



REPORT No.: SZ24070014W02

TEST REPORT

APPLICANT : MARMA SECURITY INC

PRODUCT NAME : MarmaSecurity V2.0

MODEL NAME : MarmaSecurity V2.0

BRAND NAME : Marma Security Inc

FCC ID : 2BKM9-MSDV2

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-07-03

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Change History		
Version	Date	Reason for change
1.0	2024-09-05	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	No deviation
2	N/A	Duty Cycle of Test Signal	Jul. 22&26, 2024	Li Xinpeng	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Jul. 22&26, 2024	Li Xinpeng	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Jul. 22&26, 2024	Li Xinpeng	PASS	No deviation
5	15.247(a)	Bandwidth	Jul. 15&26, 2024	Li Xinpeng	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Aug. 06, 2024	Li Xinpeng	PASS	No deviation
7	15.247(e)	Power Spectral Density	Aug. 06, 2024	Li Xinpeng	PASS	No deviation
8	15.207	Conducted Emission	Jul. 15, 2024	Wang Deyong	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Aug. 01&14, 2024	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Aug. 01, 2024	Gao Jianrou	PASS	No deviation

Note 1: All test items are tested and evaluated in the worse mode with reference to output power results.

Note 2: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 3: 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 4: 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	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
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	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

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	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
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
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FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	MARMA SECURITY INC
Applicant Address	211 Hebron Circle, Sacramento, California, United States
Manufacturer	MARMA SECURITY INC
Manufacturer Address	211 Hebron Circle, Sacramento, California, United States

2.2. Information of EUT

Product Name:	MarmaSecurity V2.0
Sample No.:	1#
Hardware Version:	WIFI Gateway - QM8400 - MAR24 - VER 1.1
Software Version:	mt7986a-emmc-20240413-single-image
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:	ANT 1: FPC Antenna ANT 2: PCB Antenna ANT 3: PCB Antenna ANT 4: FPC Antenna
Antenna Gain:	ANT 1: 2.71dBi ANT 2: 2.35dBi ANT 3: 2.91dBi ANT 4: 4.18dBi
Directional Gain:	9.09dBi ^{Note 2}

Note 1: The EUT supports a MIMO function. Physically, the EUT provides four completed transmitters and four receivers for 802.11n and 802.11ax modulation mode.

Modulation Mode:	TX Function
802.11b/g	1TX
802.11n	4TX
802.11ax	4TX

Note 2: According to KDB 662911 D01, the directional gain = $10\log[(10^{G1/20} + 10^{G2/20})^2/2] = 9.09\text{dBi}$.

Note 3: All radiation test items for 802.11n modulation mode operate at MIMO mode during the test.



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Other modulation mode operate at SISO mode, all of the four antennas were tested separately, we only recorded the worst test result(ANT 4) in this report.

Note 4: 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

2.4.1.802.11ax ru allocation

For ru allocation of 802.11ax, only full ru configuration is supported.

2.4.2.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	6/9/12/18/24/36/48/54Mbps	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	N/A
			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.

2.4.3.Operation and Transmitter Power Level Setting

The EUT was tested while in a continues transmitter/receiver mode under the control of tool which is provided by manufacturer, all the items of transmitter were tested under the power setting as below:

Modulation Technology	Power Setting (U-NII 5/6/7/8)				
	ANT 1	ANT 2	ANT 3	ANT 4	ANT 1+2+3+4
802.11b	31.5	31.5	31.5	31.5	20
802.11g	28	29	28	28	20
802.11n (HT20)	28	29	30	30	20
802.11n (HT40)	30	29	30	30	20
802.11ac (VHT80)	30	29	30	30	20
802.11ax (HE20)	30	28	30	29	20
802.11ax (HE40)	31.5	31.5	31.5	31.5	20

