



REPORT No.: SZ23100340W06

TEST REPORT

APPLICANT : Sonim Technologies, Inc.

PRODUCT NAME : Mobile Hotspot

MODEL NAME : H500V

BRAND NAME : Sonim

FCC ID : WYPH500V

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2023-11-01

TEST DATE : 2023-11-06 to 2024-01-04

ISSUE DATE : 2024-04-16



Edited by:

Zeng Xiaoying
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	5
1.2. Test Equipment List	6
1.3. Measurement Uncertainty	8
1.4. Testing Laboratory	8
2. General Description	9
2.1. Information of Applicant and Manufacturer	9
2.2. Information of EUT	9
2.3. Channel List of EUT	11
2.4. Test Configuration of EUT	12
2.5. Test Conditions	13
2.6. Test Setup Layout Diagram	14
3. Test Results	17
3.1. Antenna Requirement	17
3.2. Duty Cycle of Test Signal	18
3.3. Maximum Peak and Average Conducted Output Power	19
3.4. 6 dB Bandwidth	20
3.5. Conducted Spurious Emissions and Band Edge	21
3.6. Power Spectral Density	22
3.7. Conducted Emission	23
3.8. Restricted Frequency Bands	24
3.9. Radiated Emission	25
Annex A Test Data and Result	27



REPORT No.: SZ23100340W06

Change History		
Version	Date	Reason for change
1.0	2024-04-16	First edition

1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS _{Note1}	No deviation
2	N/A	Duty Cycle of Test Signal	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
5	15.247(a)	Bandwidth	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
7	15.247(e)	Power Spectral Density	Nov. 11&13, 2023	Zhong Yanshan	PASS _{Note1}	No deviation
8	15.207	Conducted Emission	Dec. 01, 2023	Wang Deyong	PASS _{Note1}	No deviation
9	15.247(d)	Restricted Frequency Bands	Dec. 09&15, 2023	Gao Jianrou	PASS _{Note1}	No deviation
10	15.209, 15.247(d)	Radiated Emission	Dec. 09&19, 2023	Gao Jianrou	PASS _{Note1}	No deviation

Note 1: The test results of these test items in this report refer to the test report (Report No.: SZ23100334W07).

Note 2: All test items are tested and evaluated in the worse mode with reference to output power results.

Note 3: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method



determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2023.02.27	2024.02.26
Power Sensor	MY54180008	U2021XA	Agilent	2023.10.17	2024.10.16
Attenuator	MTJ6004-20	VAT-10+	MTJ Cooperation	N/A	N/A
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2023.02.09	2024.02.08
LISN	8127449	NSLK 8127	Schwarzbeck	2023.02.21	2024.02.20
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2023.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR	Morlab	V1.2
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2022.07.14	2025.07.13
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.26	2024.06.27
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.26	2024.06.27
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2023.07.04	2024.07.03
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Sonim Technologies, Inc.
Applicant Address	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer	Sonim Technologies, Inc.
Manufacturer Address	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

2.2. Information of EUT

Product Name:	Mobile Hotspot	
Sample No.:	1#	
Hardware Version:	V1.0	
Software Version:	H50.0-01-5.4.0-15.08.00	
Modulation Technology:	DSSS, OFDM, OFDMA	
Modulation Type:	Refer to section 2.3	
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ax (HEW20), 802.11ax (HEW40)	
Operating Frequency Range:	2412MHz–2472MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	ANT 1: 0.85dBi; ANT 2: 1.39dBi	
Directional Gain:	4.13dBi ^{Note 2}	
Accessory Information:	Battery	
	Brand Name:	sonim
	Model No.:	BAT-06000-01S
	Serial No.:	N/A
	Rated Capacity:	6000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Guangdong Fenghua New Energy Co., Ltd.



Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Output:	5V $\pm$ 3A or 9V $\pm$ 2A or 12V $\pm$ 1.5A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	HUIZHOU PUAN ELECTRONICS CO.,LTD

Note 1: This is a variant report of original report (Report No.: SZ23100334W07, FCC ID: WYPH500B), based on the similarity between before, only changed the FCC ID, model name, and software version, the others are the same. The changes do not affect the results in this report.

Note 2: The EUT supports a MIMO function. Physically, the EUT provides two completed transmitters and two receivers for 802.11n and 802.11ax modulation mode.

Modulation Mode:	TX Function
802.11b/g	1TX
802.11n	2TX
802.11ax	2TX

Note 3: According to KDB 662911 D01, the directional gain = $10\log[(10^{G1/20} + 10^{G2/20})^2/2] = 4.13\text{dBi}$.

Note 4: All radiation test items for 802.11n modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result(ANT 1) in this report.

Note 5: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2.3.Channel List of EUT

Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		
Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
40MHz	3	2422	8	2447
	4	2427	9	2452
	5	2432	10	2457
	6	2437	11	2462
	7	2442		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20 (HT20)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ax	20/40 (HEW20/40)	OFDM/ OFDMA	BPSK	MSC0~MCS11	26/52/106/ 242
			QPSK		
			16QAM		
			64QAM		
			256QAM		
			1024QAM		

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

**2.4.2.802.11ax RU Allocation**

BW (MHz)	RU Size			User	RU Offset
	Full (Tone)	Partial			
		(Tone)	BW (MHz)		
20	242	26	2	9	@0/1/2/3/4/5/6/7/8
		52	4	4	@37/38/39/40
		106	8	2	@53/54
40	484	26	2	18	@0/1/2.....15/16/17
		52	4	8	@37/38/39/40/41/42/43/44
		106	8	4	@53/54/55/56
		242	20	2	@61/62

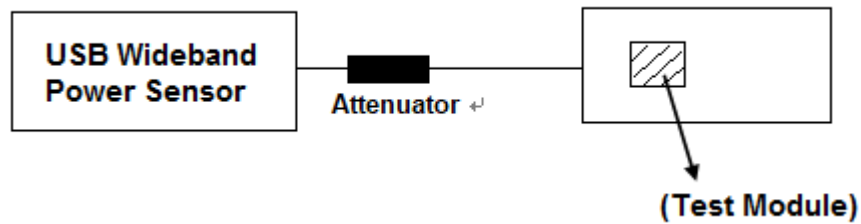
2.5. Test Conditions

Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

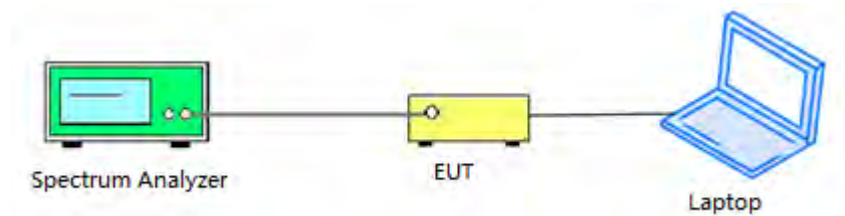
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

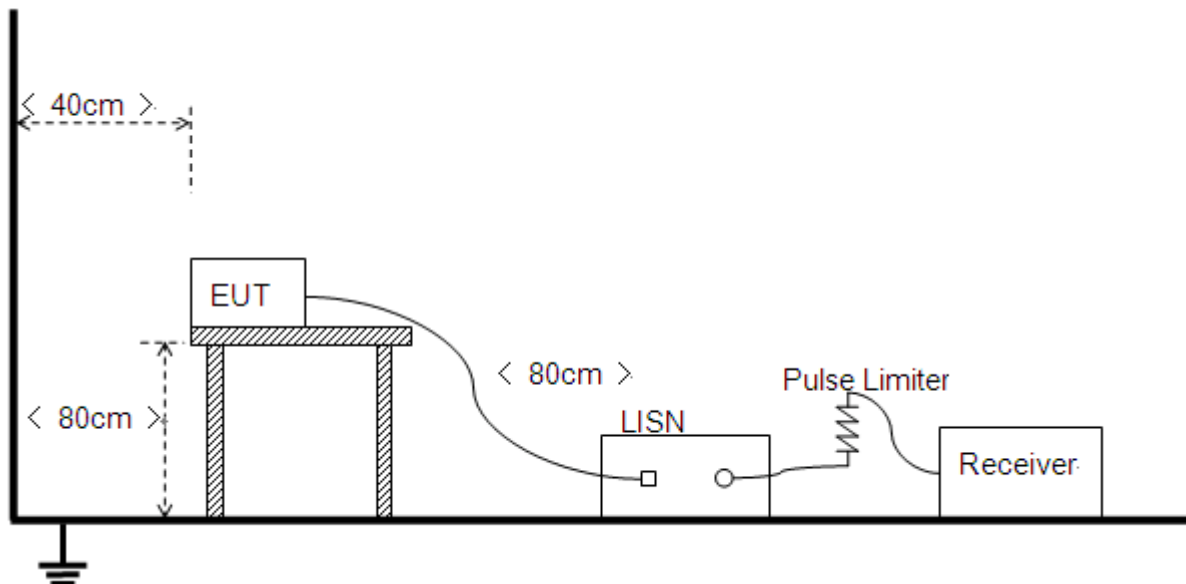
Power item



Other items

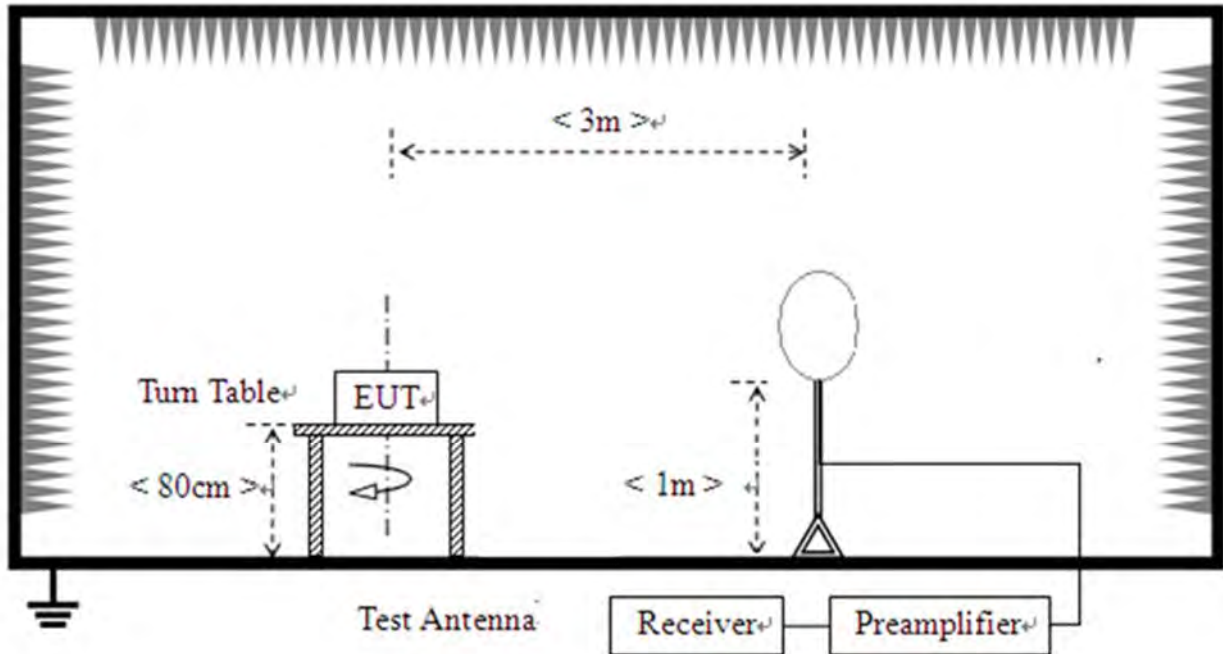


2.6.2. Conducted Emission Measurement

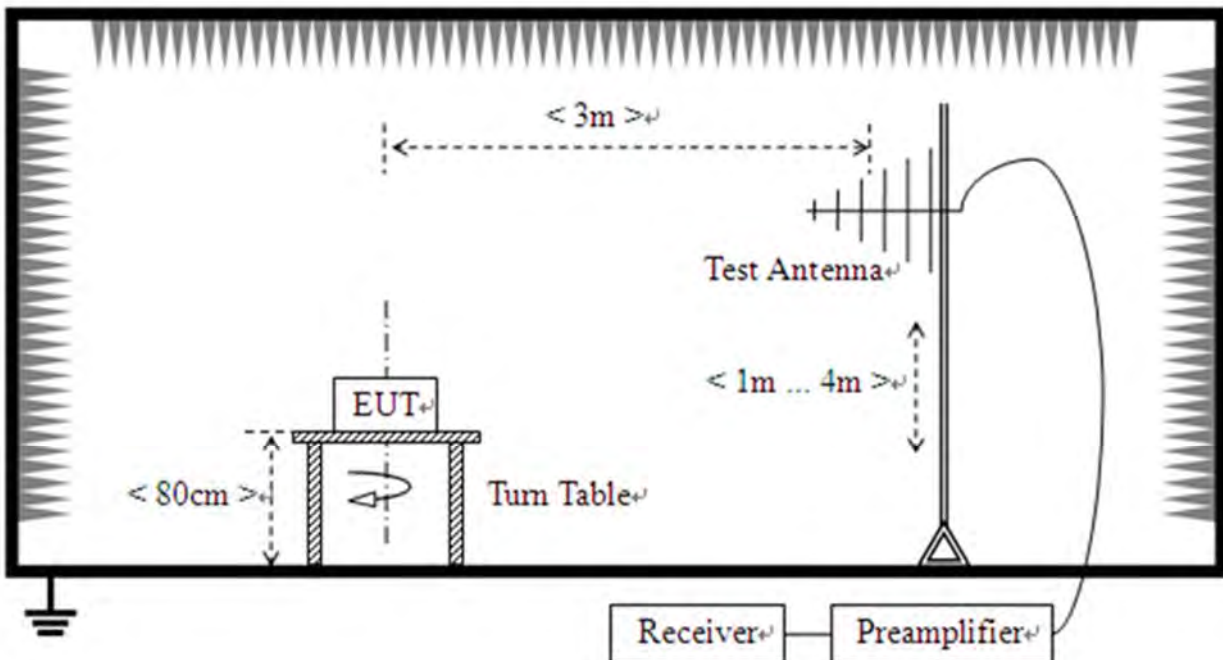


2.6.3.Radiation Measurement

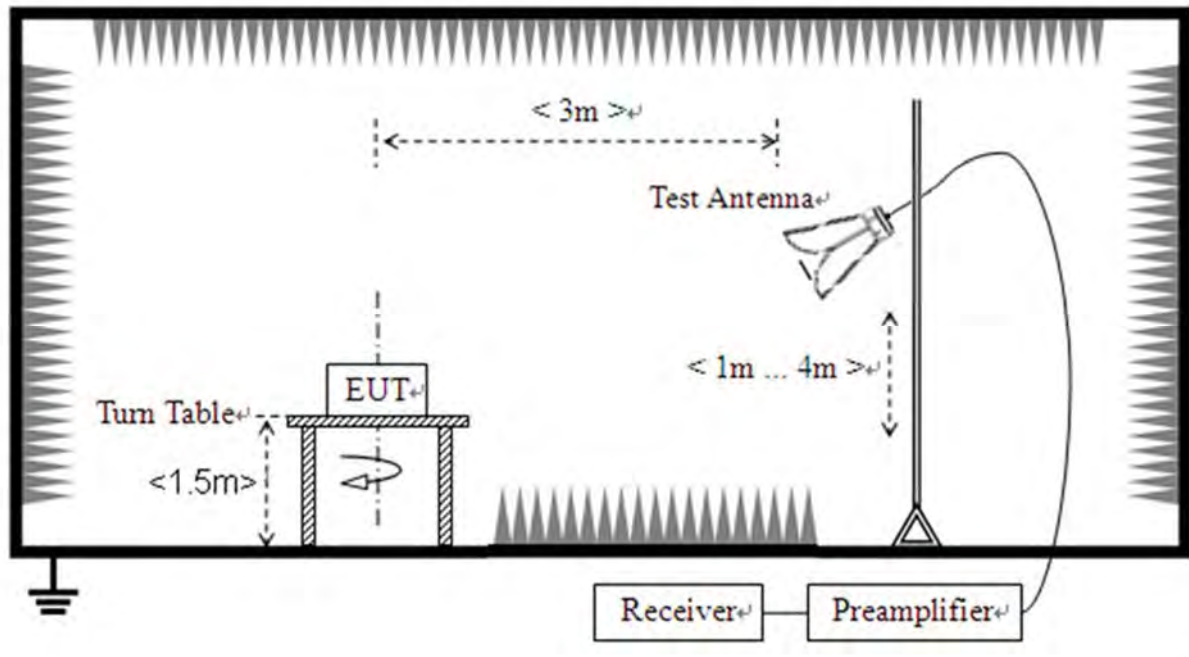
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2. Test Result

The EUT has a PIFA antenna coupled with the I-PEX connector. Please refer to the EUT internal photos.

3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak and Average Conducted Output Power

3.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum conducted output power of the intentional radiator shall not exceed 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in above of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2. Test Procedures

The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 and A.3 in this report.



3.4.6 dB Bandwidth

3.4.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

3.4.1.Test Procedures

KDB 558074 Section 8.2 was used in order to prove compliance.

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.4 in this report.



3.5. Conducted Spurious Emissions and Band Edge

3.5.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

3.5.2. Test Procedures

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

Refer to Annex A.5 and A.6 in this report.



3.6. Power Spectral Density

3.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm 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.

3.6.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 30kHz
- d) Set VBW to 100kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level and recorded as PD
- j) Use below formula to calculate the Conducted PSD value that at specified RBW:

Conducted PSD = PD - 10lg(30k/3k)

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.7 in this report.

3.7. Conducted Emission

3.7.1. Requirement

According to FCC section 15.207, 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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.7.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.8 in this report.



3.8. Restricted Frequency Bands

3.8.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. 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).

3.8.2. Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.8.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4. Test Result

Refer to Annex A.9 in this report.



3.9. Radiated Emission

3.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
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

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.9.2. Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.9.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4. Test Result

Refer to Annex A.10 in this report.



Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.17	0.04	0.7
NVNT	b	2442	Ant1	99.72	0.01	0.7
NVNT	b	2472	Ant1	99.58	0.02	0.7
NVNT	b	2412	Ant2	99.16	0.04	0.7
NVNT	b	2442	Ant2	99.16	0.04	0.7
NVNT	b	2472	Ant2	99.17	0.04	0.7
NVNT	g	2412	Ant1	99.34	0.03	0.48
NVNT	g	2442	Ant1	99.24	0.03	0.48
NVNT	g	2472	Ant1	99.24	0.03	0.48
NVNT	g	2412	Ant2	99.24	0.03	0.48
NVNT	g	2442	Ant2	99.24	0.03	0.48
NVNT	g	2472	Ant2	99.24	0.03	0.48
NVNT	n20	2412	Ant1	99.71	0.01	0.18
NVNT	n20	2442	Ant1	99.71	0.01	0.18
NVNT	n20	2472	Ant1	99.74	0.01	0.18
NVNT	n20	2412	Ant2	99.71	0.01	0.18
NVNT	n20	2442	Ant2	99.71	0.01	0.18
NVNT	n20	2472	Ant2	99.71	0.01	0.18
NVNT	n20	2412	Sum	99.74	0.01	0.18
NVNT	n20	2442	Sum	99.71	0.01	0.18
NVNT	n20	2472	Sum	99.22	0.03	0.19
NVNT	n40	2422	Ant1	99.24	0.03	0.19
NVNT	n40	2442	Ant1	99.24	0.03	0.19
NVNT	n40	2462	Ant1	99.2	0.03	0.19
NVNT	n40	2422	Ant2	99.2	0.03	0.19
NVNT	n40	2442	Ant2	99.24	0.03	0.19
NVNT	n40	2462	Ant2	99.2	0.03	0.19
NVNT	n40	2422	Sum	99.24	0.03	0.19
NVNT	n40	2442	Sum	99.24	0.03	0.19
NVNT	n40	2462	Sum	99.2	0.03	0.19
NVNT	ax20	2412	Ant1	99.71	0.01	0.18
NVNT	ax20	2442	Ant1	99.74	0.01	0.18



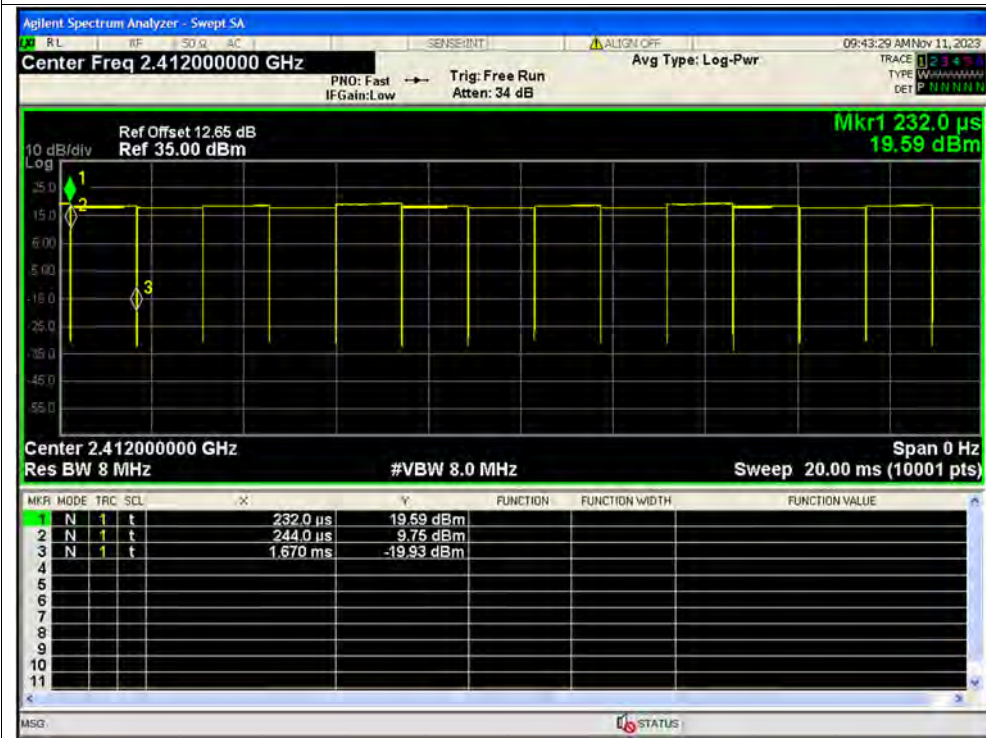
NVNT	ax20	2472	Ant1	99.71	0.01	0.18
NVNT	ax20	2412	Ant2	99.71	0.01	0.18
NVNT	ax20	2442	Ant2	99.71	0.01	0.18
NVNT	ax20	2472	Ant2	99.74	0.01	0.18
NVNT	ax20	2412	Sum	99.22	0.03	0.19
NVNT	ax20	2442	Sum	99.22	0.03	0.19
NVNT	ax20	2472	Sum	99.22	0.03	0.19
NVNT	ax40	2422	Ant1	98.99	0.04	0.24
NVNT	ax40	2442	Ant1	99.04	0.04	0.24
NVNT	ax40	2462	Ant1	98.99	0.04	0.24
NVNT	ax40	2422	Ant2	99.04	0.04	0.24
NVNT	ax40	2442	Ant2	98.99	0.04	0.24
NVNT	ax40	2462	Ant2	98.99	0.04	0.24
NVNT	ax40	2422	Sum	98.99	0.04	0.24
NVNT	ax40	2442	Sum	98.99	0.04	0.24
NVNT	ax40	2462	Sum	98.99	0.04	0.24
NVNT	ax20 26@0	2412	Ant1	99.61	0.02	0.2
NVNT	ax20 26@0	2412	Ant2	99.61	0.02	0.2
NVNT	ax20 26@0	2412	Sum	99.61	0.02	0.2
NVNT	ax20 26@4	2442	Ant1	99.61	0.02	0.2
NVNT	ax20 26@4	2442	Ant2	99.61	0.02	0.2
NVNT	ax20 26@4	2442	Sum	99.61	0.02	0.2
NVNT	ax20 26@8	2472	Ant1	99.61	0.02	0.2
NVNT	ax20 26@8	2472	Ant2	99.61	0.02	0.2
NVNT	ax20 26@8	2472	Sum	99.61	0.02	0.2
NVNT	ax20 52@37	2412	Ant1	99.61	0.02	0.2
NVNT	ax20 52@37	2412	Ant2	99.57	0.02	0.2
NVNT	ax20 52@37	2412	Sum	99.61	0.02	0.2
NVNT	ax20 52@38	2442	Ant1	99.57	0.02	0.2
NVNT	ax20 52@38	2442	Ant2	99.61	0.02	0.2
NVNT	ax20 52@38	2442	Sum	99.57	0.02	0.2
NVNT	ax20 52@40	2472	Ant1	99.57	0.02	0.2
NVNT	ax20 52@40	2472	Ant2	99.57	0.02	0.2
NVNT	ax20 52@40	2472	Sum	99.61	0.02	0.2
NVNT	ax20 106@53	2412	Ant1	99.54	0.02	0.21
NVNT	ax20 106@53	2412	Ant2	99.54	0.02	0.21
NVNT	ax20 106@53	2412	Sum	99.58	0.02	0.21
NVNT	ax20 106@54	2472	Ant1	99.58	0.02	0.21



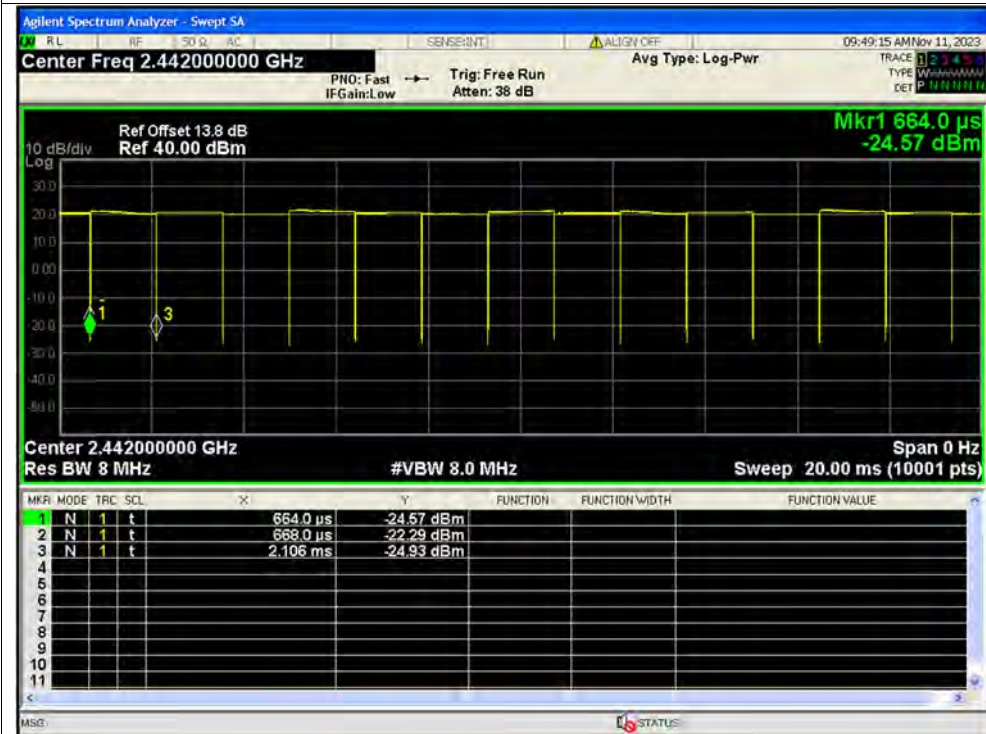
NVNT	ax20 106@54	2472	Ant2	99.58	0.02	0.21
NVNT	ax20 106@54	2472	Sum	99.58	0.02	0.21
NVNT	ax40 26@0	2422	Ant1	99.61	0.02	0.2
NVNT	ax40 26@0	2422	Ant2	99.61	0.02	0.2
NVNT	ax40 26@0	2422	Sum	99.61	0.02	0.2
NVNT	ax40 26@8	2442	Ant1	99.61	0.02	0.2
NVNT	ax40 26@8	2442	Ant2	99.61	0.02	0.2
NVNT	ax40 26@8	2442	Sum	99.61	0.02	0.2
NVNT	ax40 26@17	2462	Ant1	99.61	0.02	0.2
NVNT	ax40 26@17	2462	Ant2	99.61	0.02	0.2
NVNT	ax40 26@17	2462	Sum	99.61	0.02	0.2
NVNT	ax40 52@37	2422	Ant1	99.61	0.02	0.2
NVNT	ax40 52@37	2422	Ant2	99.61	0.02	0.2
NVNT	ax40 52@37	2422	Sum	99.61	0.02	0.2
NVNT	ax40 52@40	2442	Ant1	99.61	0.02	0.2
NVNT	ax40 52@40	2442	Ant2	99.61	0.02	0.2
NVNT	ax40 52@40	2442	Sum	99.61	0.02	0.2
NVNT	ax40 52@44	2462	Ant1	99.61	0.02	0.2
NVNT	ax40 52@44	2462	Ant2	99.61	0.02	0.2
NVNT	ax40 52@44	2462	Sum	99.61	0.02	0.2
NVNT	ax40 106@53	2422	Ant1	99.58	0.02	0.21
NVNT	ax40 106@53	2422	Ant2	99.54	0.02	0.21
NVNT	ax40 106@53	2422	Sum	99.58	0.02	0.21
NVNT	ax40 106@54	2442	Ant1	99.58	0.02	0.21
NVNT	ax40 106@54	2442	Ant2	99.58	0.02	0.21
NVNT	ax40 106@54	2442	Sum	99.58	0.02	0.21
NVNT	ax40 106@56	2462	Ant1	99.58	0.02	0.21
NVNT	ax40 106@56	2462	Ant2	99.58	0.02	0.21
NVNT	ax40 106@56	2462	Sum	99.54	0.02	0.21
NVNT	ax40 242@61	2422	Ant1	99.27	0.03	0.37
NVNT	ax40 242@61	2422	Ant2	99.27	0.03	0.37
NVNT	ax40 242@61	2422	Sum	99.27	0.03	0.37
NVNT	ax40 242@62	2462	Ant1	99.27	0.03	0.37
NVNT	ax40 242@62	2462	Ant2	99.27	0.03	0.37
NVNT	ax40 242@62	2462	Sum	99.27	0.03	0.37

