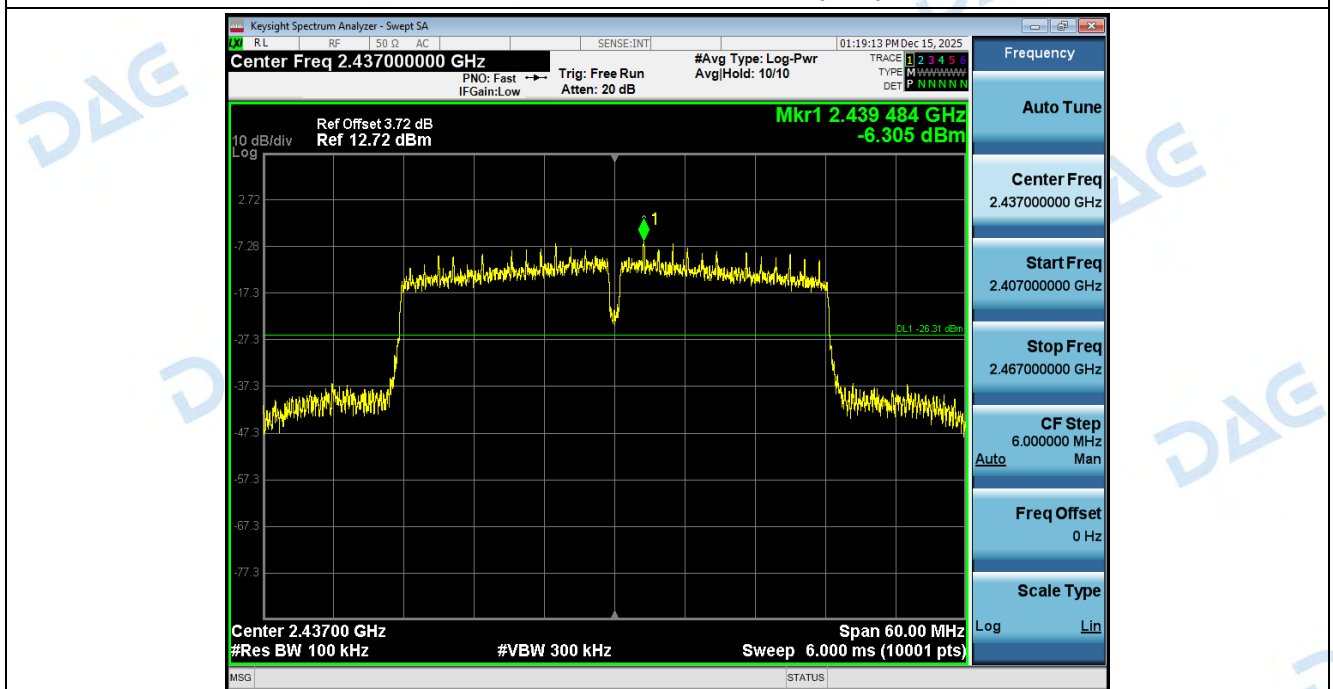
1 Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



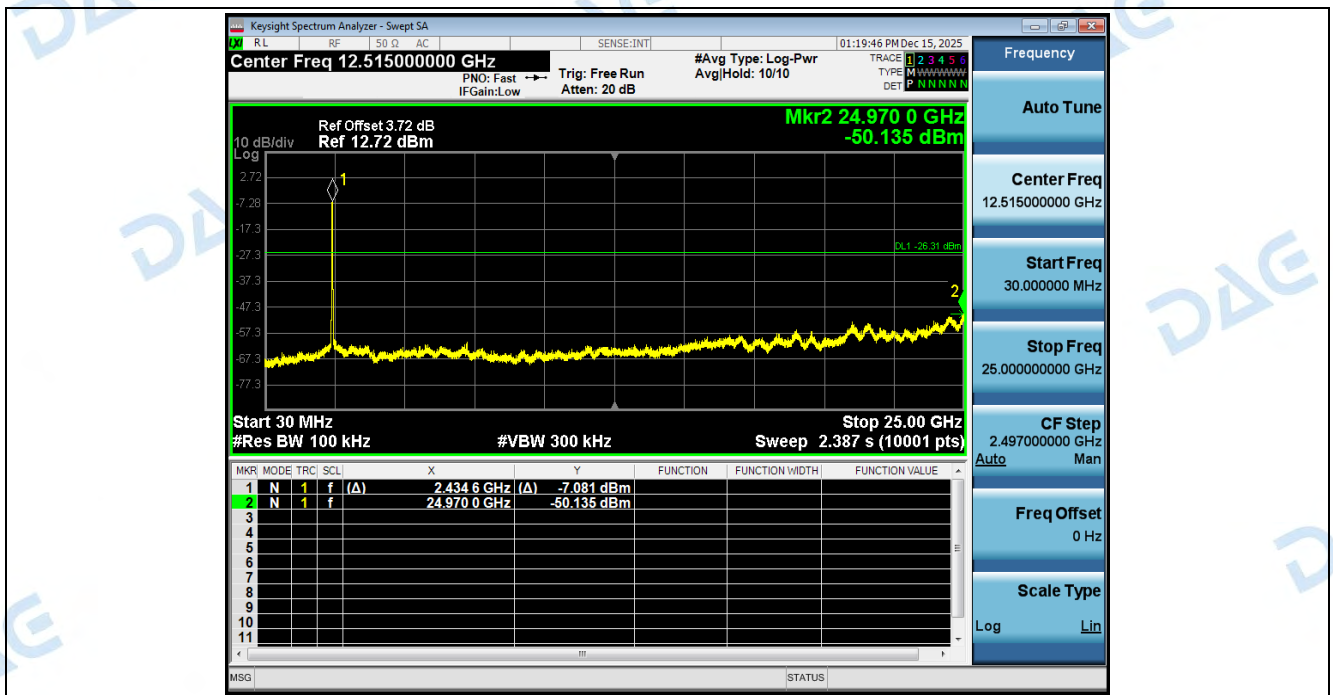