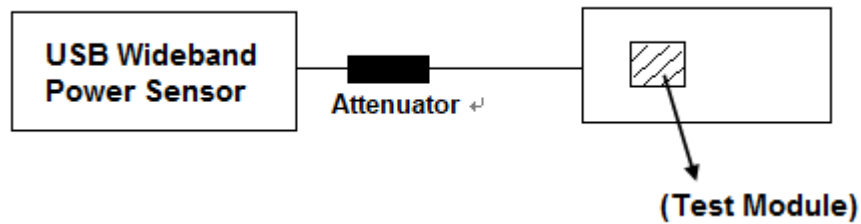
2.5.Test Conditions

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

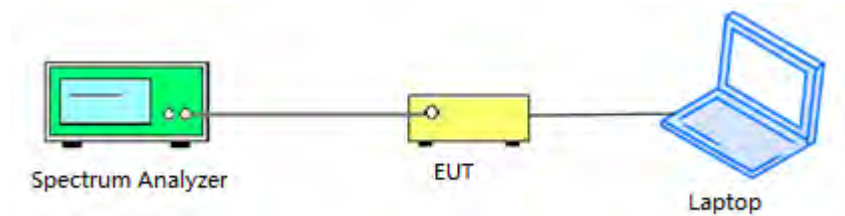
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