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2442MHz Ant1

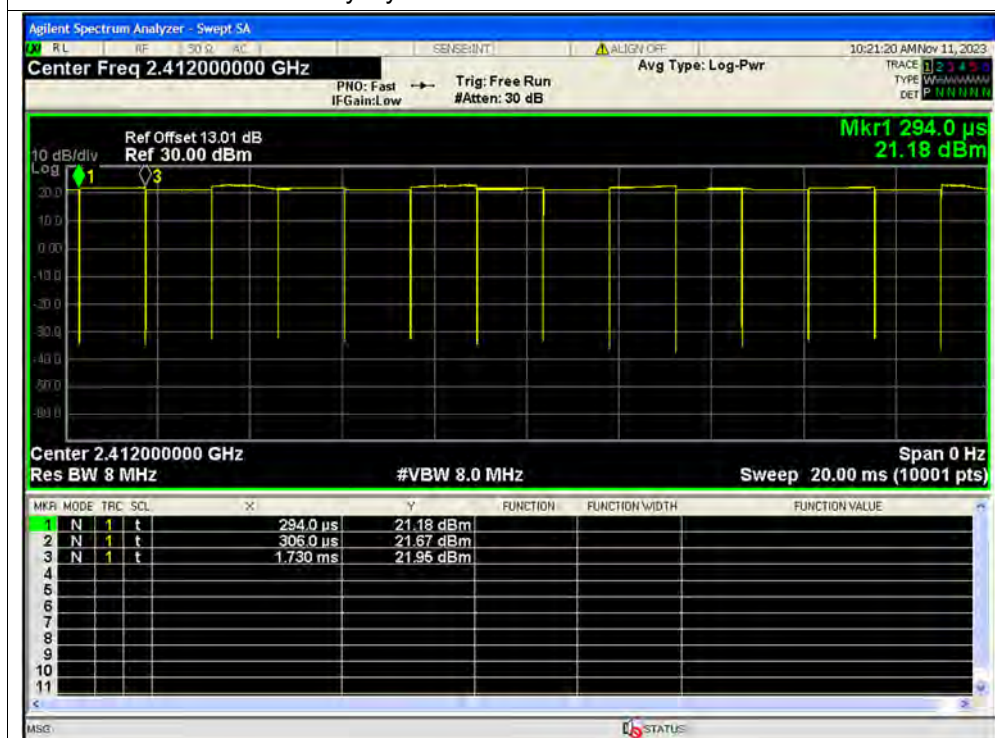




Duty Cycle NVNT b 2472MHz Ant1

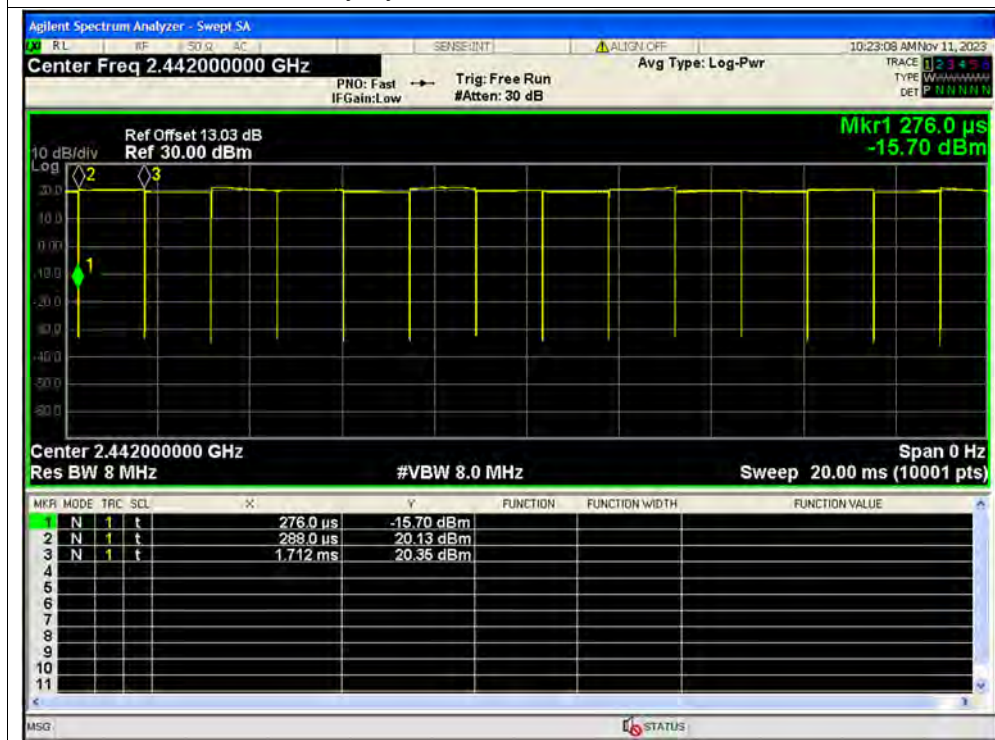


Duty Cycle NVNT b 2412MHz Ant2

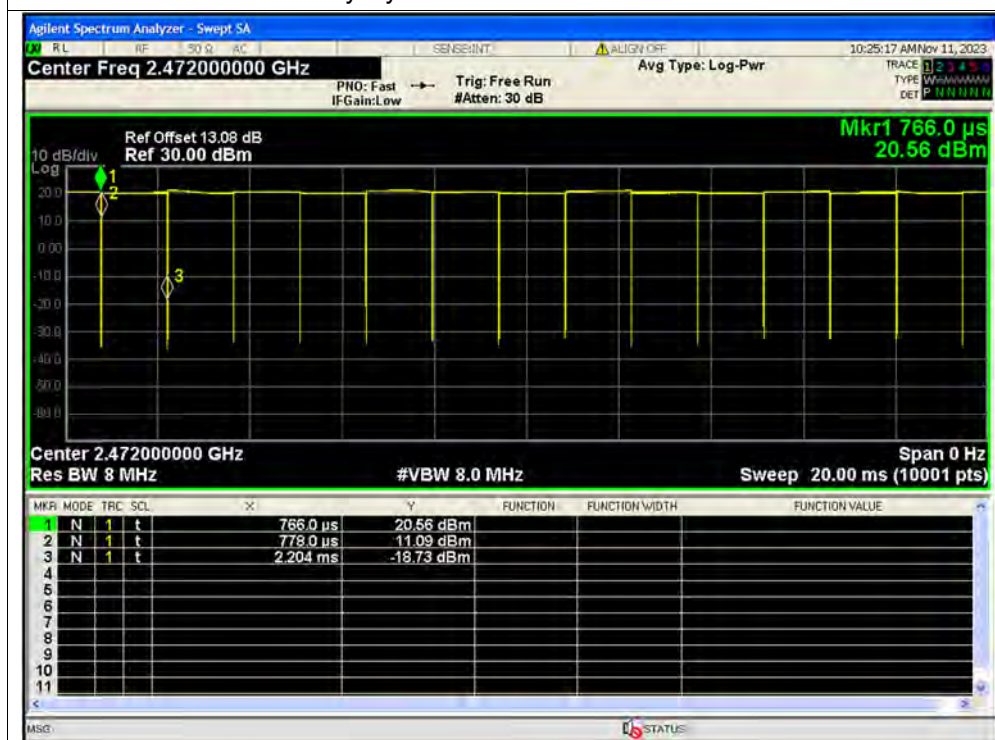




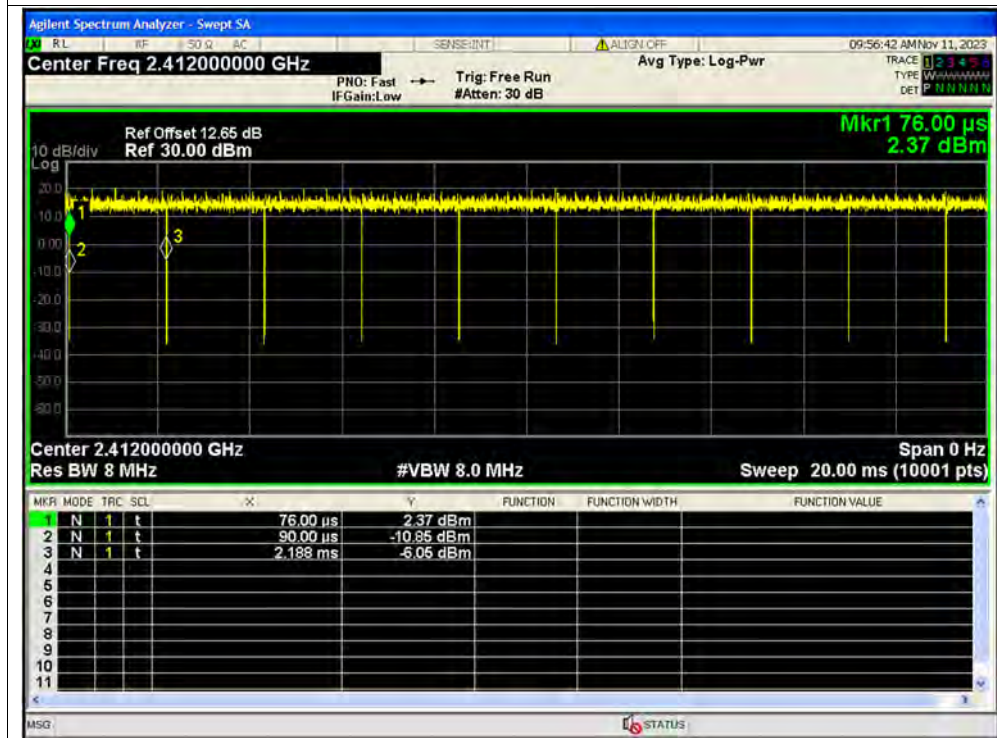
Duty Cycle NVNT b 2442MHz Ant2



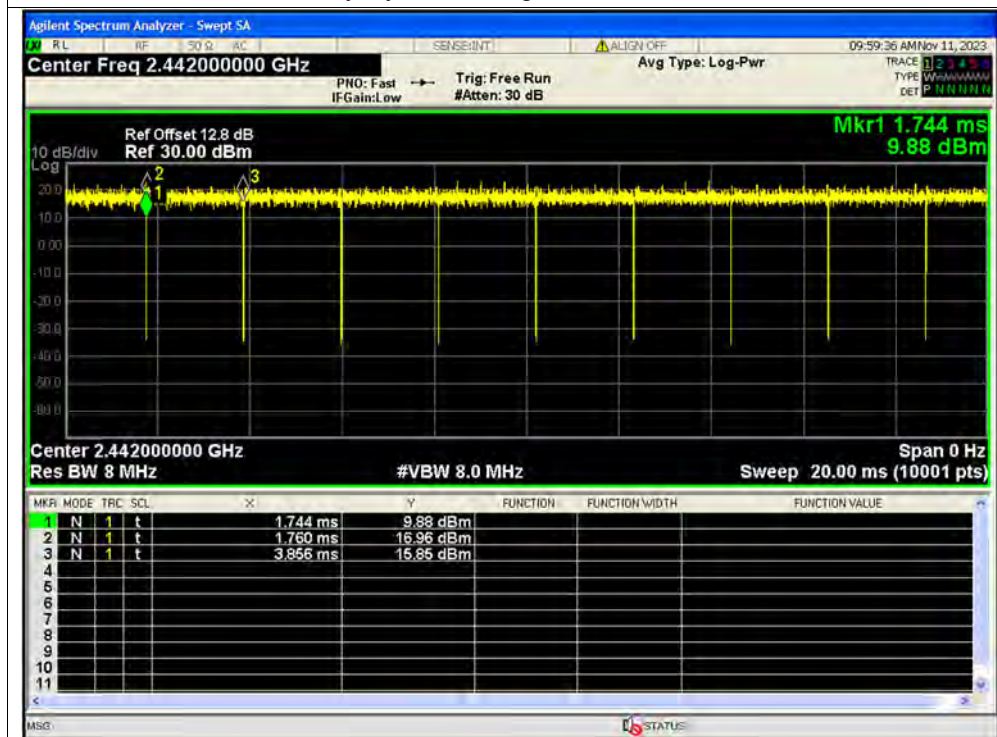
Duty Cycle NVNT b 2472MHz Ant2



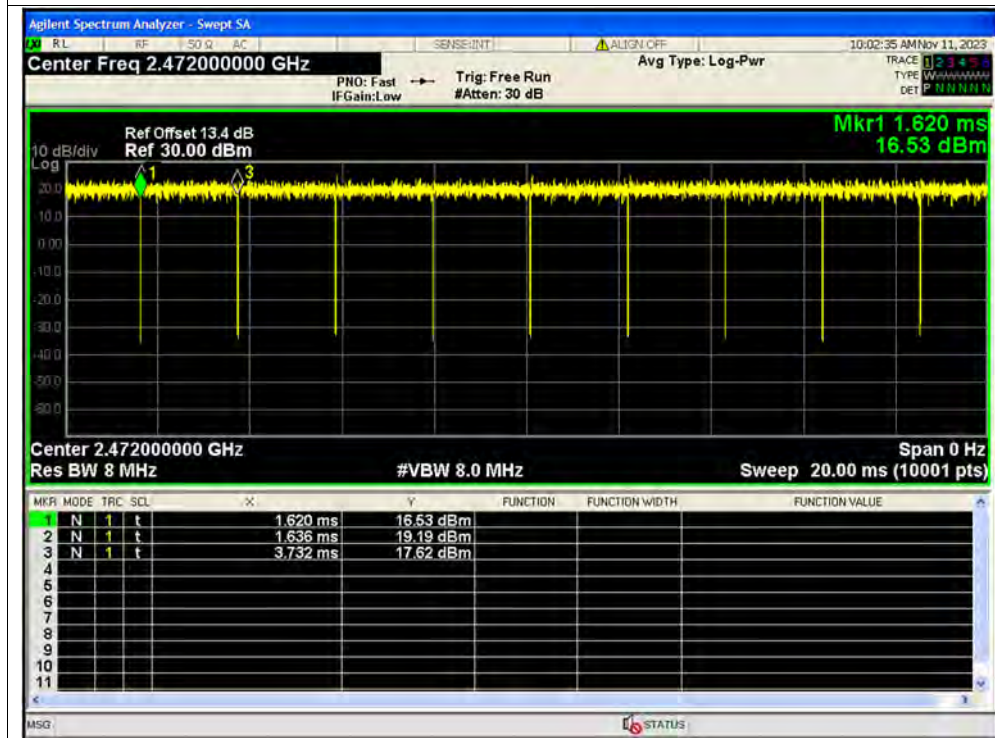
Duty Cycle NVNT g 2412MHz Ant1



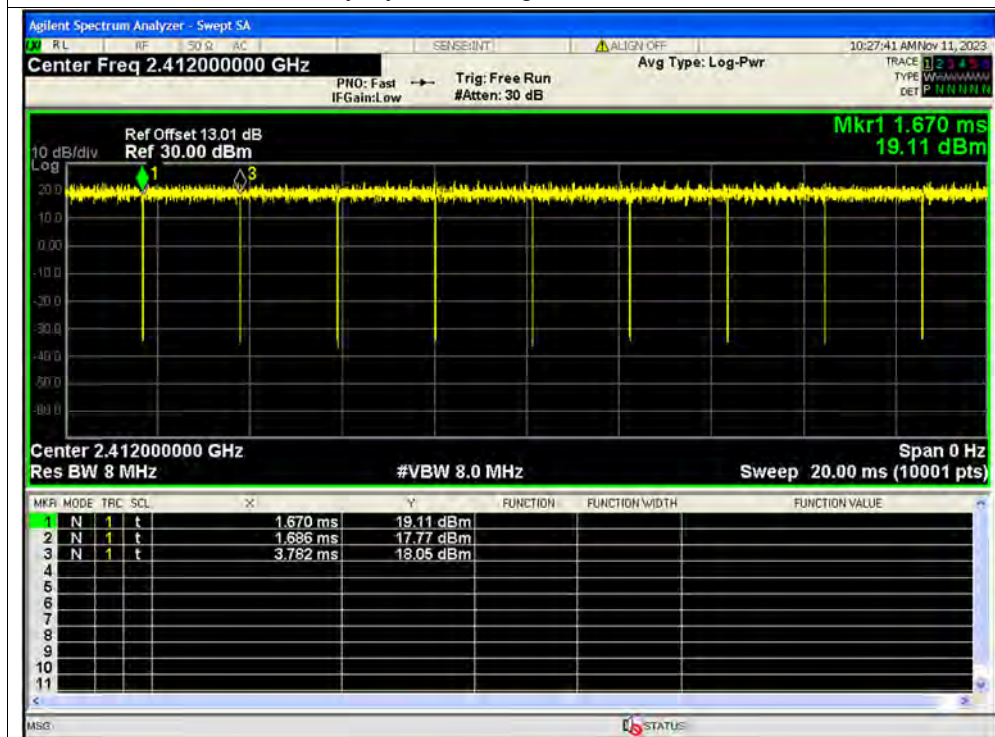
Duty Cycle NVNT g 2442MHz Ant1



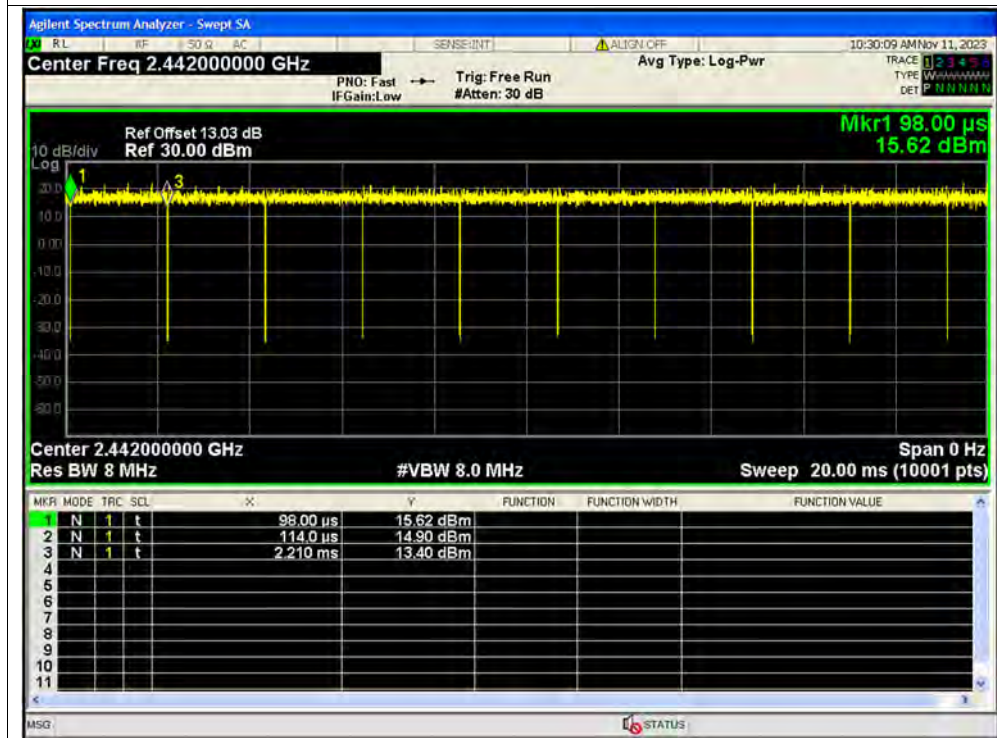
Duty Cycle NVNT g 2472MHz Ant1



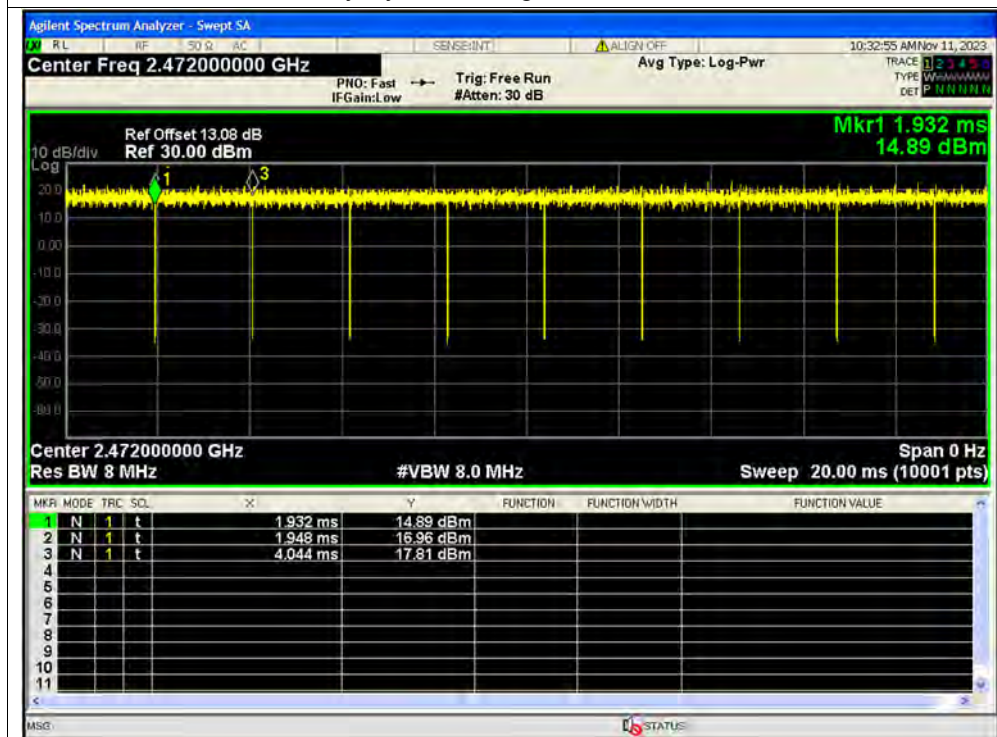
Duty Cycle NVNT g 2412MHz Ant2



Duty Cycle NVNT g 2442MHz Ant2

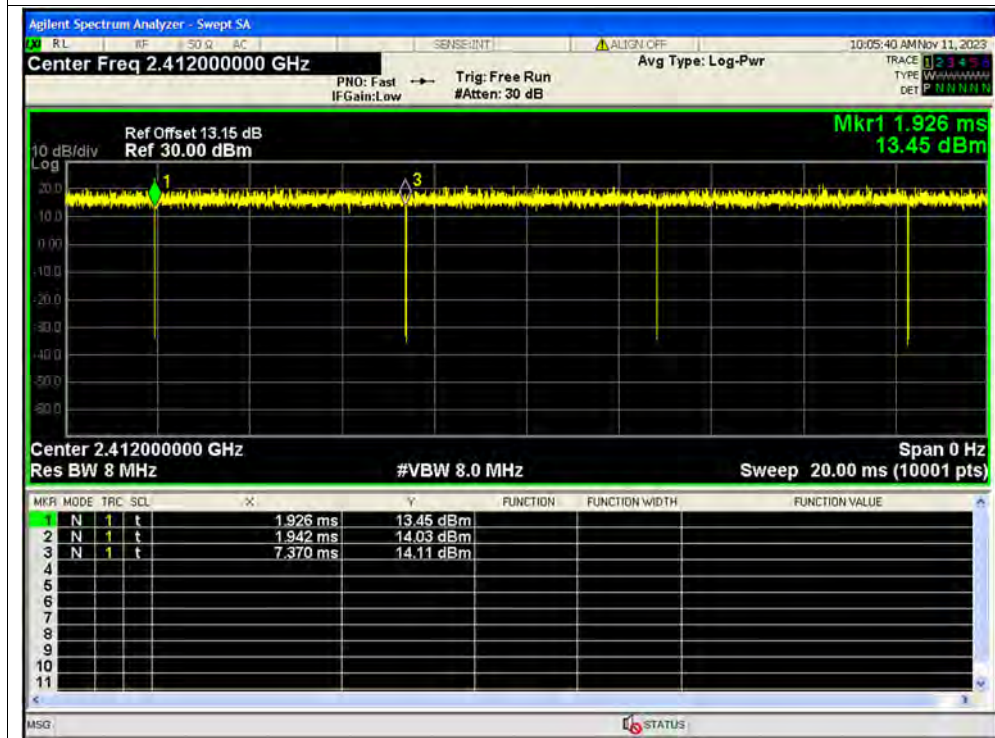


Duty Cycle NVNT g 2472MHz Ant2

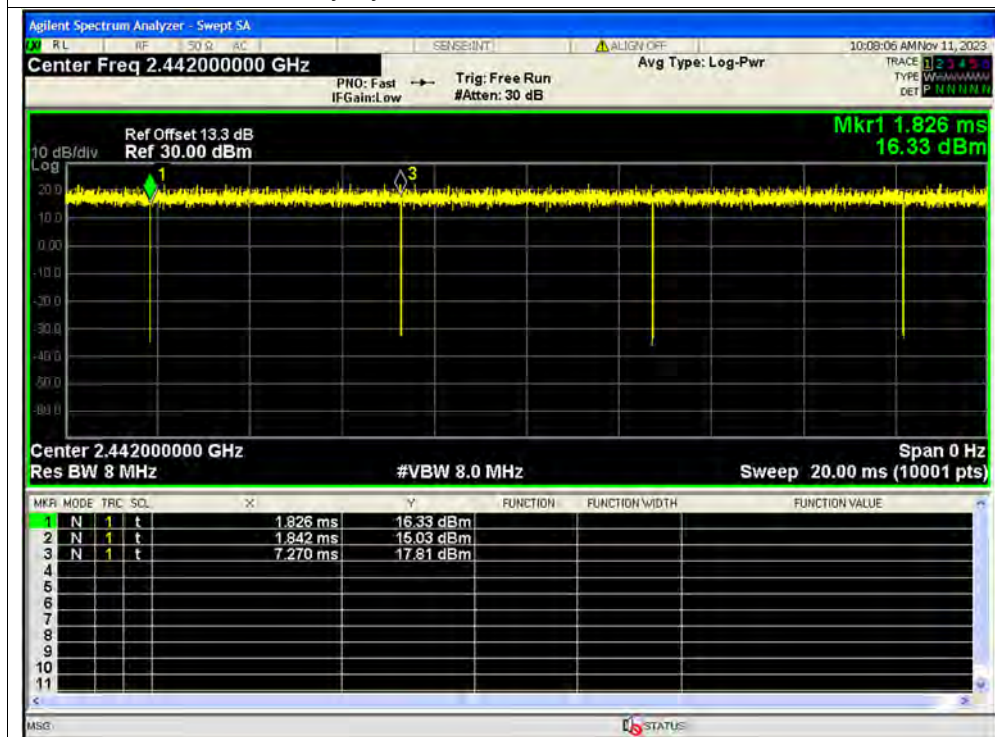




Duty Cycle NVNT n20 2412MHz Ant1

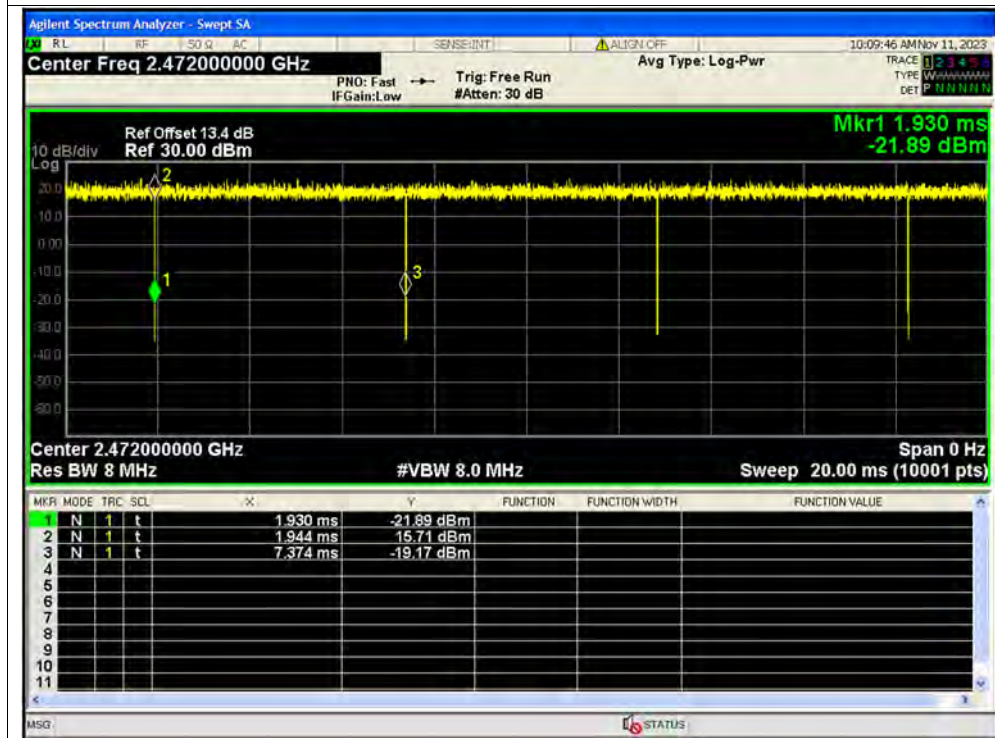


Duty Cycle NVNT n20 2442MHz Ant1

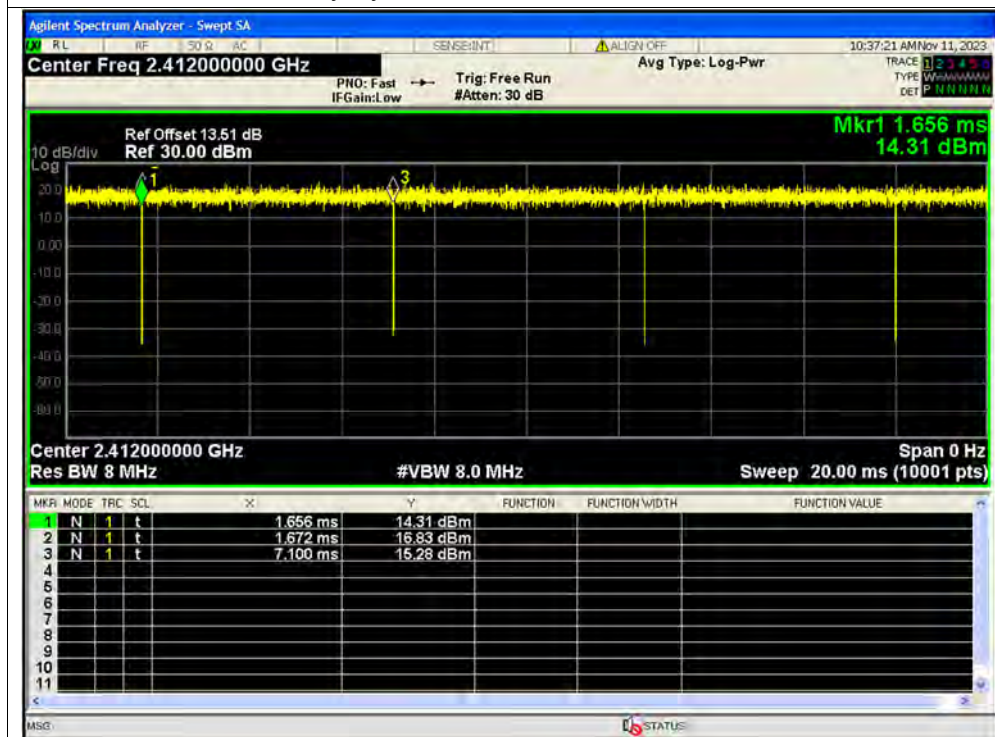




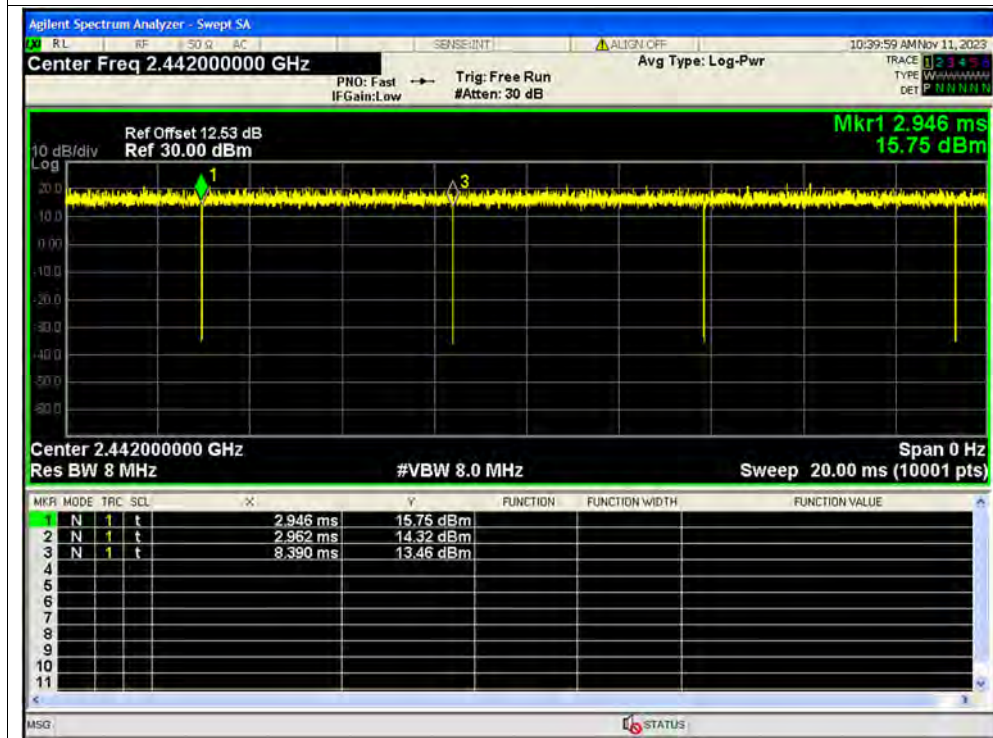
Duty Cycle NVNT n20 2472MHz Ant1



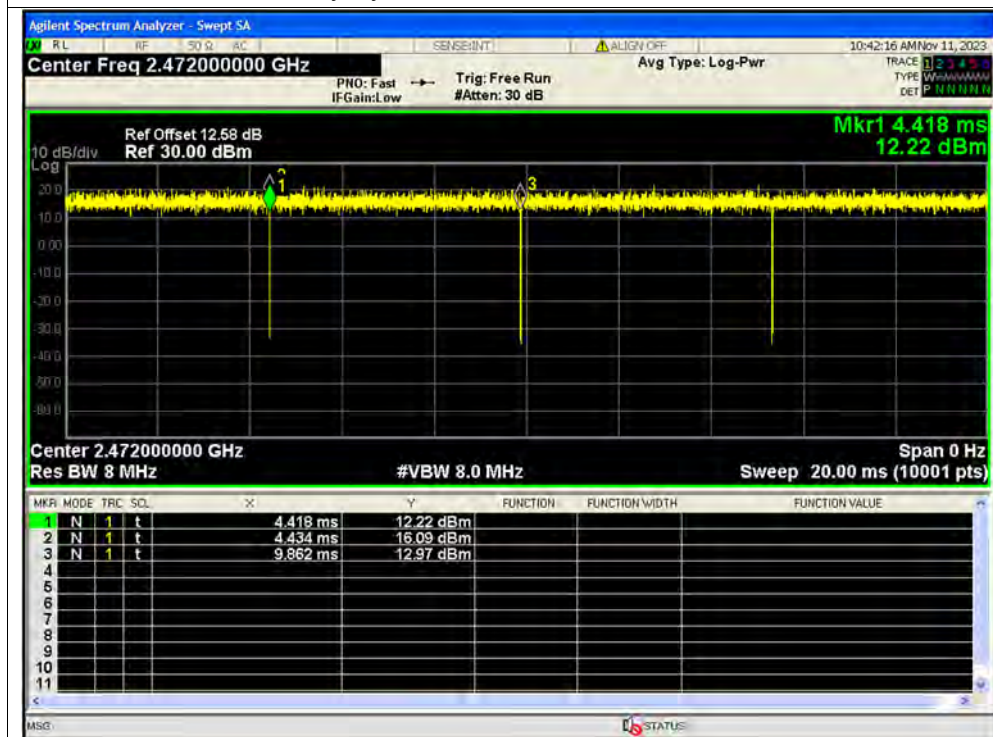
Duty Cycle NVNT n20 2412MHz Ant2



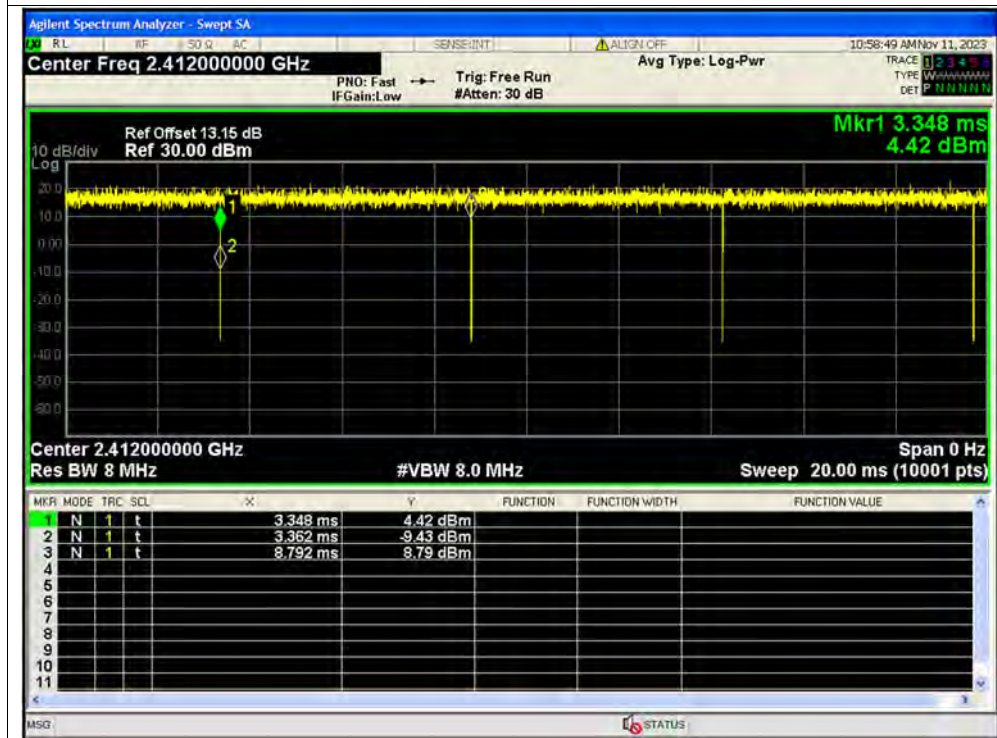
Duty Cycle NVNT n20 2442MHz Ant2



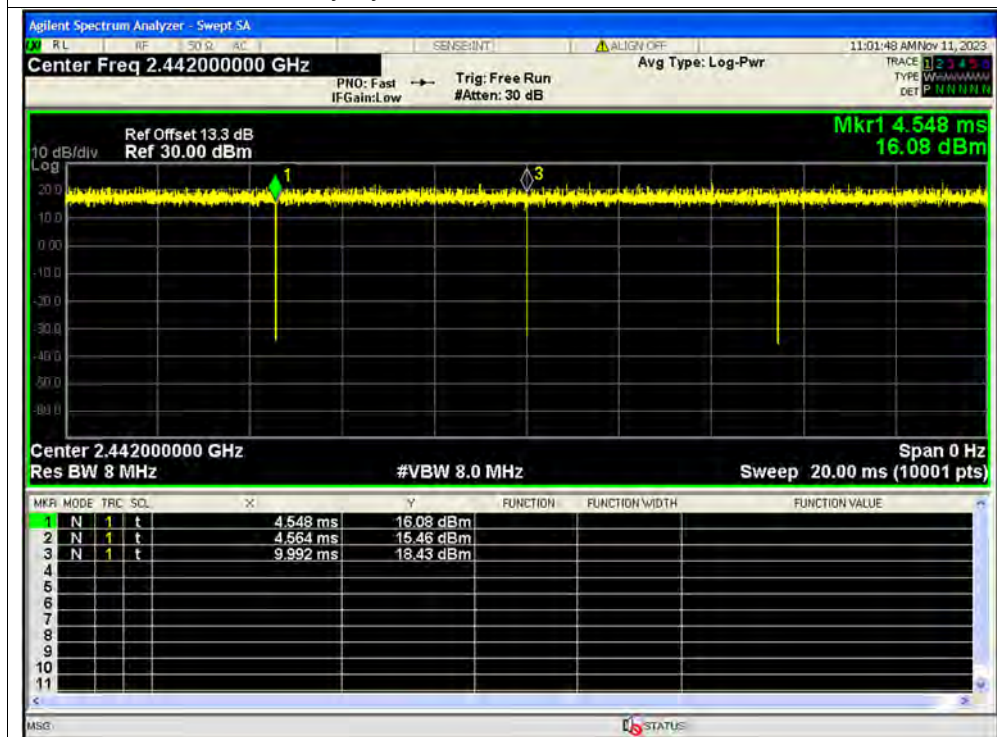
Duty Cycle NVNT n20 2472MHz Ant2



Duty Cycle NVNT n20 2412MHz Sum

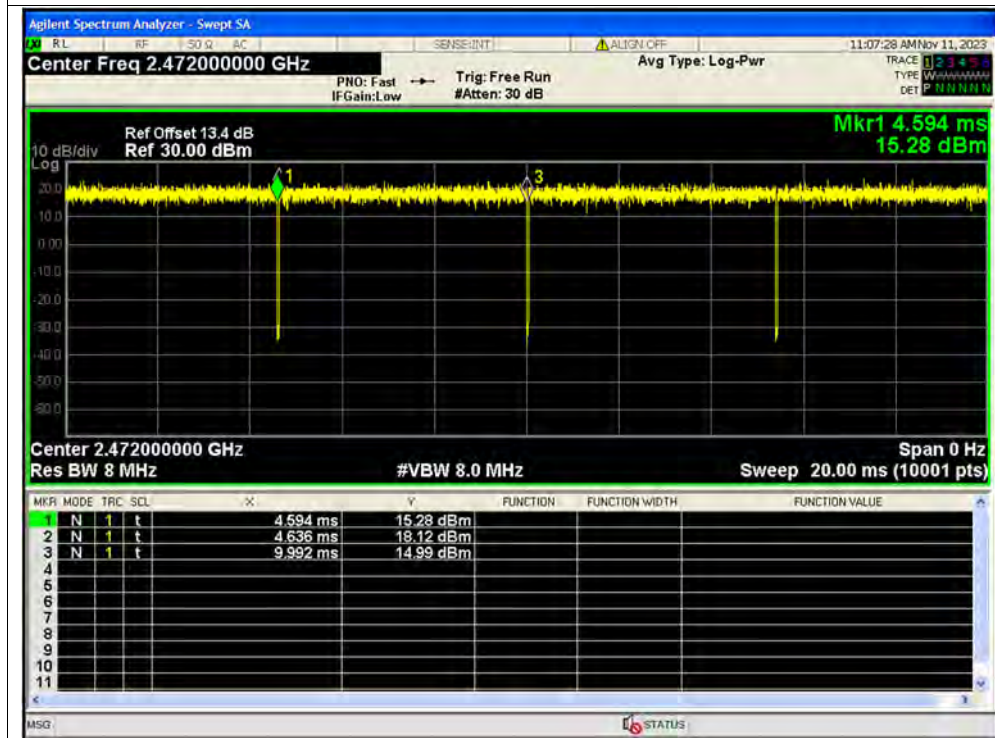


Duty Cycle NVNT n20 2442MHz Sum

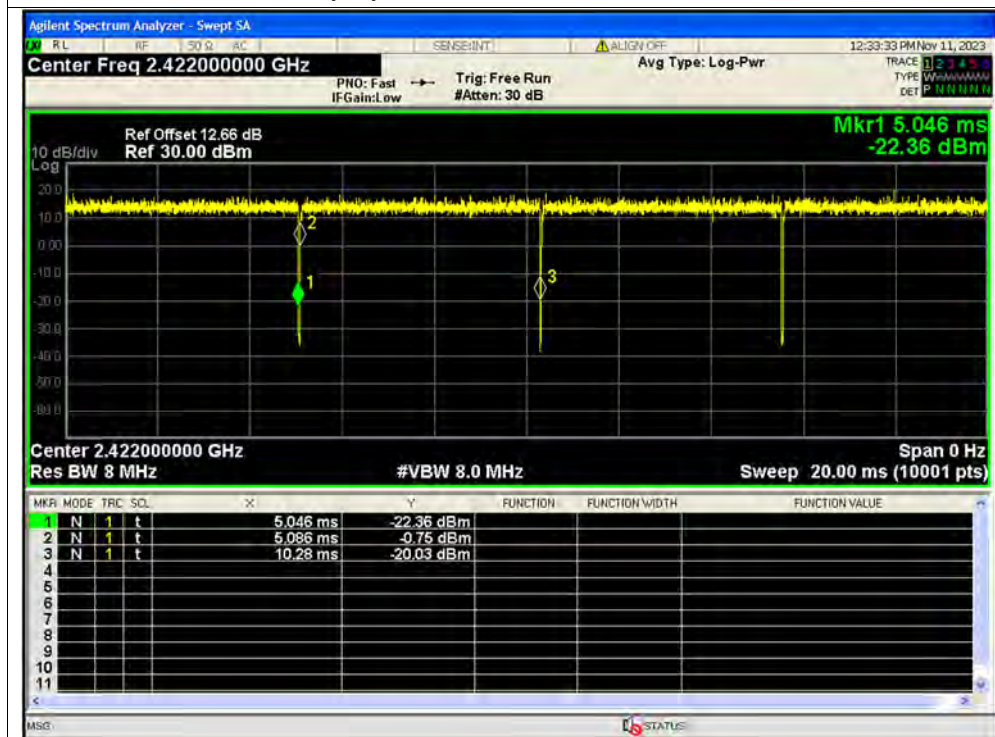




Duty Cycle NVNT n20 2472MHz Sum

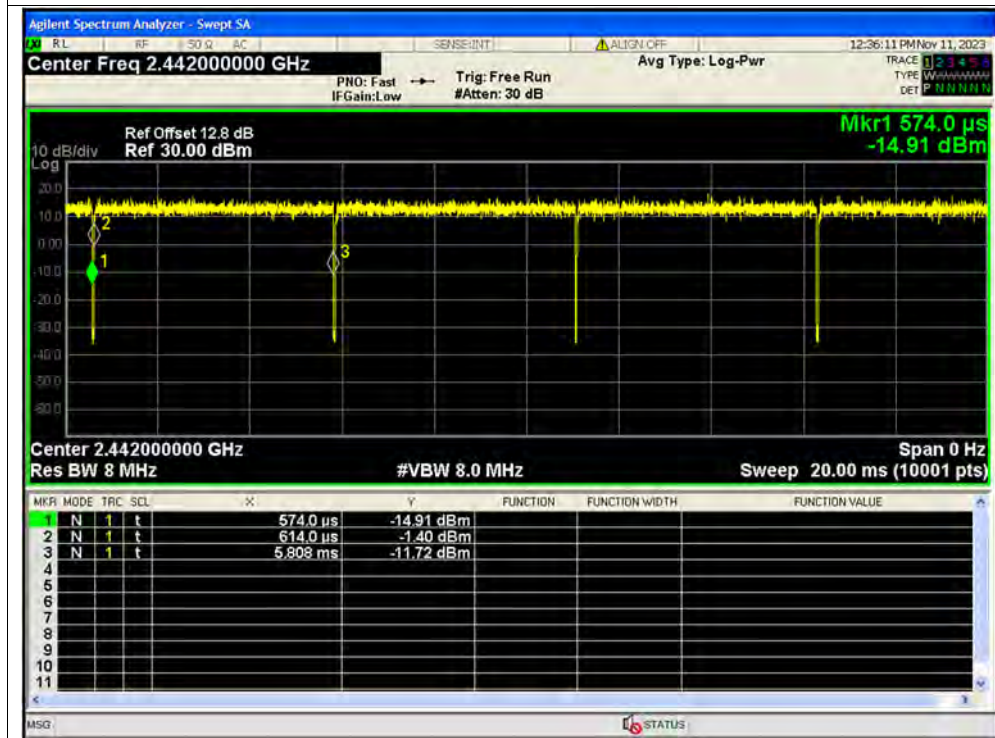


Duty Cycle NVNT n40 2422MHz Ant1

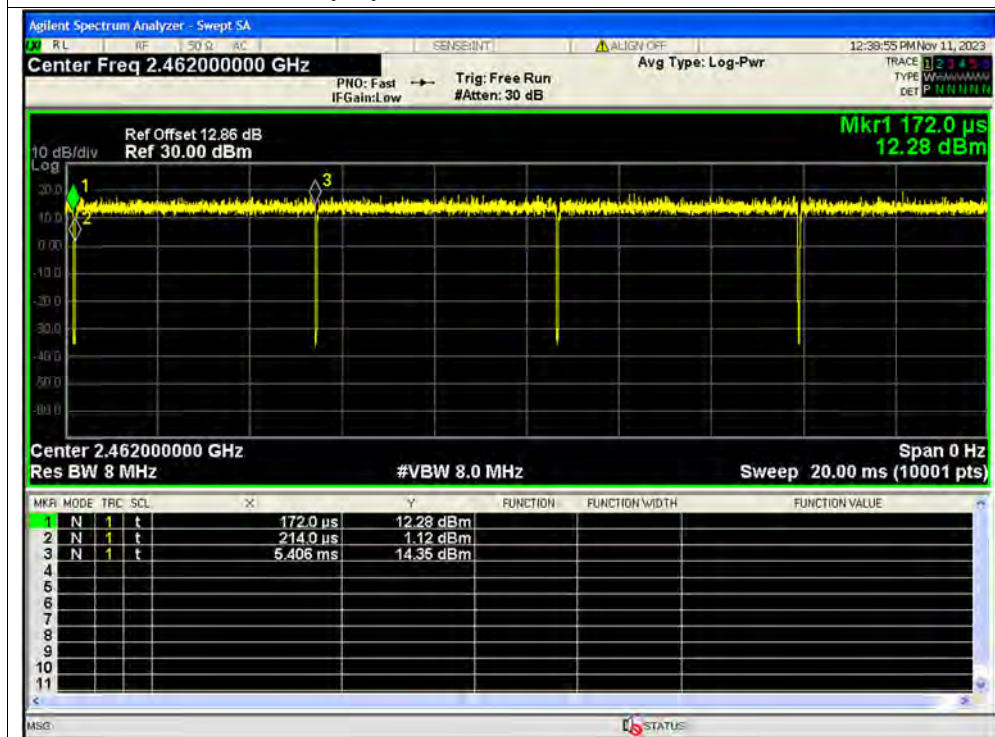




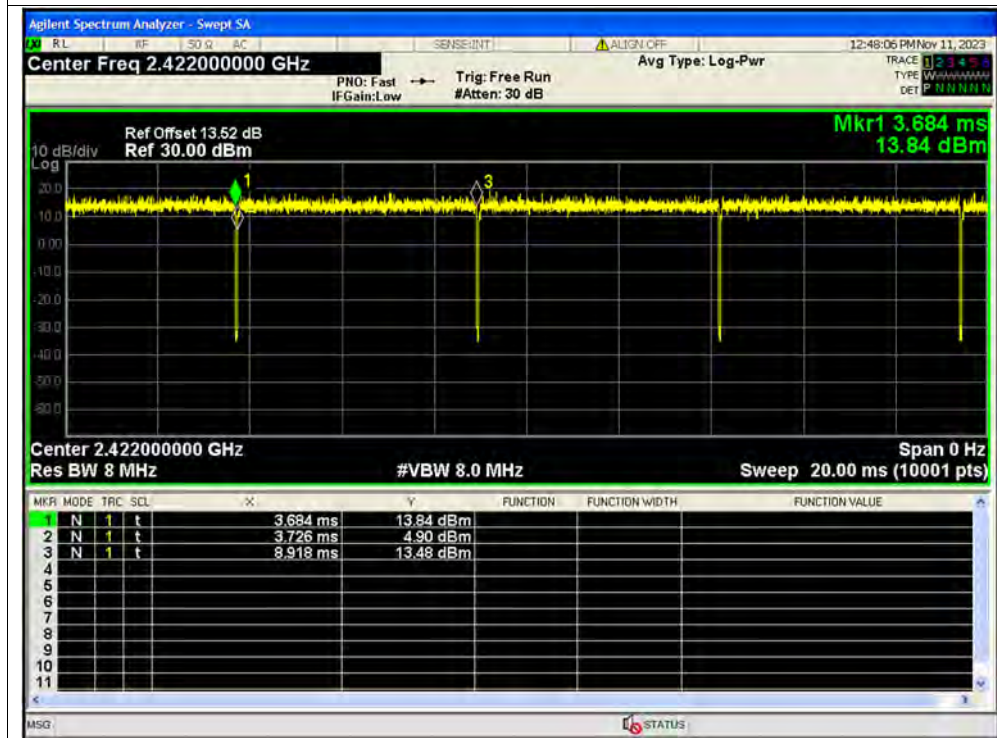
Duty Cycle NVNT n40 2442MHz Ant1



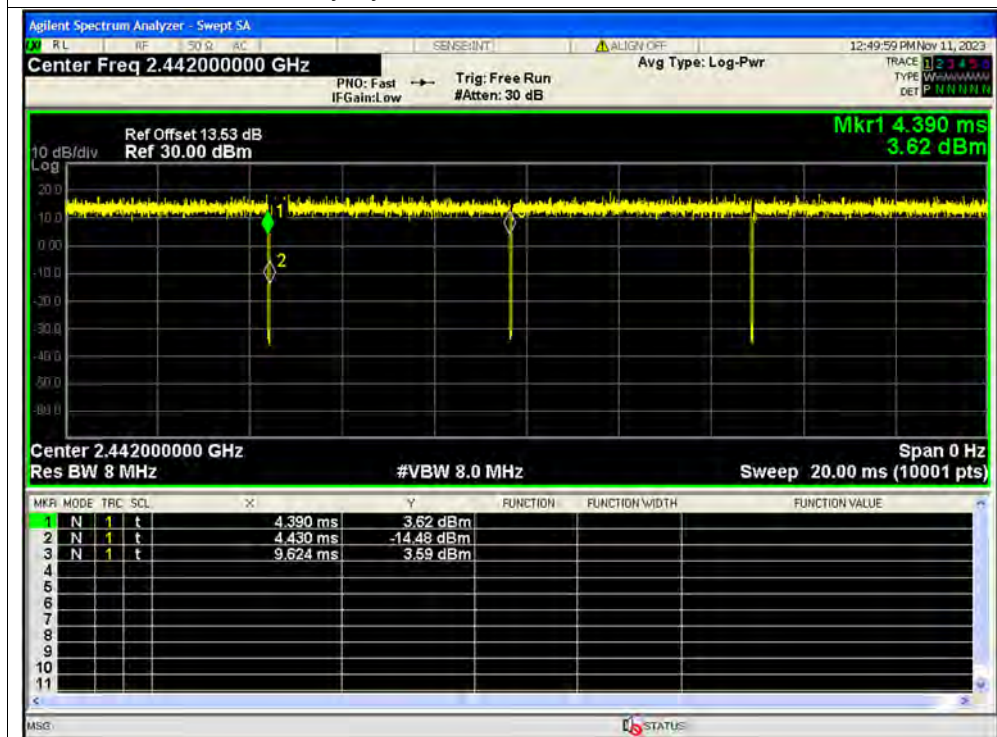
Duty Cycle NVNT n40 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant2