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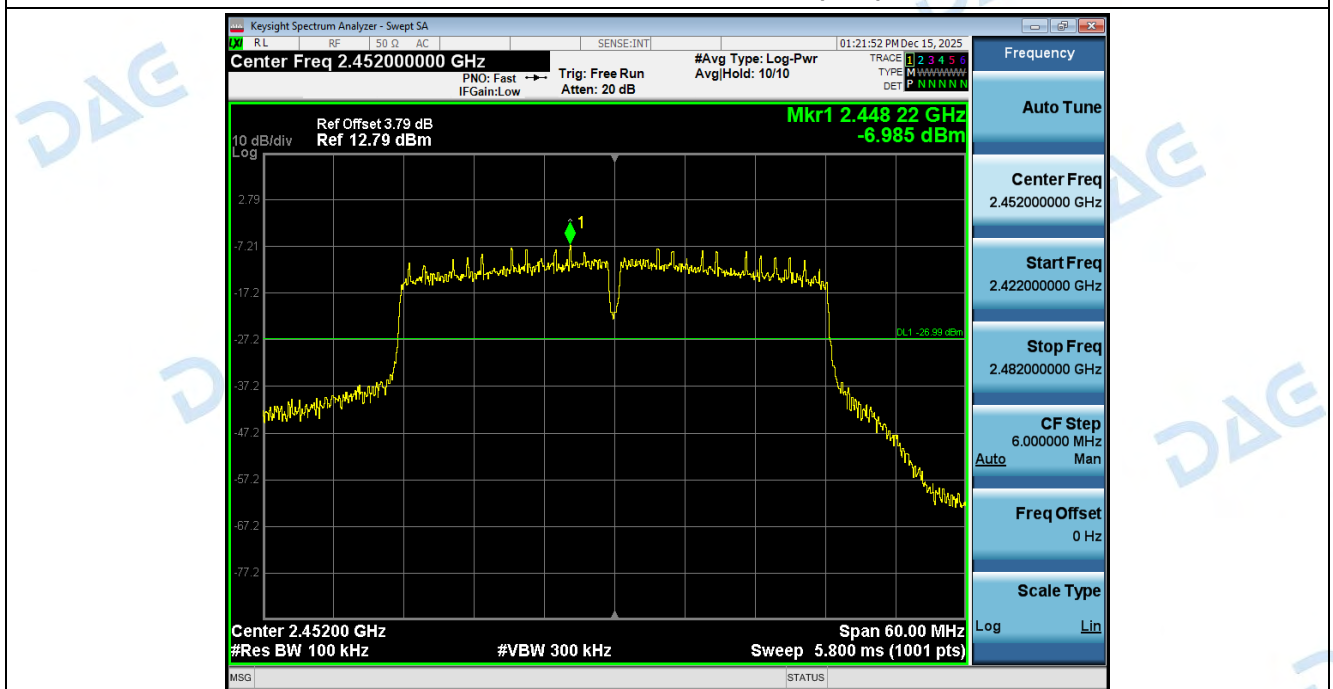
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