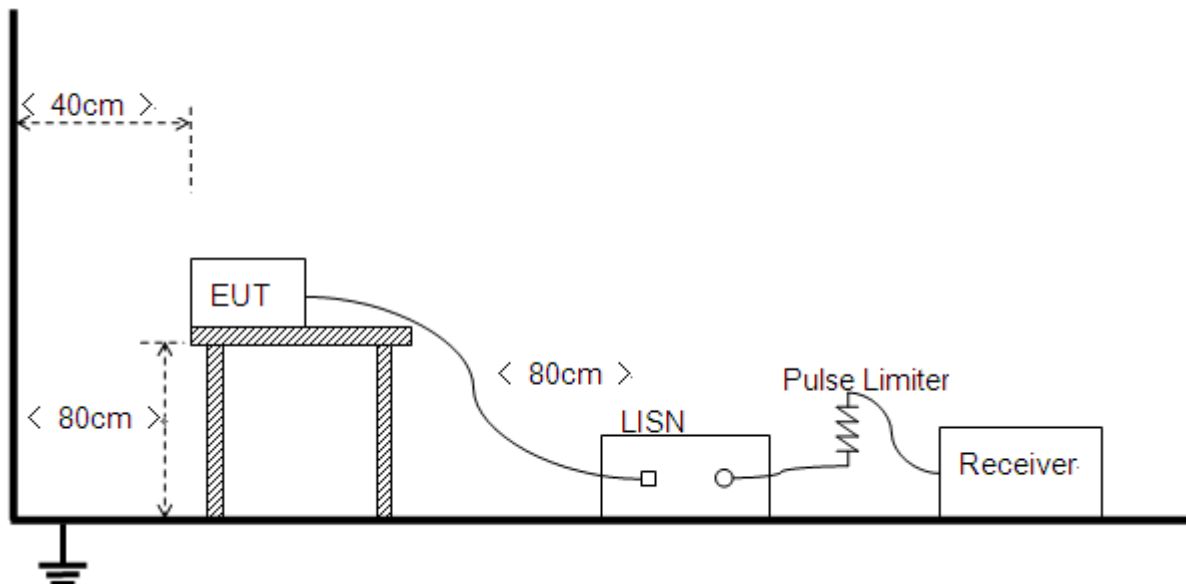
Power item



Other items

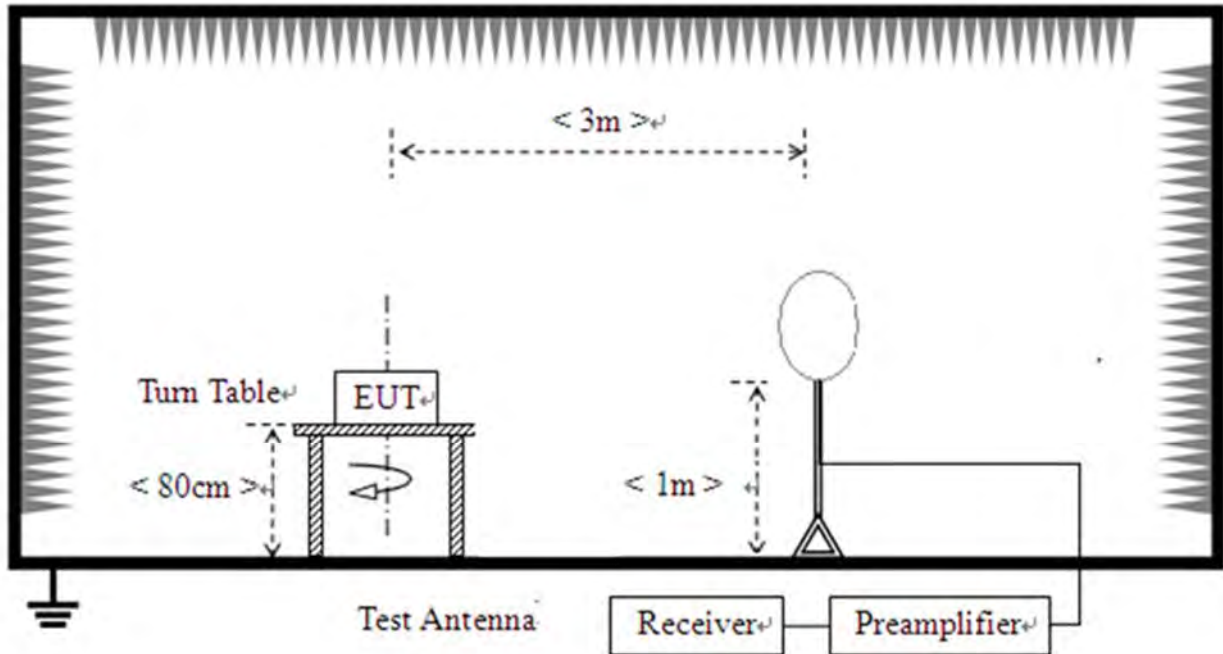


2.6.2. Conducted Emission Measurement

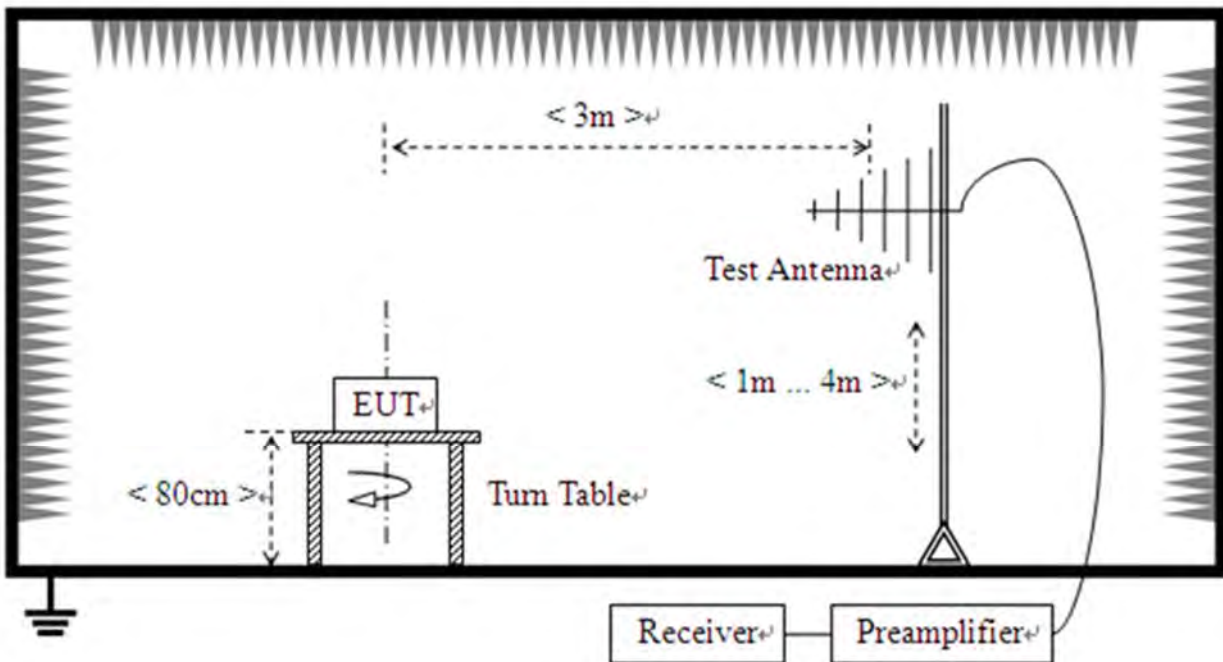


2.6.3.Radiation Measurement

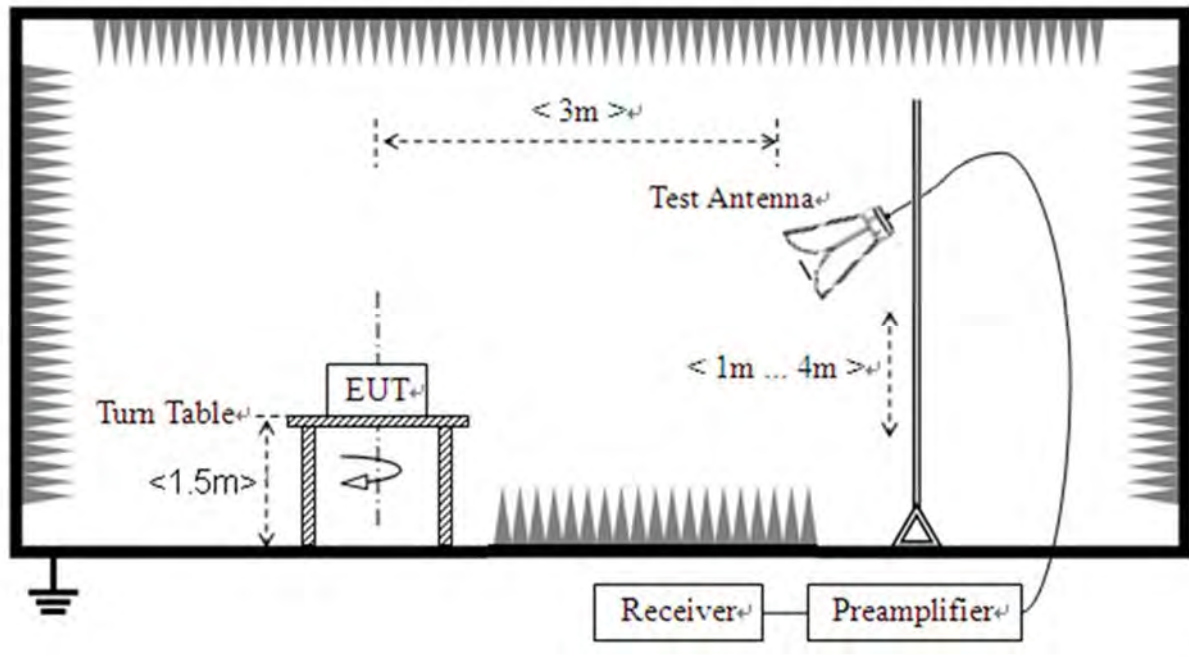
1) For radiated emissions from 9kHz to 30MHz



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

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☒ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☒ PCB Antenna ☐ PIFA Antenna	☒ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☐ Metal Shrapnel ☒ Layout



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 ($\mu\text{V}/\text{m}$)	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 SISO	2412	Ant1	99.34	0.03	0.12
NVNT	b SISO	2442	Ant1	99.34	0.03	0.12
NVNT	b SISO	2472	Ant1	99.34	0.03	0.12
NVNT	b SISO	2412	Ant2	99.36	0.03	0.12
NVNT	b SISO	2442	Ant2	99.34	0.03	0.12
NVNT	b SISO	2472	Ant2	99.34	0.03	0.12
NVNT	b SISO	2412	Ant3	99.34	0.03	0.12