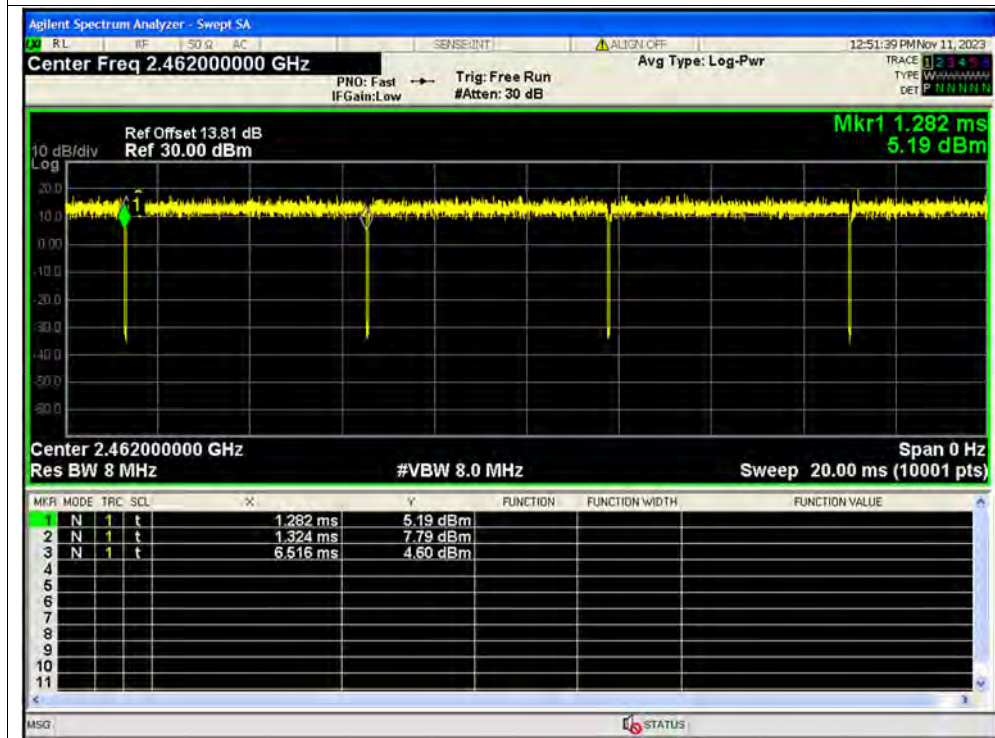


Duty Cycle NVNT n40 2442MHz Ant2

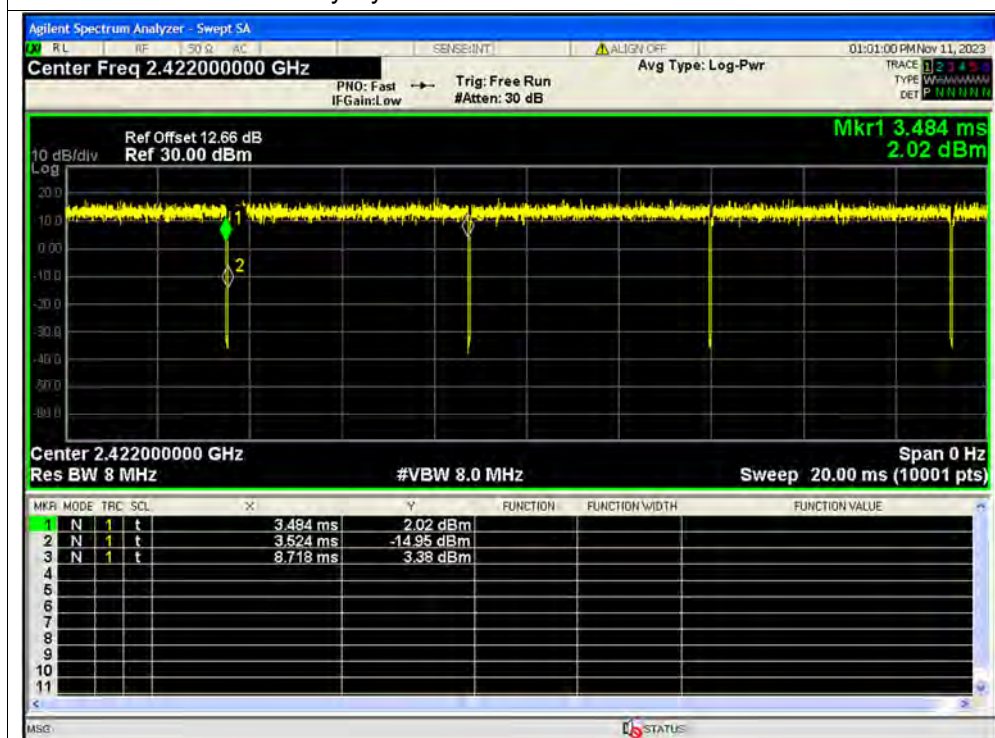




Duty Cycle NVNT n40 2462MHz Ant2

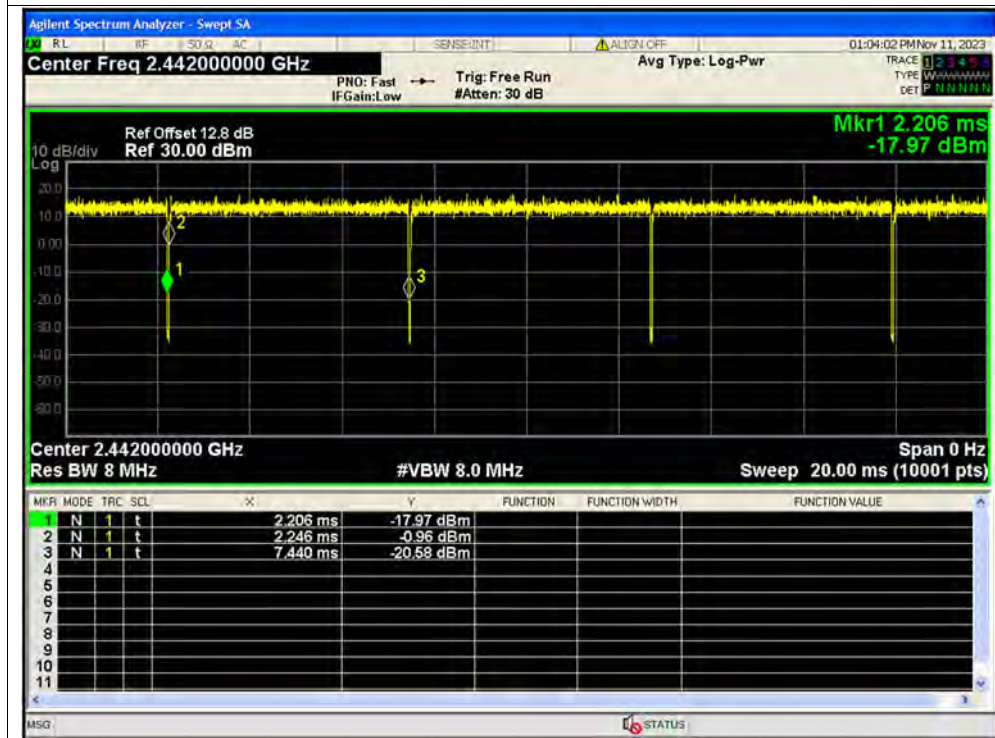


Duty Cycle NVNT n40 2422MHz Sum

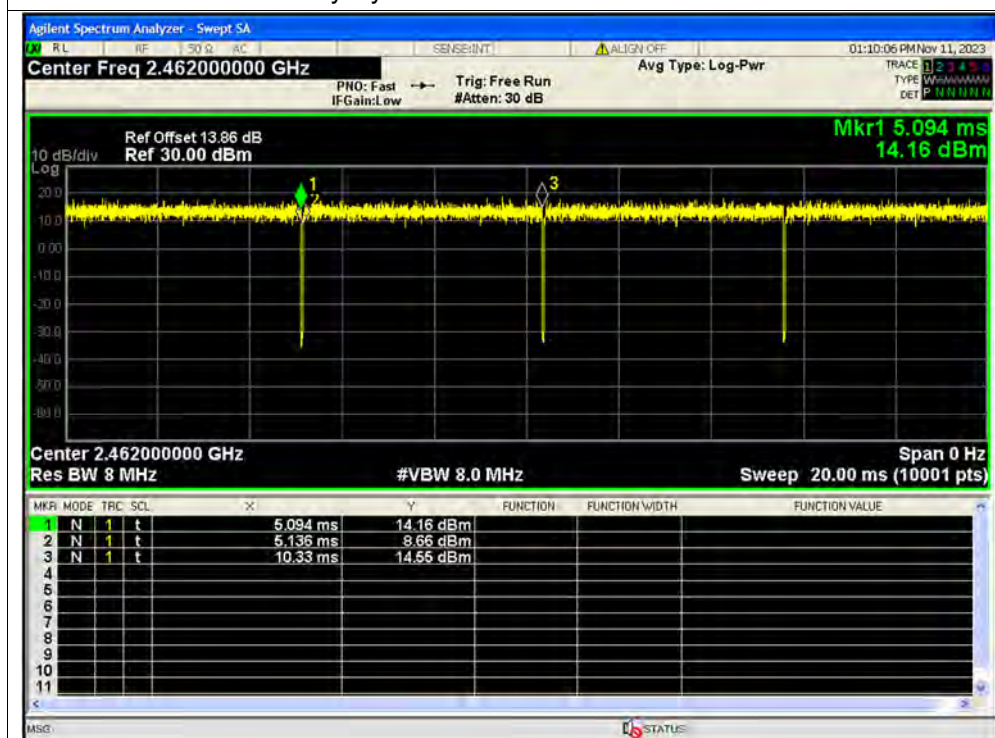




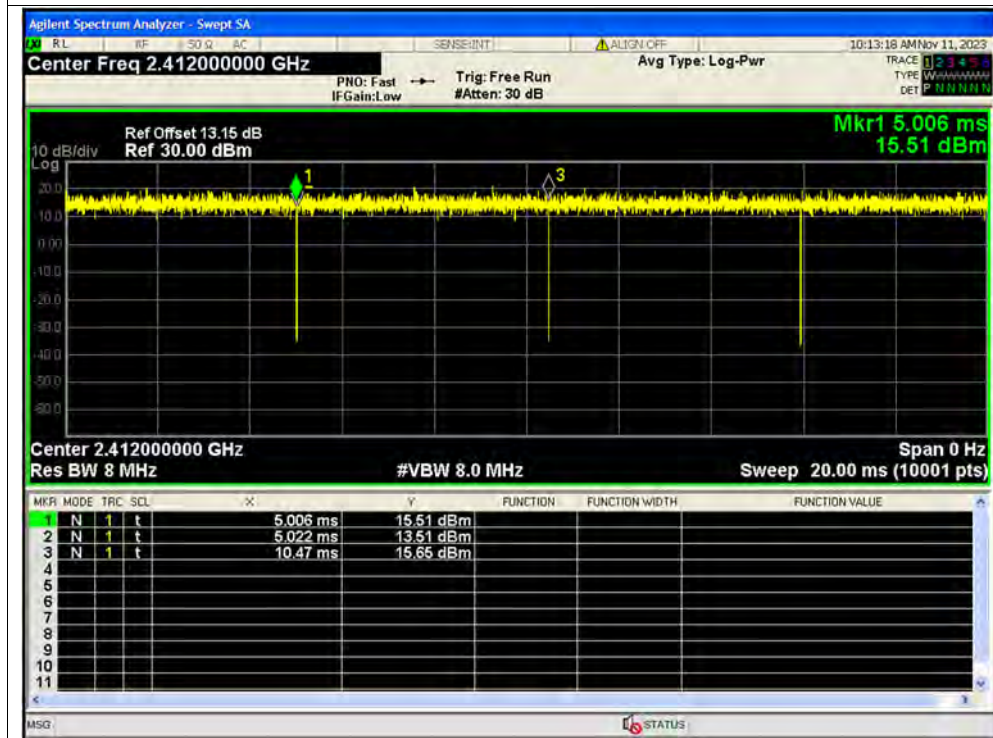
Duty Cycle NVNT n40 2442MHz Sum



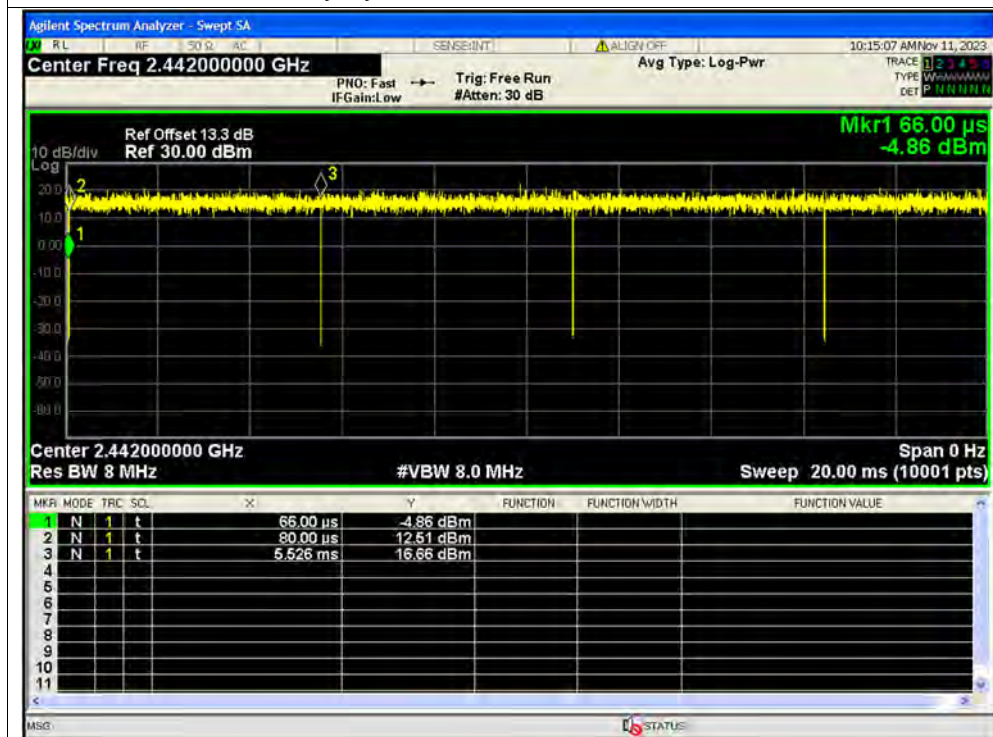
Duty Cycle NVNT n40 2462MHz Sum



Duty Cycle NVNT ax20 2412MHz Ant1

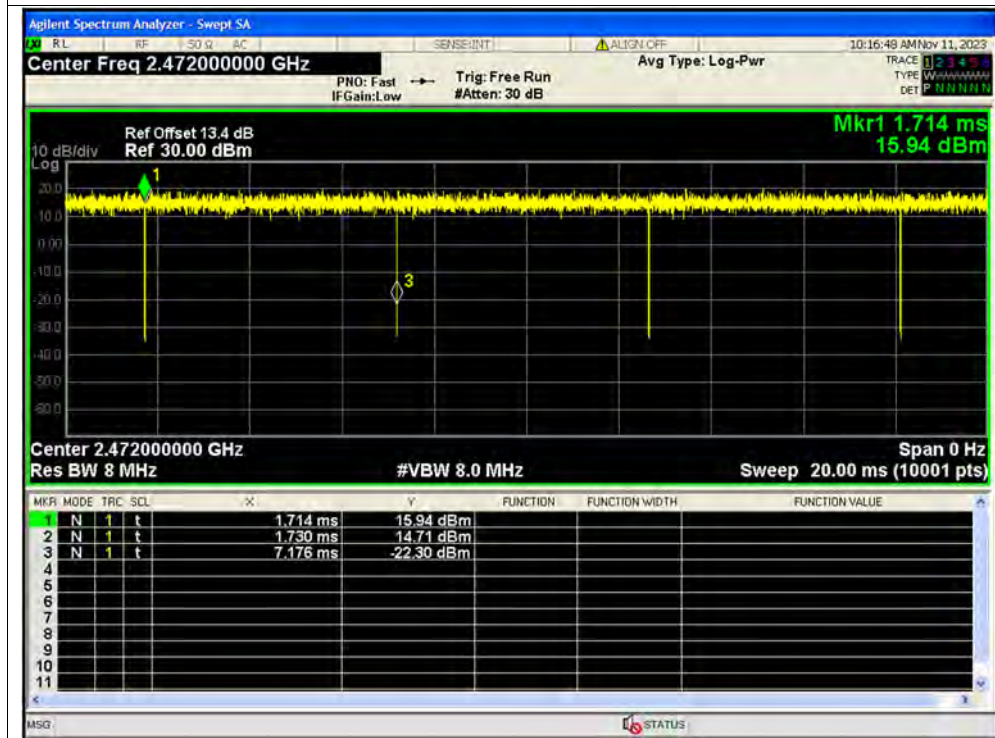


Duty Cycle NVNT ax20 2442MHz Ant1

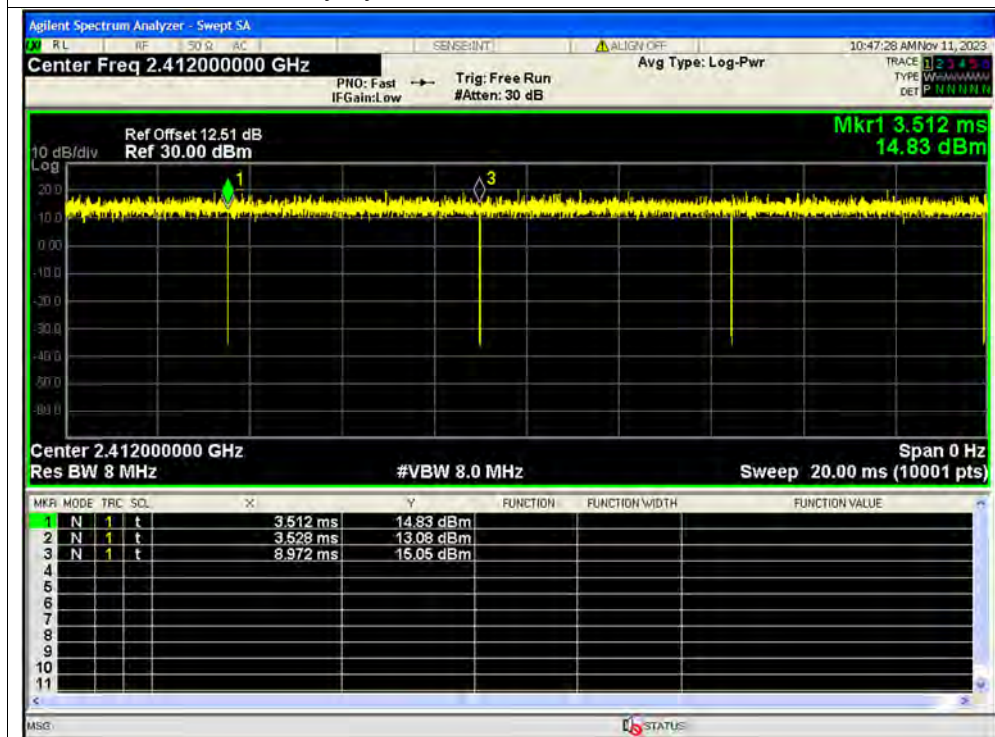




Duty Cycle NVNT ax20 2472MHz Ant1

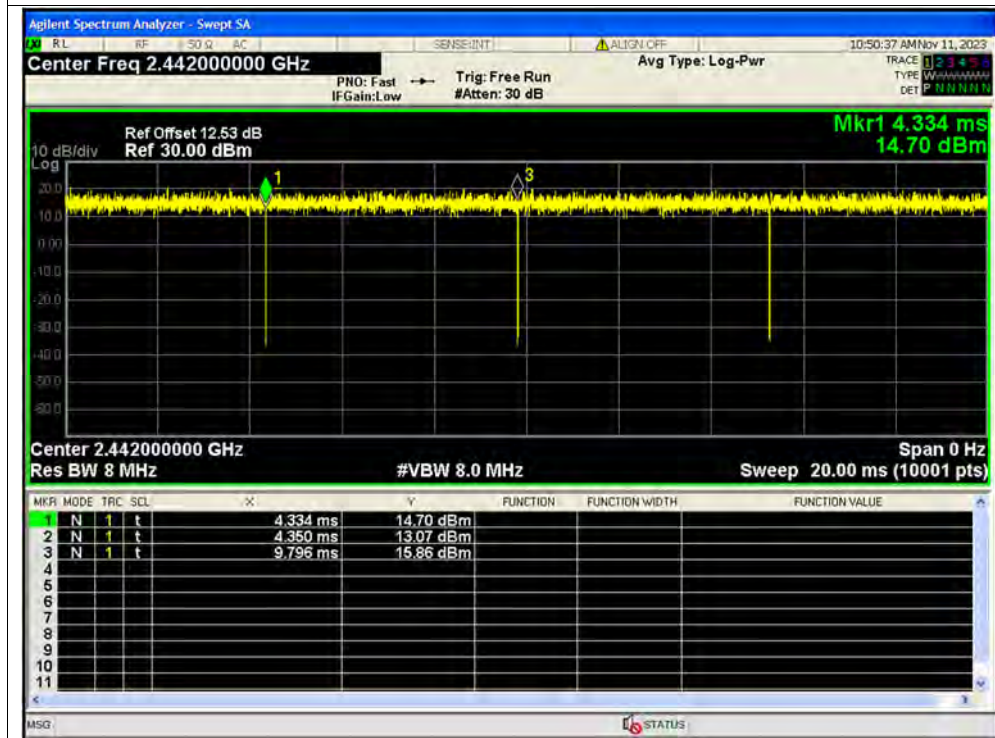


Duty Cycle NVNT ax20 2412MHz Ant2

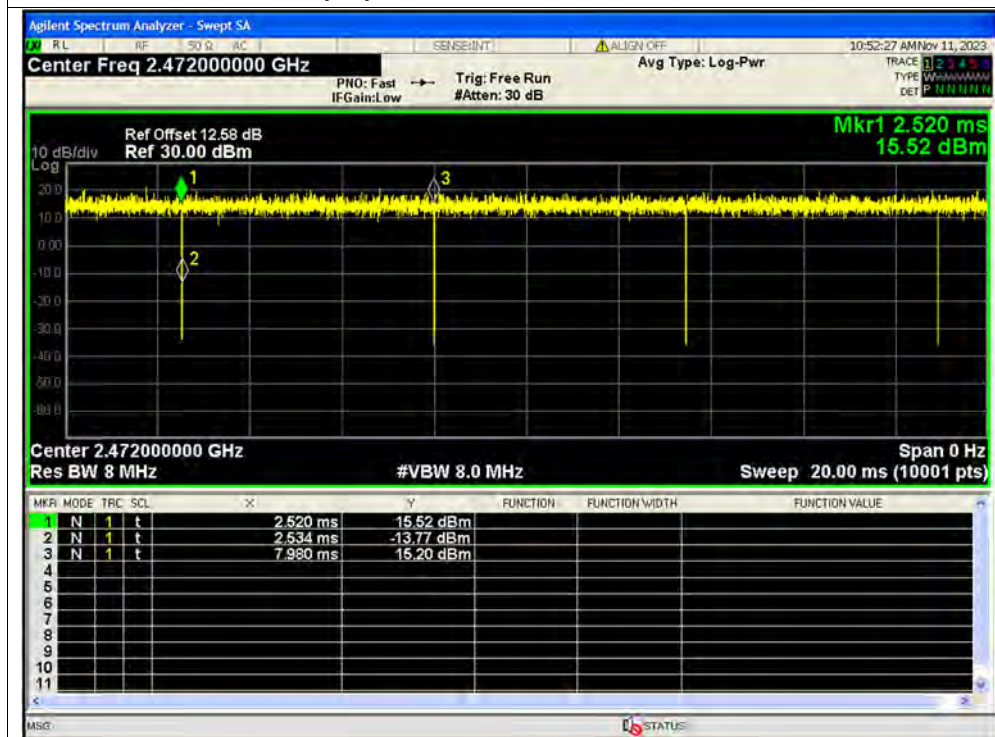




Duty Cycle NVNT ax20 2442MHz Ant2

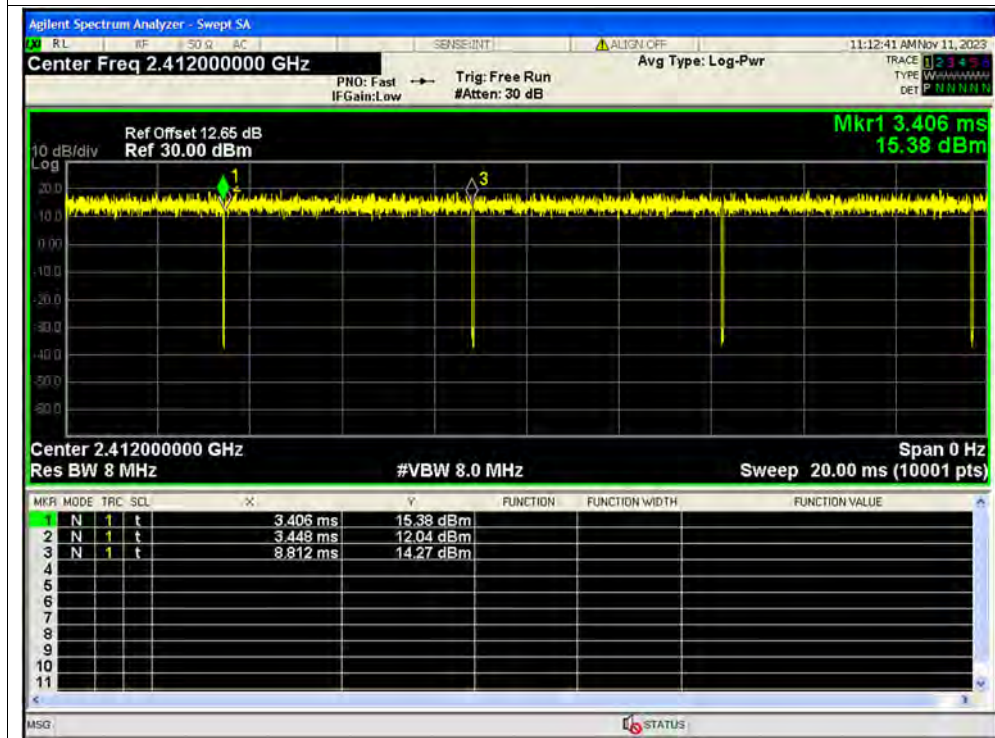


Duty Cycle NVNT ax20 2472MHz Ant2

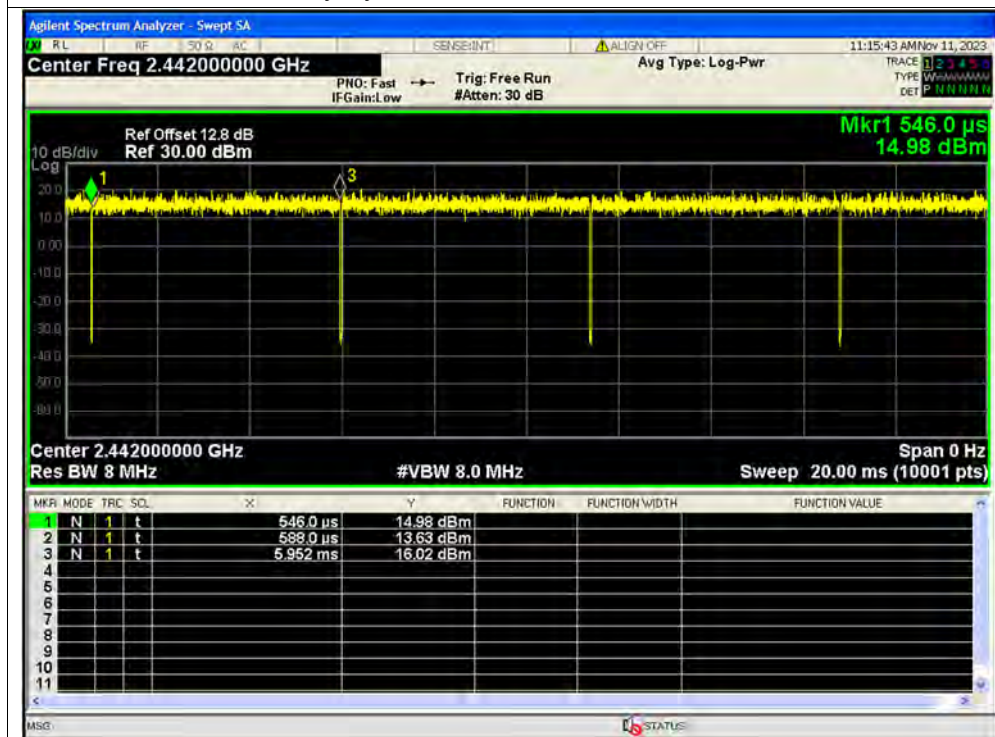




Duty Cycle NVNT ax20 2412MHz Sum

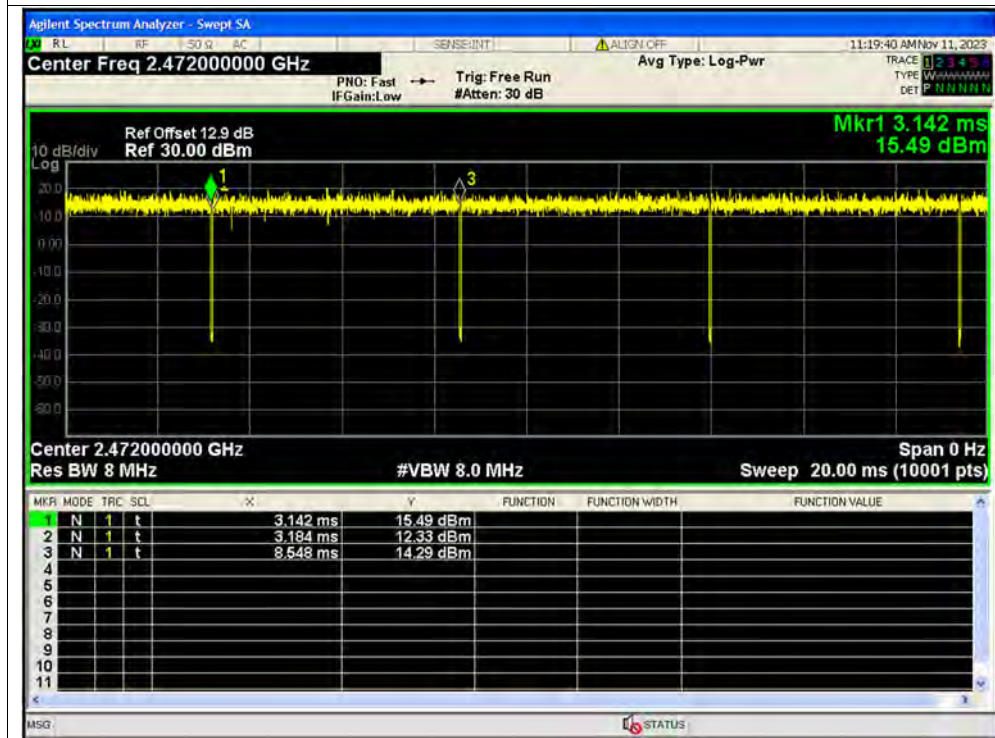


Duty Cycle NVNT ax20 2442MHz Sum

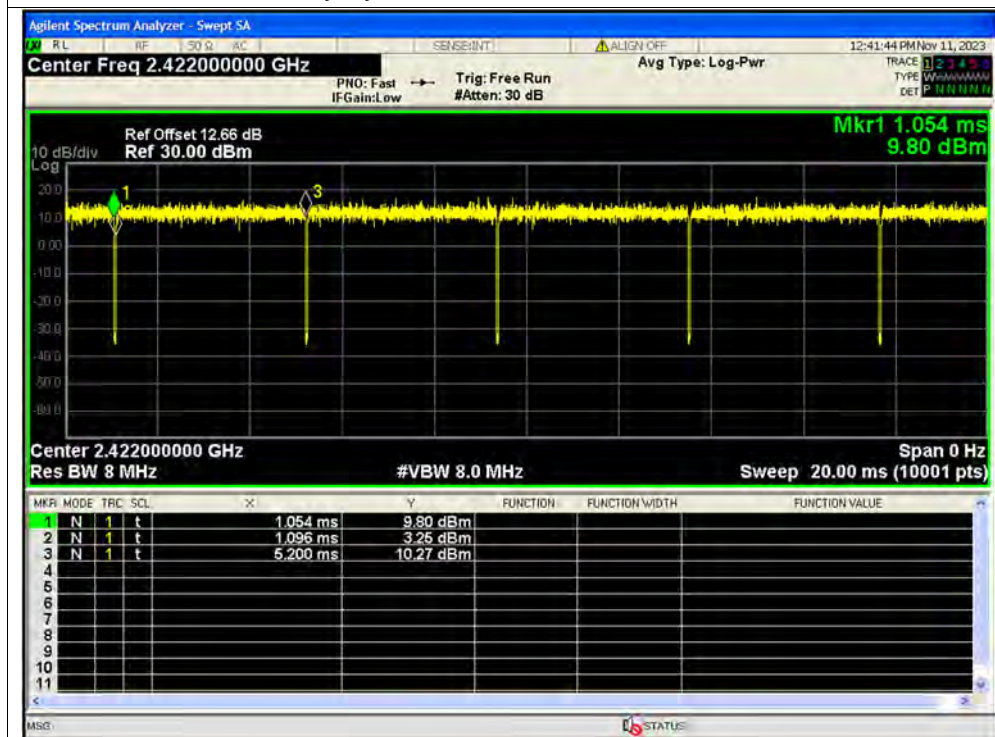




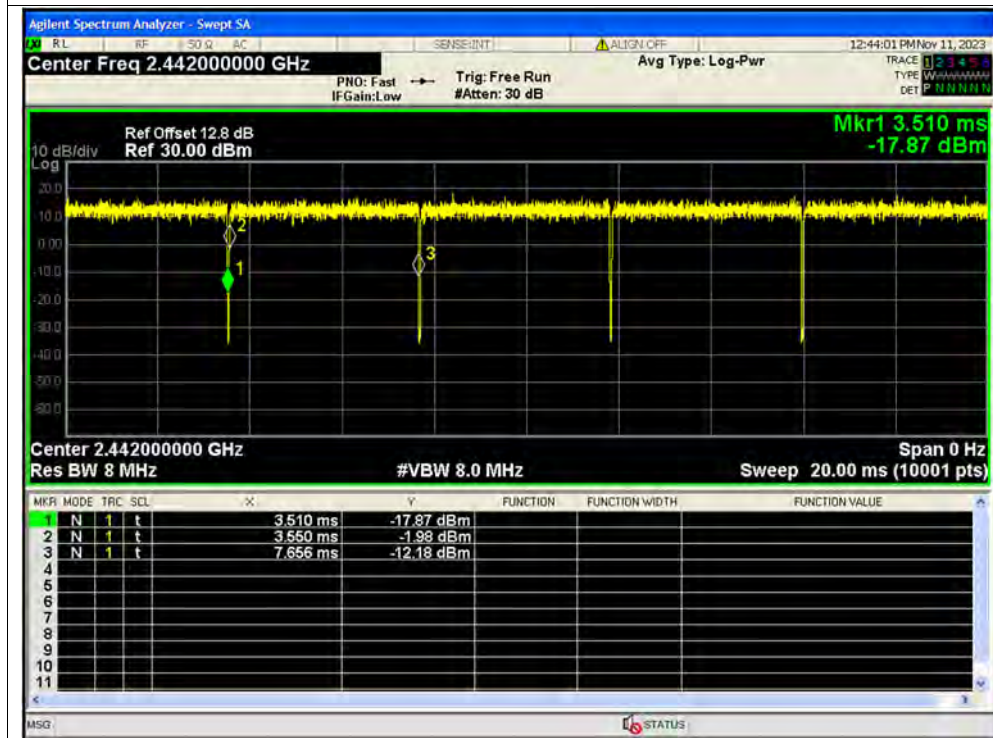
Duty Cycle NVNT ax20 2472MHz Sum



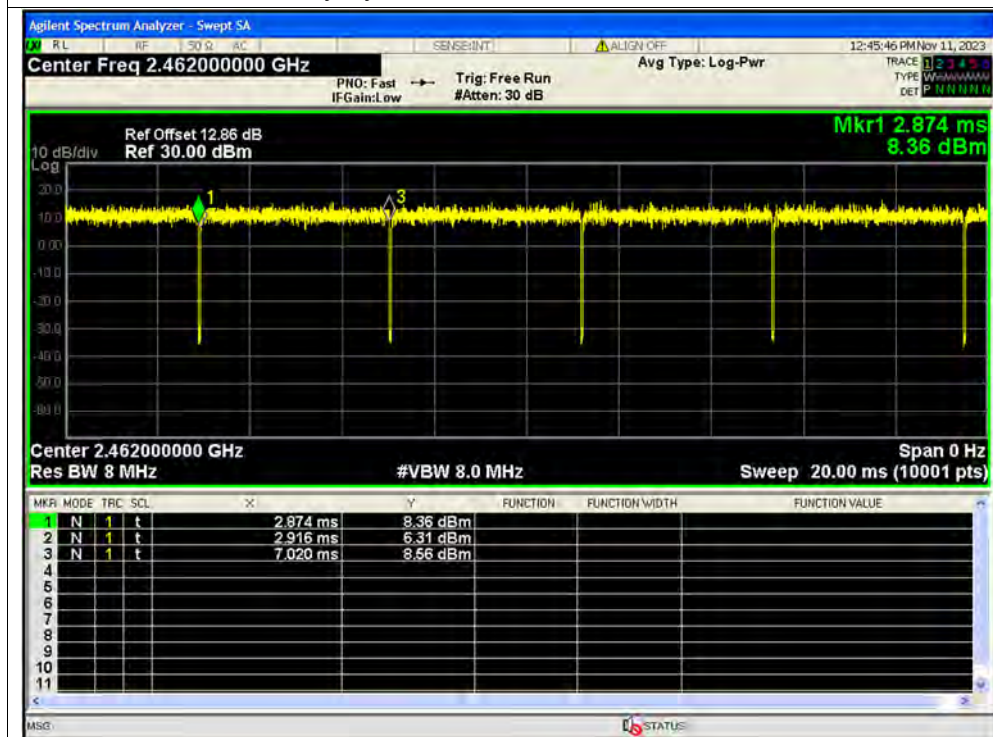
Duty Cycle NVNT ax40 2422MHz Ant1



Duty Cycle NVNT ax40 2442MHz Ant1

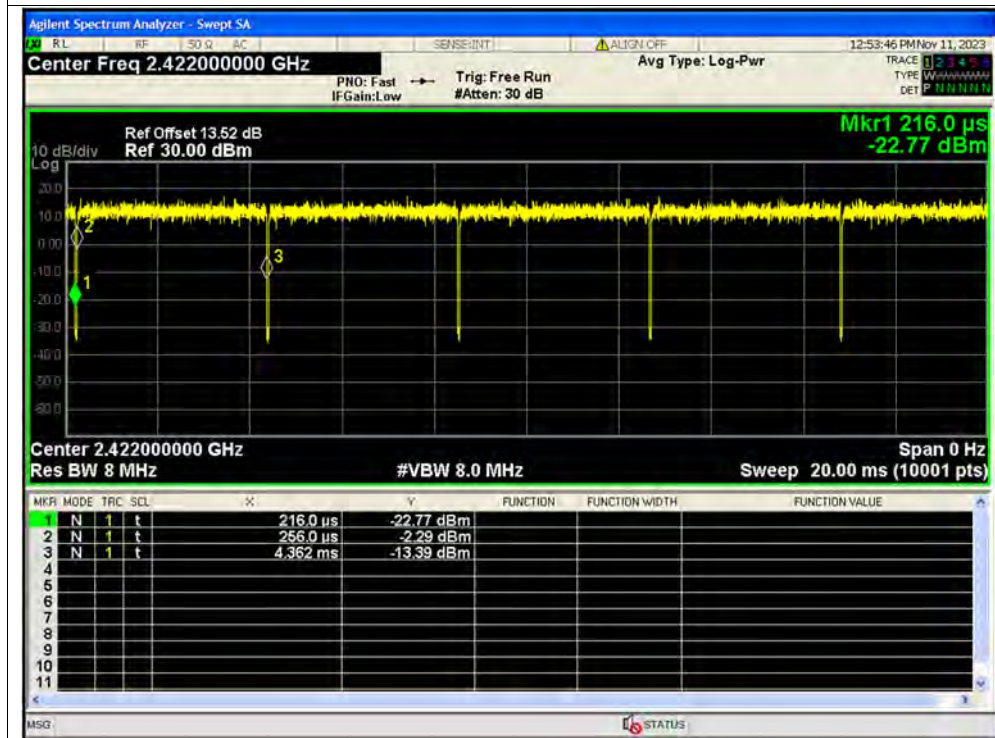


Duty Cycle NVNT ax40 2462MHz Ant1

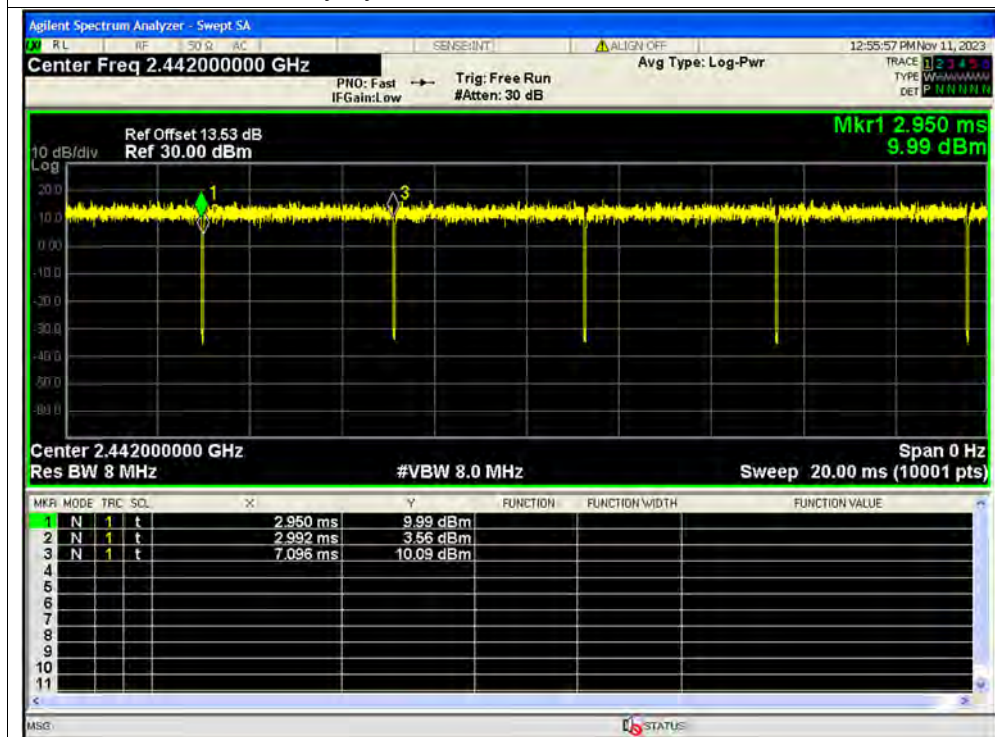




Duty Cycle NVNT ax40 2422MHz Ant2

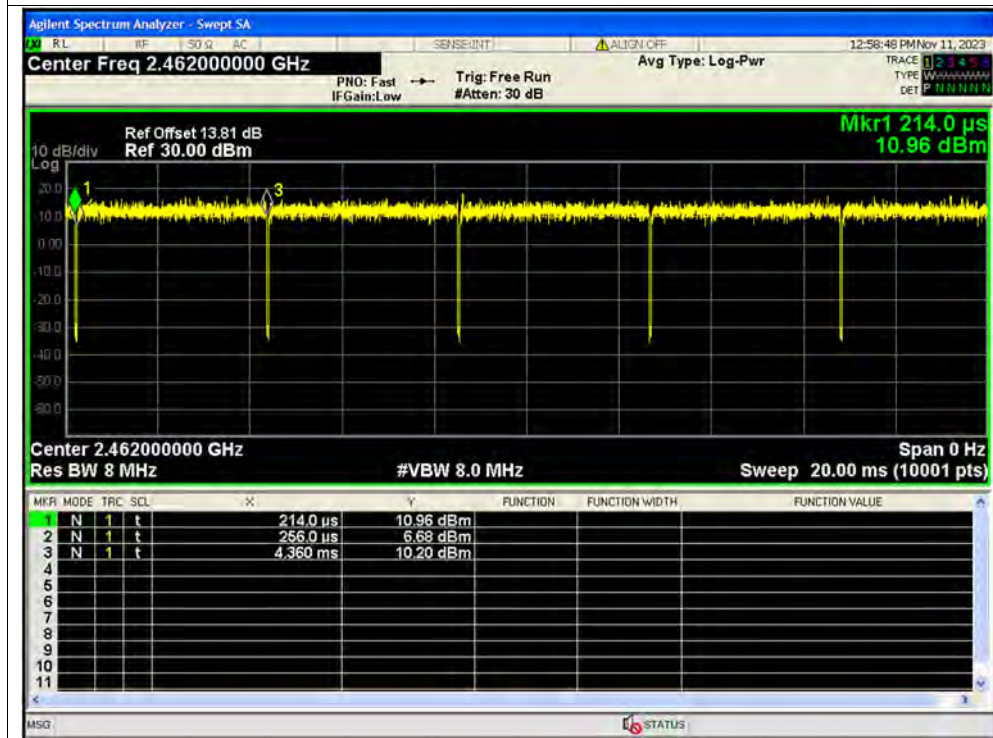


Duty Cycle NVNT ax40 2442MHz Ant2

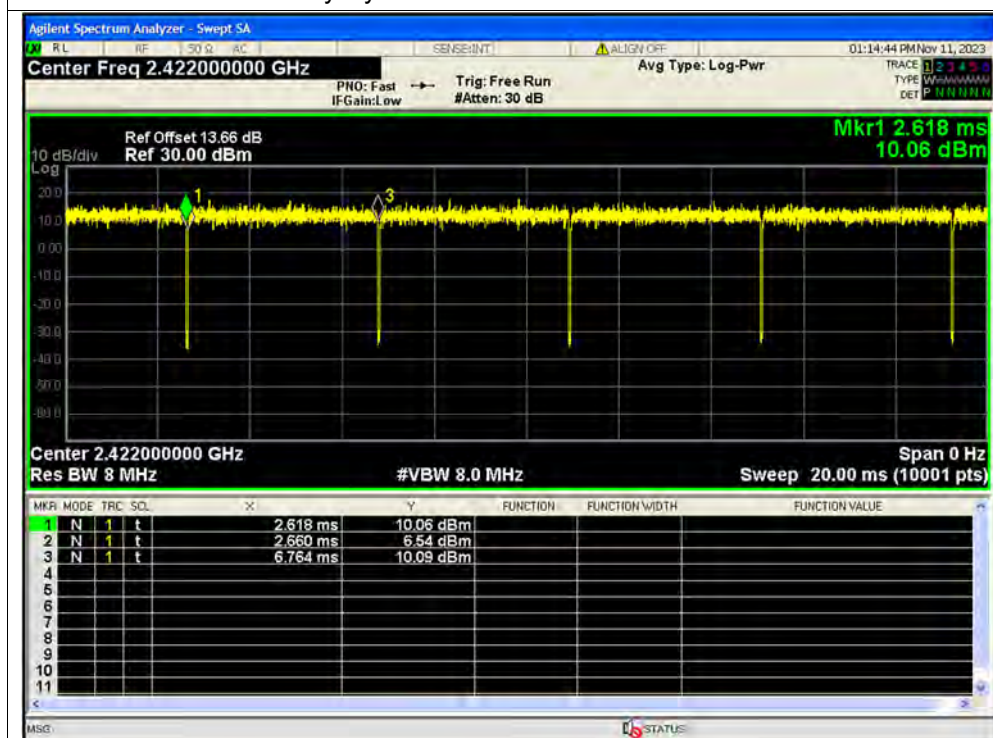




Duty Cycle NVNT ax40 2462MHz Ant2

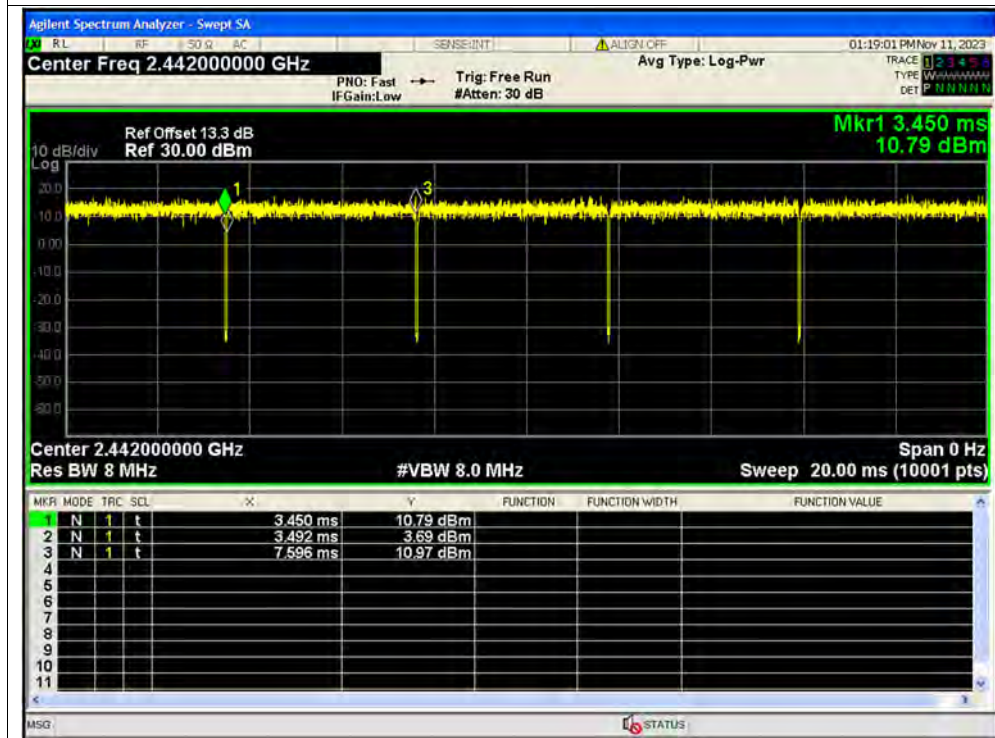


Duty Cycle NVNT ax40 2422MHz Sum

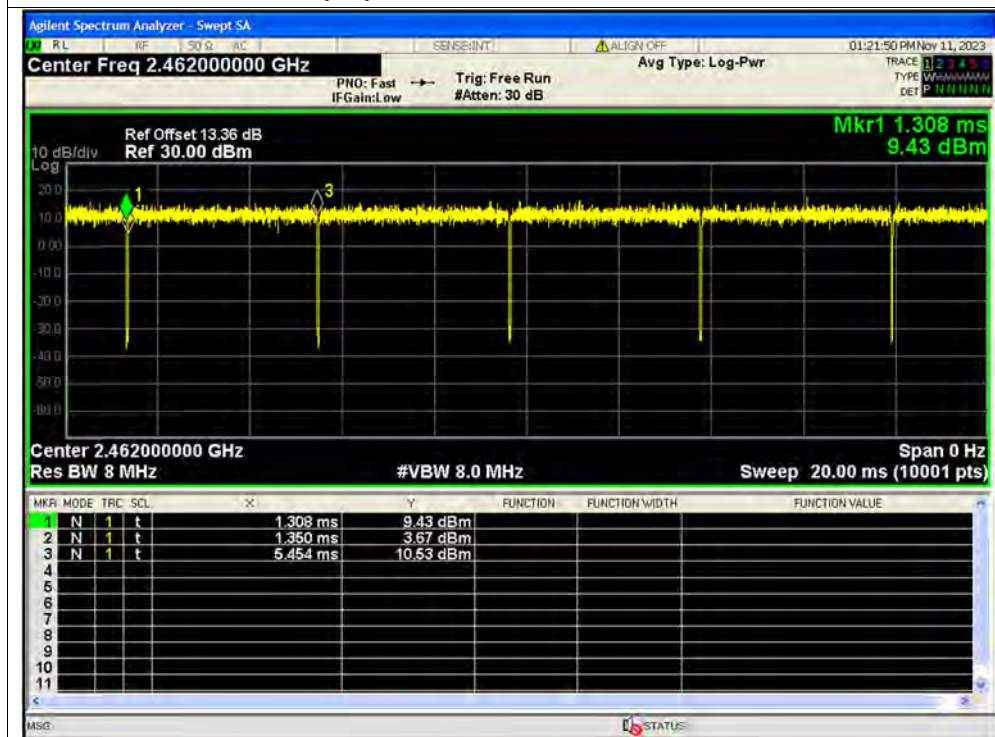




Duty Cycle NVNT ax40 2442MHz Sum

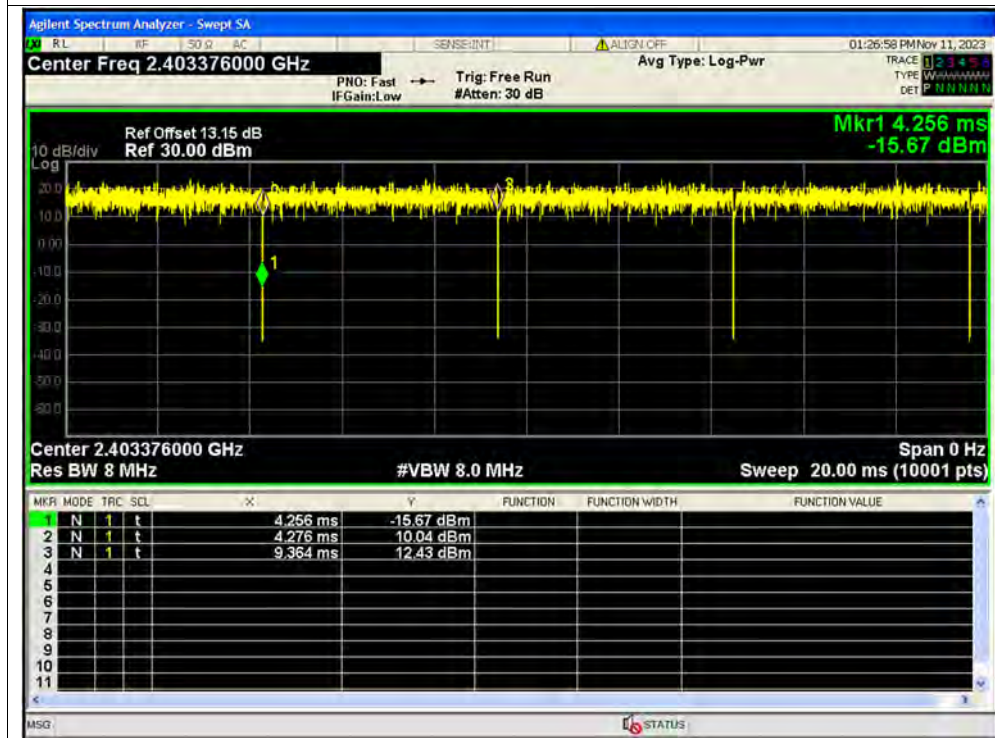


Duty Cycle NVNT ax40 2462MHz Sum

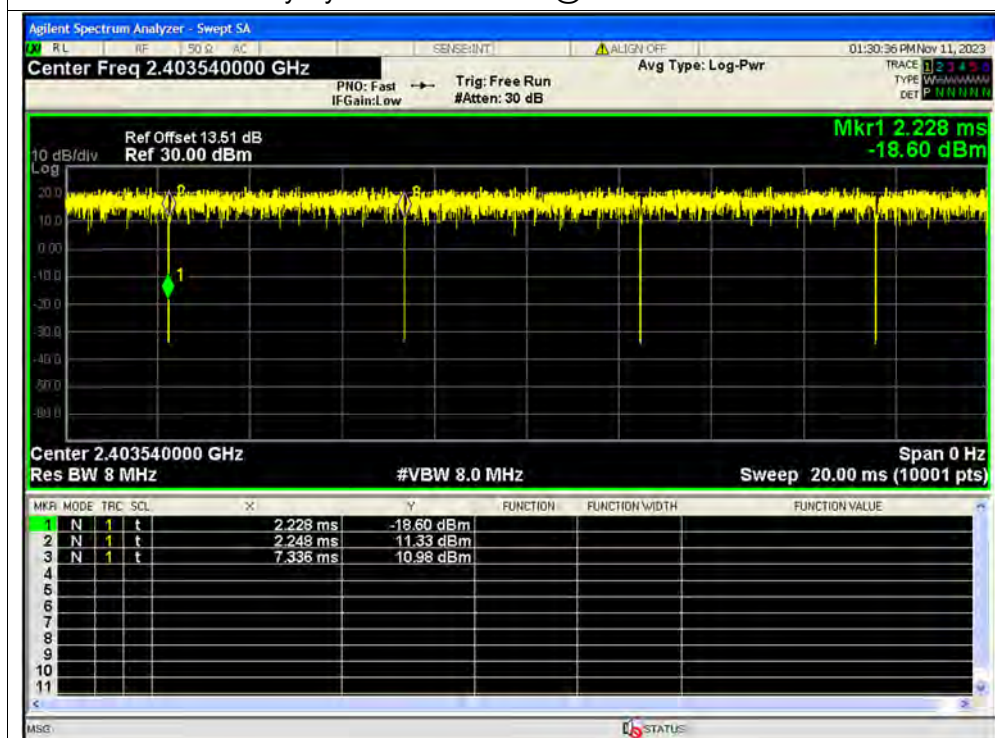