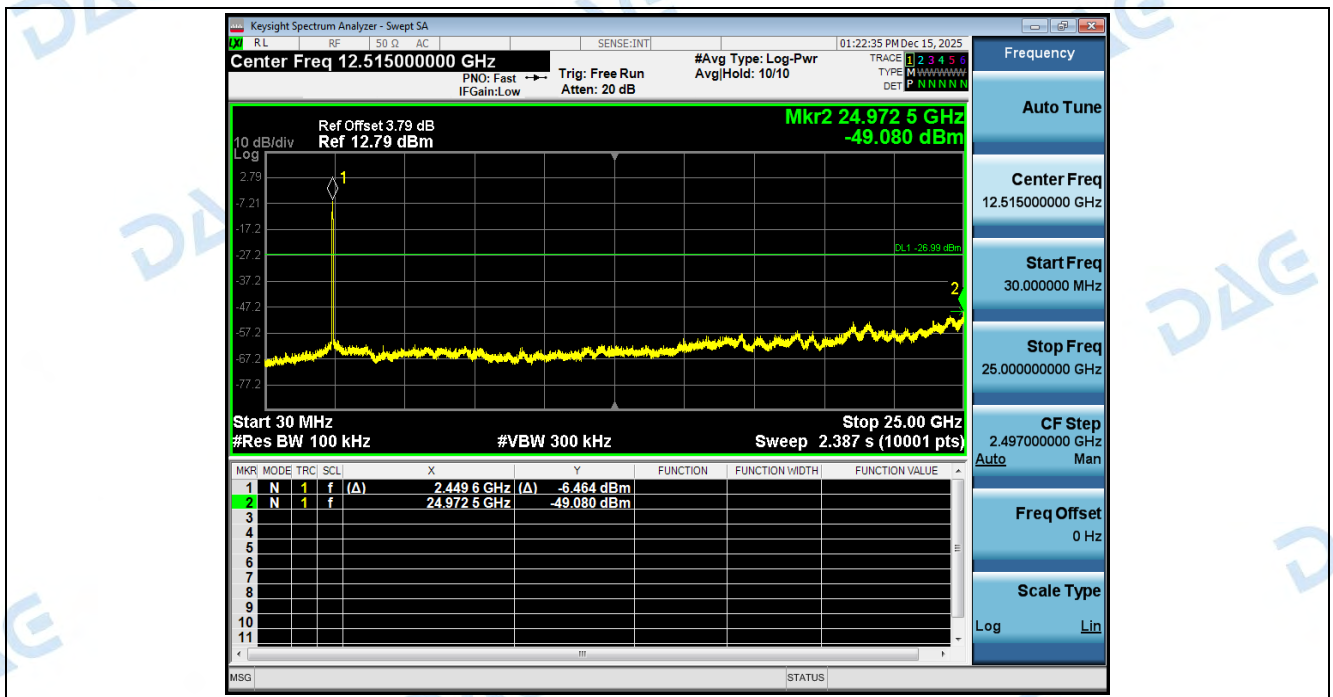
2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2452



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