NVNT	b SISO	2442	Ant3	99.34	0.03	0.12
NVNT	b SISO	2472	Ant3	99.34	0.03	0.12
NVNT	b SISO	2412	Ant4	99.34	0.03	0.12
NVNT	b SISO	2442	Ant4	99.34	0.03	0.12
NVNT	b SISO	2472	Ant4	99.34	0.03	0.12
NVNT	g SISO	2412	Ant1	96.15	0.17	0.72
NVNT	g SISO	2442	Ant1	96.14	0.17	0.72
NVNT	g SISO	2472	Ant1	96.15	0.17	0.72
NVNT	g SISO	2412	Ant2	96.14	0.17	0.72
NVNT	g SISO	2442	Ant2	96.01	0.18	0.72
NVNT	g SISO	2472	Ant2	96.01	0.18	0.72
NVNT	g SISO	2412	Ant3	96.15	0.17	0.72
NVNT	g SISO	2442	Ant3	96.15	0.17	0.72
NVNT	g SISO	2472	Ant3	96.15	0.17	0.72
NVNT	g SISO	2412	Ant4	96.15	0.17	0.72
NVNT	g SISO	2442	Ant4	96.15	0.17	0.72
NVNT	g SISO	2472	Ant4	96.15	0.17	0.72
NVNT	n20 SISO	2412	Ant1	96.04	0.18	0.76
NVNT	n20 SISO	2442	Ant1	96.04	0.18	0.76
NVNT	n20 SISO	2472	Ant1	95.9	0.18	0.76
NVNT	n20 SISO	2412	Ant2	95.89	0.18	0.77
NVNT	n20 SISO	2442	Ant2	95.88	0.18	0.77
NVNT	n20 SISO	2472	Ant2	95.89	0.18	0.77
NVNT	n20 SISO	2412	Ant3	95.89	0.18	0.77
NVNT	n20 SISO	2442	Ant3	95.88	0.18	0.77