Duty Cycle NVNT ax20 26@0 2412MHz Ant1

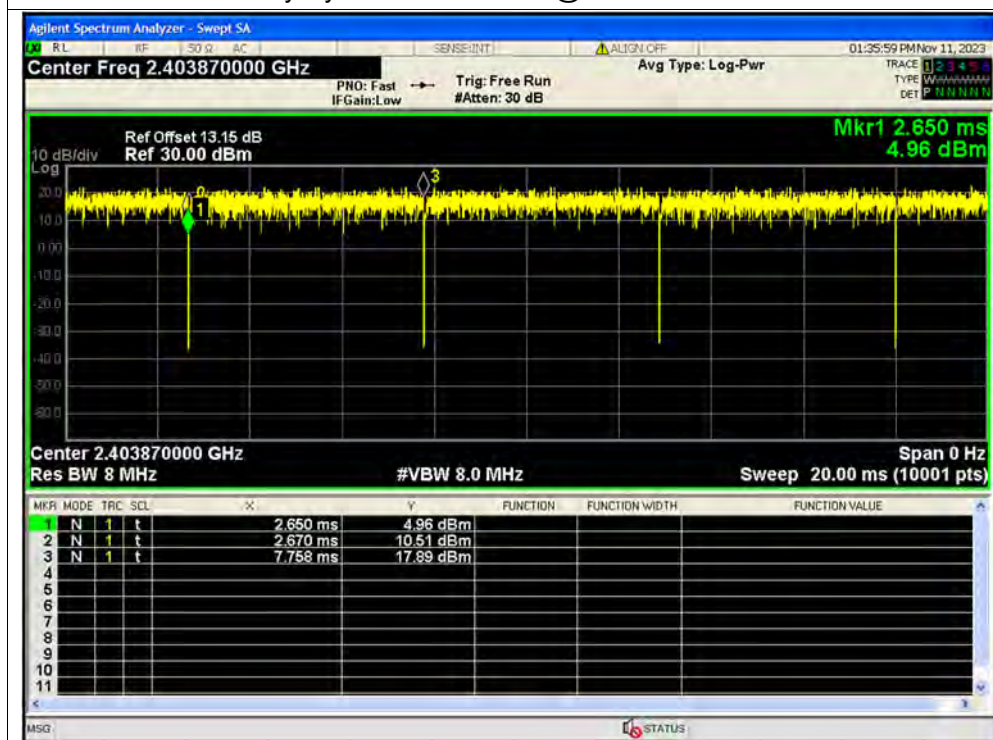


Duty Cycle NVNT ax20 26@0 2412MHz Ant2

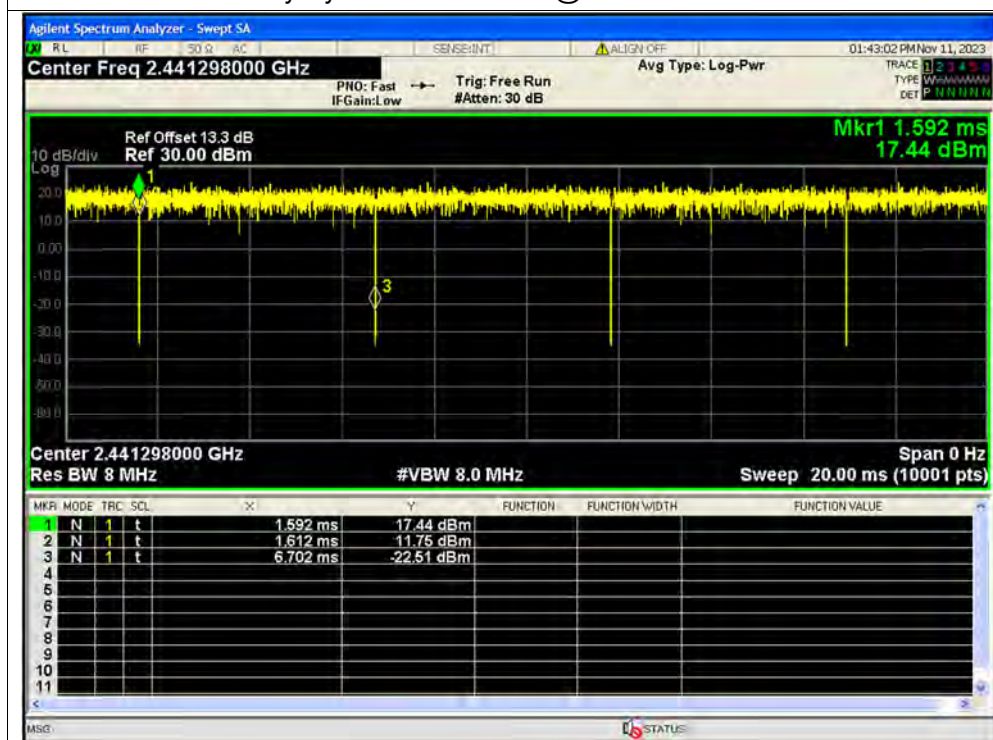




Duty Cycle NVNT ax20 26@0 2412MHz Sum

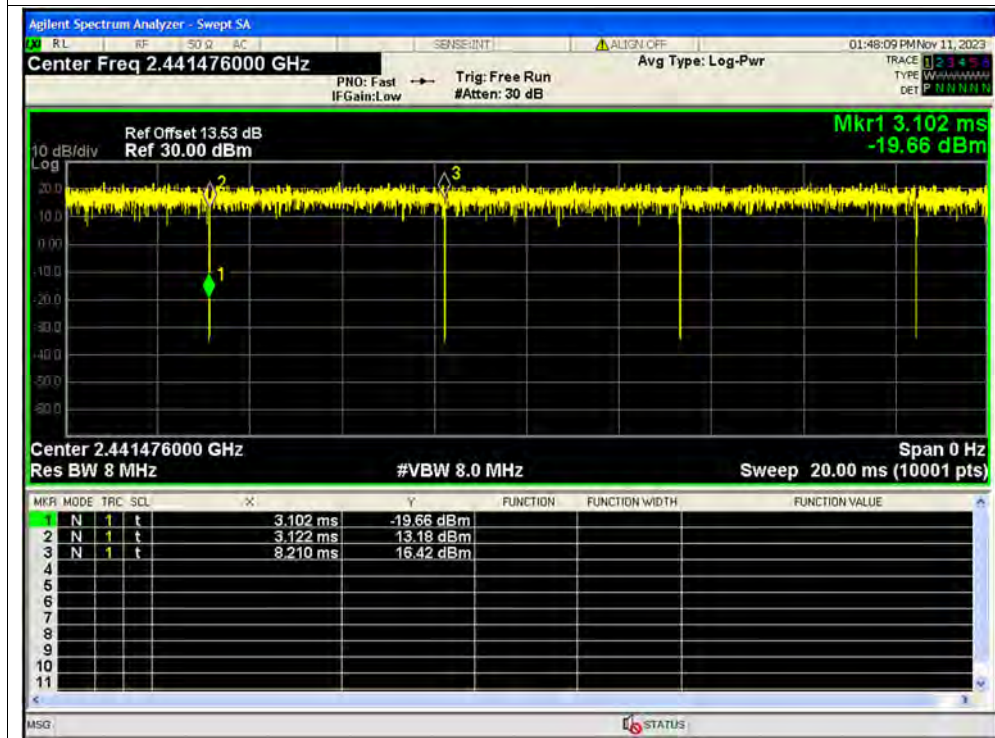


Duty Cycle NVNT ax20 26@4 2442MHz Ant1

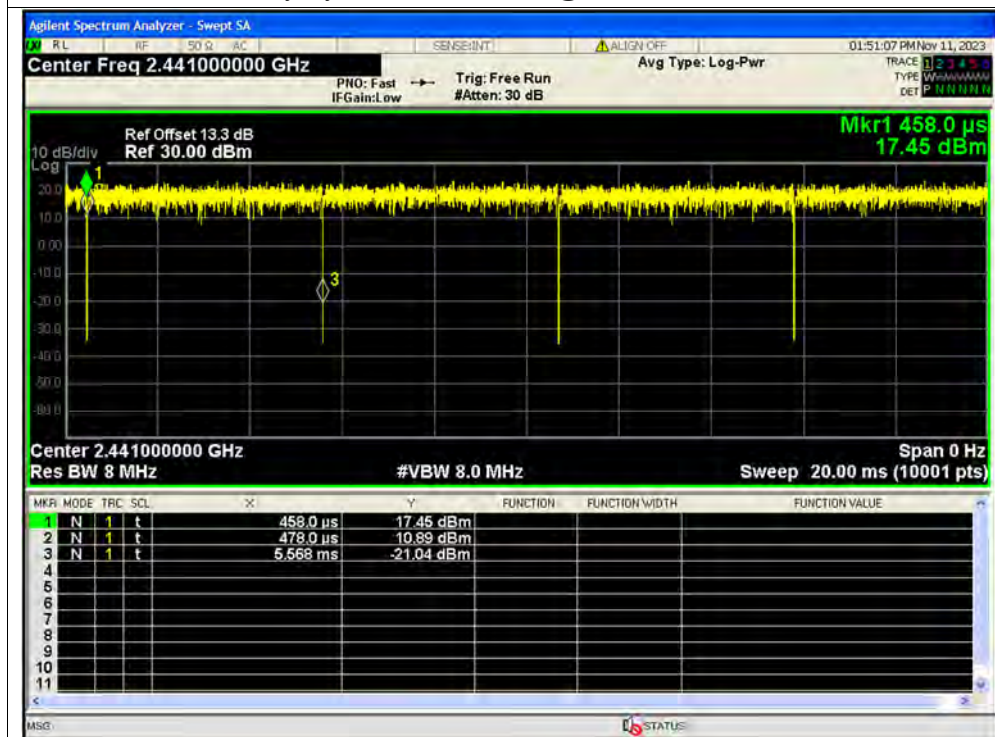




Duty Cycle NVNT ax20 26@4 2442MHz Ant2

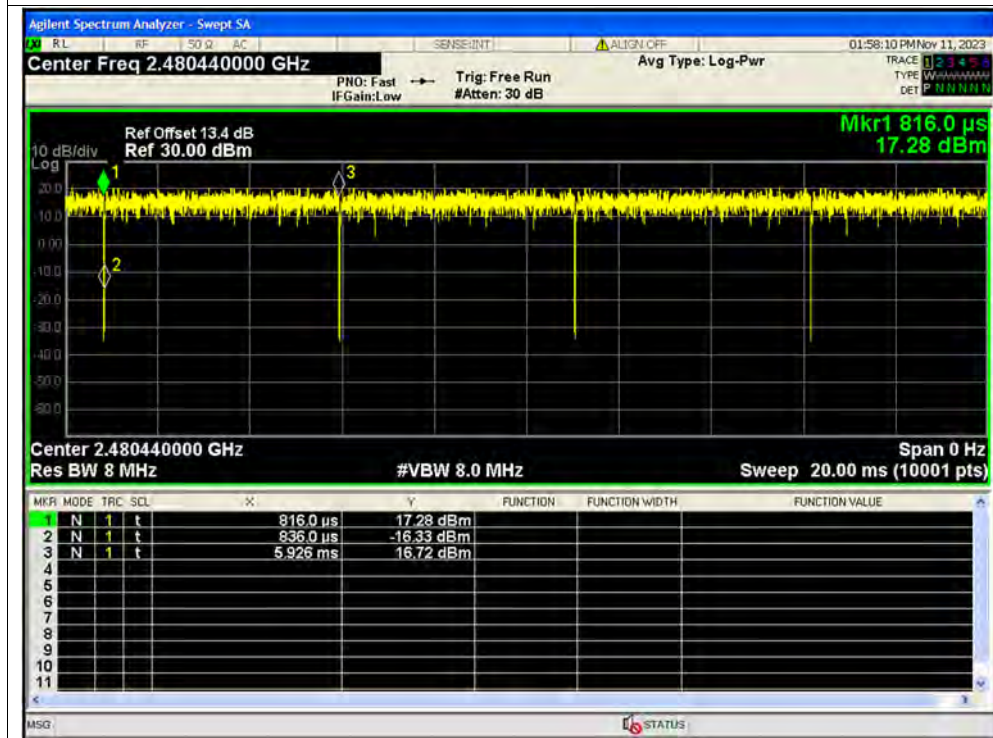


Duty Cycle NVNT ax20 26@4 2442MHz Sum

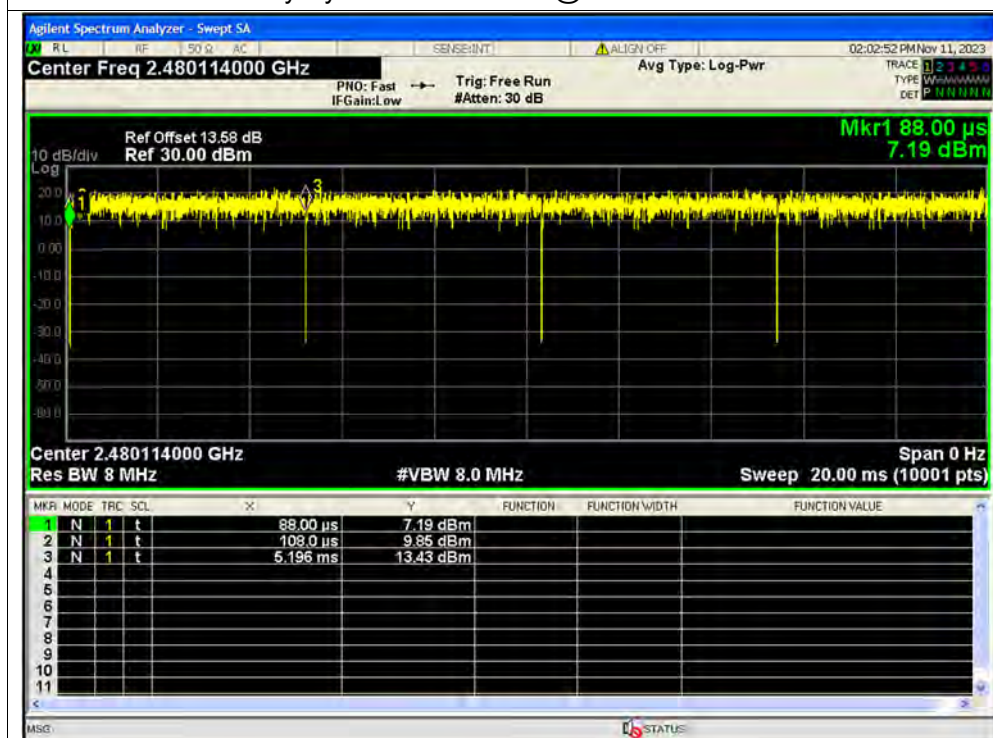




Duty Cycle NVNT ax20 26@8 2472MHz Ant1

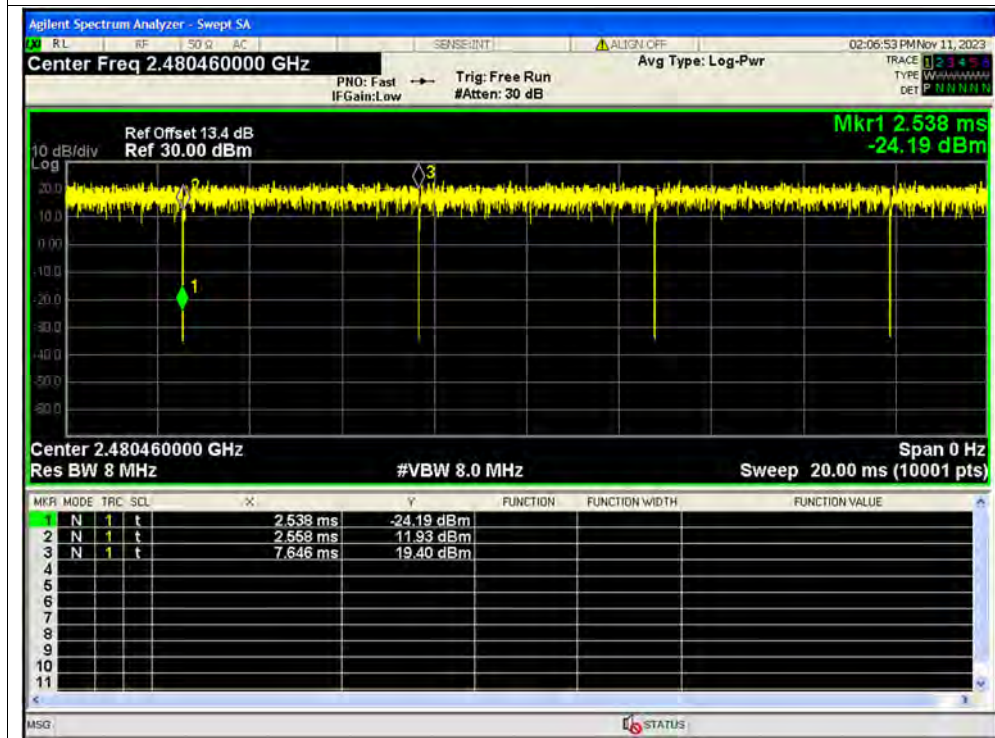


Duty Cycle NVNT ax20 26@8 2472MHz Ant2

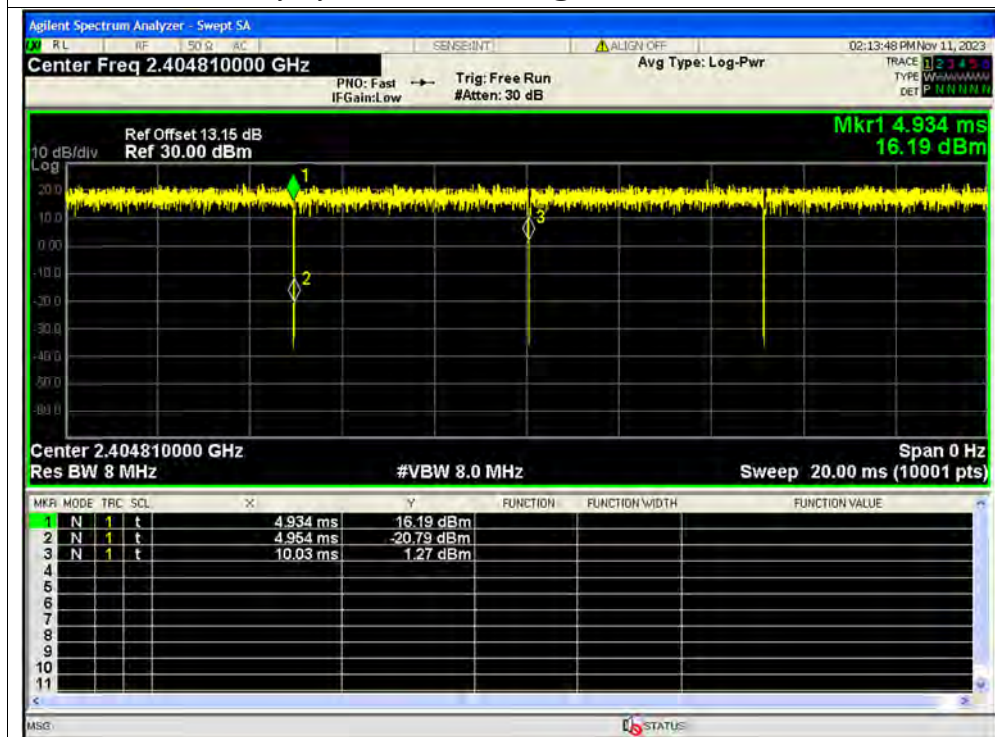




Duty Cycle NVNT ax20 26@8 2472MHz Sum

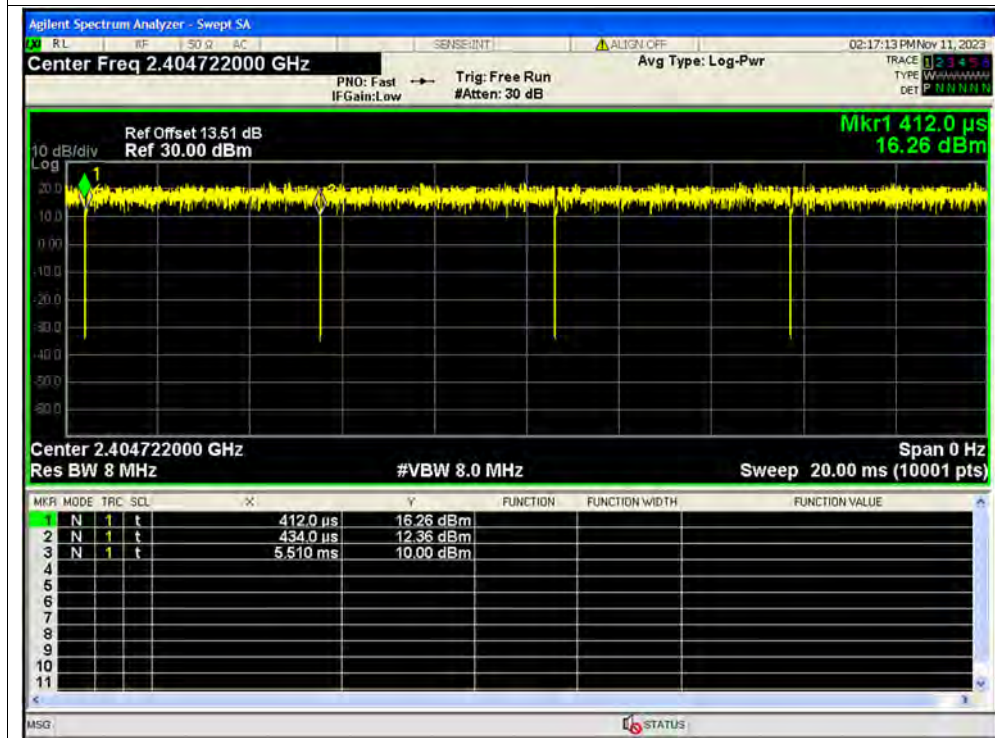


Duty Cycle NVNT ax20 52@37 2412MHz Ant1

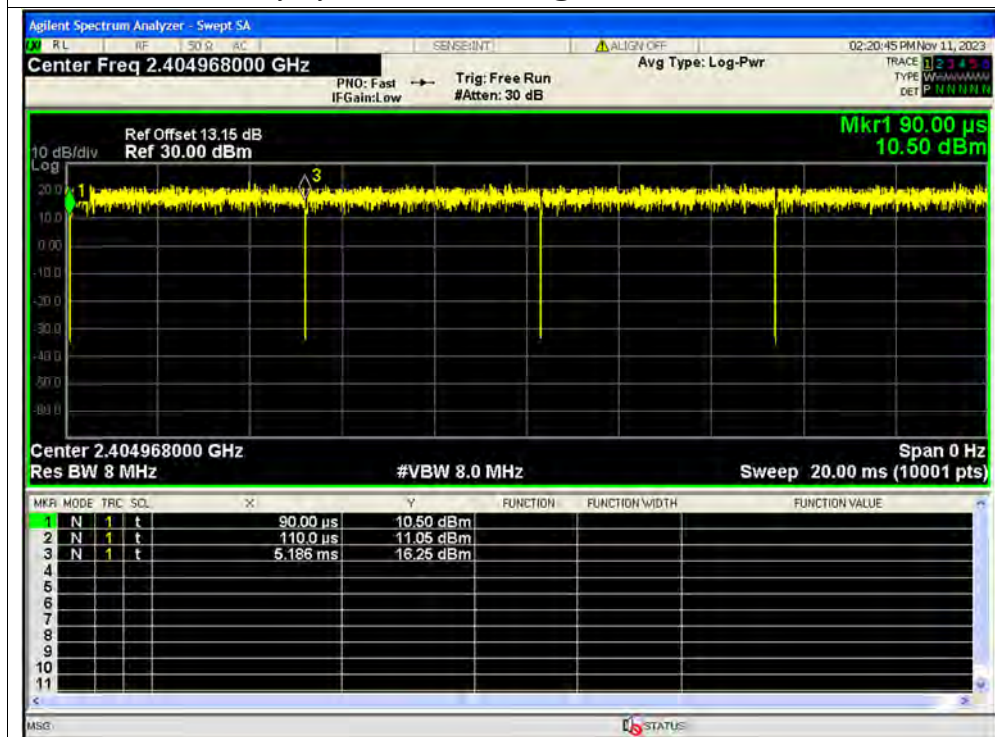




Duty Cycle NVNT ax20 52@37 2412MHz Ant2

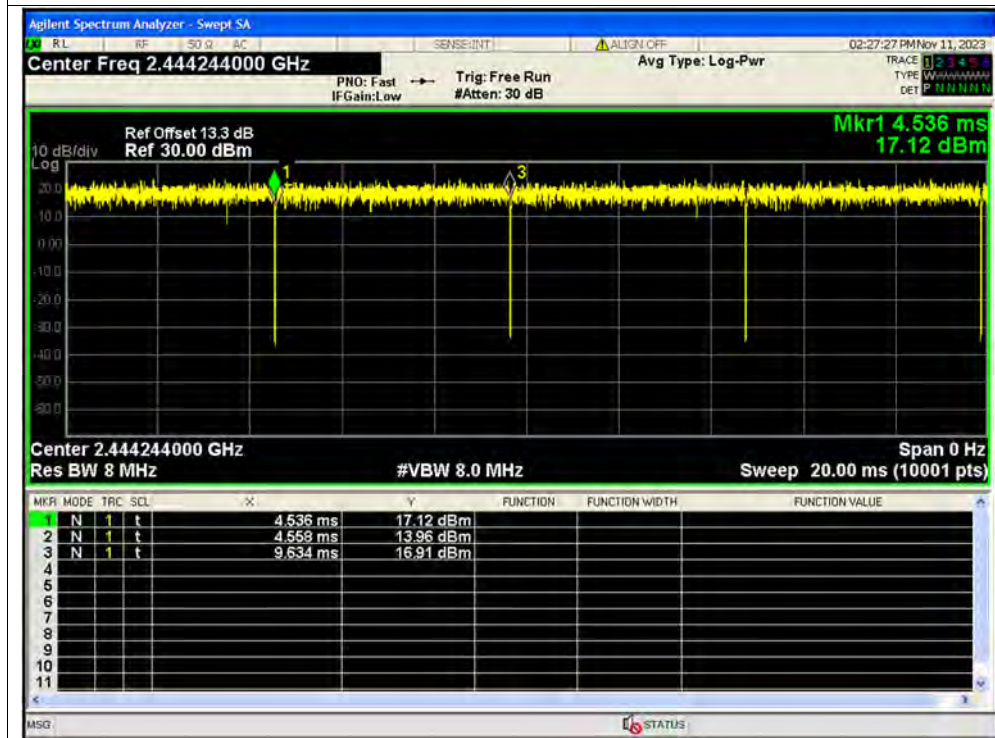


Duty Cycle NVNT ax20 52@37 2412MHz Sum

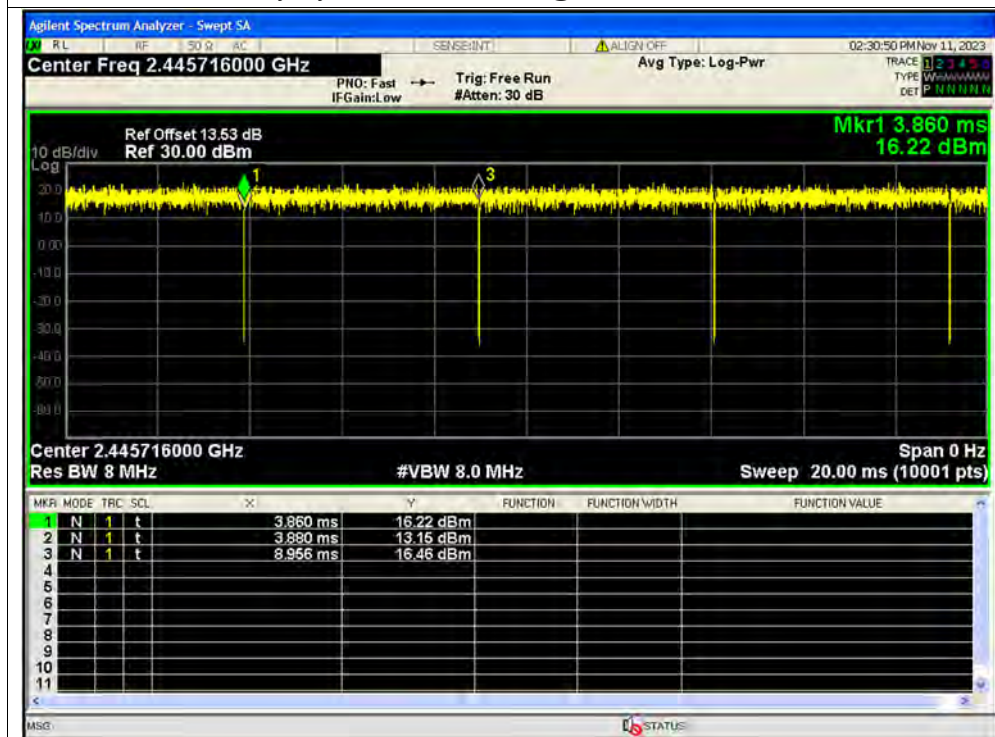




Duty Cycle NVNT ax20 52@38 2442MHz Ant1

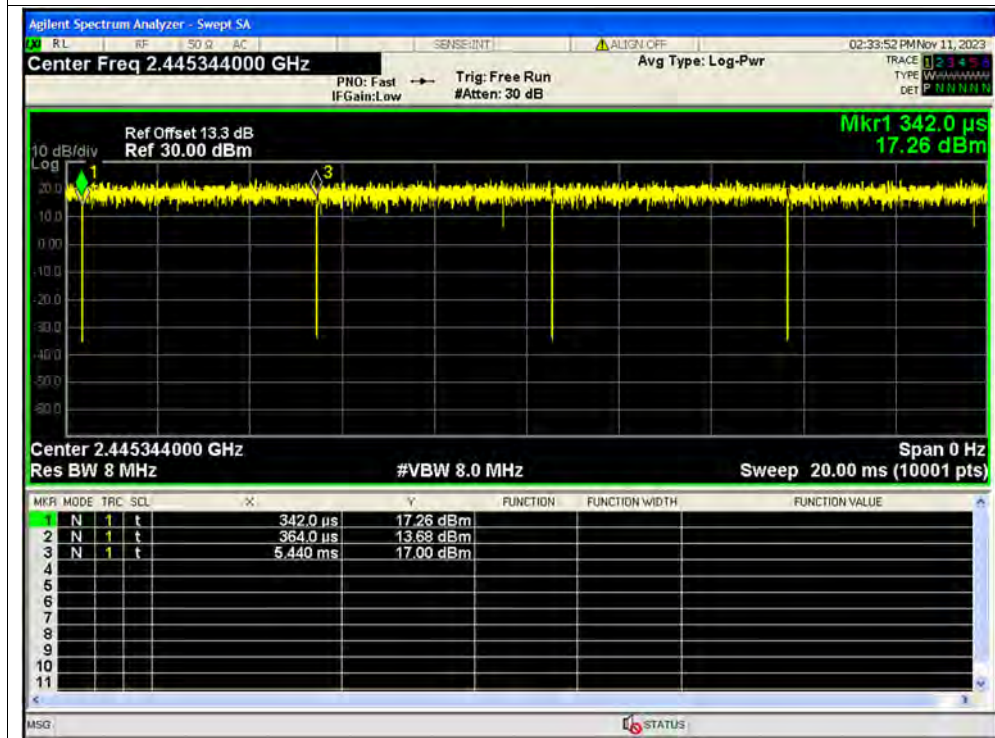


Duty Cycle NVNT ax20 52@38 2442MHz Ant2

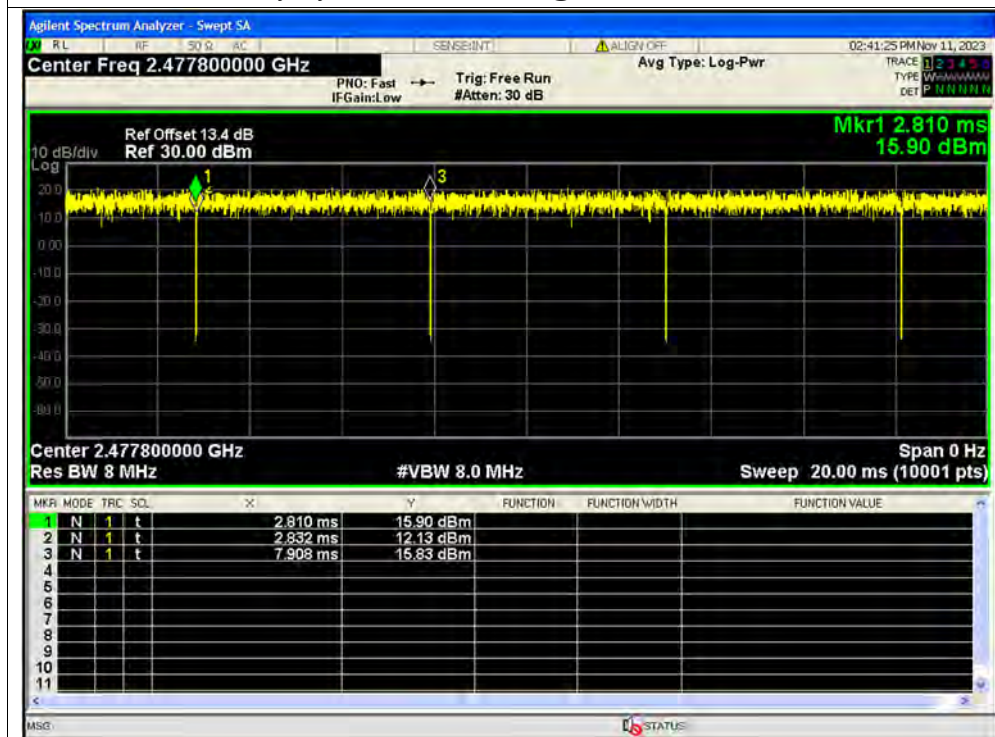




Duty Cycle NVNT ax20 52@38 2442MHz Sum

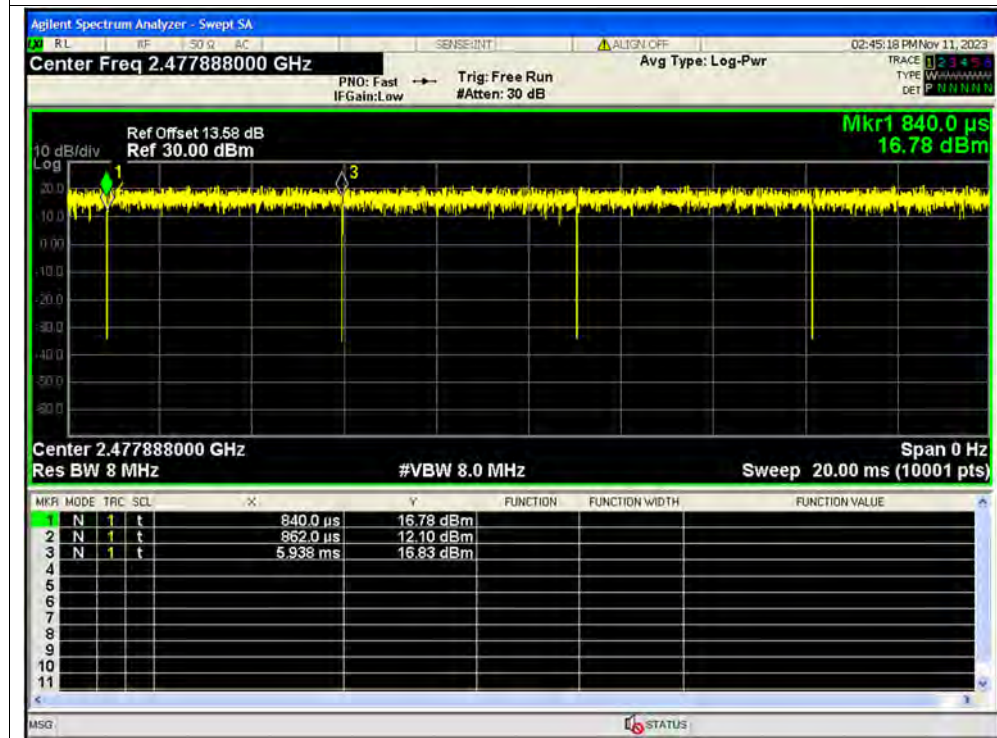


Duty Cycle NVNT ax20 52@40 2472MHz Ant1

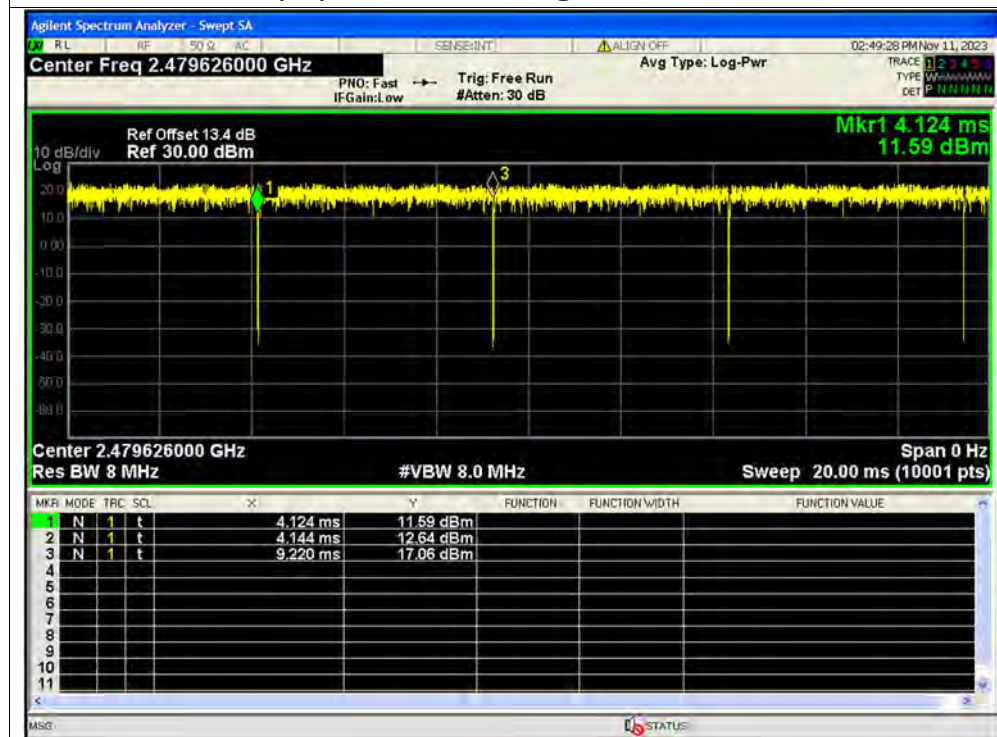




Duty Cycle NVNT ax20 52@40 2472MHz Ant2

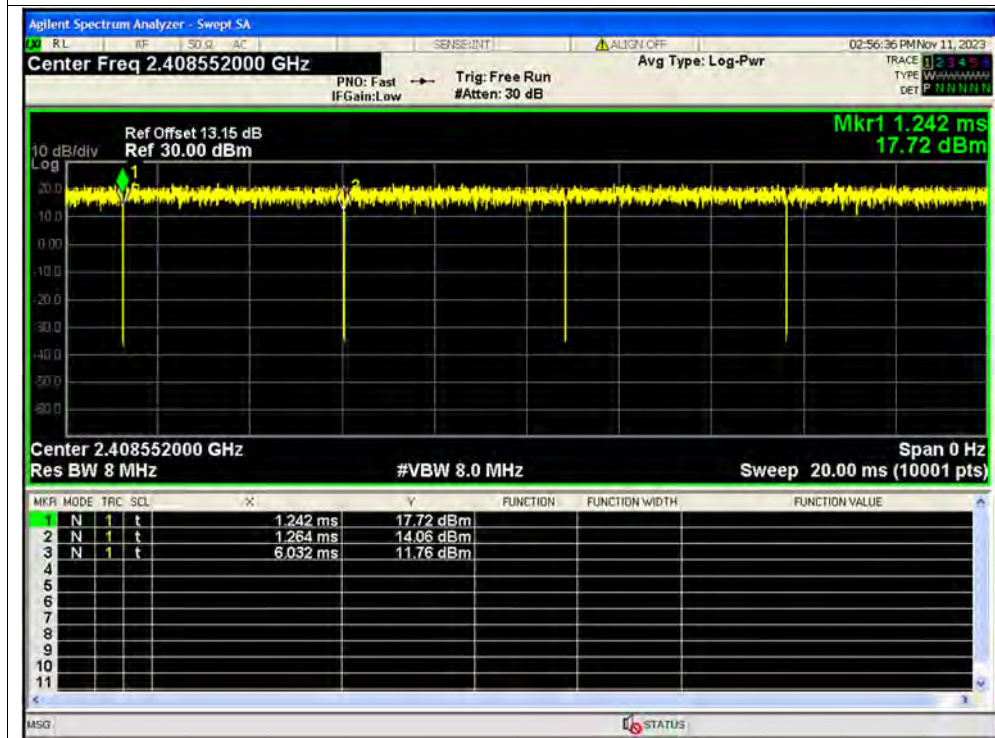


Duty Cycle NVNT ax20 52@40 2472MHz Sum

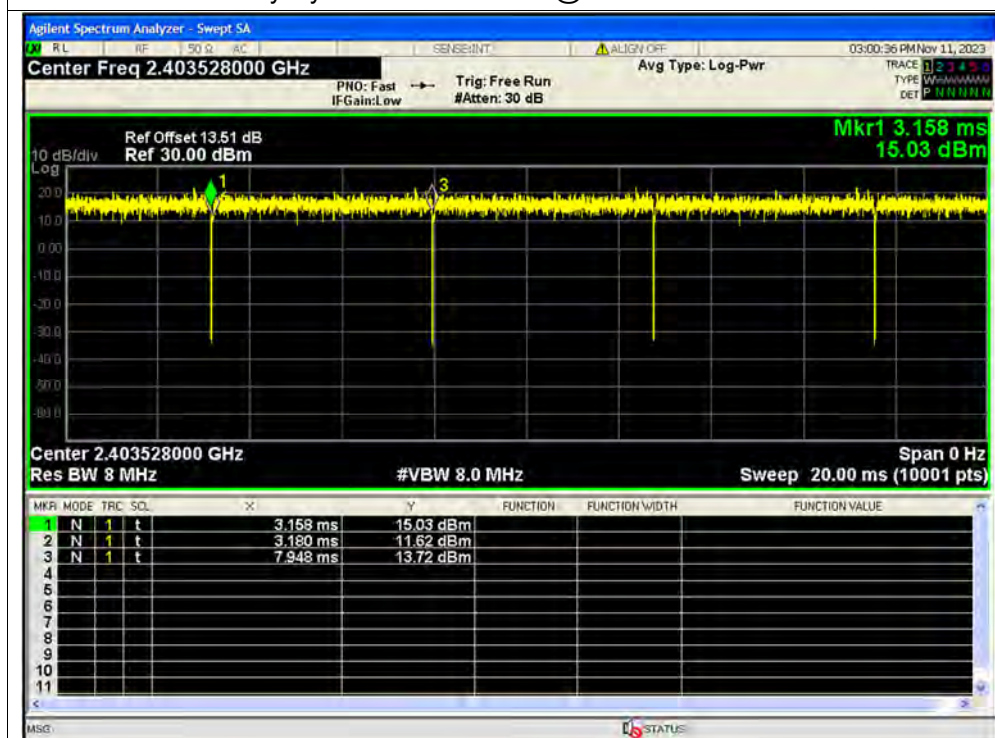




Duty Cycle NVNT ax20 106@53 2412MHz Ant1

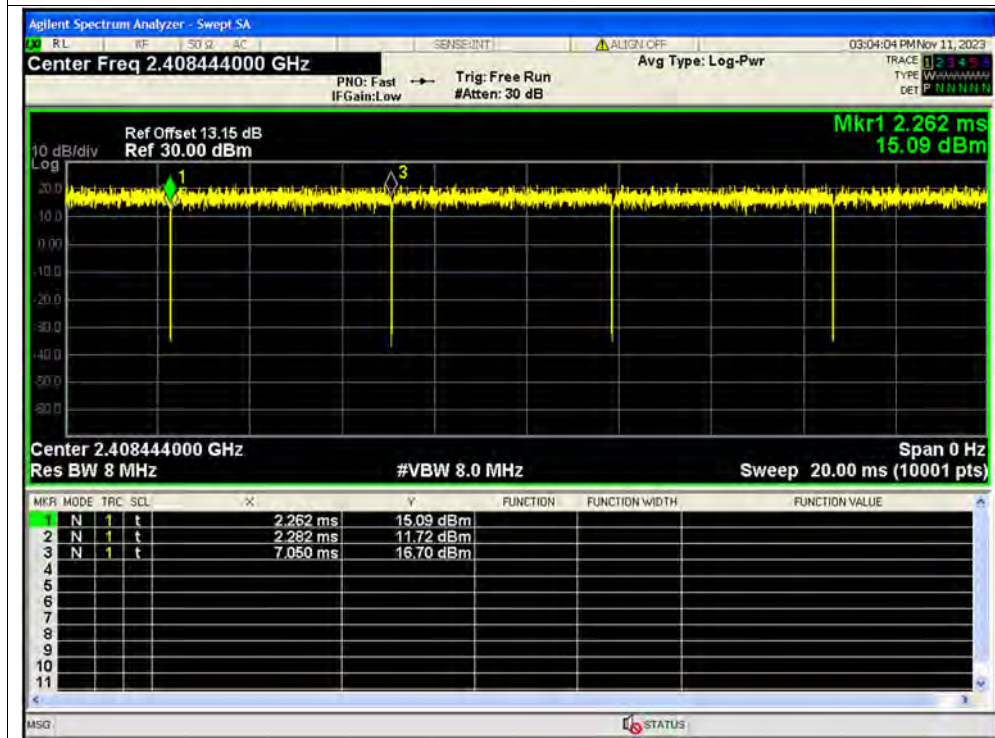


Duty Cycle NVNT ax20 106@53 2412MHz Ant2

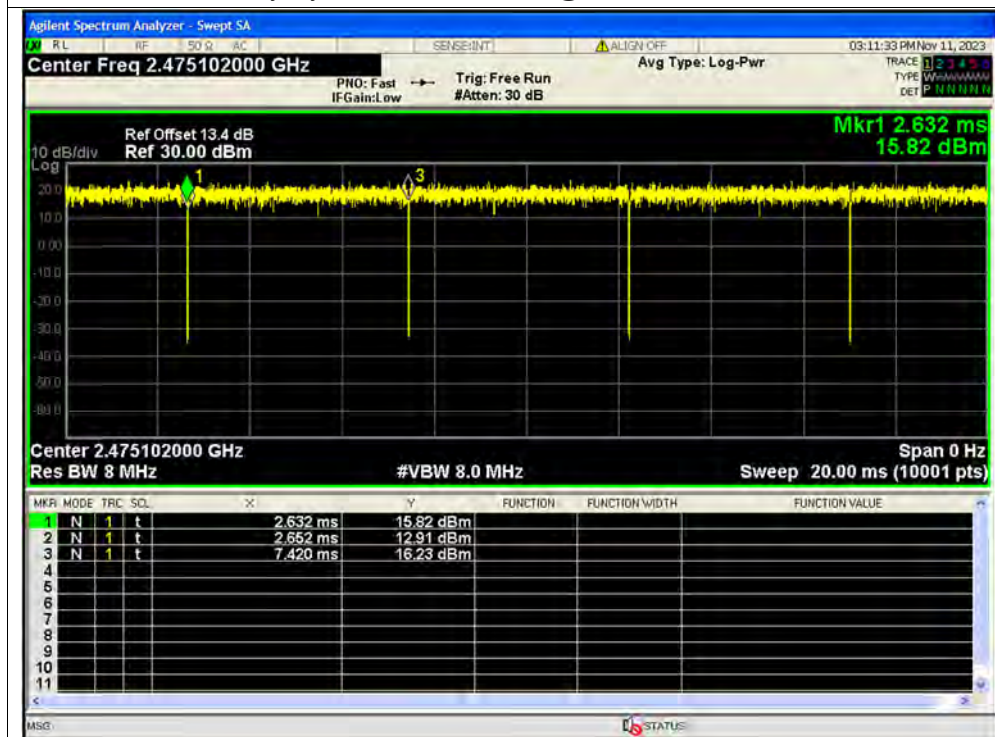




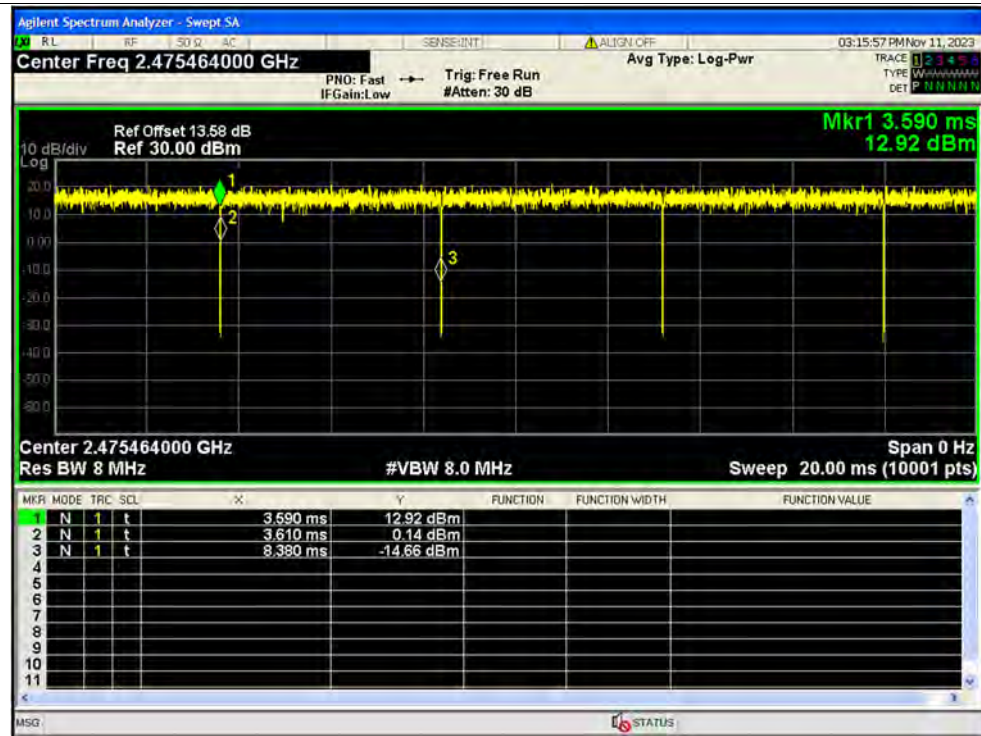
Duty Cycle NVNT ax20 106@53 2412MHz Sum



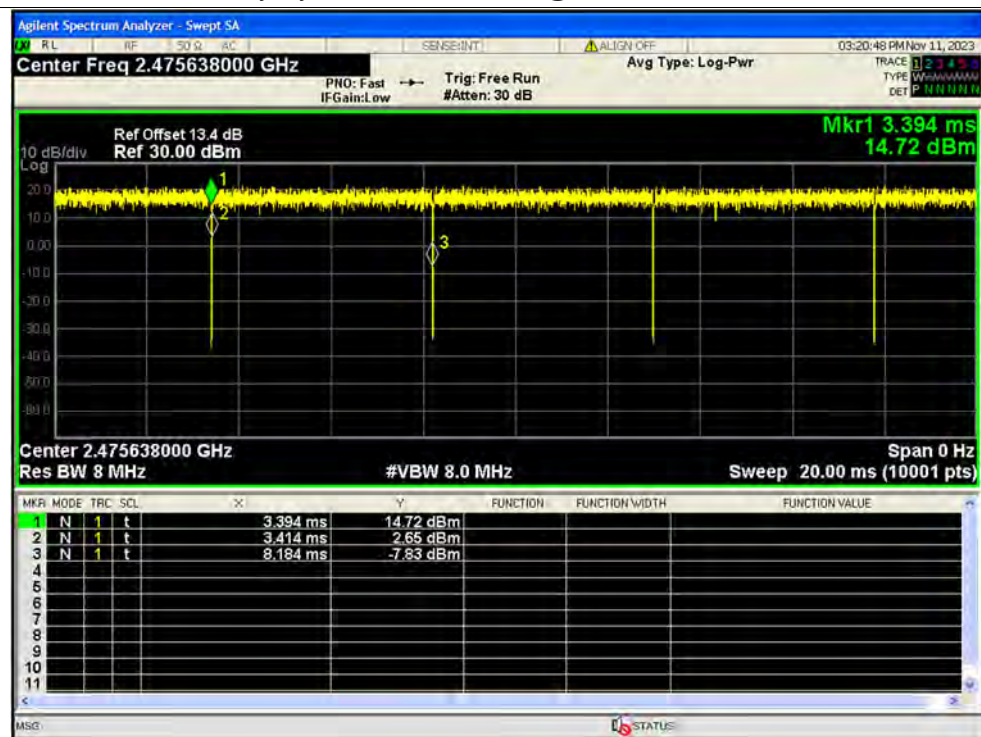
Duty Cycle NVNT ax20 106@54 2472MHz Ant1



Duty Cycle NVNT ax20 106@54 2472MHz Ant2

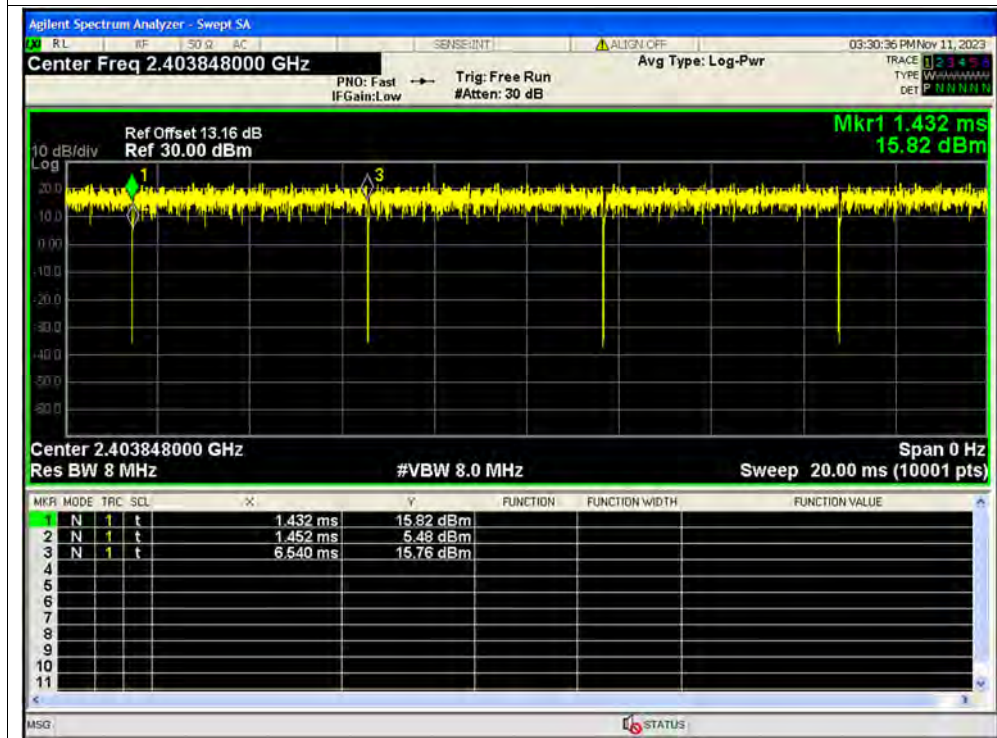


Duty Cycle NVNT ax20 106@54 2472MHz Sum

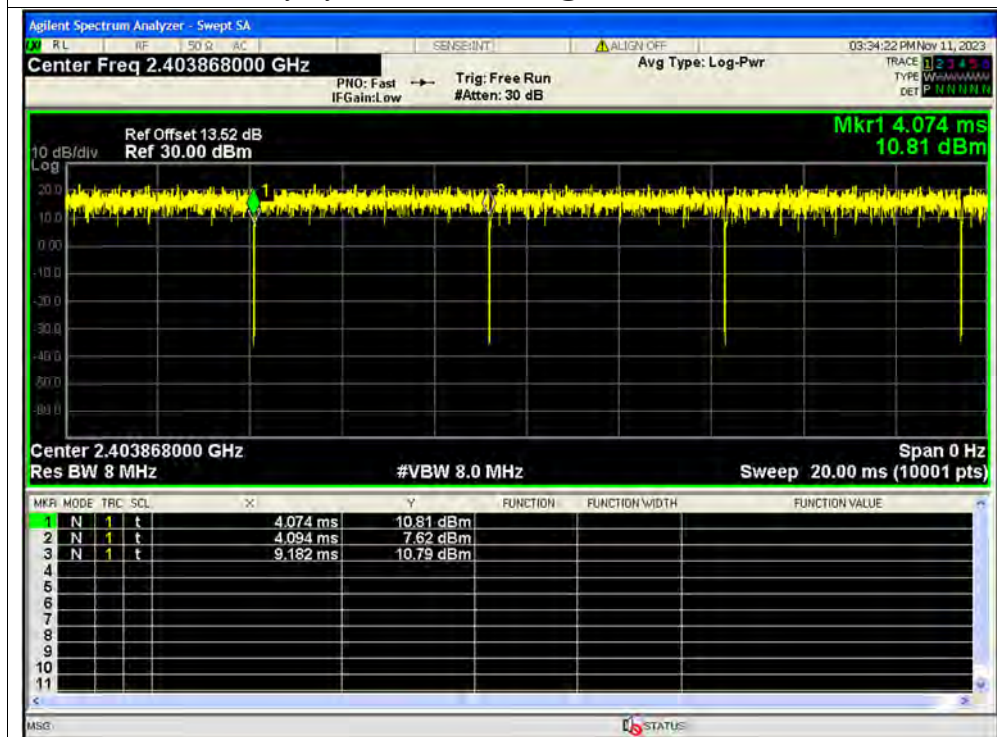




Duty Cycle NVNT ax40 26@0 2422MHz Ant1

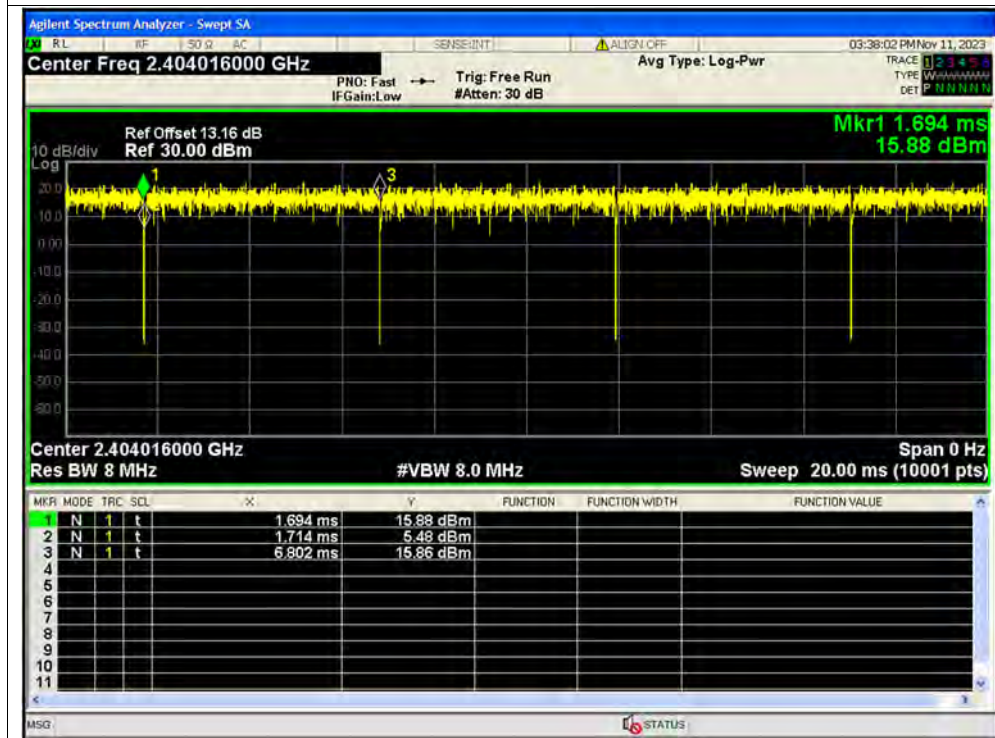


Duty Cycle NVNT ax40 26@0 2422MHz Ant2

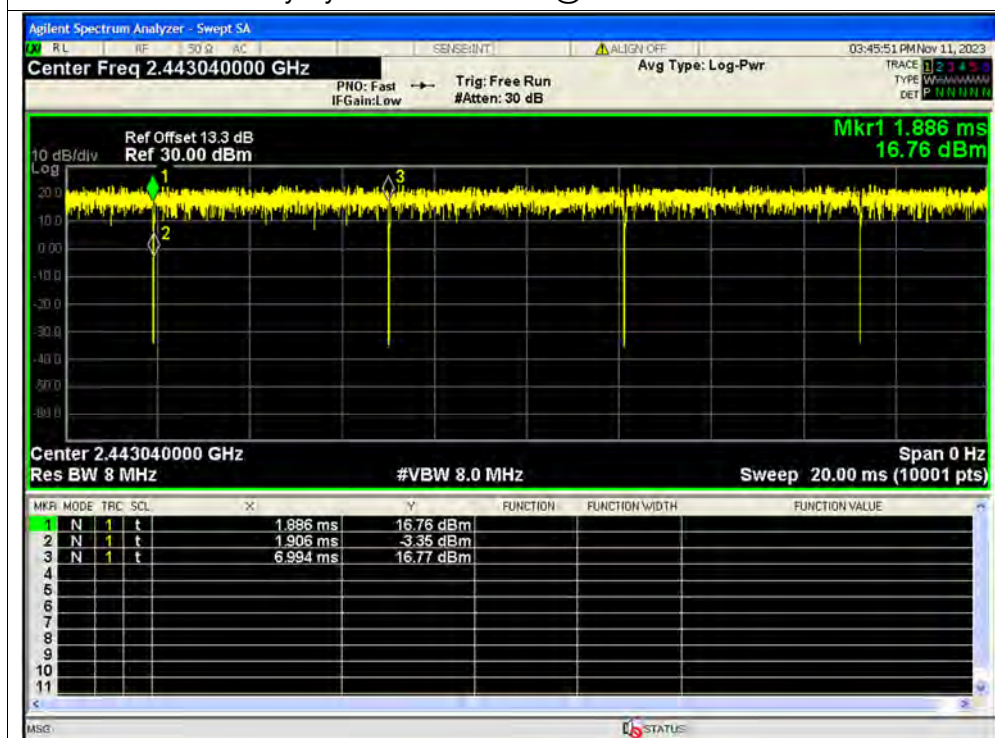




Duty Cycle NVNT ax40 26@0 2422MHz Sum

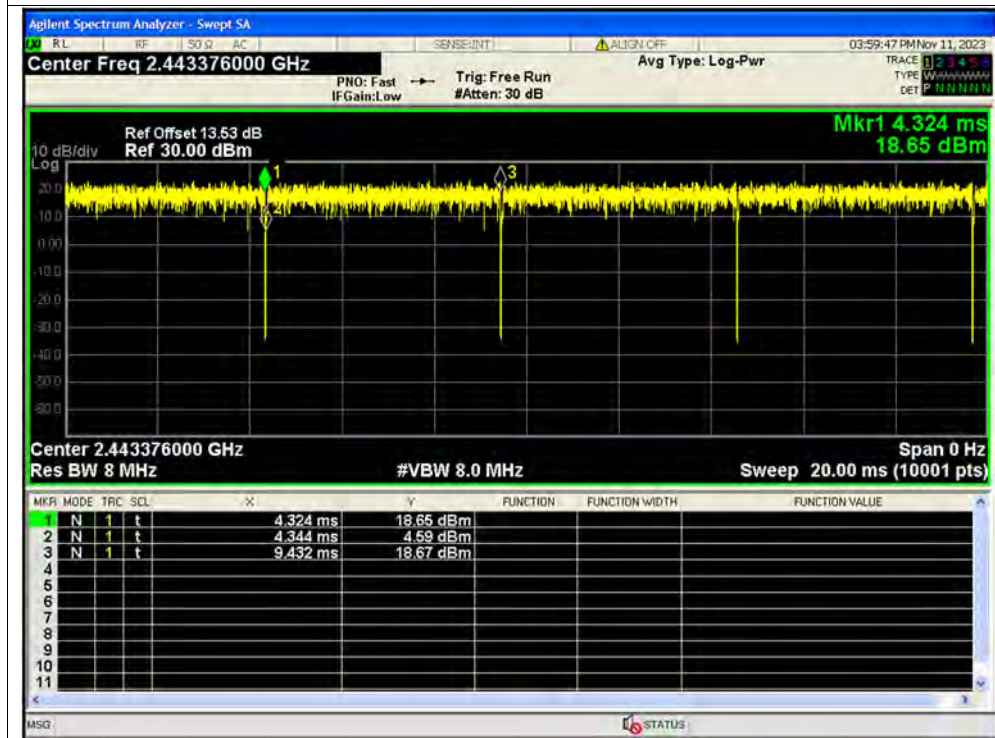


Duty Cycle NVNT ax40 26@8 2442MHz Ant1

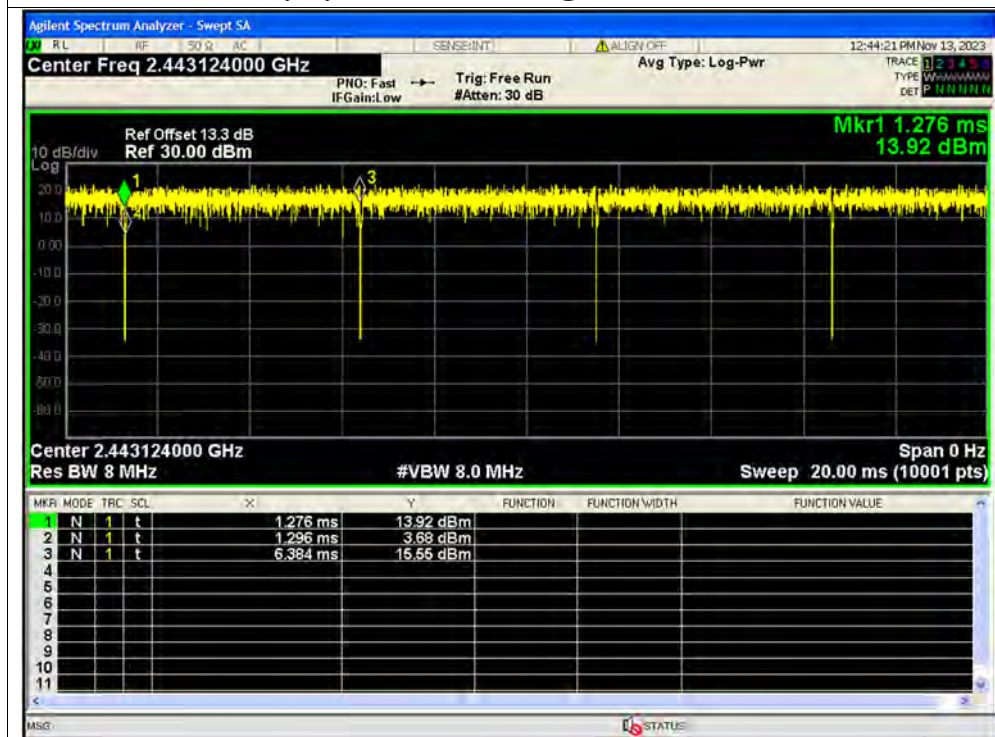




Duty Cycle NVNT ax40 26@8 2442MHz Ant2

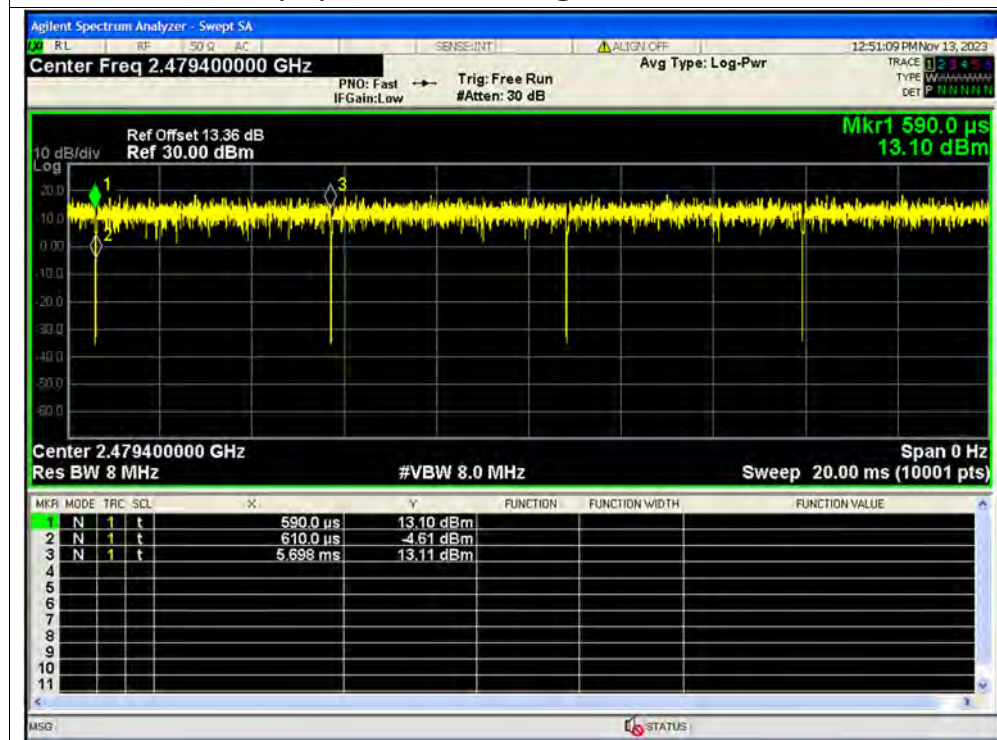


Duty Cycle NVNT ax40 26@8 2442MHz Sum

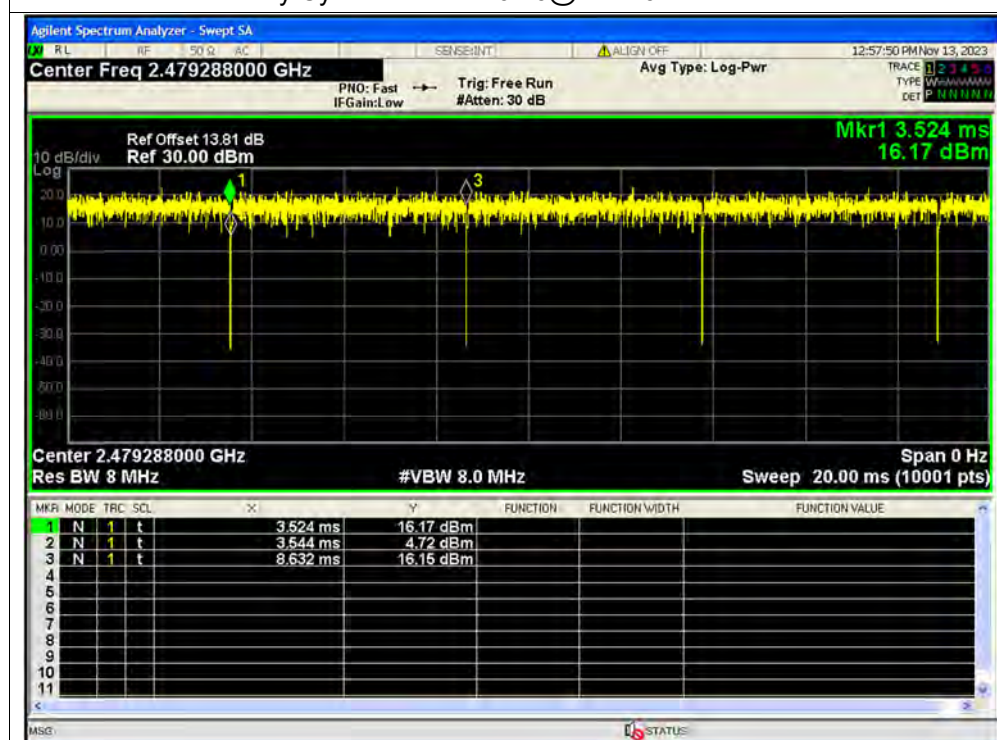




Duty Cycle NVNT ax40 26@17 2462MHz Ant1

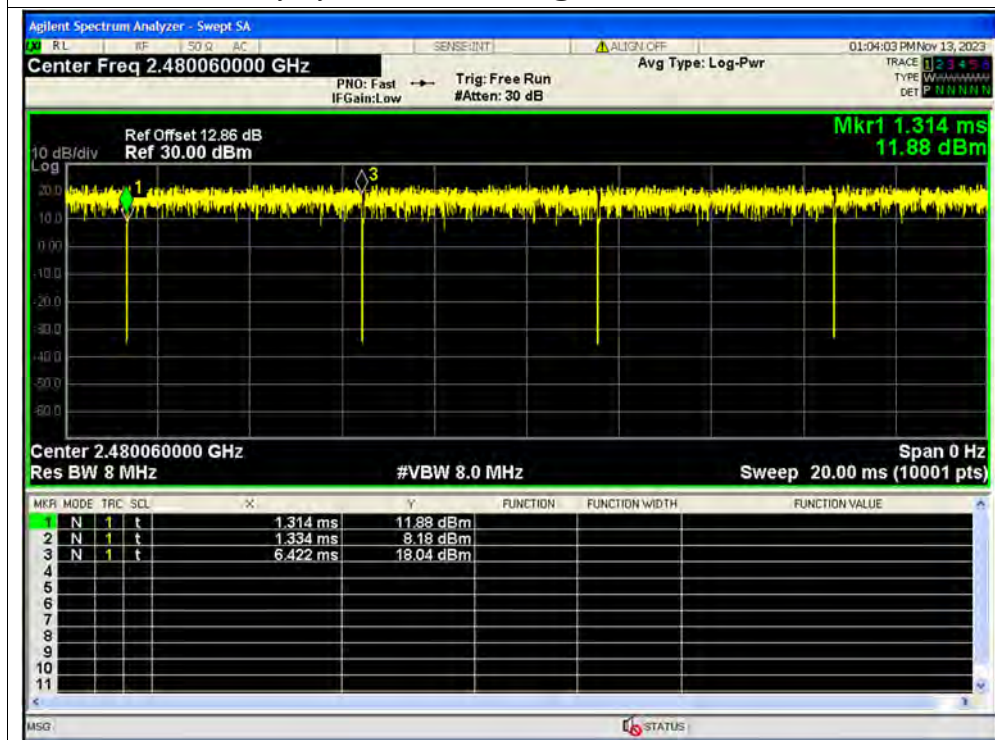


Duty Cycle NVNT ax40 26@17 2462MHz Ant2

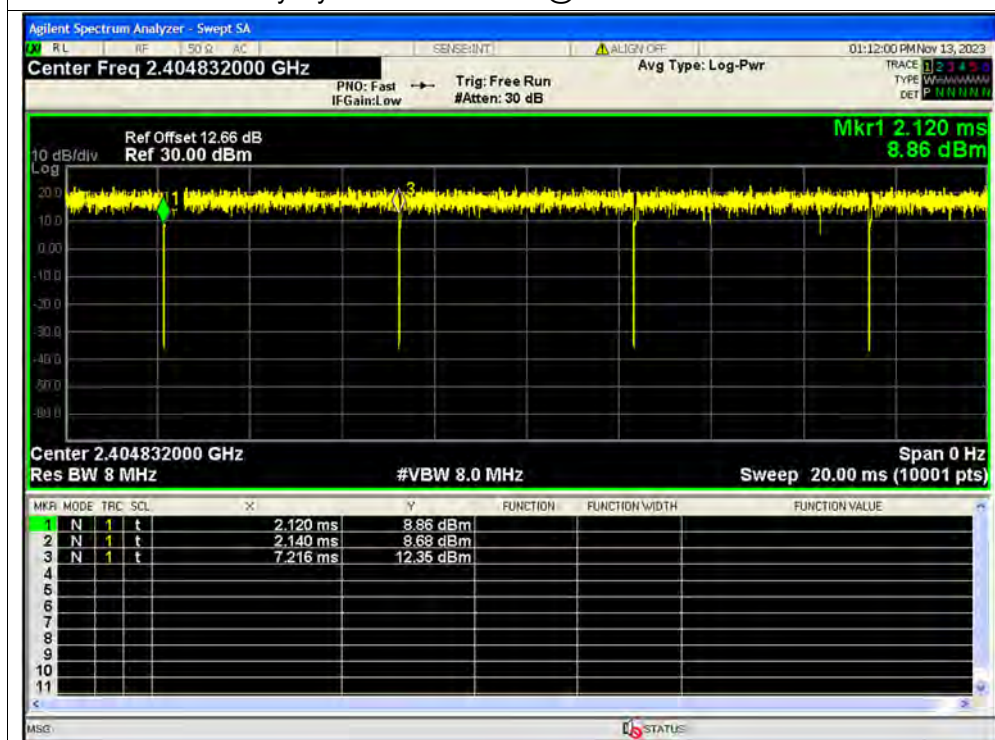




Duty Cycle NVNT ax40 26@17 2462MHz Sum

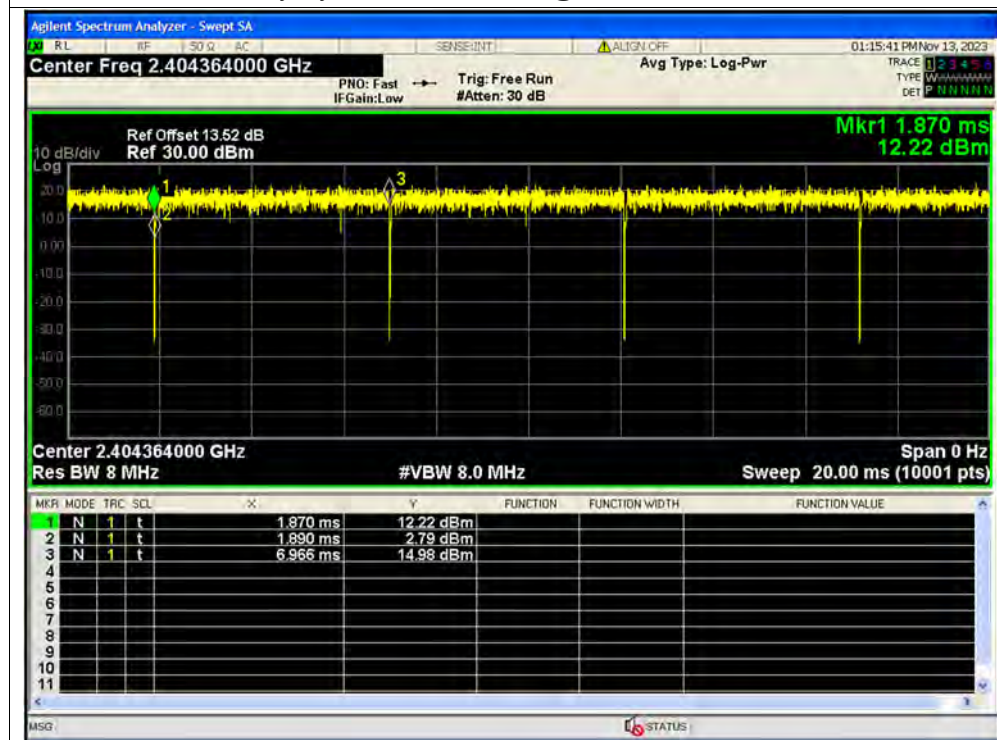


Duty Cycle NVNT ax40 52@37 2422MHz Ant1

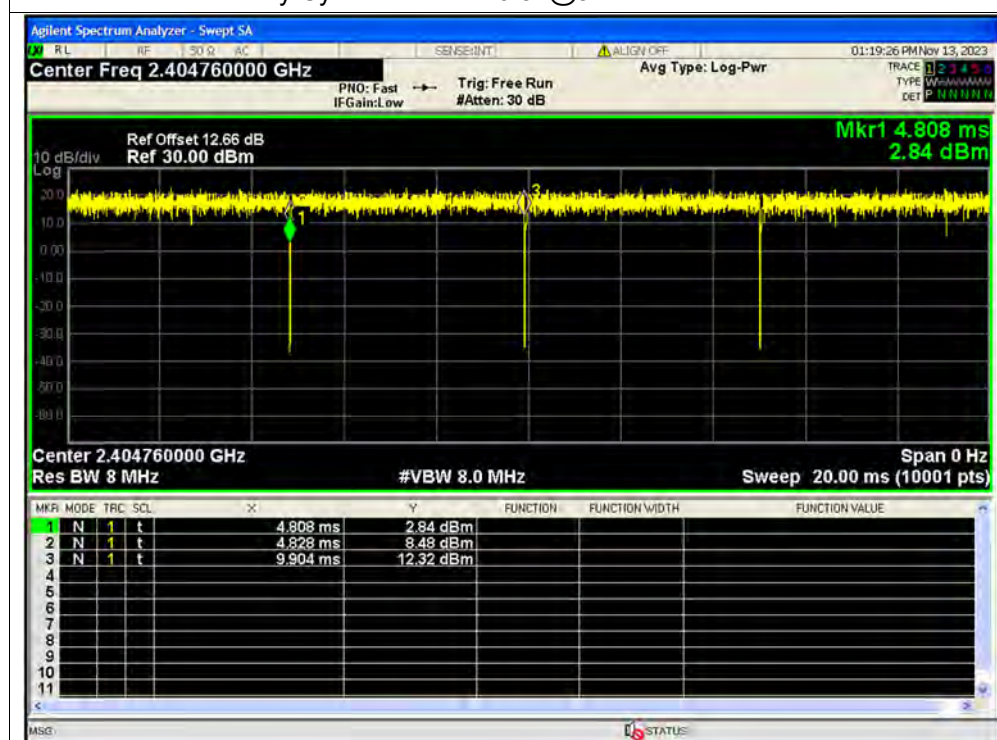




Duty Cycle NVNT ax40 52@37 2422MHz Ant2

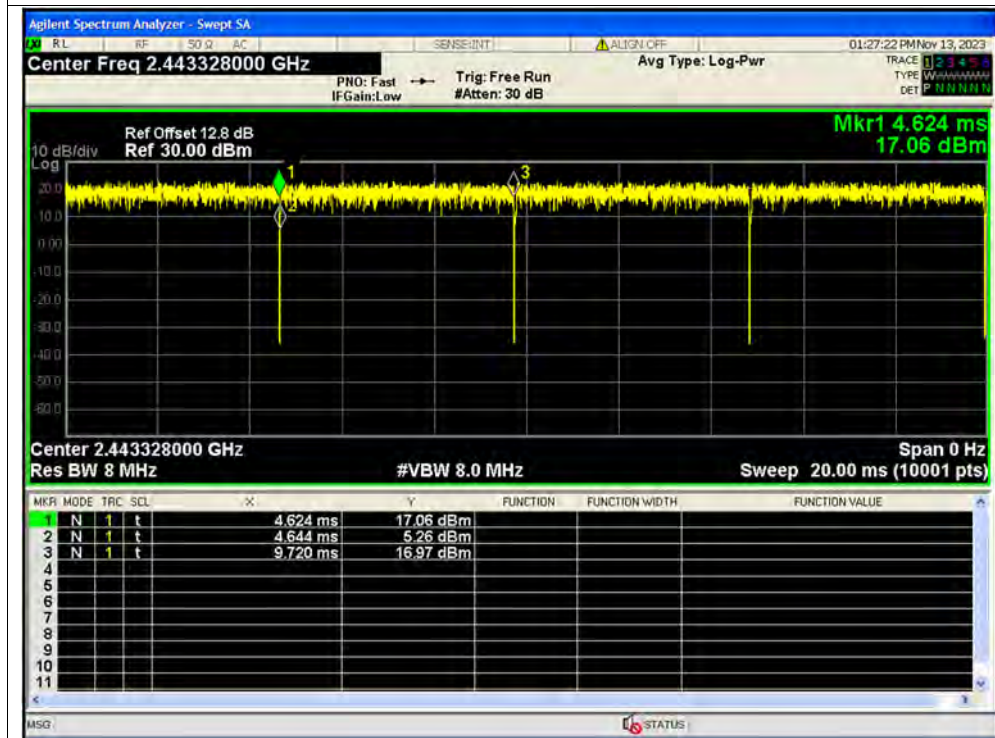


Duty Cycle NVNT ax40 52@37 2422MHz Sum

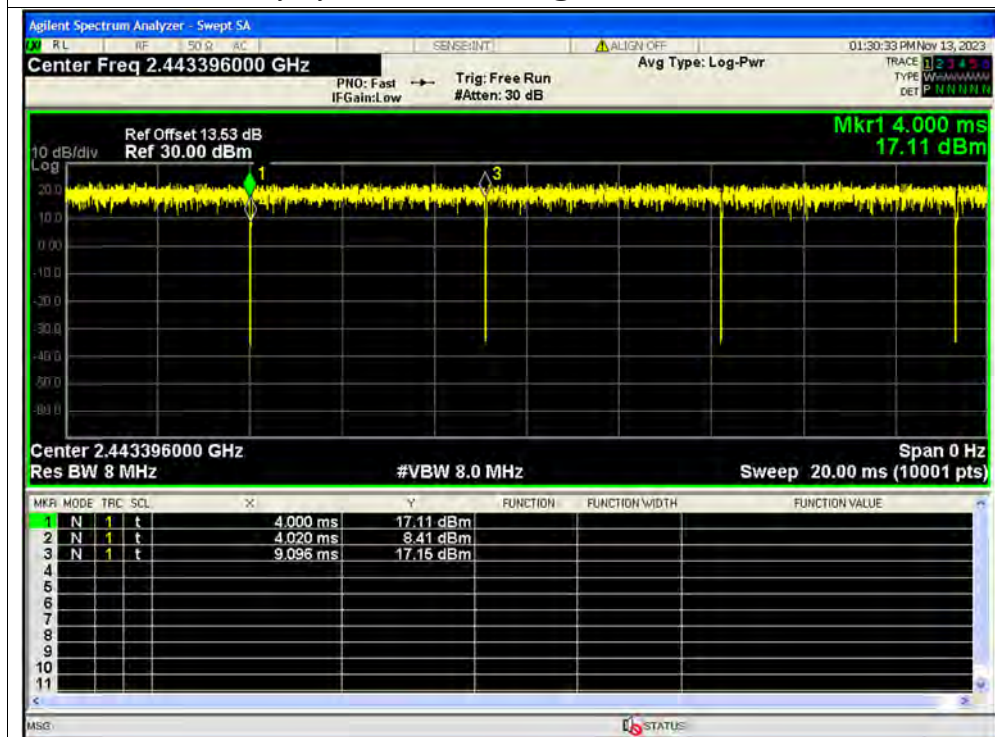




Duty Cycle NVNT ax40 52@40 2442MHz Ant1

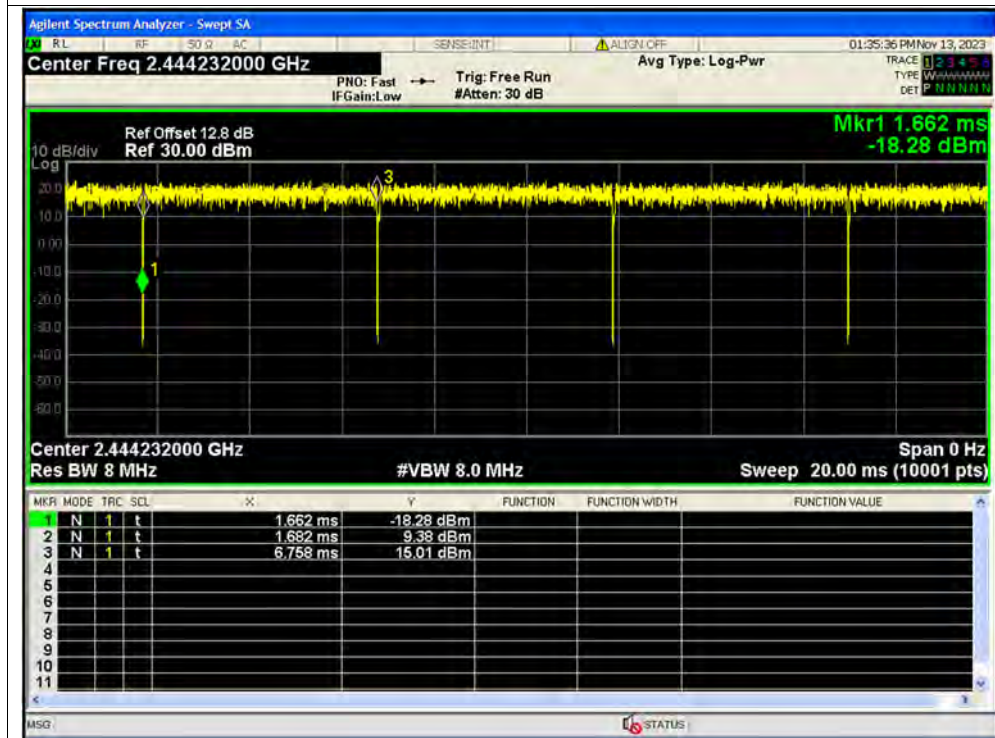


Duty Cycle NVNT ax40 52@40 2442MHz Ant2

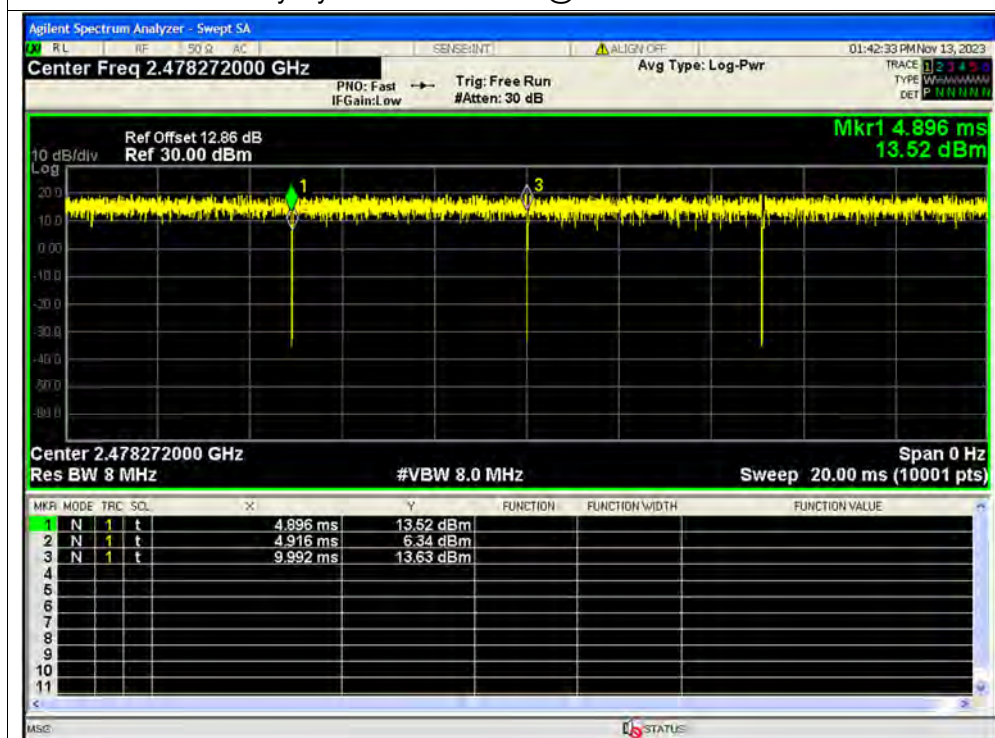




Duty Cycle NVNT ax40 52@40 2442MHz Sum

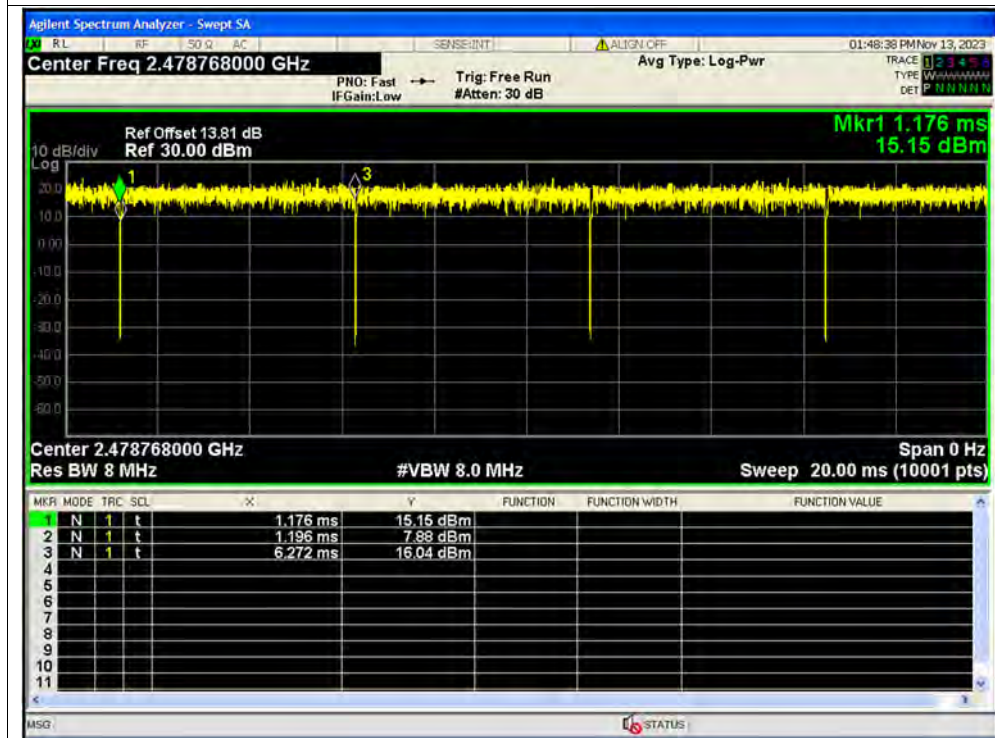


Duty Cycle NVNT ax40 52@44 2462MHz Ant1

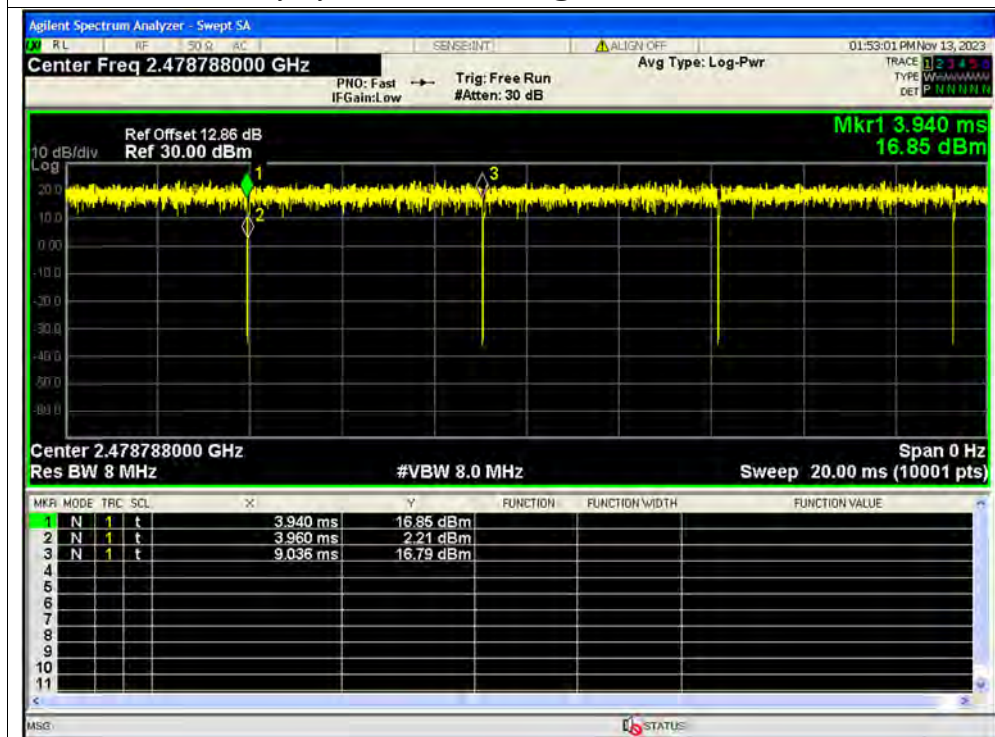




Duty Cycle NVNT ax40 52@44 2462MHz Ant2

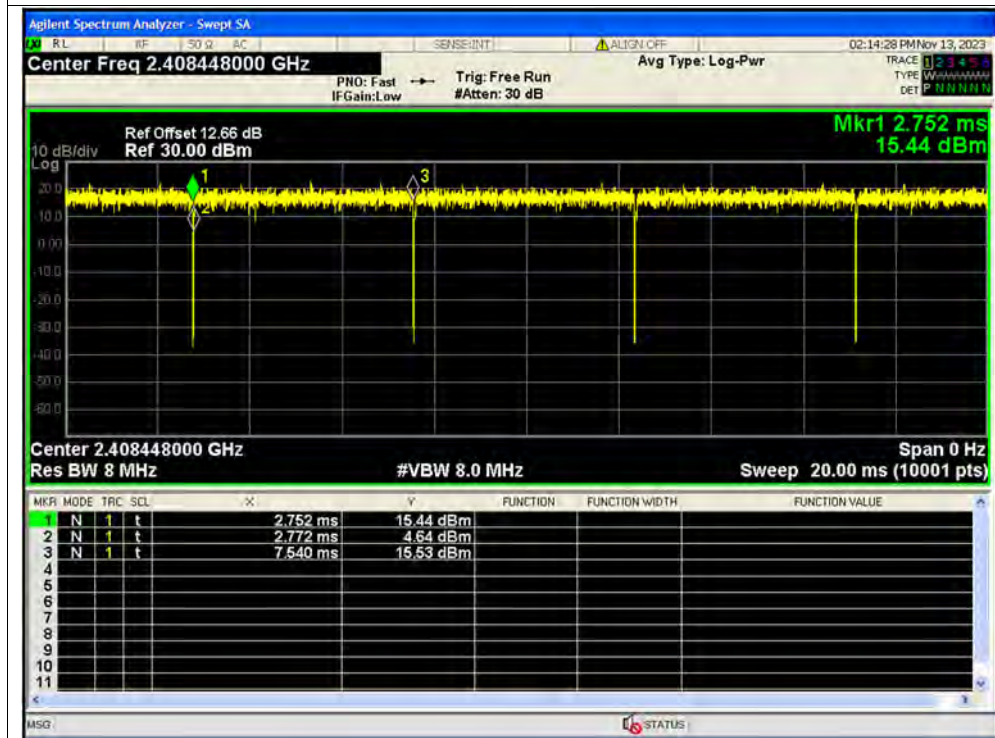


Duty Cycle NVNT ax40 52@44 2462MHz Sum

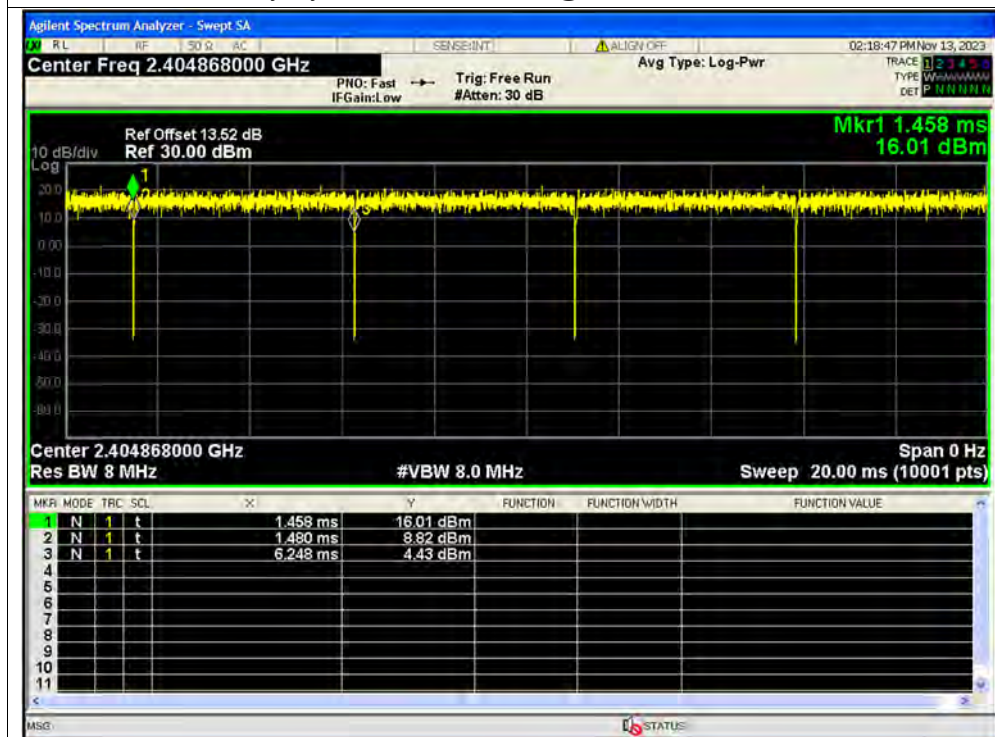




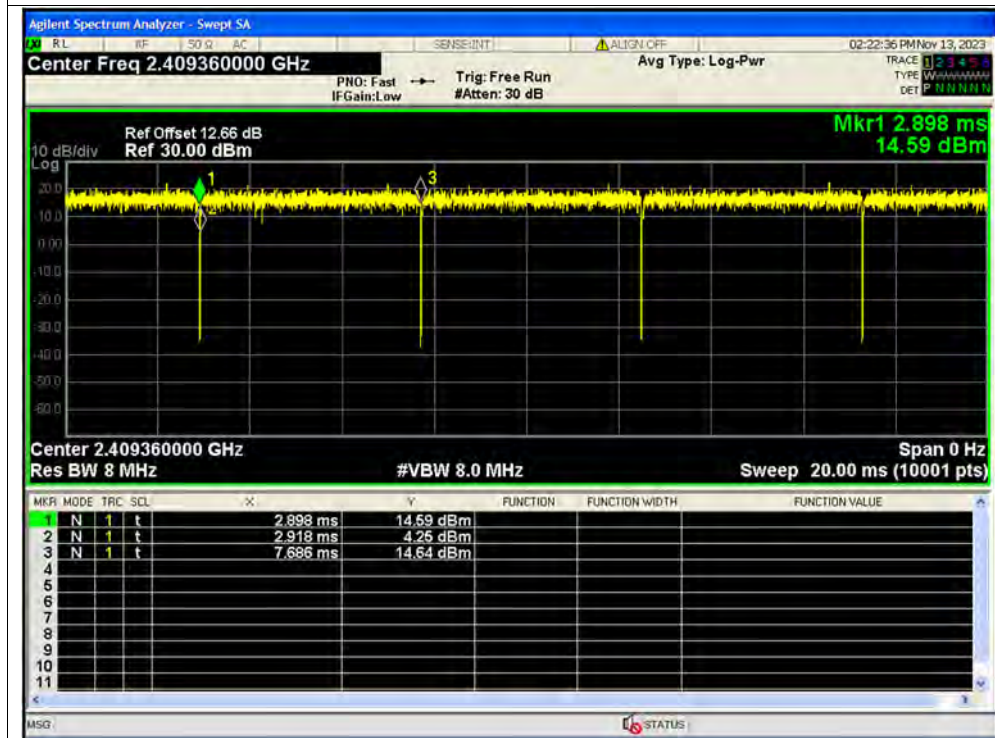
Duty Cycle NVNT ax40 106@53 2422MHz Ant1