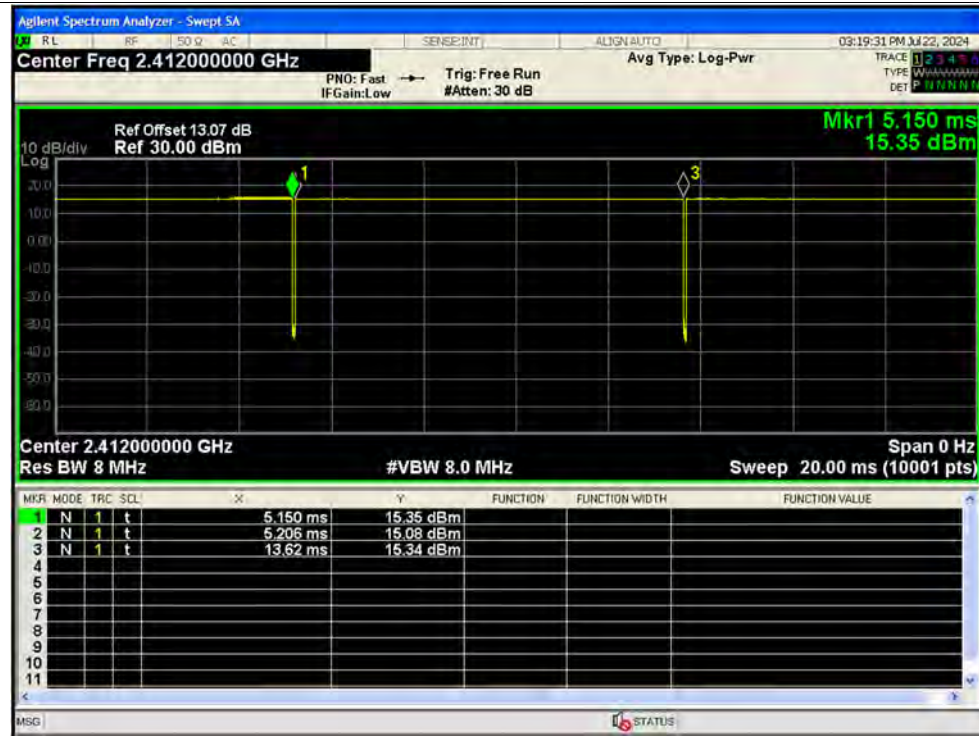
NVNT	n20 SISO	2472	Ant3	95.89	0.18	0.77
NVNT	n20 SISO	2412	Ant4	96.03	0.18	0.77
NVNT	n20 SISO	2442	Ant4	95.88	0.18	0.77
NVNT	n20 SISO	2472	Ant4	95.89	0.18	0.77
NVNT	n20 MIMO	2412	Sum	95.75	0.19	0.76
NVNT	n20 MIMO	2442	Sum	95.9	0.18	0.76
NVNT	n20 MIMO	2472	Sum	95.89	0.18	0.76
NVNT	n40 SISO	2422	Ant1	92.05	0.36	1.54
NVNT	n40 SISO	2442	Ant1	92.05	0.36	1.54
NVNT	n40 SISO	2462	Ant1	92.05	0.36	1.54
NVNT	n40 SISO	2422	Ant2	92.07	0.36	1.54
NVNT	n40 SISO	2442	Ant2	92.33	0.35	1.54
NVNT	n40 SISO	2462	Ant2	92.07	0.36	1.54
NVNT	n40 SISO	2422	Ant3	92.05	0.36	1.54
NVNT	n40 SISO	2442	Ant3	92.07	0.36	1.54
NVNT	n40 SISO	2462	Ant3	92.05	0.36	1.54
NVNT	n40 SISO	2422	Ant4	92.07	0.36	1.54
NVNT	n40 SISO	2442	Ant4	92.07	0.36	1.54
NVNT	n40 SISO	2462	Ant4	92.07	0.36	1.54
NVNT	n40 MIMO	2422	Sum	92.05	0.36	1.54
NVNT	n40 MIMO	2442	Sum	92.05	0.36	1.54
NVNT	n40 MIMO	2462	Sum	92.05	0.36	1.54
NVNT	ax20 SISO	2412	Ant1	84.86	0.71	3.18
NVNT	ax20 SISO	2442	Ant1	85.33	0.69	3.18
NVNT	ax20 SISO	2472	Ant1	84.78	0.72	3.21
NVNT	ax20 SISO	2412	Ant2	84.95	0.71	3.16
NVNT	ax20 SISO	2442	Ant2	85.03	0.7	3.14
NVNT	ax20 SISO	2472	Ant2	85.03	0.7	3.14
NVNT	ax20 SISO	2412	Ant3	85.03	0.7	3.14
NVNT	ax20 SISO	2442	Ant3	84.95	0.71	3.16
NVNT	ax20 SISO	2472	Ant3	84.95	0.71	3.16
NVNT	ax20 SISO	2412	Ant4	85.03	0.7	3.14
NVNT	ax20 SISO	2442	Ant4	84.95	0.71	3.16
NVNT	ax20 SISO	2472	Ant4	84.95	0.71	3.16
NVNT	ax20 MIMO	2412	Sum	86.14	0.65	2.87
NVNT	ax20 MIMO	2442	Sum	86.14	0.65	2.87
NVNT	ax20 MIMO	2472	Sum	86.14	0.65	2.87
NVNT	ax40 SISO	2422	Ant1	85.33	0.69	3.18