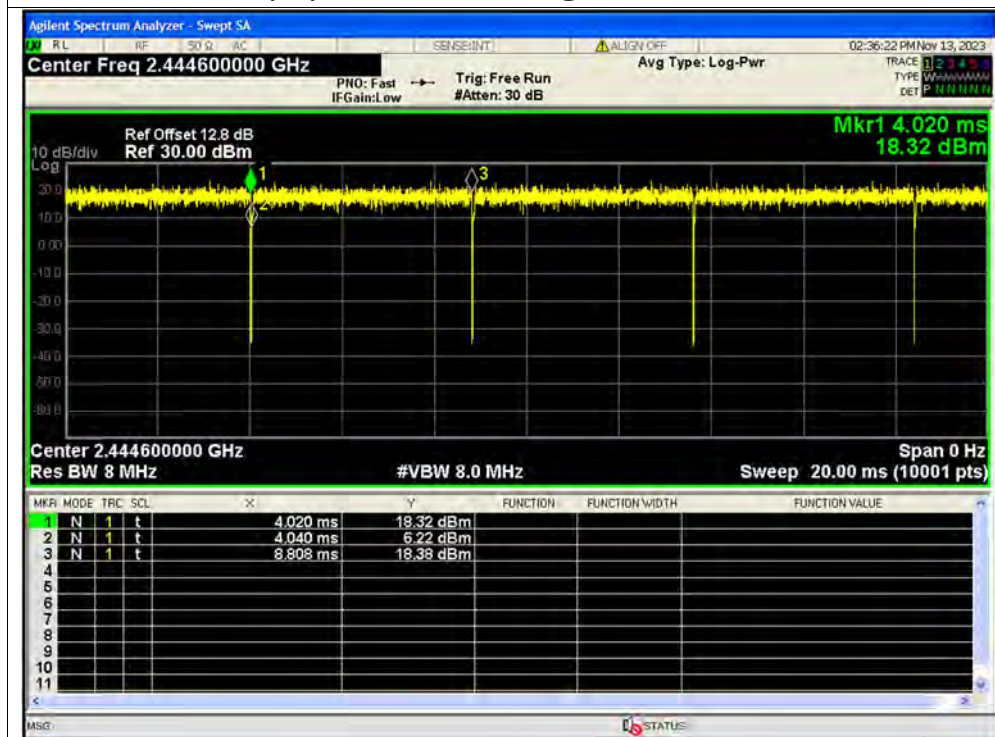
Duty Cycle NVNT ax40 106@53 2422MHz Ant2



Duty Cycle NVNT ax40 106@53 2422MHz Sum

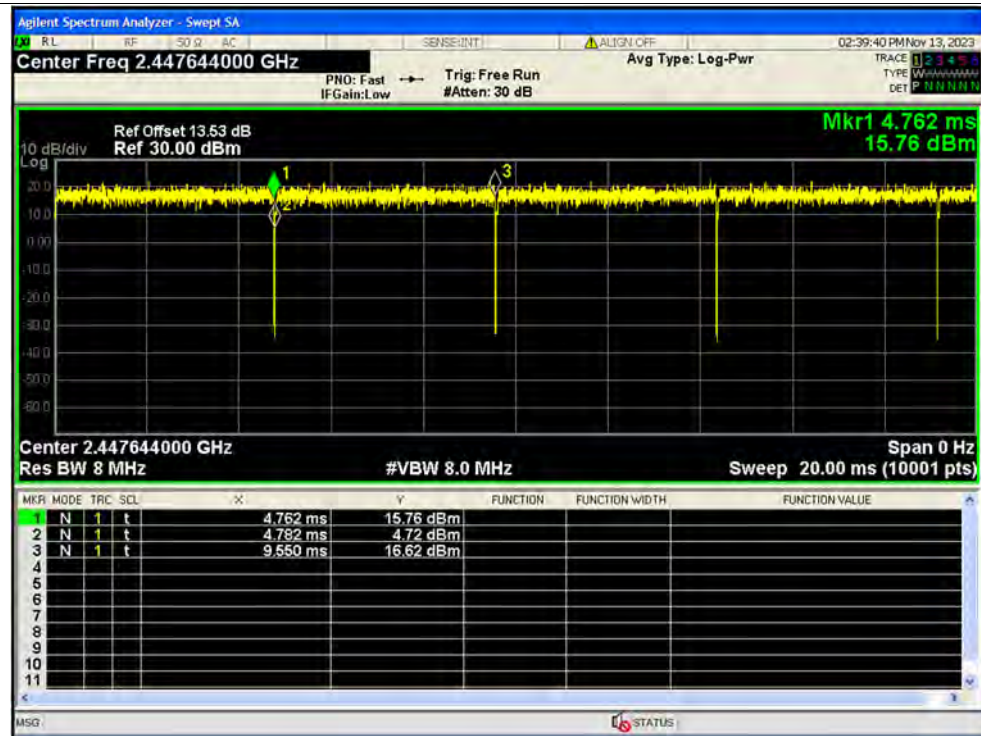


Duty Cycle NVNT ax40 106@54 2442MHz Ant1

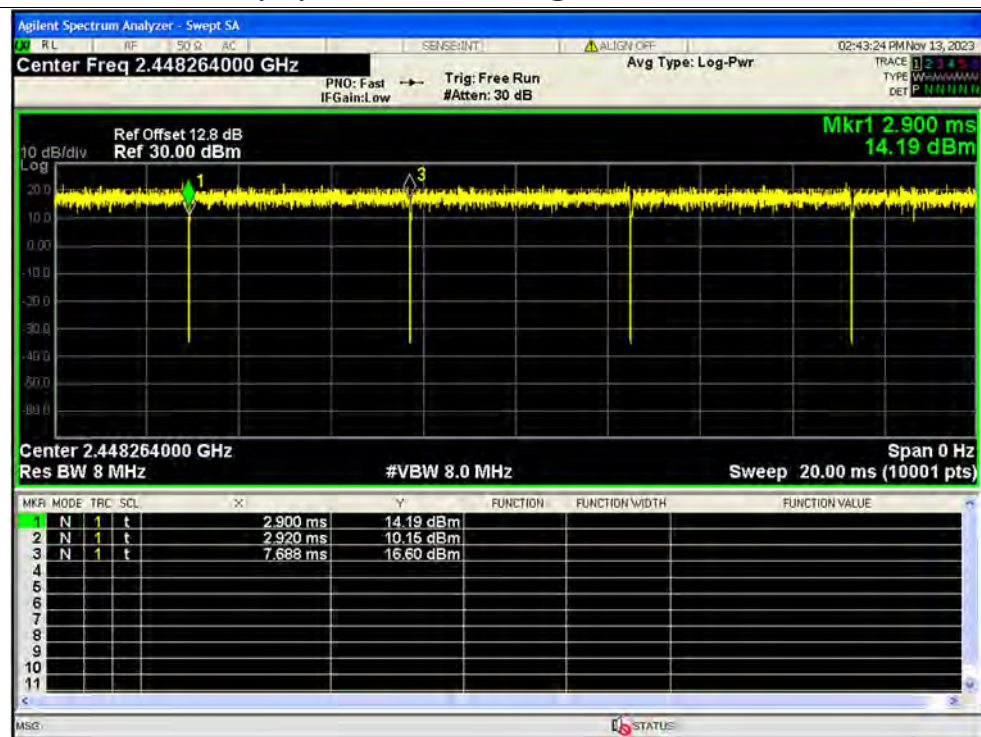




Duty Cycle NVNT ax40 106@54 2442MHz Ant2

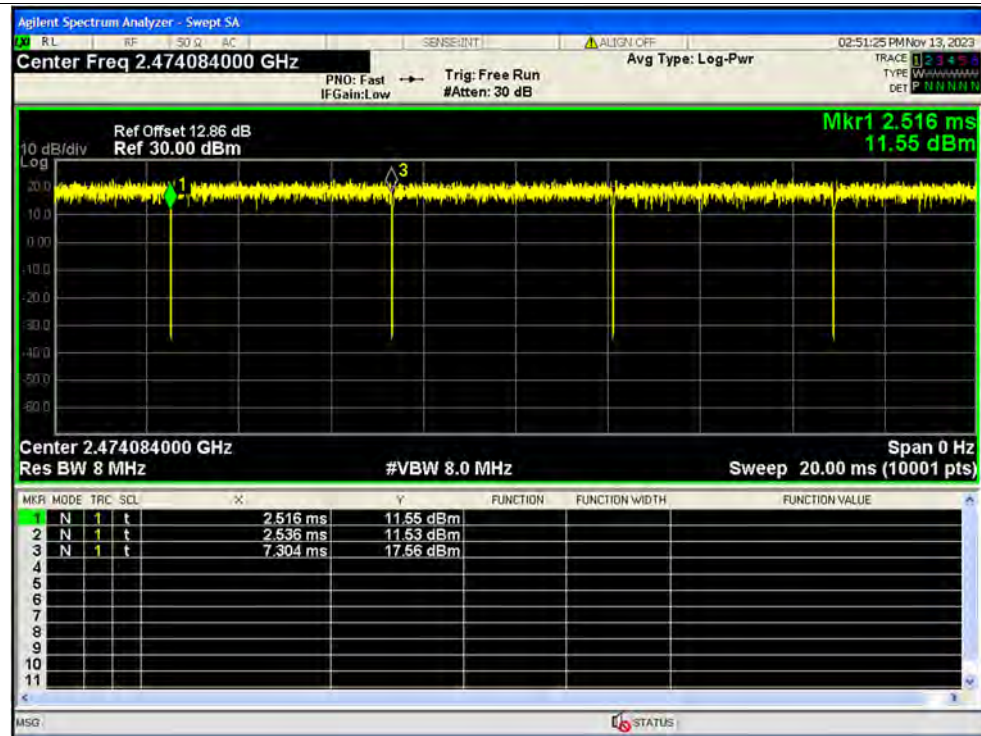


Duty Cycle NVNT ax40 106@54 2442MHz Sum

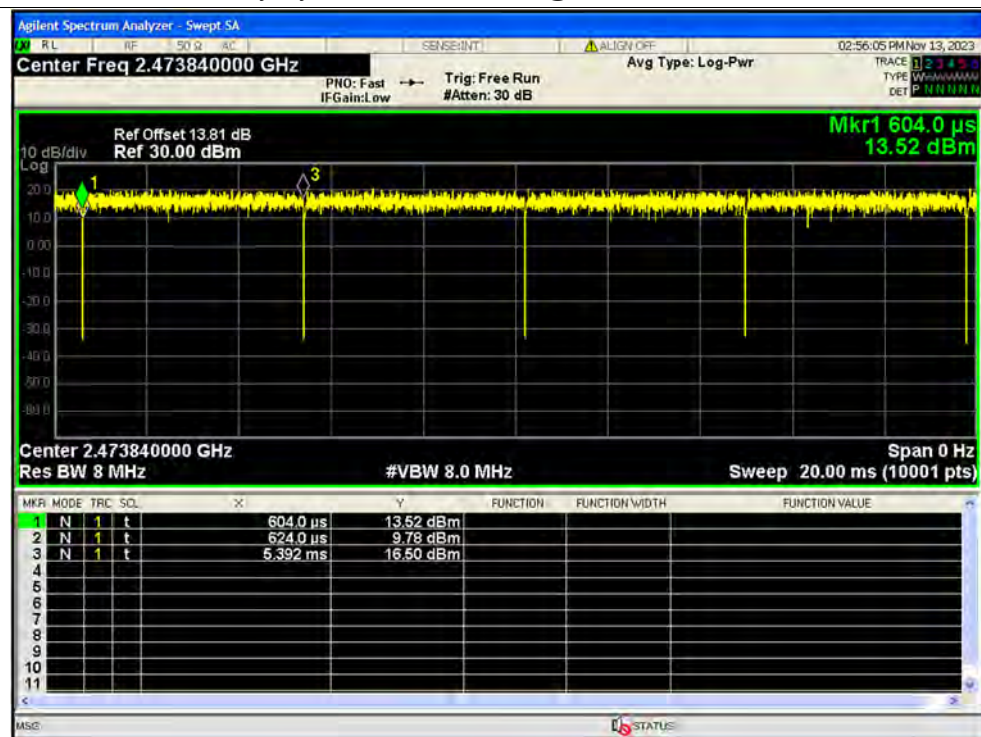




Duty Cycle NVNT ax40 106@56 2462MHz Ant1

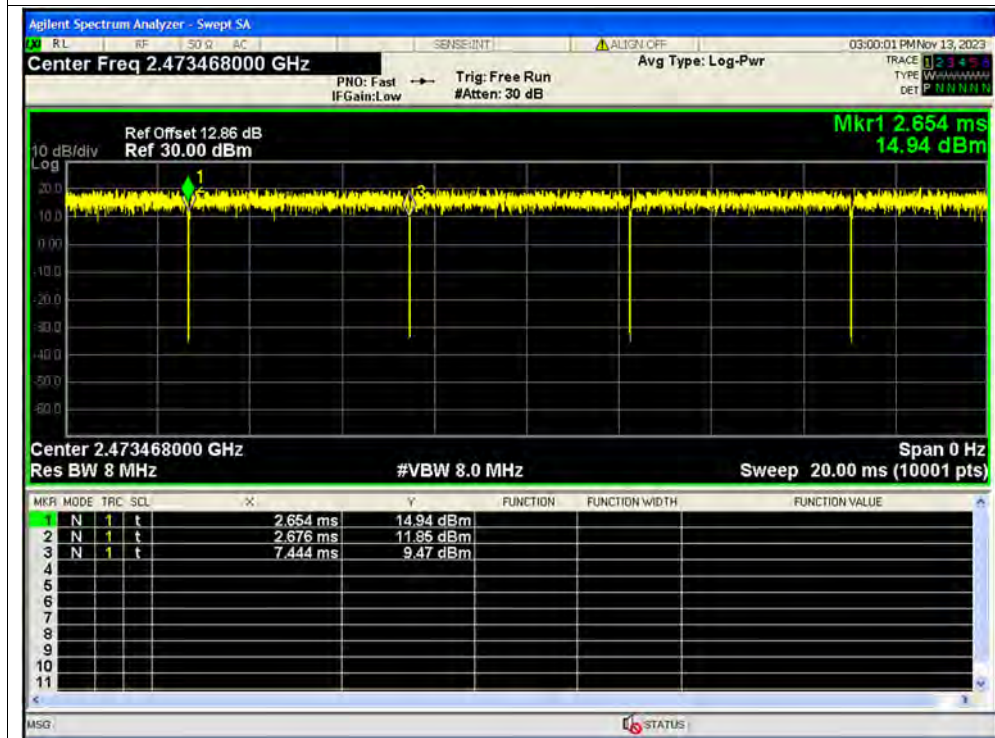


Duty Cycle NVNT ax40 106@56 2462MHz Ant2

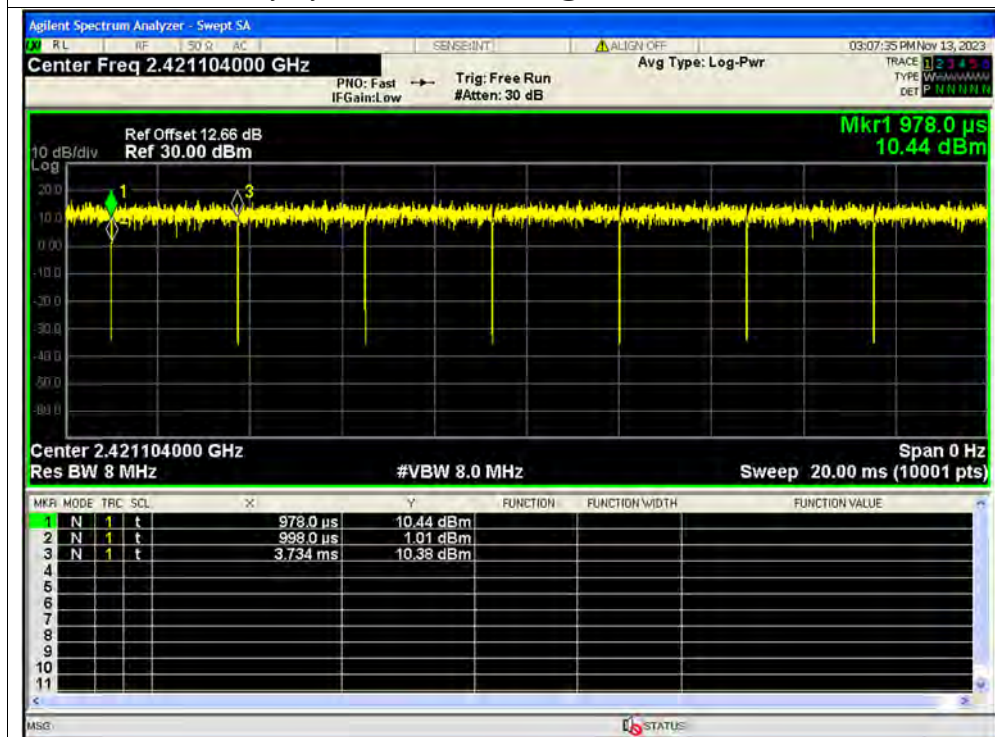




Duty Cycle NVNT ax40 106@56 2462MHz Sum

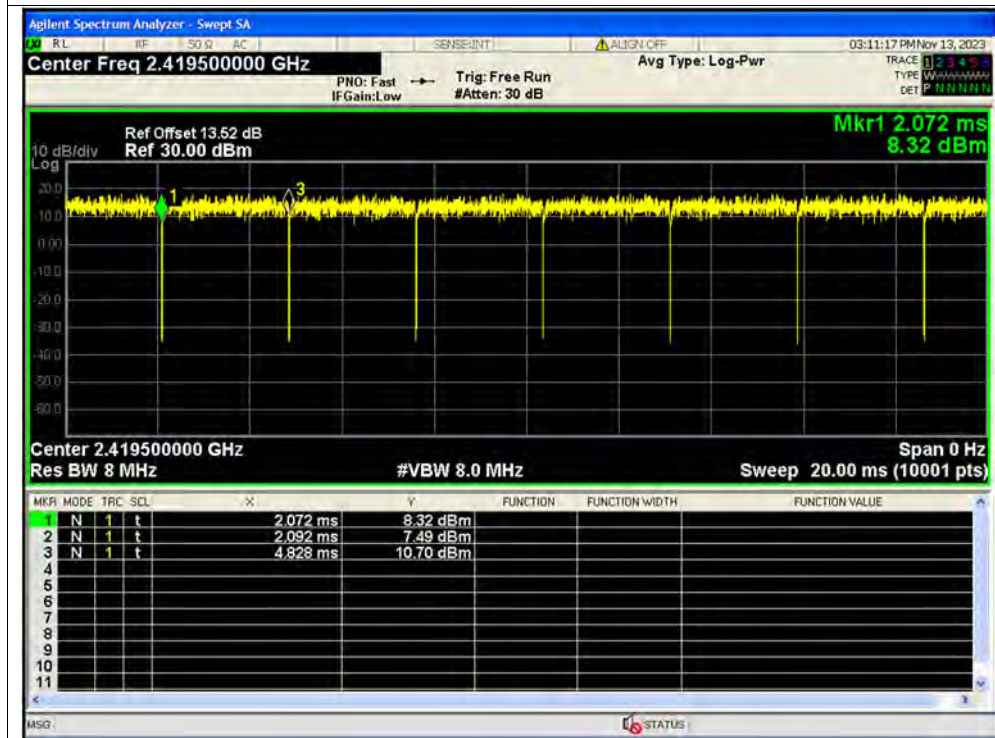


Duty Cycle NVNT ax40 242@61 2422MHz Ant1

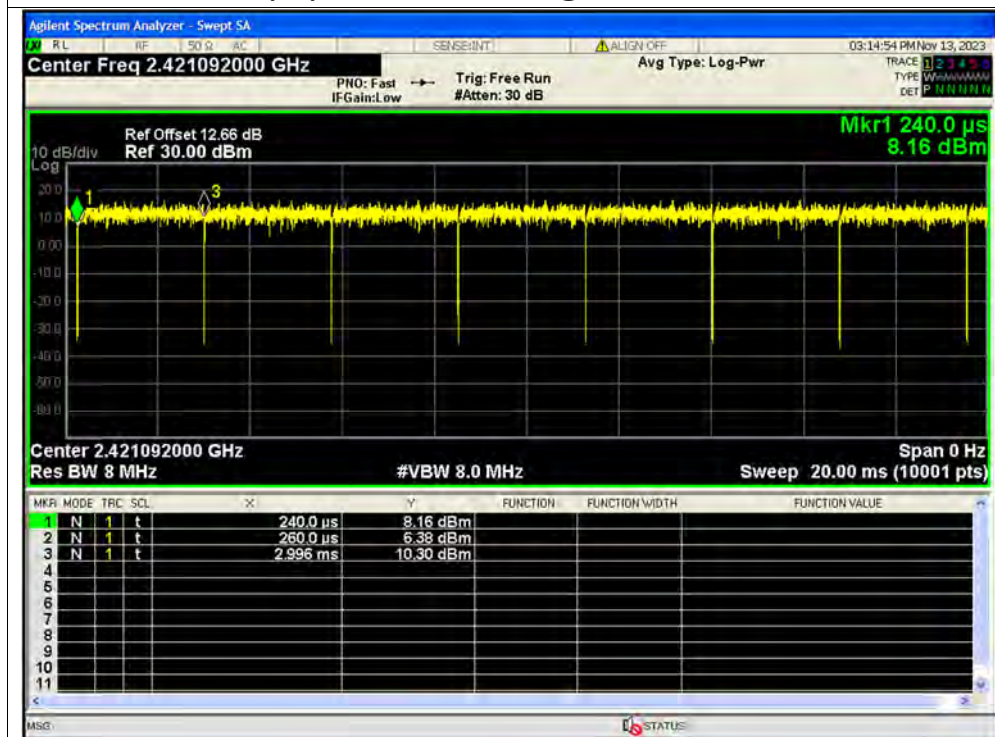




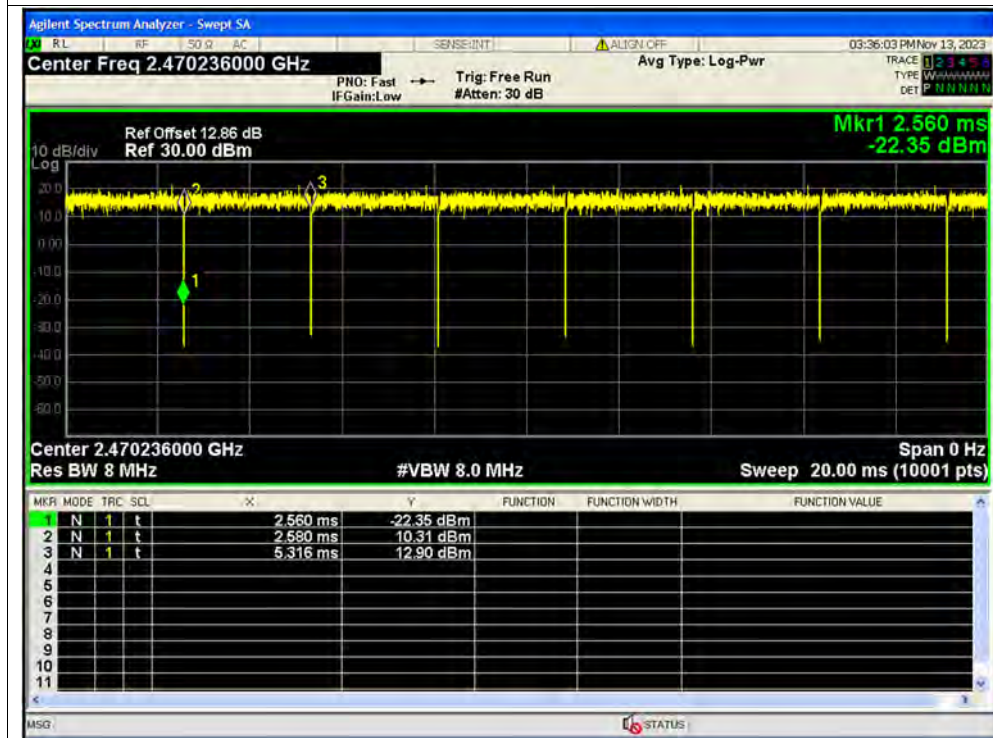
Duty Cycle NVNT ax40 242@61 2422MHz Ant2



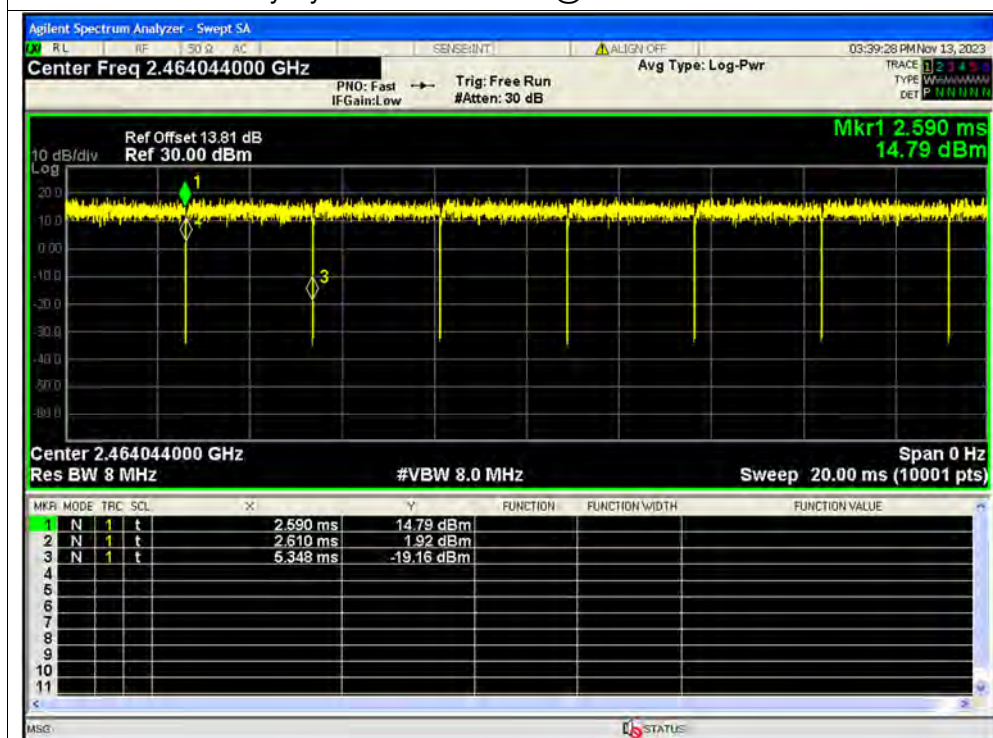
Duty Cycle NVNT ax40 242@61 2422MHz Sum



Duty Cycle NVNT ax40 242@62 2462MHz Ant1

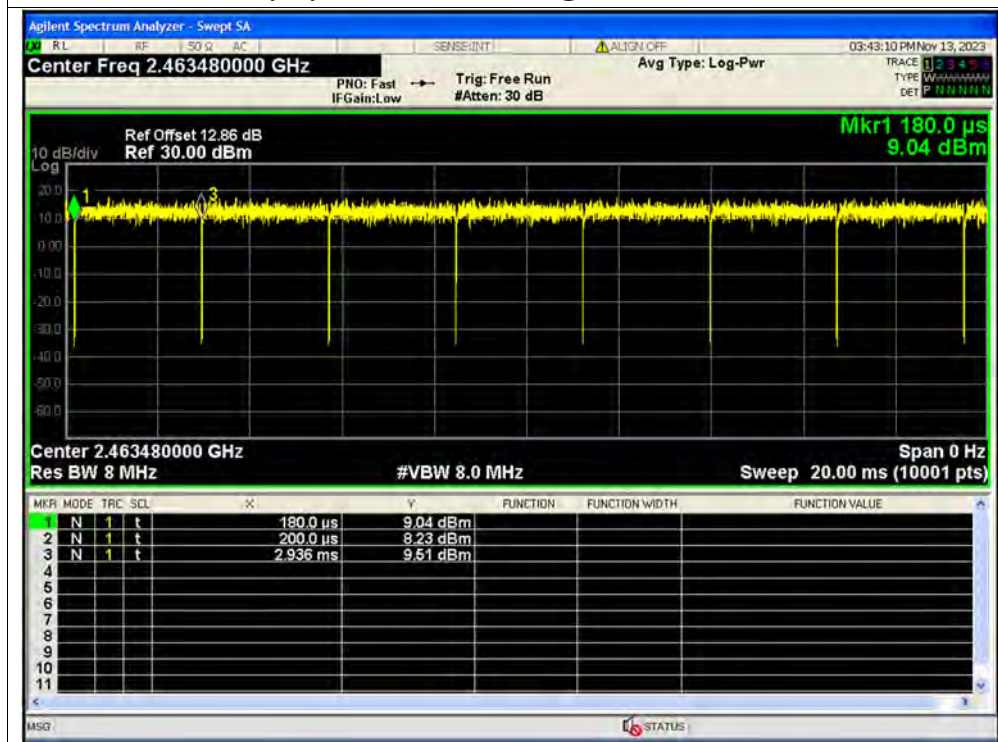


Duty Cycle NVNT ax40 242@62 2462MHz Ant2





Duty Cycle NVNT ax40 242@62 2462MHz Sum



**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	19.71	0	19.71	0.09354	30	Pass
NVNT	b	2442	Ant1	19.62	0	19.62	0.09162	30	Pass
NVNT	b	2472	Ant1	18.37	0	18.37	0.06871	30	Pass
NVNT	b	2412	Ant2	20.16	0	20.16	0.10375	30	Pass
NVNT	b	2442	Ant2	19.83	0	19.83	0.09616	30	Pass
NVNT	b	2472	Ant2	16.84	0	16.84	0.04831	30	Pass
NVNT	g	2412	Ant1	22.14	0	22.14	0.16368	30	Pass
NVNT	g	2442	Ant1	22.55	0	22.55	0.17989	30	Pass
NVNT	g	2472	Ant1	18.19	0	18.19	0.06592	30	Pass
NVNT	g	2412	Ant2	22.35	0	22.35	0.17179	30	Pass
NVNT	g	2442	Ant2	22.34	0	22.34	0.1714	30	Pass
NVNT	g	2472	Ant2	18.36	0	18.36	0.06855	30	Pass
NVNT	n20	2412	Ant1	21.87	0	21.87	0.15382	30	Pass
NVNT	n20	2442	Ant1	21.83	0	21.83	0.15241	30	Pass
NVNT	n20	2472	Ant1	21.46	0	21.46	0.13996	30	Pass
NVNT	n20	2412	Ant2	21.9	0	21.9	0.15488	30	Pass
NVNT	n20	2442	Ant2	21.95	0	21.95	0.15668	30	Pass
NVNT	n20	2472	Ant2	21.5	0	21.5	0.14125	30	Pass
NVNT	n20	2412	Ant1	21.66	0	21.66	0.14655	30	Pass
NVNT	n20	2412	Ant2	21.77	0	21.77	0.15031	30	Pass
NVNT	n20	2412	Sum	NaN	NaN	24.73	0.29687	30	Pass
NVNT	n20	2442	Ant1	22.76	0	22.76	0.1888	30	Pass
NVNT	n20	2442	Ant2	21.98	0	21.98	0.15776	30	Pass
NVNT	n20	2442	Sum	NaN	NaN	25.4	0.34656	30	Pass
NVNT	n20	2472	Ant1	16.25	0	16.25	0.04217	30	Pass
NVNT	n20	2472	Ant2	16.38	0	16.38	0.04345	30	Pass
NVNT	n20	2472	Sum	NaN	NaN	19.33	0.08562	30	Pass
NVNT	n40	2422	Ant1	21.48	0	21.48	0.1406	30	Pass
NVNT	n40	2442	Ant1	21.31	0	21.31	0.13521	30	Pass
NVNT	n40	2462	Ant1	21.5	0	21.5	0.14125	30	Pass
NVNT	n40	2422	Ant2	21.83	0	21.83	0.15241	30	Pass
NVNT	n40	2442	Ant2	21.55	0	21.55	0.14289	30	Pass
NVNT	n40	2462	Ant2	21.09	0	21.09	0.12853	30	Pass



REPORT No.: SZ23100340W06

NVNT	n40	2422	Ant1	21.73	0	21.73	0.14894	30	Pass
NVNT	n40	2422	Ant2	21.77	0	21.77	0.15031	30	Pass
NVNT	n40	2422	Sum	NaN	NaN	24.76	0.29925	30	Pass
NVNT	n40	2442	Ant1	21.45	0	21.45	0.13964	30	Pass
NVNT	n40	2442	Ant2	21.46	0	21.46	0.13996	30	Pass
NVNT	n40	2442	Sum	NaN	NaN	24.47	0.2796	30	Pass
NVNT	n40	2462	Ant1	18.1	0	18.1	0.06457	30	Pass
NVNT	n40	2462	Ant2	19.51	0	19.51	0.08933	30	Pass
NVNT	n40	2462	Sum	NaN	NaN	21.87	0.1539	30	Pass
NVNT	ax20	2412	Ant1	20.66	0	20.66	0.11641	30	Pass
NVNT	ax20	2442	Ant1	20.97	0	20.97	0.12503	30	Pass
NVNT	ax20	2472	Ant1	20.48	0	20.48	0.11169	30	Pass
NVNT	ax20	2412	Ant2	20.59	0	20.59	0.11455	30	Pass
NVNT	ax20	2442	Ant2	20.33	0	20.33	0.10789	30	Pass
NVNT	ax20	2472	Ant2	20.13	0	20.13	0.10304	30	Pass
NVNT	ax20	2412	Ant1	20.07	0	20.07	0.10162	30	Pass
NVNT	ax20	2412	Ant2	20.77	0	20.77	0.1194	30	Pass
NVNT	ax20	2412	Sum	NaN	NaN	23.44	0.22102	30	Pass
NVNT	ax20	2442	Ant1	20.42	0	20.42	0.11015	30	Pass
NVNT	ax20	2442	Ant2	20.22	0	20.22	0.1052	30	Pass
NVNT	ax20	2442	Sum	NaN	NaN	23.33	0.21535	30	Pass
NVNT	ax20	2472	Ant1	16.83	0	16.83	0.04819	30	Pass
NVNT	ax20	2472	Ant2	16.89	0	16.89	0.04887	30	Pass
NVNT	ax20	2472	Sum	NaN	NaN	19.87	0.09706	30	Pass
NVNT	ax40	2422	Ant1	20.38	0	20.38	0.10914	30	Pass
NVNT	ax40	2442	Ant1	20.14	0	20.14	0.10328	30	Pass
NVNT	ax40	2462	Ant1	20.15	0	20.15	0.10351	30	Pass
NVNT	ax40	2422	Ant2	20.63	0	20.63	0.11561	30	Pass
NVNT	ax40	2442	Ant2	20.21	0	20.21	0.10495	30	Pass
NVNT	ax40	2462	Ant2	20.67	0	20.67	0.11668	30	Pass
NVNT	ax40	2422	Ant1	20.56	0	20.56	0.11376	30	Pass
NVNT	ax40	2422	Ant2	20.48	0	20.48	0.11169	30	Pass
NVNT	ax40	2422	Sum	NaN	NaN	23.53	0.22545	30	Pass
NVNT	ax40	2442	Ant1	20.64	0	20.64	0.11588	30	Pass
NVNT	ax40	2442	Ant2	20.2	0	20.2	0.10471	30	Pass
NVNT	ax40	2442	Sum	NaN	NaN	23.44	0.22059	30	Pass
NVNT	ax40	2462	Ant1	20.18	0	20.18	0.10423	30	Pass
NVNT	ax40	2462	Ant2	20.53	0	20.53	0.11298	30	Pass



REPORT No.: SZ23100340W06

NVNT	ax40	2462	Sum	NaN	NaN	23.37	0.21721	30	Pass
NVNT	ax20 26@0	2412	Ant1	20.77	0	20.77	0.1194	30	Pass
NVNT	ax20 26@0	2412	Ant2	20.71	0	20.71	0.11776	30	Pass
NVNT	ax20 26@0	2412	Ant1	20.41	0	20.41	0.1099	30	Pass
NVNT	ax20 26@0	2412	Ant2	20.43	0	20.43	0.11041	30	Pass
NVNT	ax20 26@0	2412	Sum	NaN	NaN	23.43	0.22031	30	Pass
NVNT	ax20 26@4	2442	Ant1	20.67	0	20.67	0.11668	30	Pass
NVNT	ax20 26@4	2442	Ant2	19.3	0	19.3	0.08511	30	Pass
NVNT	ax20 26@4	2442	Ant1	19.48	0	19.48	0.08872	30	Pass
NVNT	ax20 26@4	2442	Ant2	18.08	0	18.08	0.06427	30	Pass
NVNT	ax20 26@4	2442	Sum	NaN	NaN	21.85	0.15298	30	Pass
NVNT	ax20 26@8	2472	Ant1	22.01	0	22.01	0.15885	30	Pass
NVNT	ax20 26@8	2472	Ant2	22.01	0	22.01	0.15885	30	Pass
NVNT	ax20 26@8	2472	Ant1	13.76	0	13.76	0.02377	30	Pass
NVNT	ax20 26@8	2472	Ant2	13.4	0	13.4	0.02188	30	Pass
NVNT	ax20 26@8	2472	Sum	NaN	NaN	16.59	0.04565	30	Pass
NVNT	ax20 52@37	2412	Ant1	22.27	0	22.27	0.16866	30	Pass
NVNT	ax20 52@37	2412	Ant2	22.51	0	22.51	0.17824	30	Pass
NVNT	ax20 52@37	2412	Ant1	22.37	0	22.37	0.17258	30	Pass
NVNT	ax20 52@37	2412	Ant2	22.44	0	22.44	0.17539	30	Pass



REPORT No.: SZ23100340W06

NVNT	ax20 52@37	2412	Sum	NaN	NaN	25.42	0.34797	30	Pass
NVNT	ax20 52@38	2442	Ant1	23.53	0	23.53	0.22542	30	Pass
NVNT	ax20 52@38	2442	Ant2	22.79	0	22.79	0.19011	30	Pass
NVNT	ax20 52@38	2442	Ant1	23.36	0	23.36	0.21677	30	Pass
NVNT	ax20 52@38	2442	Ant2	22.87	0	22.87	0.19364	30	Pass
NVNT	ax20 52@38	2442	Sum	NaN	NaN	26.13	0.41041	30	Pass
NVNT	ax20 52@40	2472	Ant1	22.99	0	22.99	0.19907	30	Pass
NVNT	ax20 52@40	2472	Ant2	22.36	0	22.36	0.17219	30	Pass
NVNT	ax20 52@40	2472	Ant1	23.66	0	23.66	0.23227	30	Pass
NVNT	ax20 52@40	2472	Ant2	22.53	0	22.53	0.17906	30	Pass
NVNT	ax20 52@40	2472	Sum	NaN	NaN	26.14	0.41133	30	Pass
NVNT	ax20 106@53	2412	Ant1	22.55	0	22.55	0.17989	30	Pass
NVNT	ax20 106@53	2412	Ant2	22.41	0	22.41	0.17418	30	Pass
NVNT	ax20 106@53	2412	Ant1	22.54	0	22.54	0.17947	30	Pass
NVNT	ax20 106@53	2412	Ant2	22.36	0	22.36	0.17219	30	Pass
NVNT	ax20 106@53	2412	Sum	NaN	NaN	25.46	0.35166	30	Pass
NVNT	ax20 106@54	2472	Ant1	22	0	22	0.15849	30	Pass
NVNT	ax20 106@54	2472	Ant2	21.96	0	21.96	0.15704	30	Pass
NVNT	ax20 106@54	2472	Ant1	22.55	0	22.55	0.17989	30	Pass
NVNT	ax20	2472	Ant2	22.15	0	22.15	0.16406	30	Pass



REPORT No.: SZ23100340W06

	106@54								
NVNT	ax20 106@54	2472	Sum	NaN	NaN	25.36	0.34395	30	Pass
NVNT	ax40 26@0	2422	Ant1	20.67	0	20.67	0.11668	30	Pass
NVNT	ax40 26@0	2422	Ant2	19.99	0	19.99	0.09977	30	Pass
NVNT	ax40 26@0	2422	Ant1	20.53	0	20.53	0.11298	30	Pass
NVNT	ax40 26@0	2422	Ant2	20.03	0	20.03	0.10069	30	Pass
NVNT	ax40 26@0	2422	Sum	NaN	NaN	23.3	0.21367	30	Pass
NVNT	ax40 26@8	2442	Ant1	20.63	0	20.63	0.11561	30	Pass
NVNT	ax40 26@8	2442	Ant2	19.19	0	19.19	0.08299	30	Pass
NVNT	ax40 26@8	2442	Ant1	20.57	0	20.57	0.11402	30	Pass
NVNT	ax40 26@8	2442	Ant2	20.37	0	20.37	0.10889	30	Pass
NVNT	ax40 26@8	2442	Sum	NaN	NaN	23.48	0.22292	30	Pass
NVNT	ax40 26@17	2462	Ant1	23.06	0	23.06	0.2023	30	Pass
NVNT	ax40 26@17	2462	Ant2	22.82	0	22.82	0.19143	30	Pass
NVNT	ax40 26@17	2462	Ant1	23.16	0	23.16	0.20701	30	Pass
NVNT	ax40 26@17	2462	Ant2	22.73	0	22.73	0.1875	30	Pass
NVNT	ax40 26@17	2462	Sum	NaN	NaN	25.96	0.39451	30	Pass
NVNT	ax40 52@37	2422	Ant1	22.35	0	22.35	0.17179	30	Pass
NVNT	ax40 52@37	2422	Ant2	20.4	0	20.4	0.10965	30	Pass
NVNT	ax40 52@37	2422	Ant1	22.27	0	22.27	0.16866	30	Pass



REPORT No.: SZ23100340W06

NVNT	ax40 52@37	2422	Ant2	22.51	0	22.51	0.17824	30	Pass
NVNT	ax40 52@37	2422	Sum	NaN	NaN	25.4	0.34689	30	Pass
NVNT	ax40 52@40	2442	Ant1	21.83	0	21.83	0.15241	30	Pass
NVNT	ax40 52@40	2442	Ant2	21.33	0	21.33	0.13583	30	Pass
NVNT	ax40 52@40	2442	Ant1	21.89	0	21.89	0.15453	30	Pass
NVNT	ax40 52@40	2442	Ant2	21.47	0	21.47	0.14028	30	Pass
NVNT	ax40 52@40	2442	Sum	NaN	NaN	24.7	0.29481	30	Pass
NVNT	ax40 52@44	2462	Ant1	23.94	0	23.94	0.24774	30	Pass
NVNT	ax40 52@44	2462	Ant2	23.43	0	23.43	0.22029	30	Pass
NVNT	ax40 52@44	2462	Ant1	23.67	0	23.67	0.23281	30	Pass
NVNT	ax40 52@44	2462	Ant2	23.4	0	23.4	0.21878	30	Pass
NVNT	ax40 52@44	2462	Sum	NaN	NaN	26.55	0.45159	30	Pass
NVNT	ax40 106@53	2422	Ant1	22.07	0	22.07	0.16106	30	Pass
NVNT	ax40 106@53	2422	Ant2	21.94	0	21.94	0.15631	30	Pass
NVNT	ax40 106@53	2422	Ant1	22.24	0	22.24	0.16749	30	Pass
NVNT	ax40 106@53	2422	Ant2	21.8	0	21.8	0.15136	30	Pass
NVNT	ax40 106@53	2422	Sum	NaN	NaN	25.04	0.31885	30	Pass
NVNT	ax40 106@54	2442	Ant1	22.85	0	22.85	0.19275	30	Pass
NVNT	ax40 106@54	2442	Ant2	22.75	0	22.75	0.18836	30	Pass
NVNT	ax40	2442	Ant1	23.14	0	23.14	0.20606	30	Pass

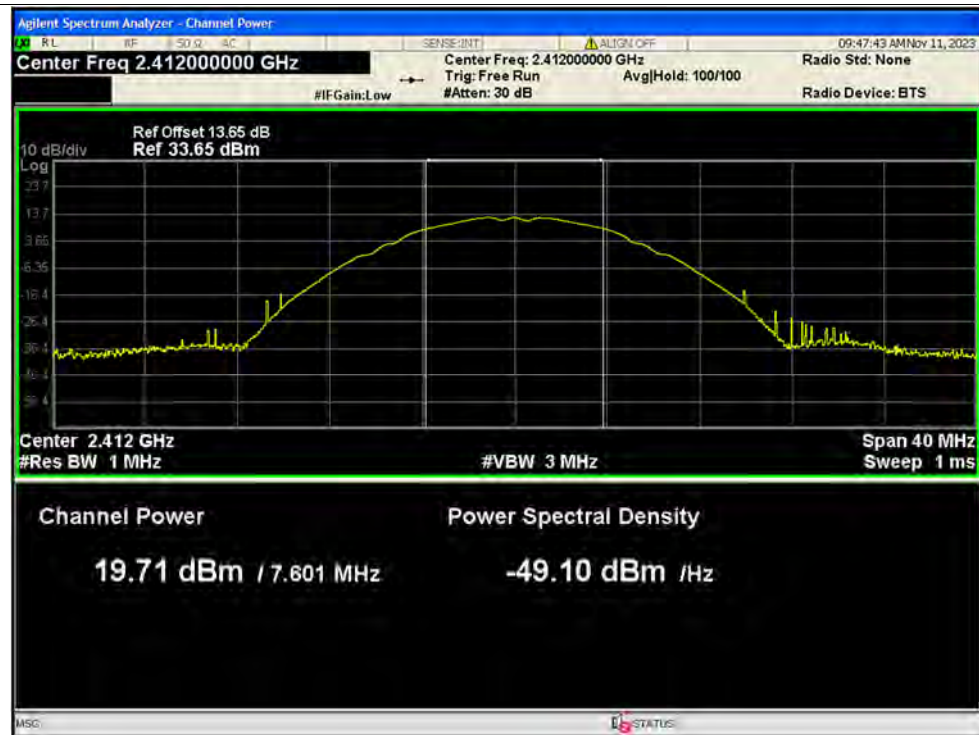


REPORT No.: SZ23100340W06

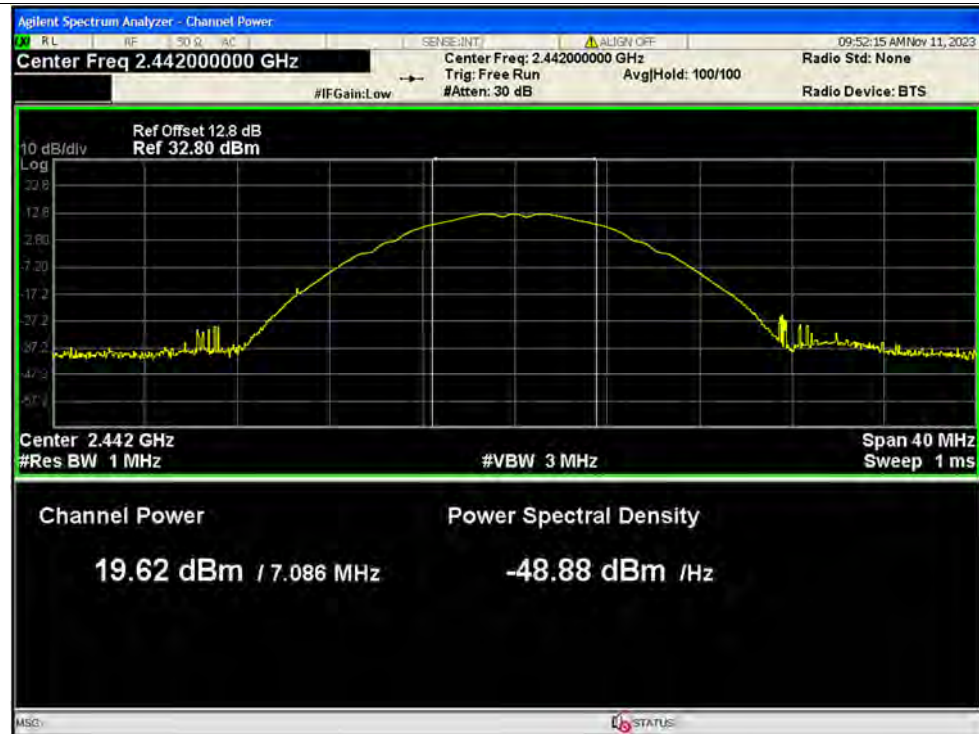
	106@54								
NVNT	ax40 106@54	2442	Ant2	22.8	0	22.8	0.19055	30	Pass
NVNT	ax40 106@54	2442	Sum	NaN	NaN	25.98	0.39661	30	Pass
NVNT	ax40 106@56	2462	Ant1	22.49	0	22.49	0.17742	30	Pass
NVNT	ax40 106@56	2462	Ant2	22.31	0	22.31	0.17022	30	Pass
NVNT	ax40 106@56	2462	Ant1	22.34	0	22.34	0.1714	30	Pass
NVNT	ax40 106@56	2462	Ant2	22.2	0	22.2	0.16596	30	Pass
NVNT	ax40 106@56	2462	Sum	NaN	NaN	25.28	0.33735	30	Pass
NVNT	ax40 242@61	2422	Ant1	21.66	0	21.66	0.14655	30	Pass
NVNT	ax40 242@61	2422	Ant2	22.7	0	22.7	0.18621	30	Pass
NVNT	ax40 242@61	2422	Ant1	21.68	0	21.68	0.14723	30	Pass
NVNT	ax40 242@61	2422	Ant2	22.75	0	22.75	0.18836	30	Pass
NVNT	ax40 242@61	2422	Sum	NaN	NaN	25.26	0.3356	30	Pass
NVNT	ax40 242@62	2462	Ant1	21.84	0	21.84	0.15276	30	Pass
NVNT	ax40 242@62	2462	Ant2	22.38	0	22.38	0.17298	30	Pass
NVNT	ax40 242@62	2462	Ant1	22.35	0	22.35	0.17179	30	Pass
NVNT	ax40 242@62	2462	Ant2	22.14	0	22.14	0.16368	30	Pass
NVNT	ax40 242@62	2462	Sum	NaN	NaN	25.26	0.33547	30	Pass

Test Graphs

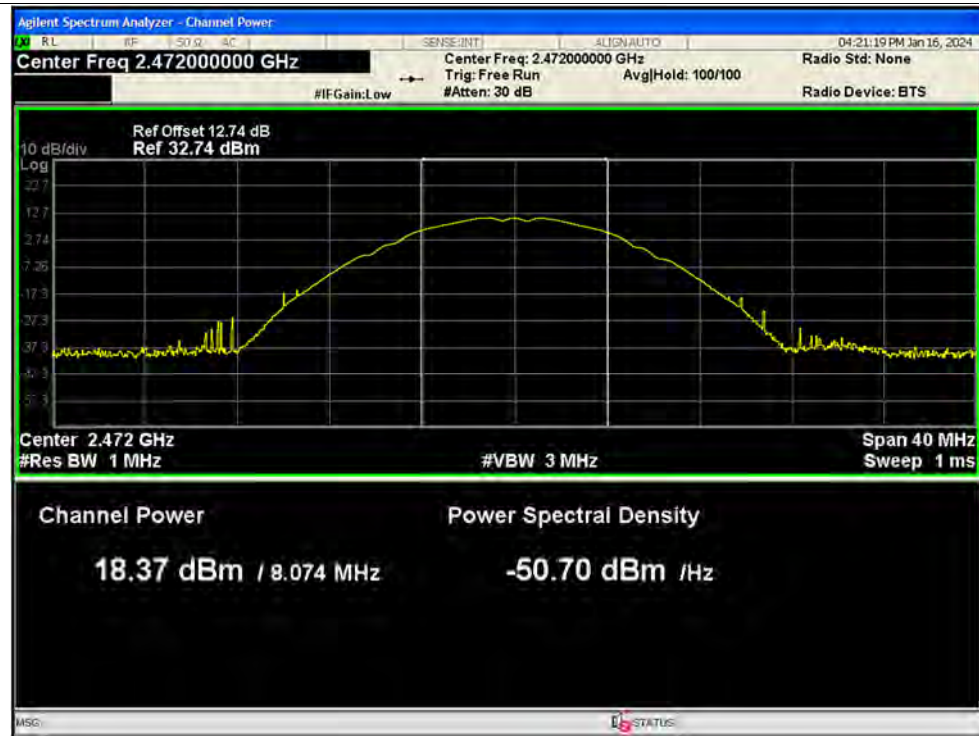
Peak Power NVNT b 2412MHz Ant1 SISO



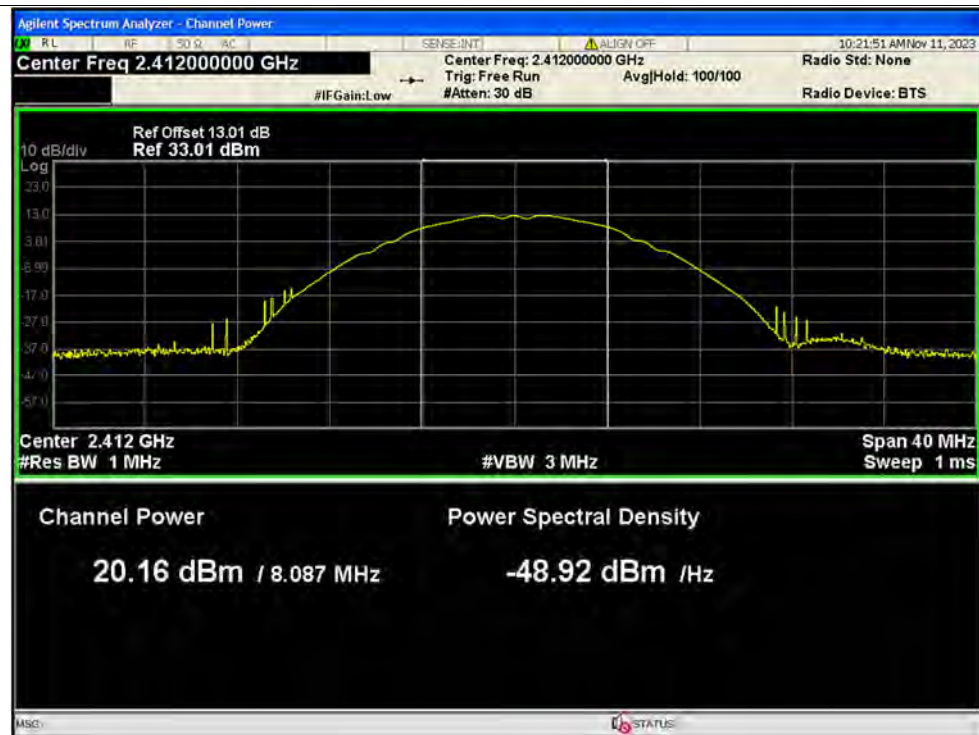
Peak Power NVNT b 2442MHz Ant1 SISO



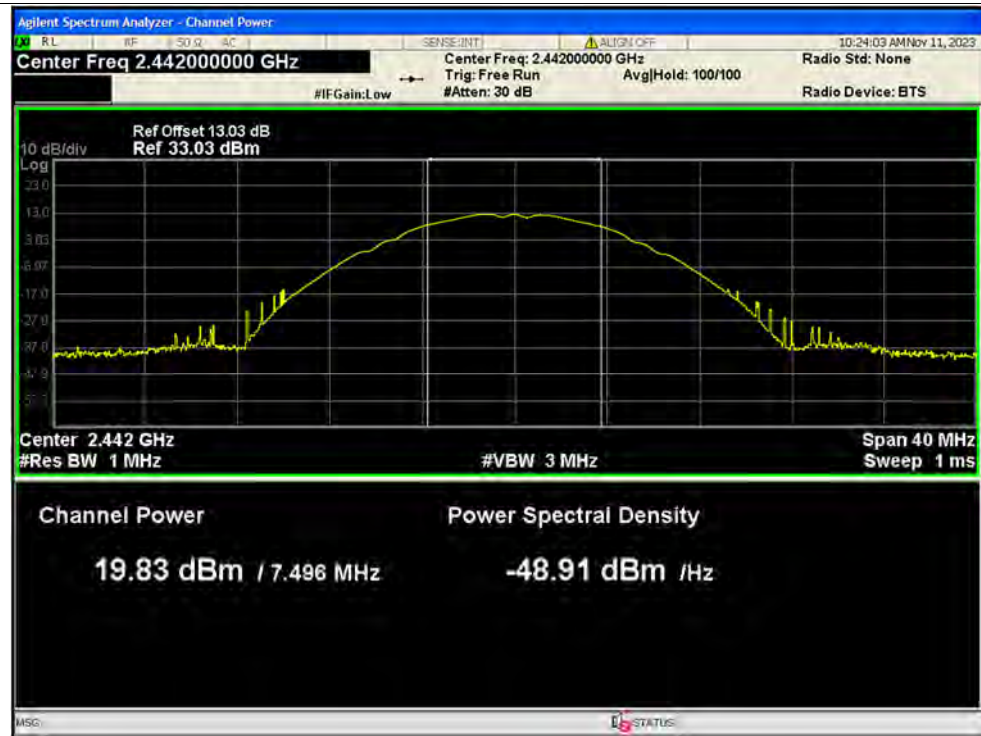
Peak Power NVNT b 2472MHz Ant1 SISO



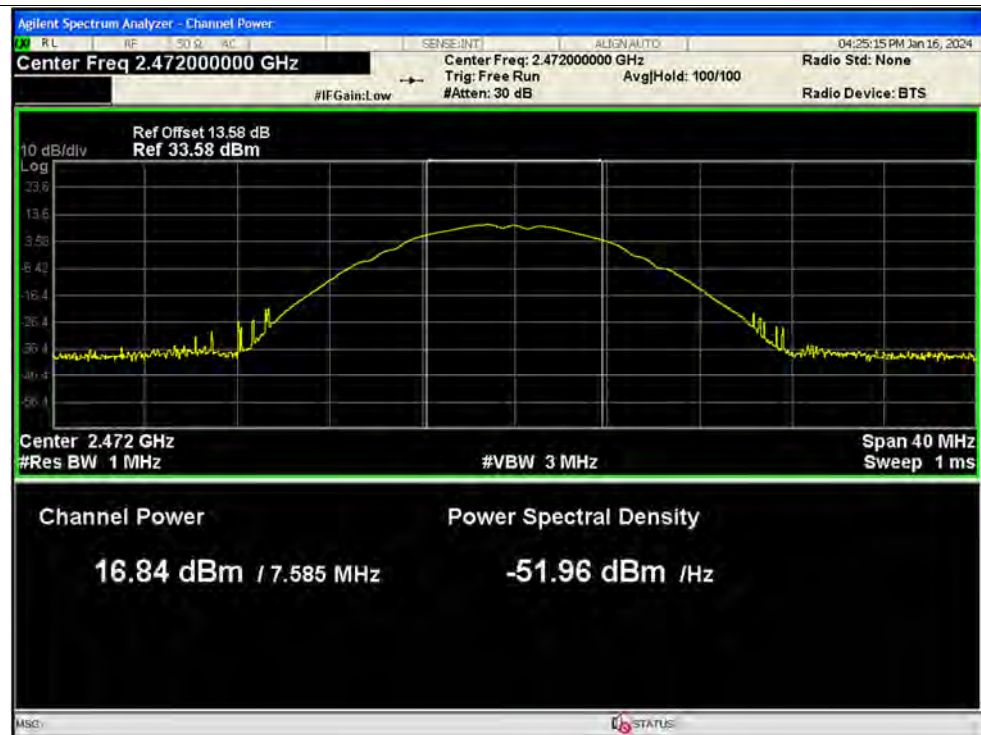
Peak Power NVNT b 2412MHz Ant2 SISO



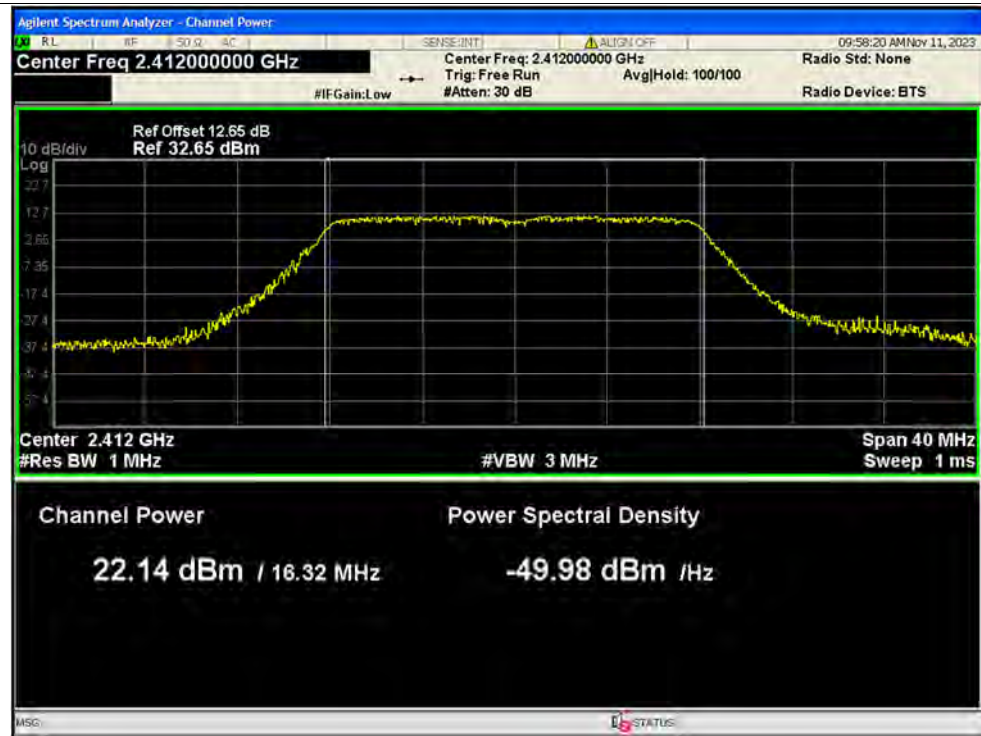
Peak Power NVNT b 2442MHz Ant2 SISO



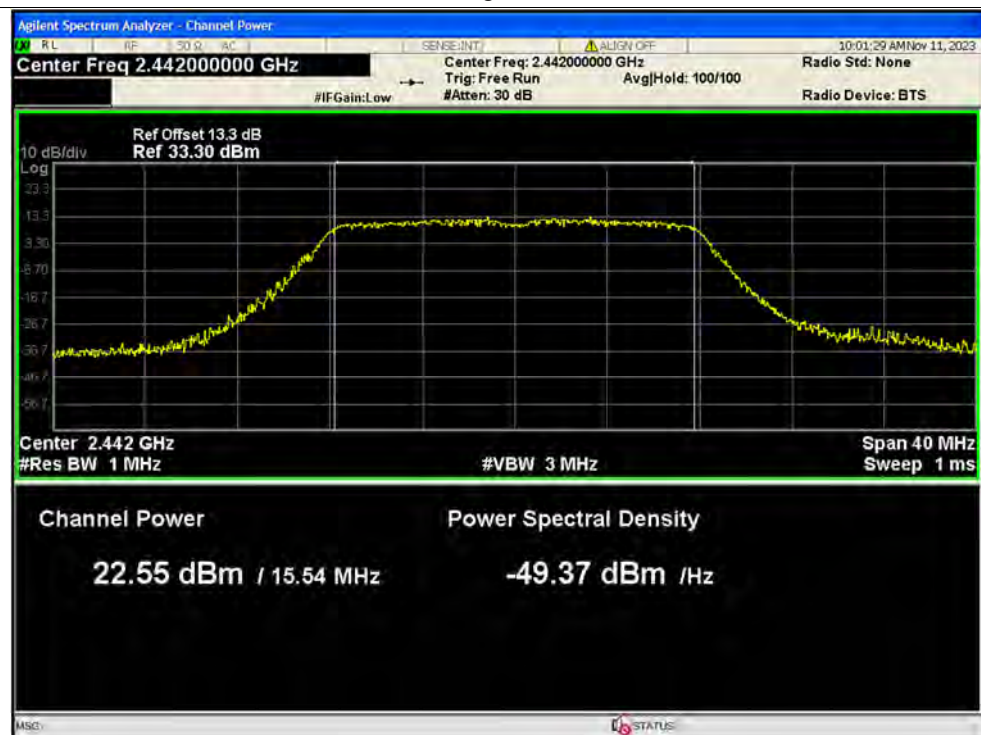
Peak Power NVNT b 2472MHz Ant2 SISO



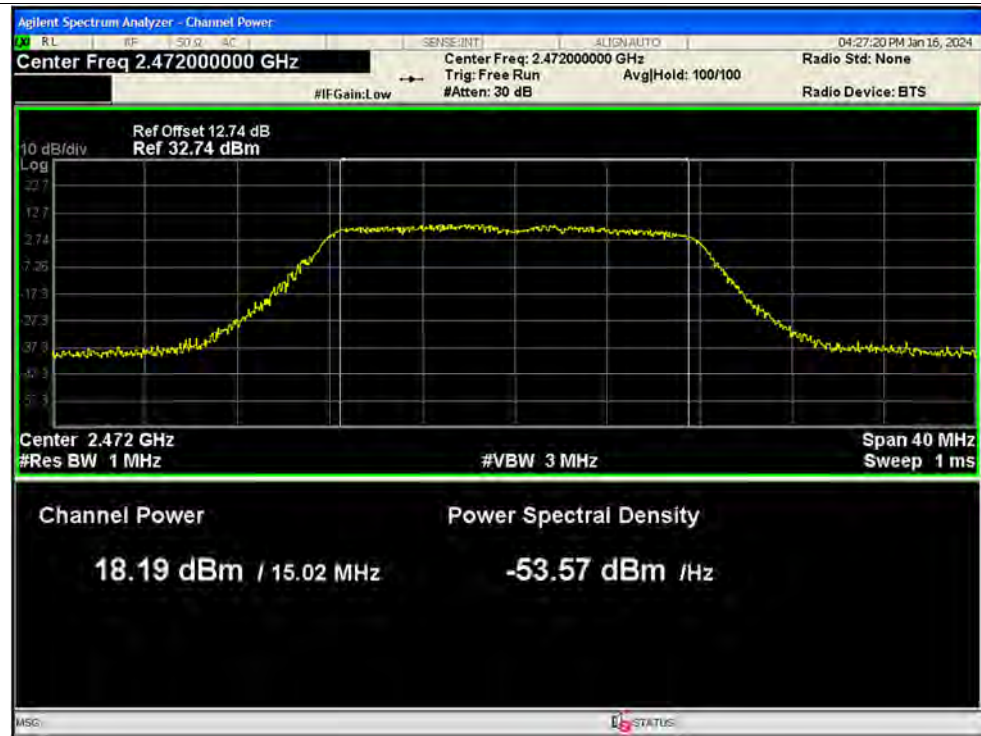
Peak Power NVNT g 2412MHz Ant1 SISO



Peak Power NVNT g 2442MHz Ant1 SISO



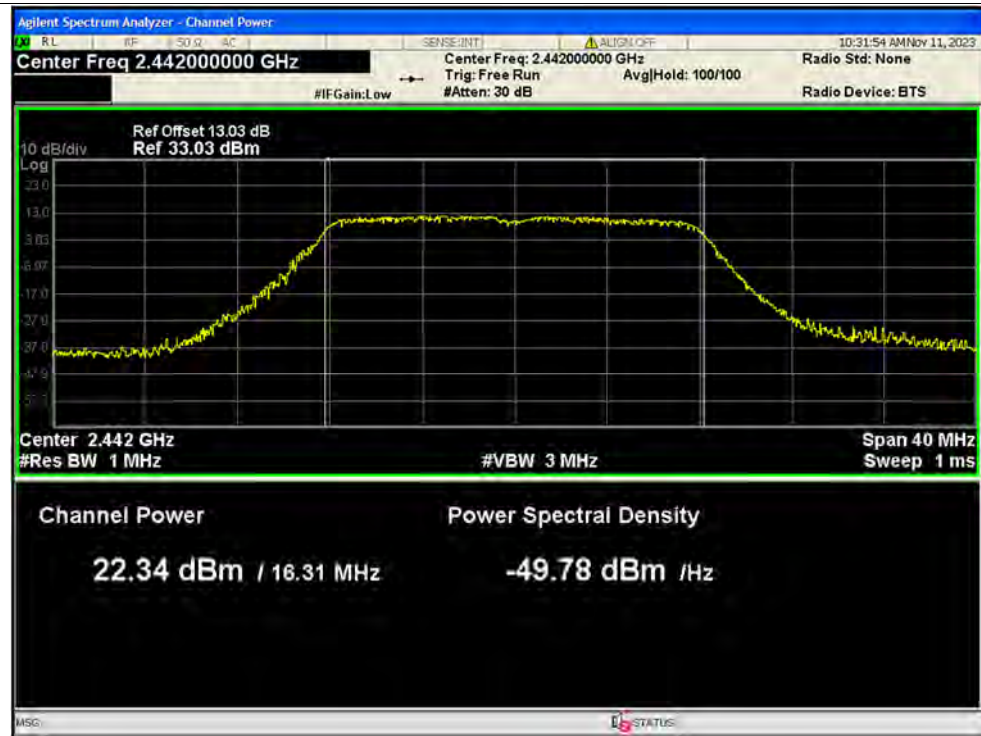
Peak Power NVNT g 2472MHz Ant1 SISO



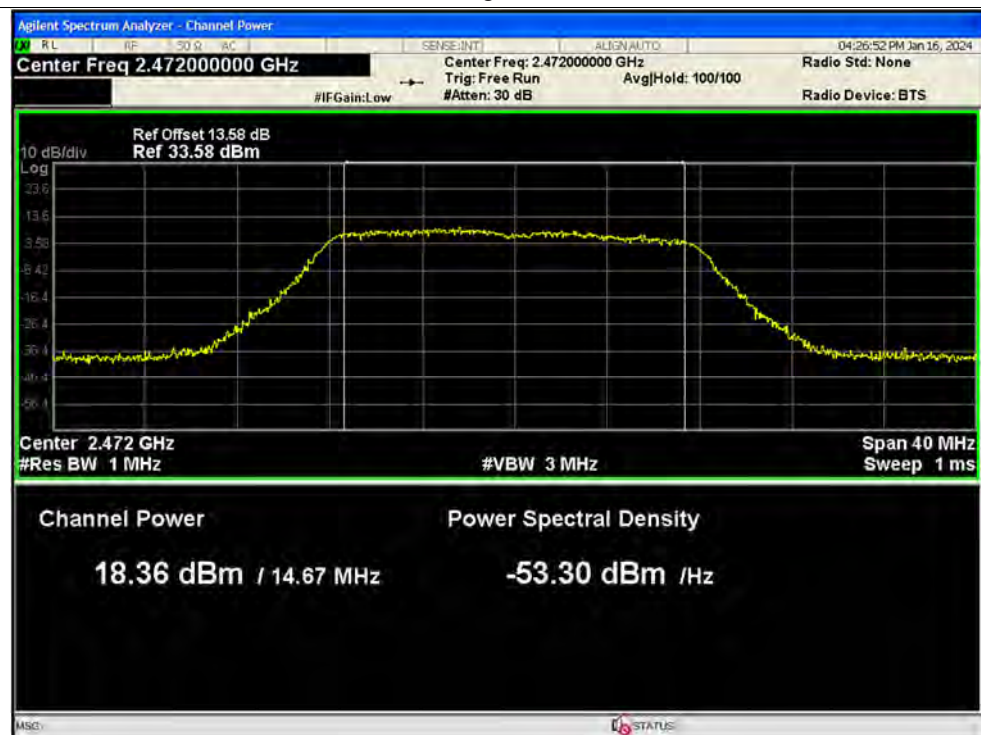
Peak Power NVNT g 2412MHz Ant2 SISO



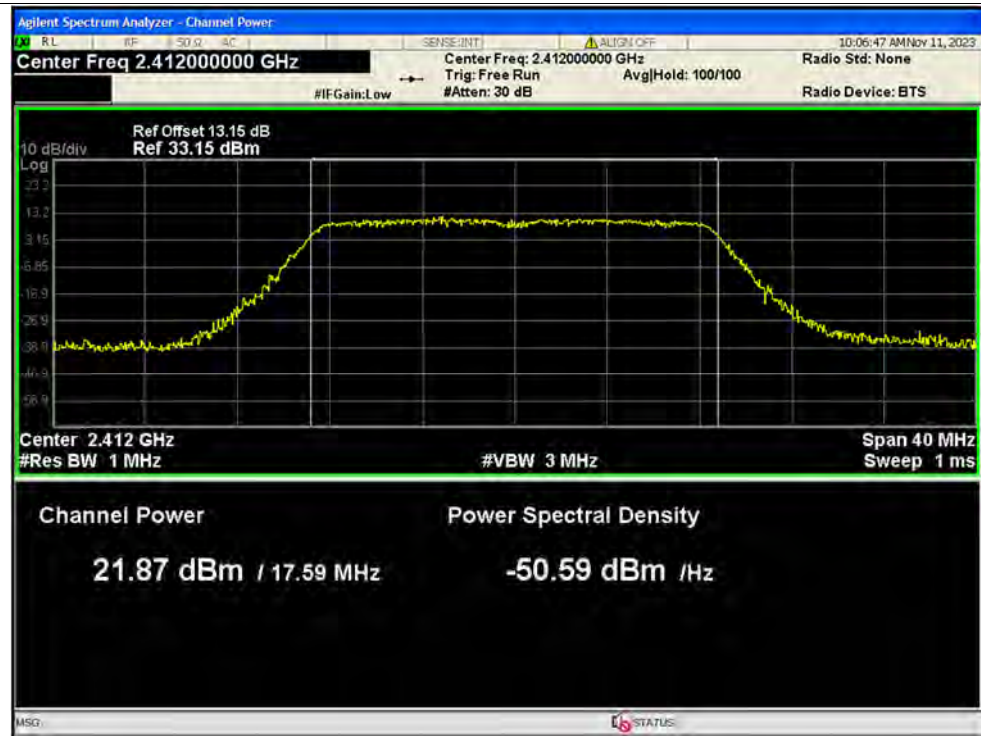
Peak Power NVNT g 2442MHz Ant2 SISO



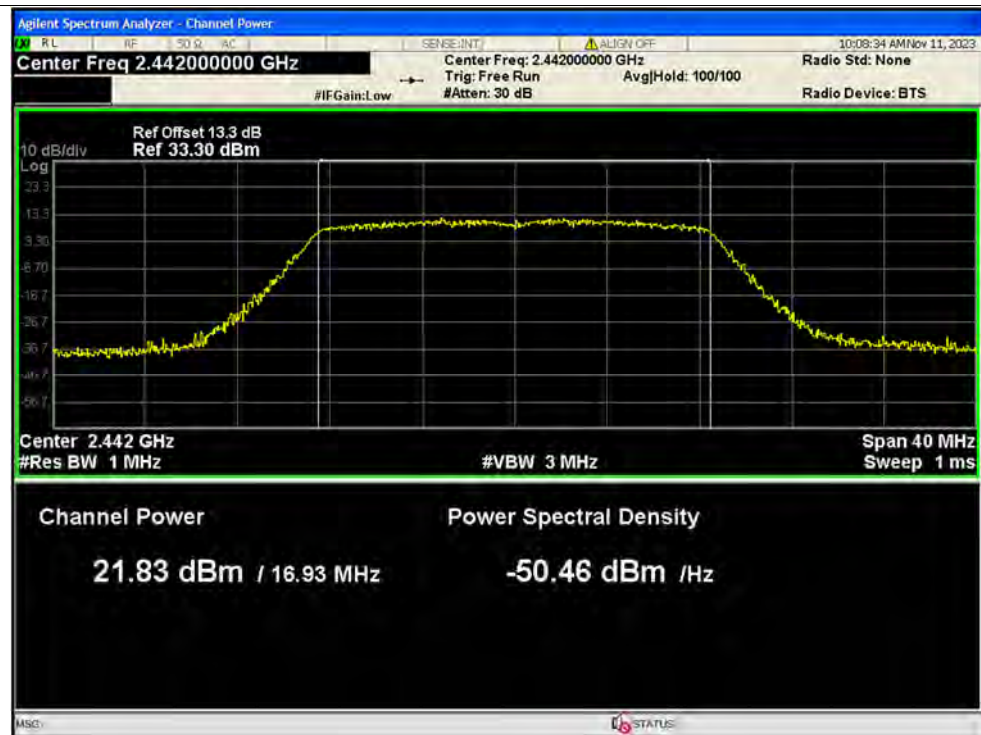
Peak Power NVNT g 2472MHz Ant2 SISO



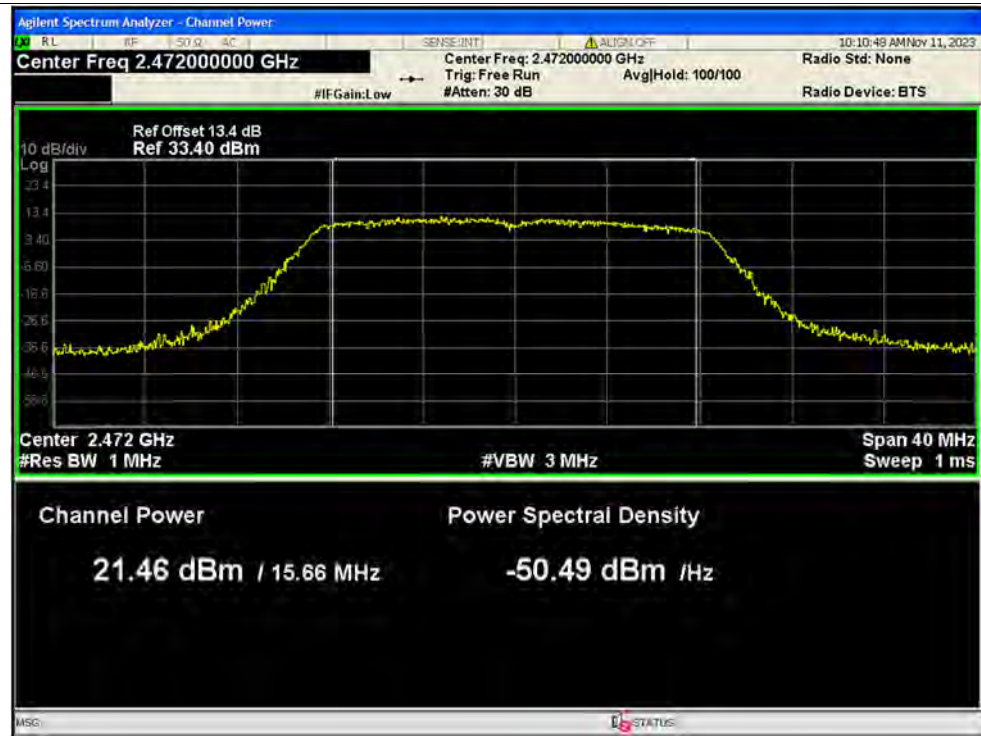
Peak Power NVNT n20 2412MHz Ant1 SISO



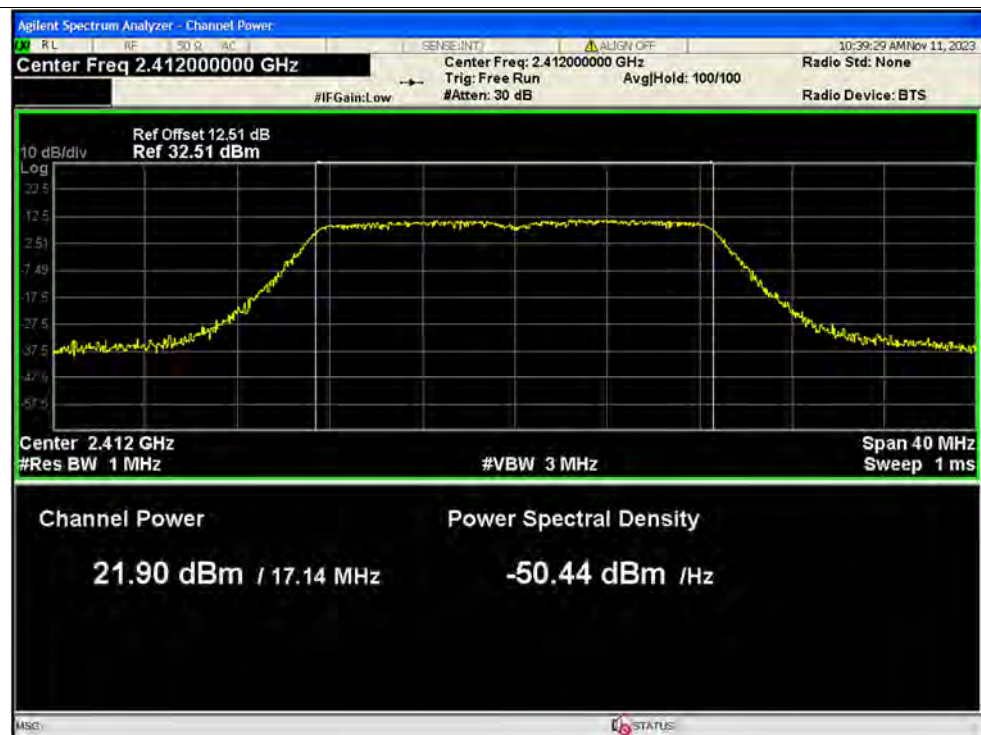
Peak Power NVNT n20 2442MHz Ant1 SISO



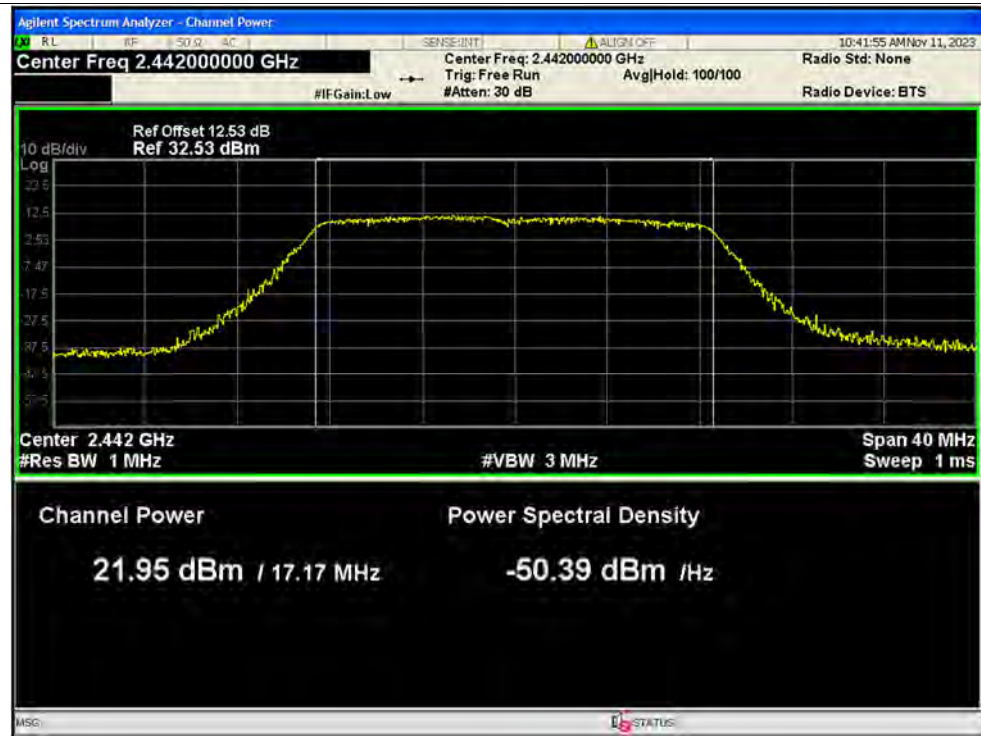
Peak Power NVNT n20 2472MHz Ant1 SISO



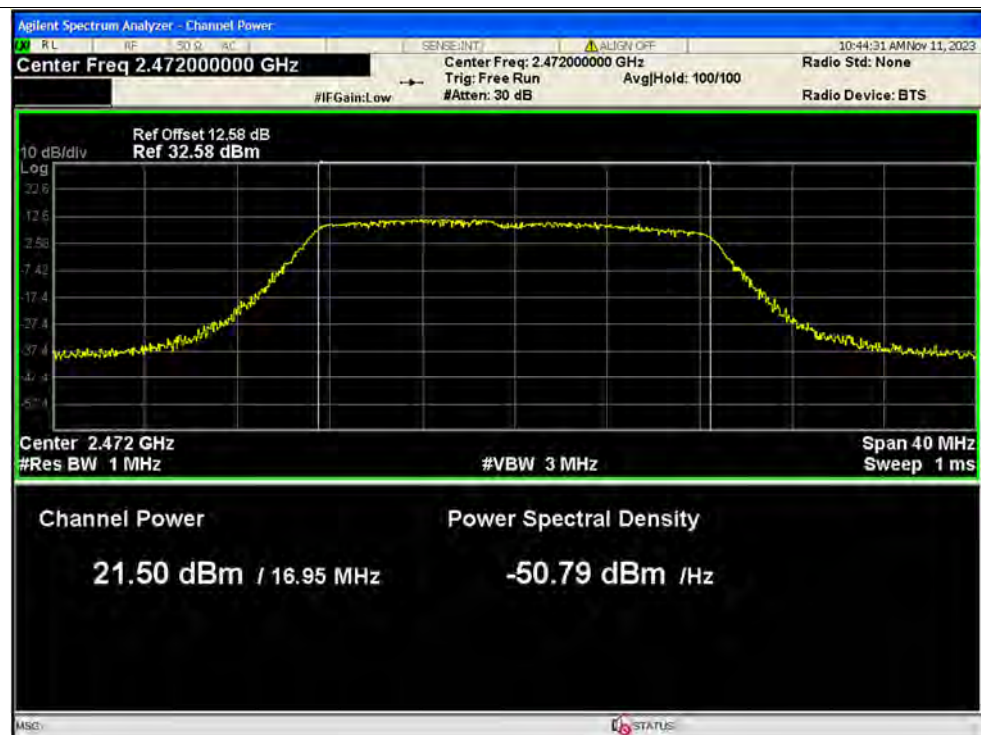
Peak Power NVNT n20 2412MHz Ant2 SISO



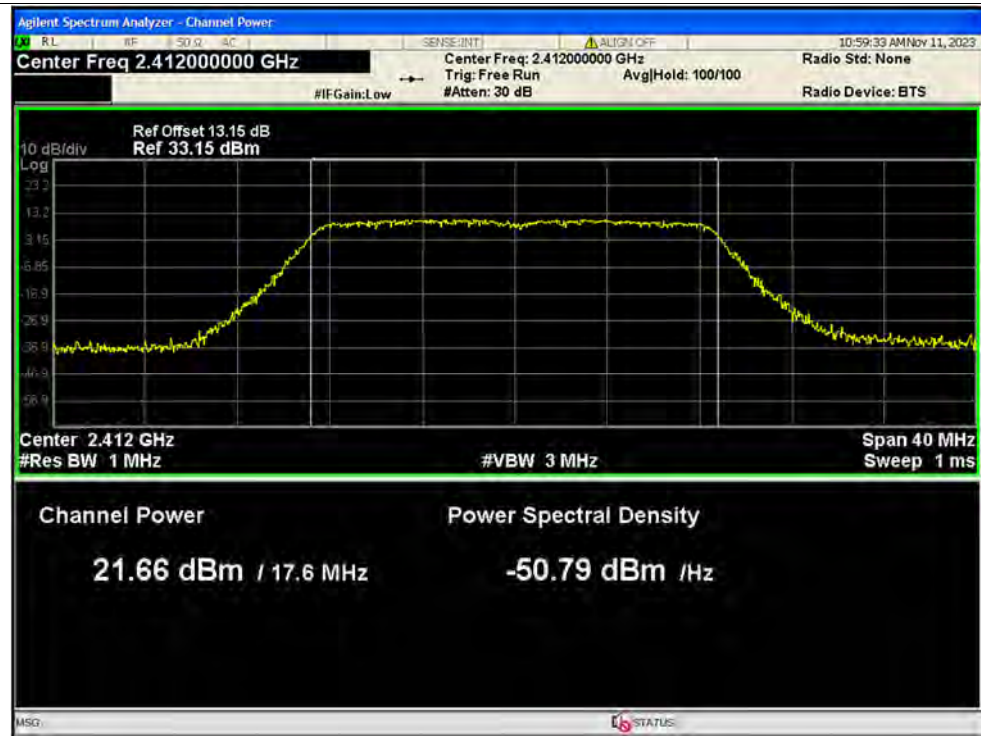
Peak Power NVNT n20 2442MHz Ant2 SISO



Peak Power NVNT n20 2472MHz Ant2 SISO



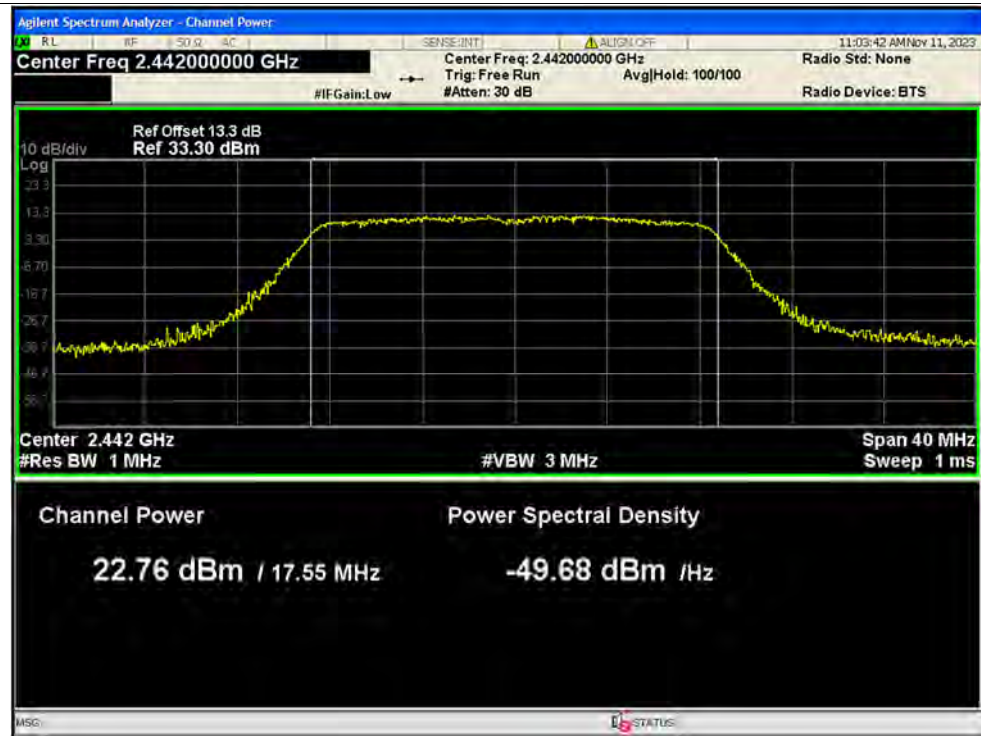
Peak Power NVNT n20 2412MHz Ant1 MIMO



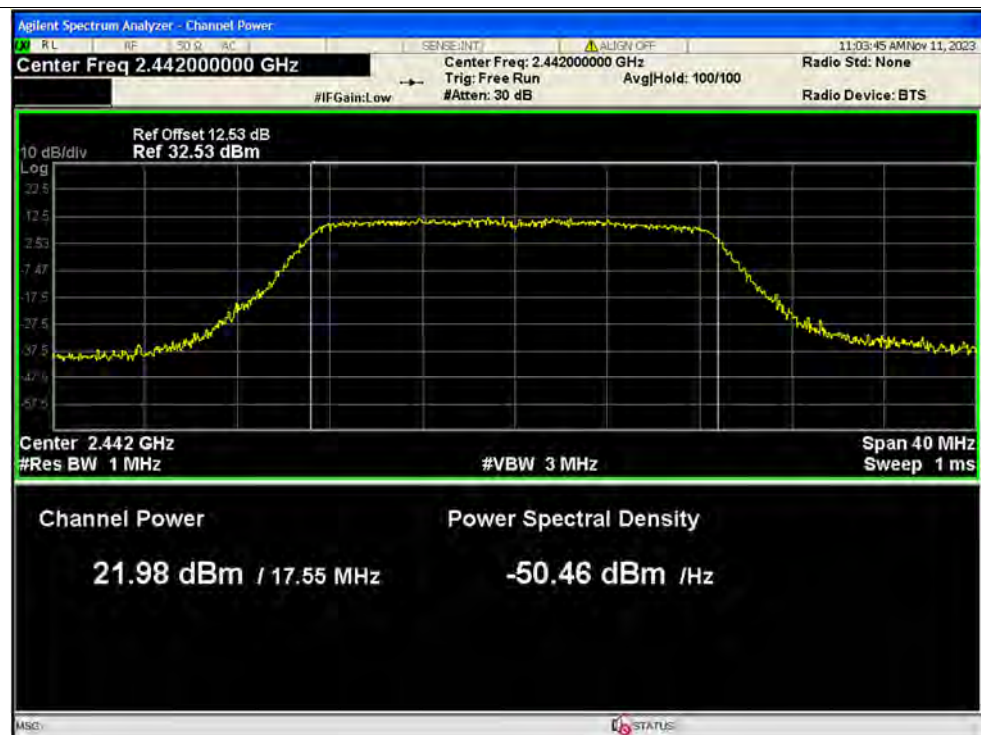
Peak Power NVNT n20 2412MHz Ant2 MIMO



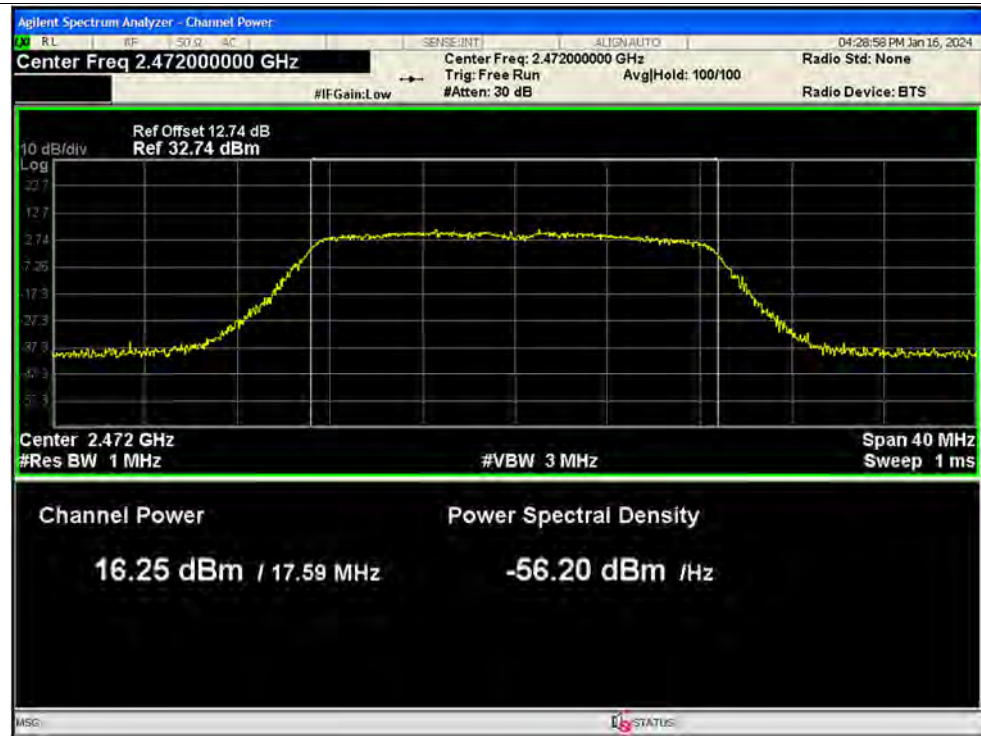
Peak Power NVNT n20 2442MHz Ant1 MIMO



Peak Power NVNT n20 2442MHz Ant2 MIMO



Peak Power NVNT n20 2472MHz Ant1 MIMO

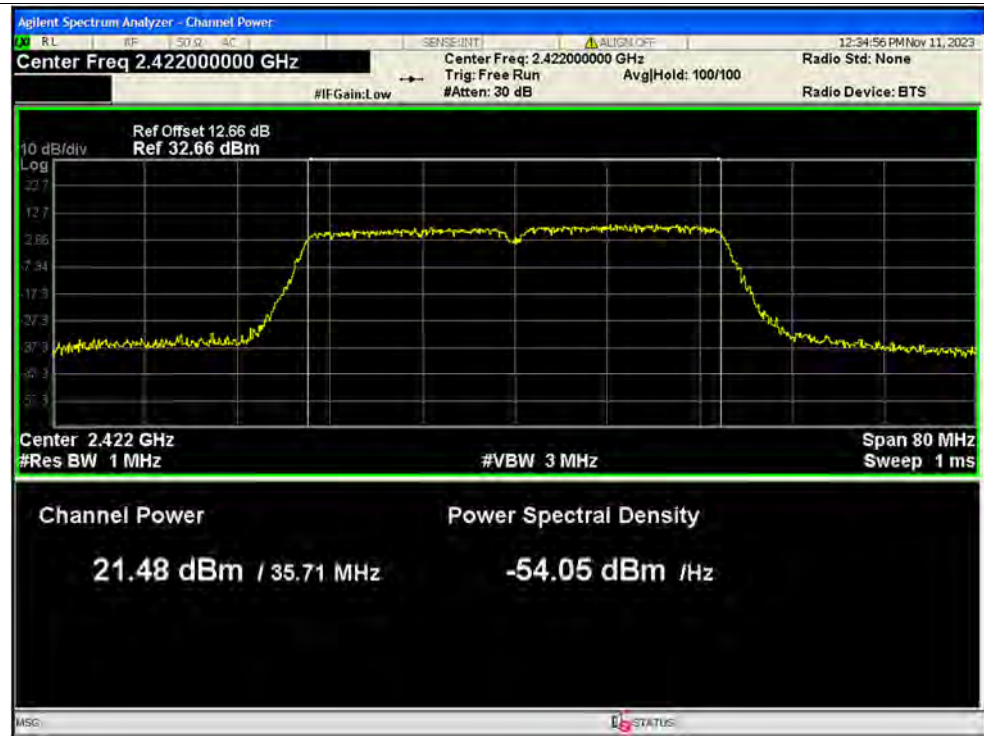


Peak Power NVNT n20 2472MHz Ant2 MIMO

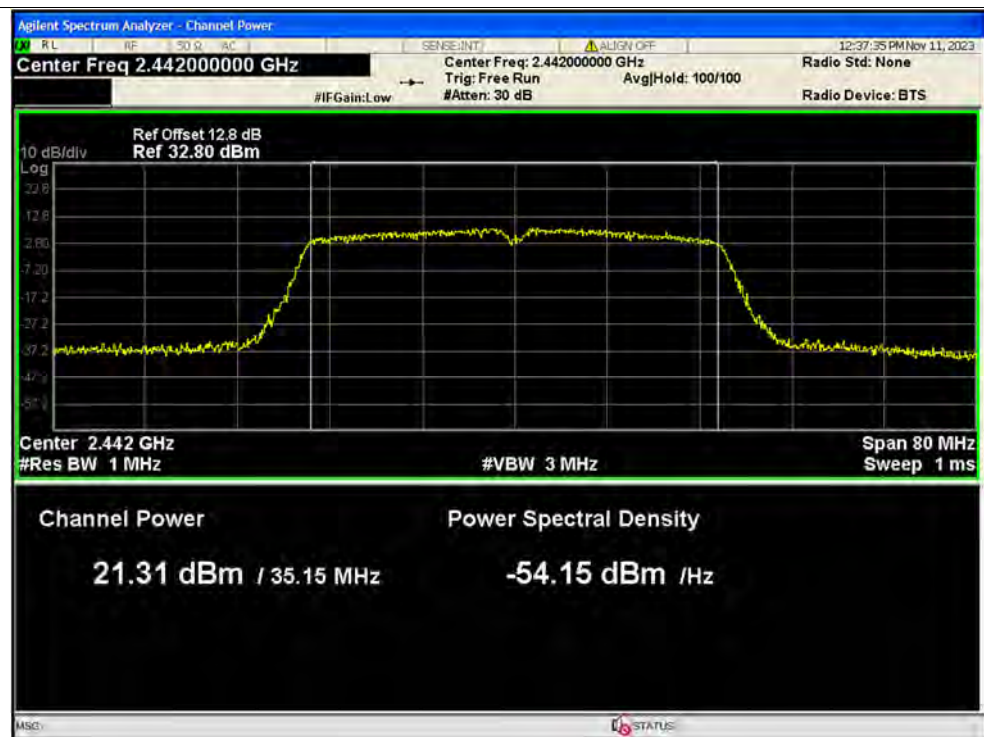




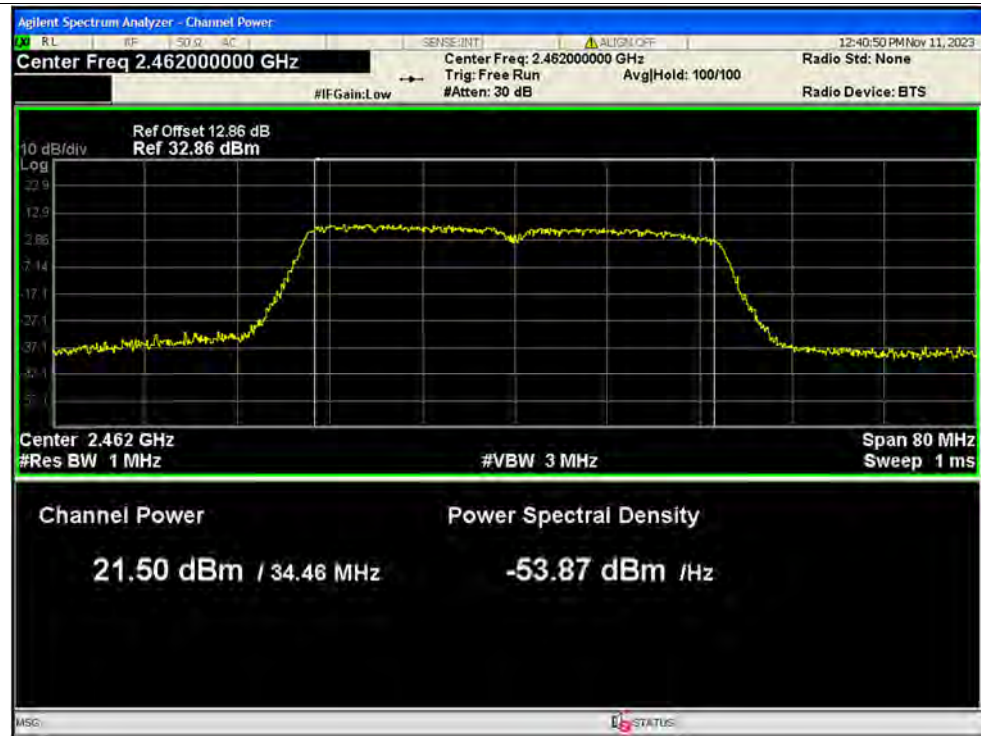
Peak Power NVNT n40 2422MHz Ant1 SISO



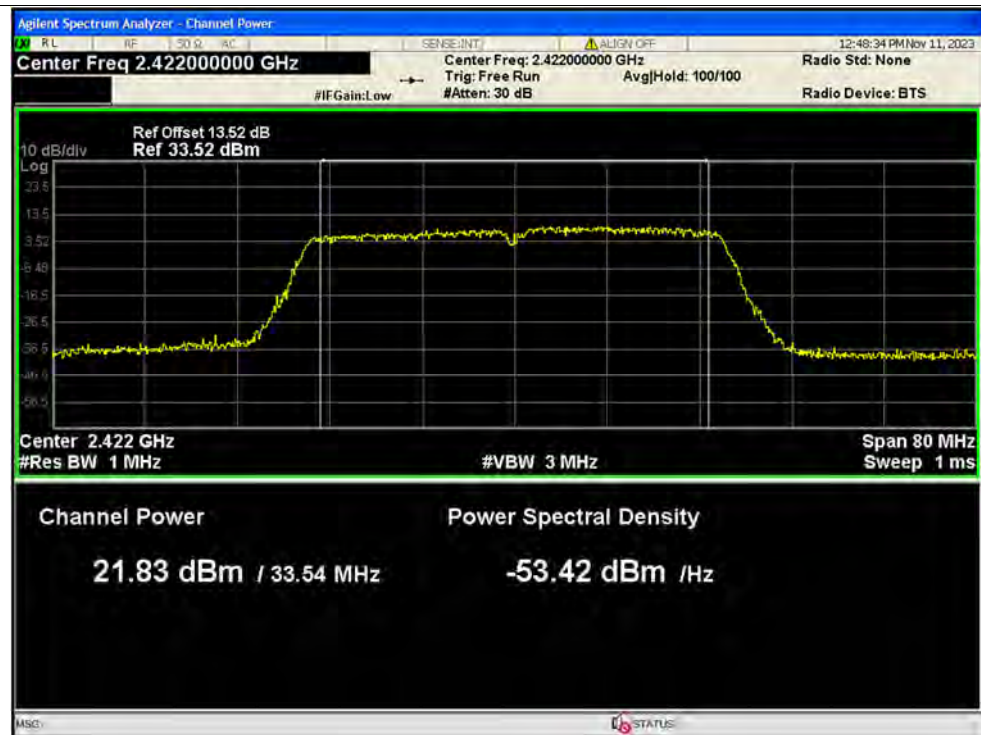
Peak Power NVNT n40 2442MHz Ant1 SISO



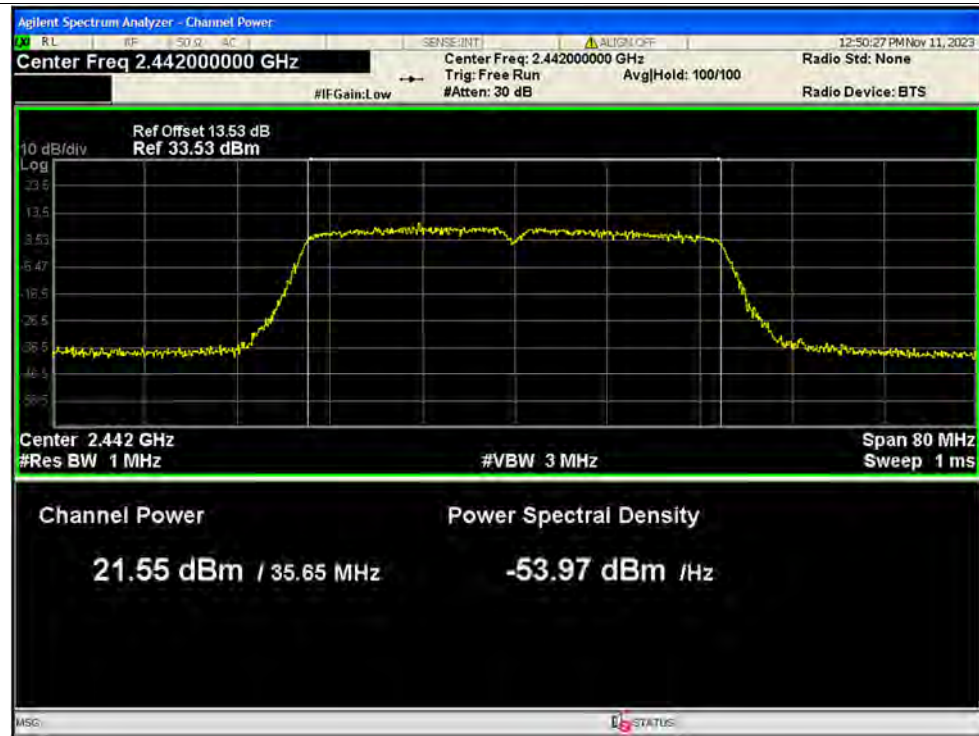
Peak Power NVNT n40 2462MHz Ant1 SISO



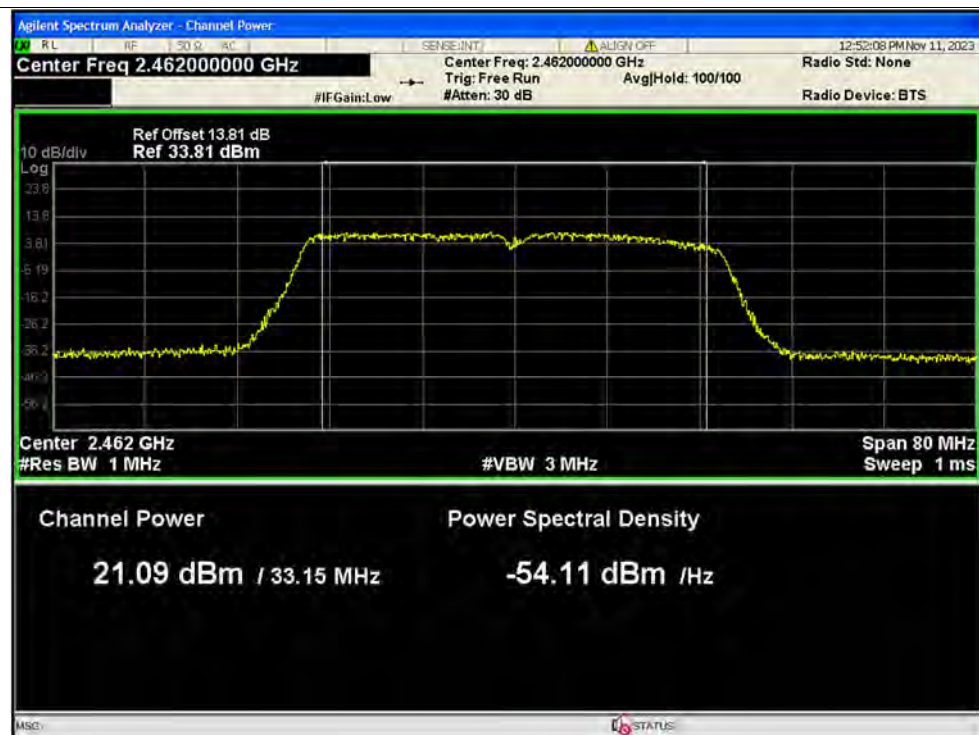
Peak Power NVNT n40 2422MHz Ant2 SISO



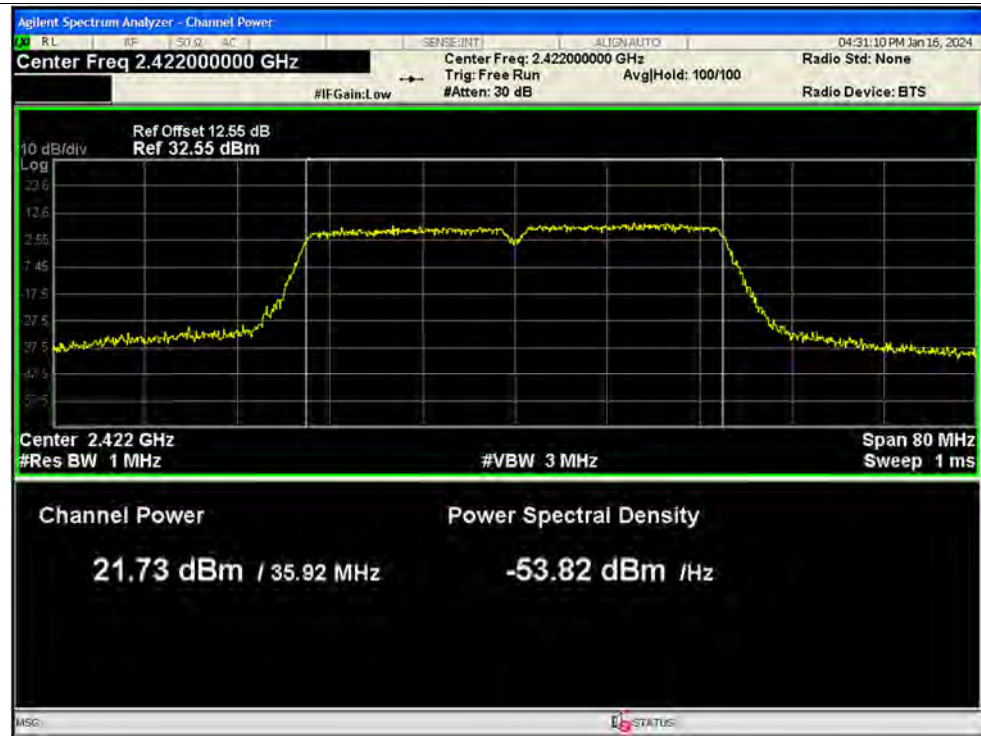
Peak Power NVNT n40 2442MHz Ant2 SISO



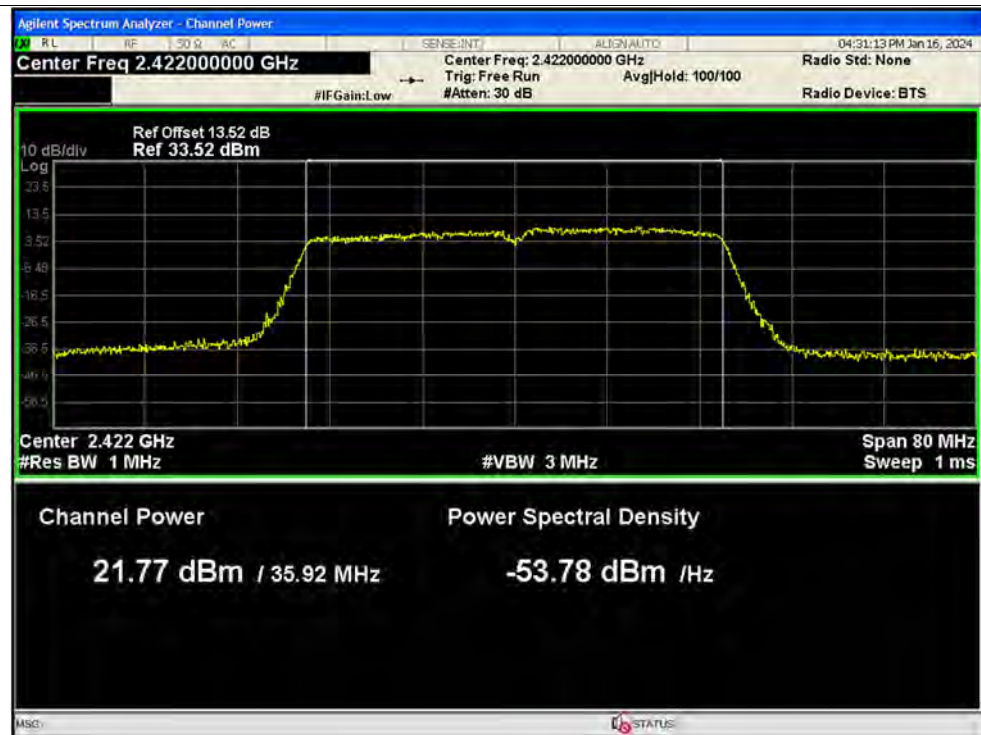
Peak Power NVNT n40 2462MHz Ant2 SISO



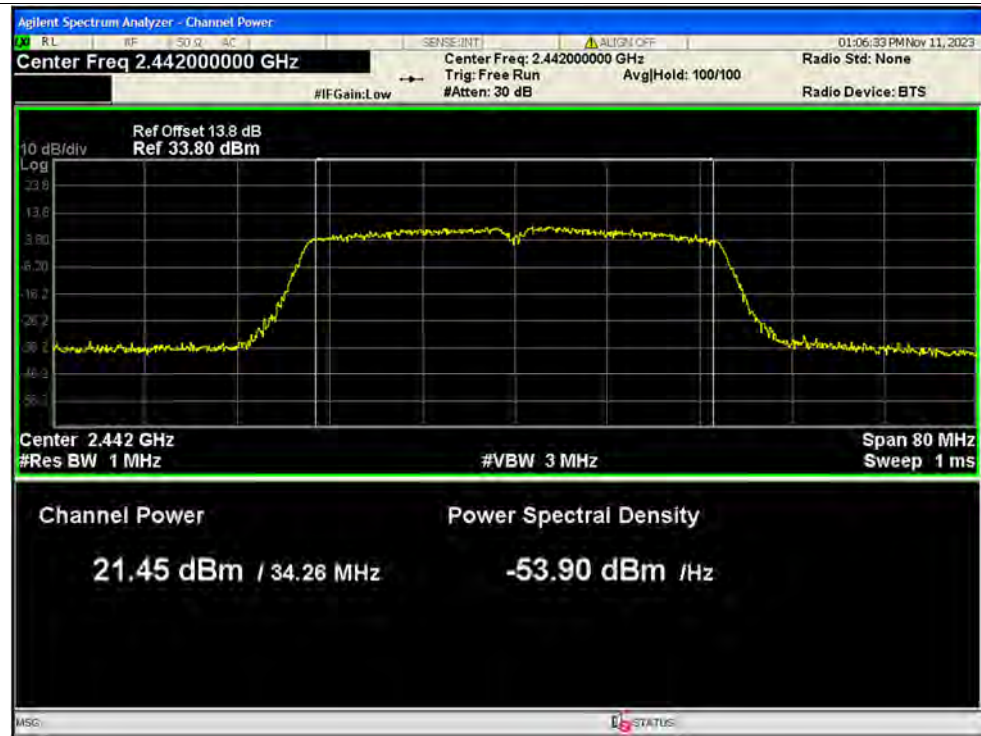
Peak Power NVNT n40 2422MHz Ant1 MIMO



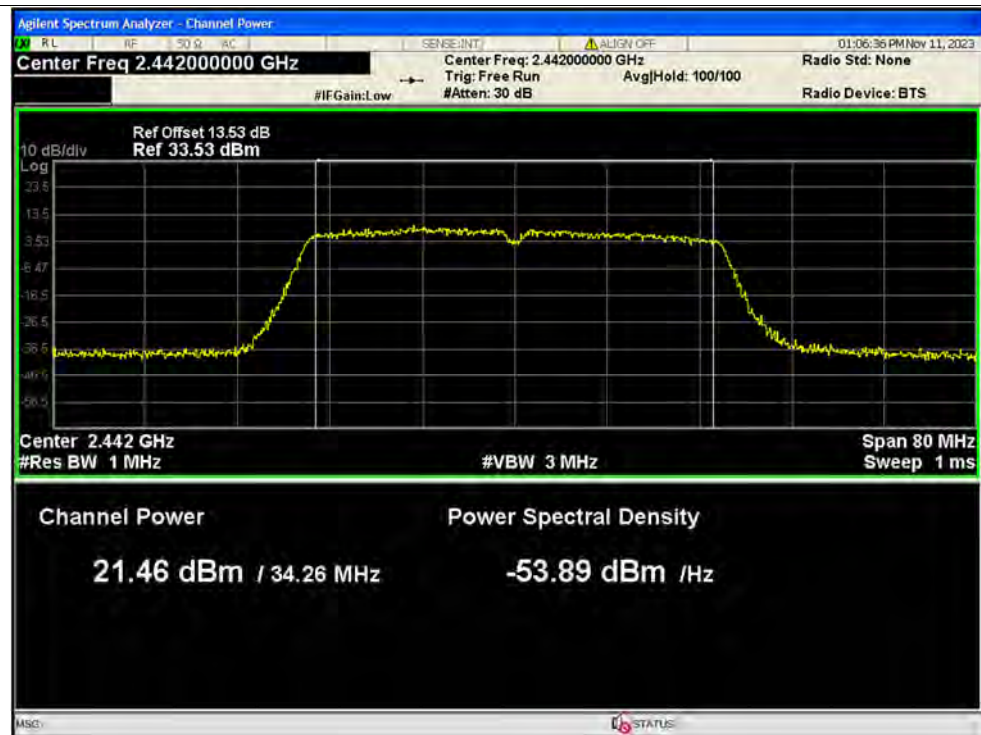
Peak Power NVNT n40 2422MHz Ant2 MIMO



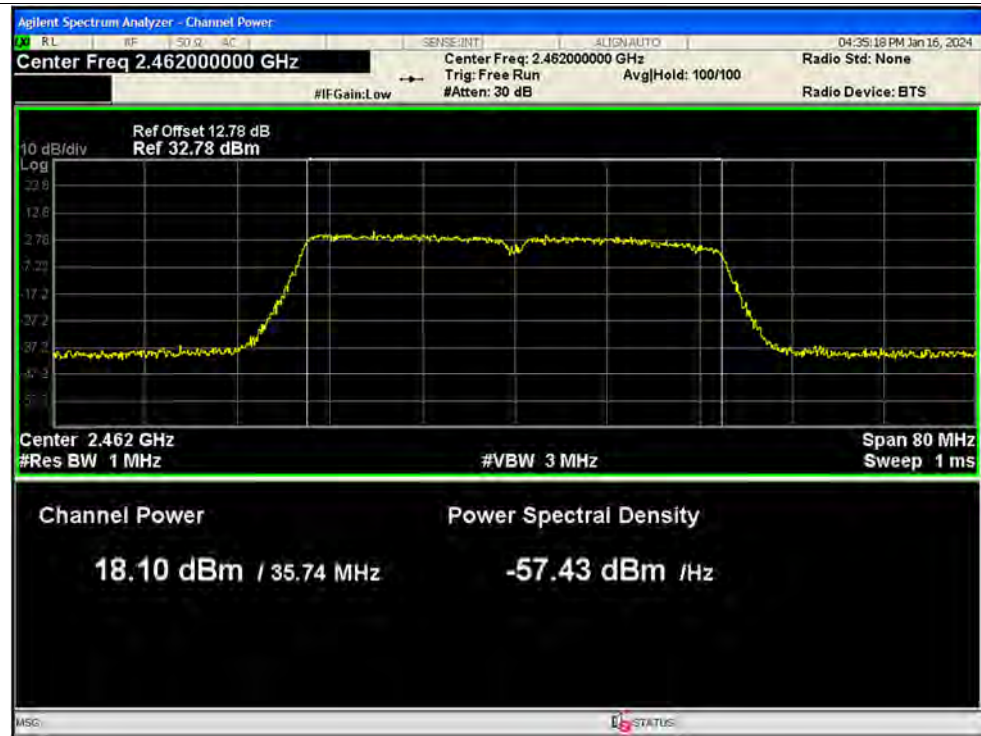
Peak Power NVNT n40 2442MHz Ant1 MIMO



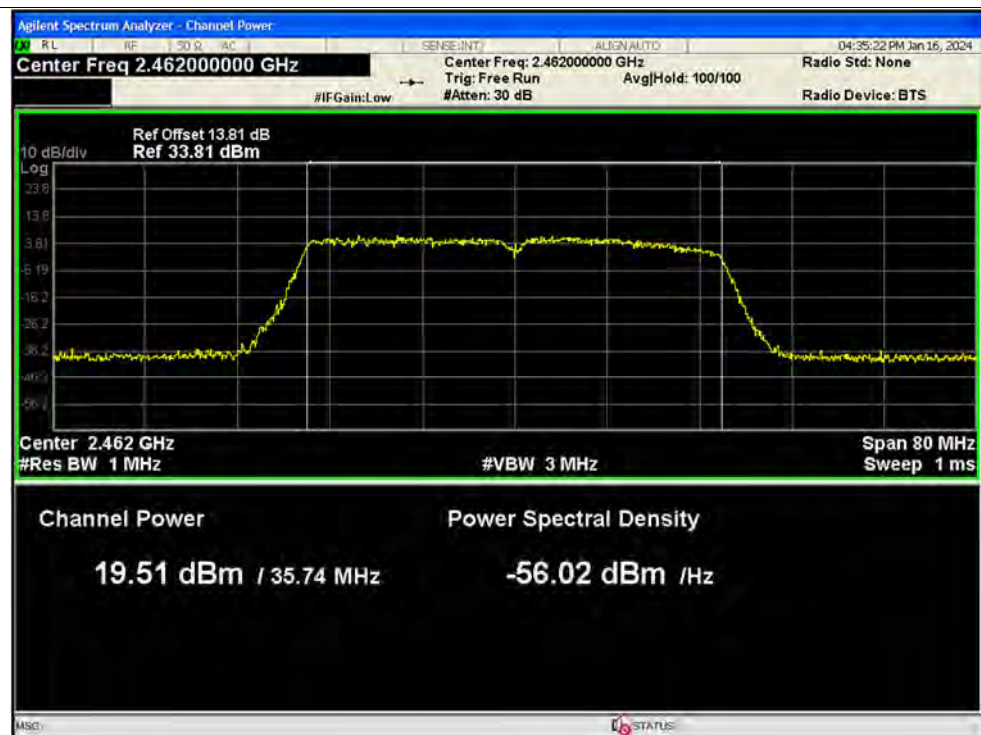
Peak Power NVNT n40 2442MHz Ant2 MIMO



Peak Power NVNT n40 2462MHz Ant1 MIMO

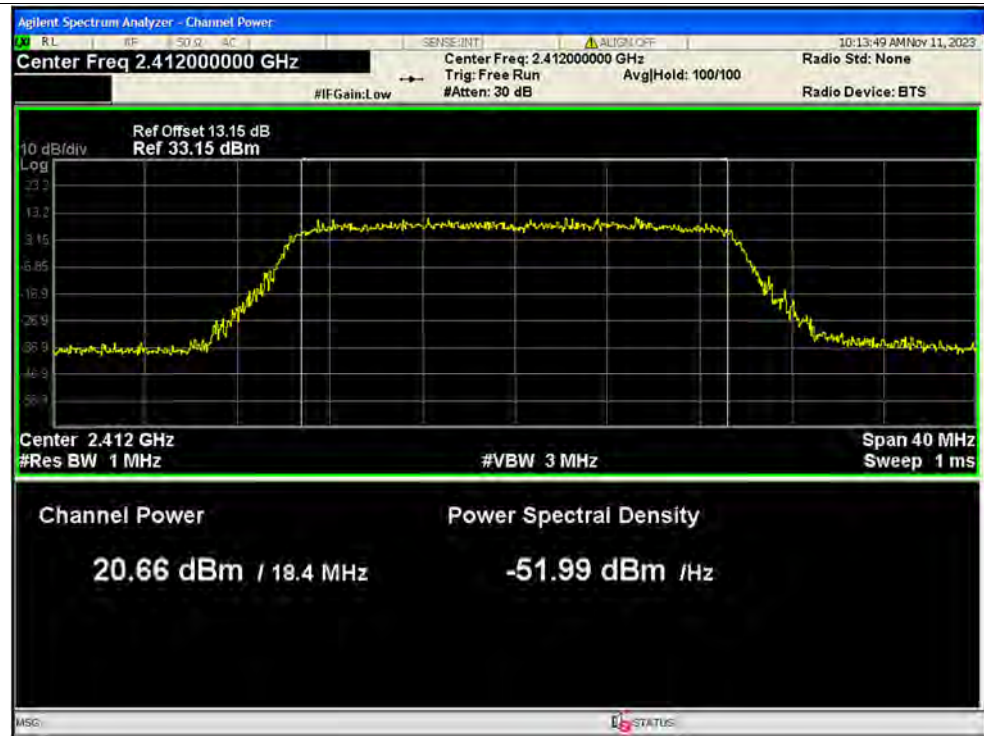


Peak Power NVNT n40 2462MHz Ant2 MIMO

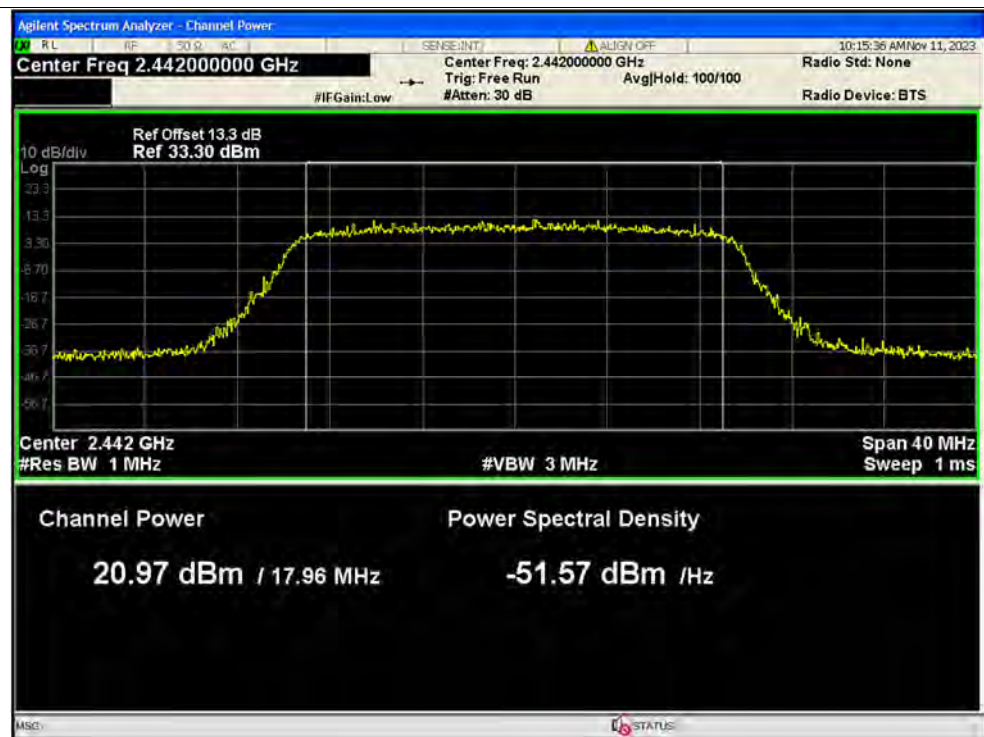




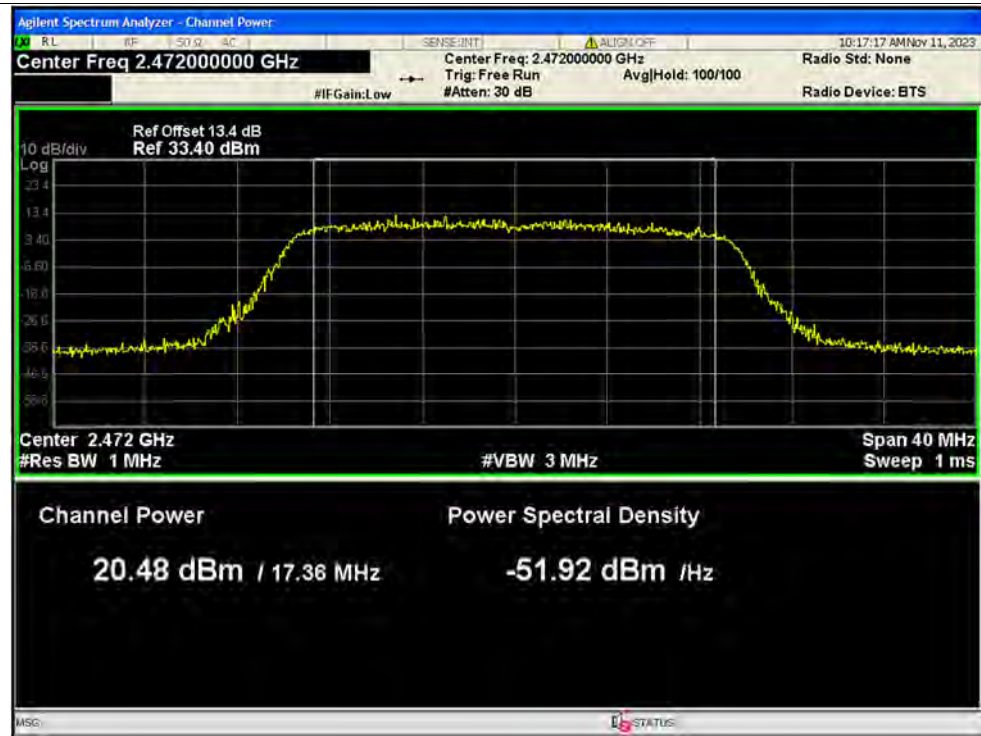
Peak Power NVNT ax20 2412MHz Ant1 SISO



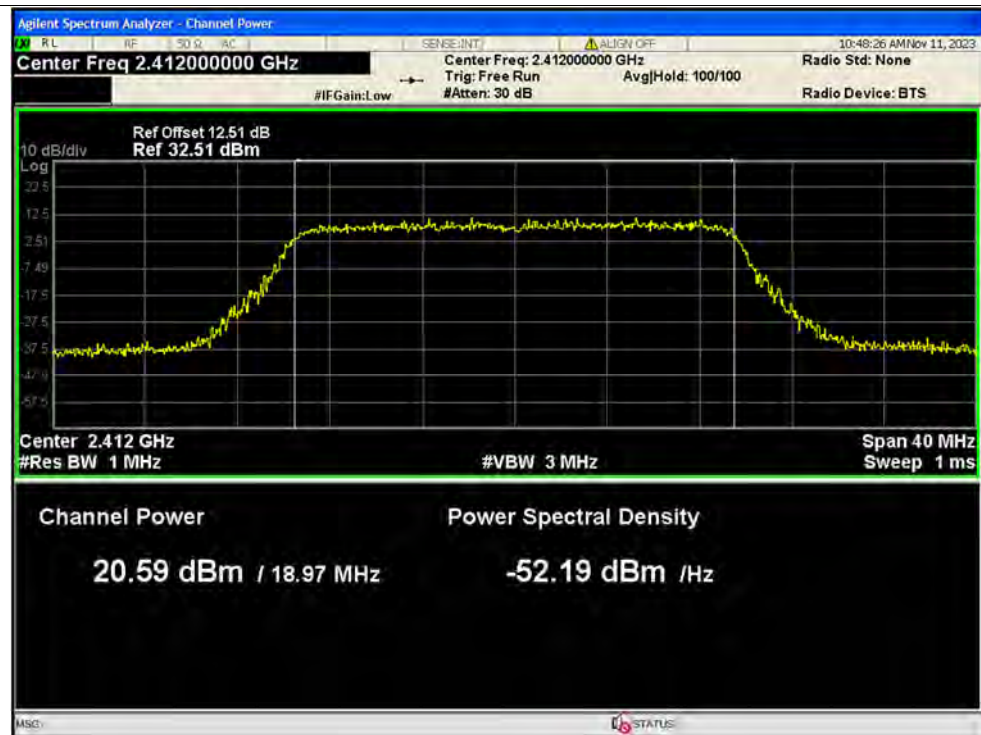
Peak Power NVNT ax20 2442MHz Ant1 SISO



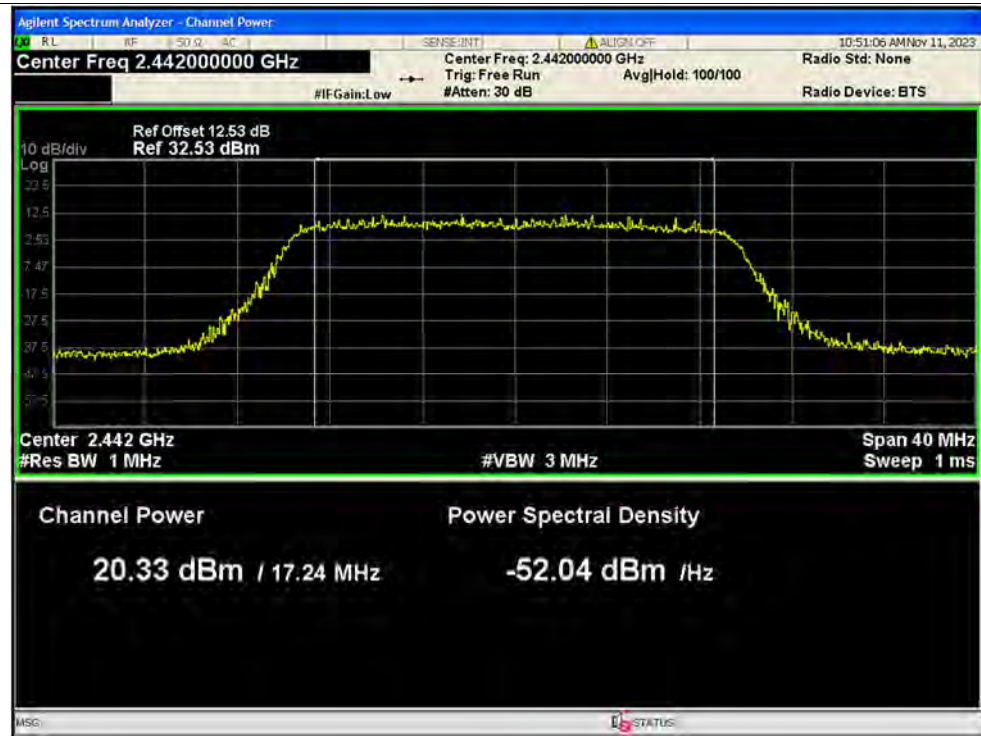
Peak Power NVNT ax20 2472MHz Ant1 SISO



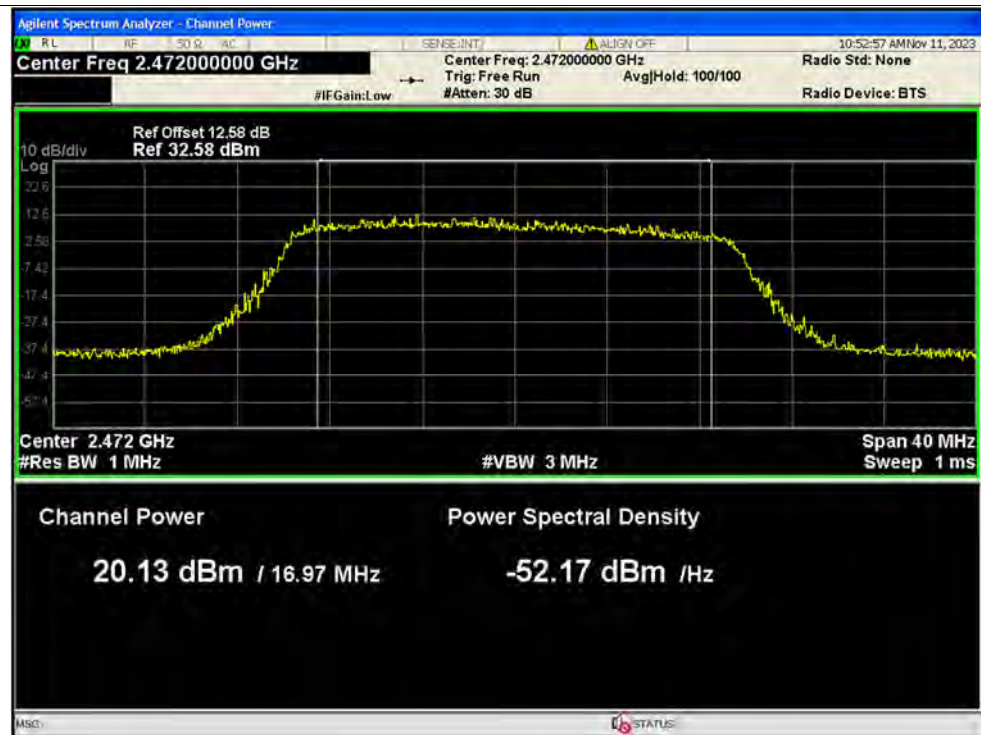
Peak Power NVNT ax20 2412MHz Ant2 SISO



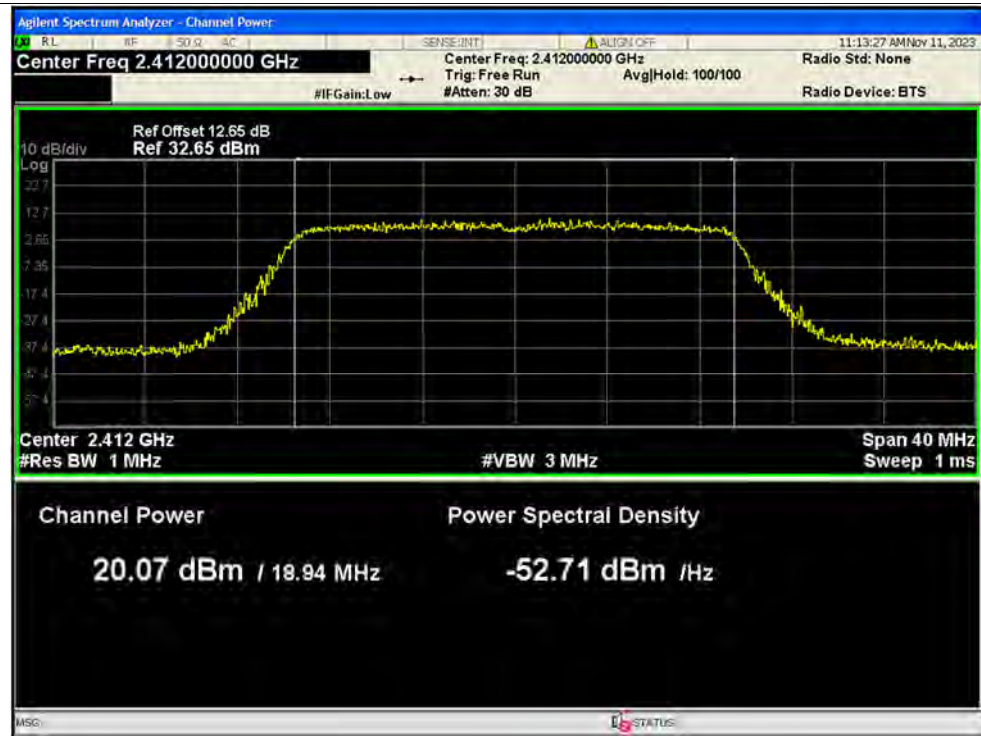
Peak Power NVNT ax20 2442MHz Ant2 SISO



Peak Power NVNT ax20 2472MHz Ant2 SISO



Peak Power NVNT ax20 2412MHz Ant1 MIMO



Peak Power NVNT ax20 2412MHz Ant2 MIMO