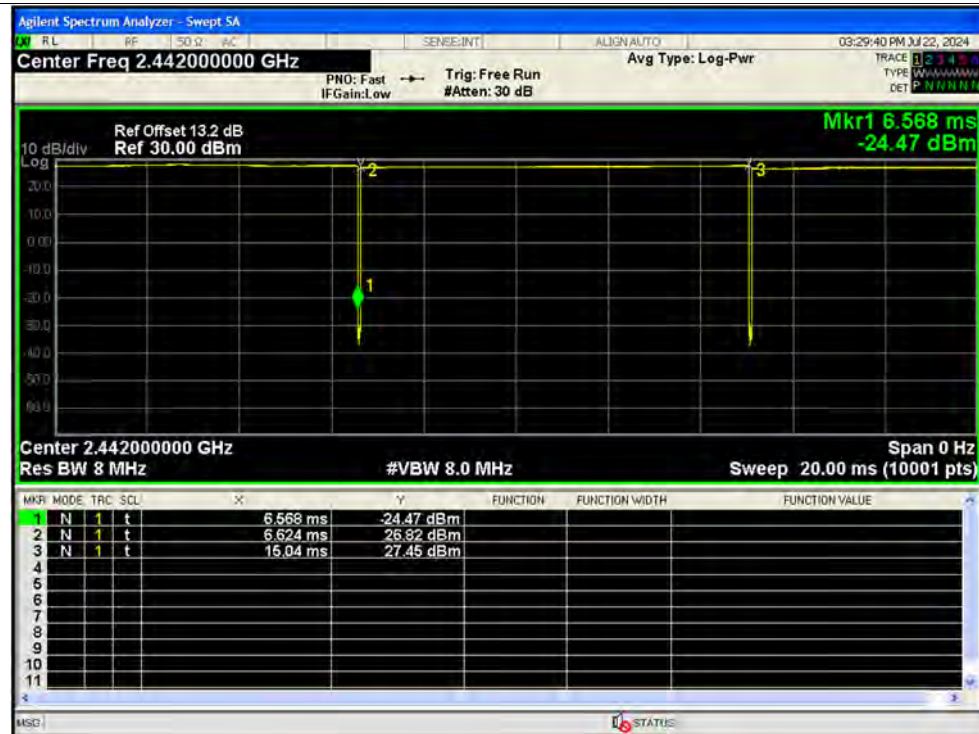
NVNT	ax40 SISO	2442	Ant1	85.33	0.69	3.18
NVNT	ax40 SISO	2462	Ant1	84.86	0.71	3.18
NVNT	ax40 SISO	2422	Ant2	90.73	0.42	1.82
NVNT	ax40 SISO	2442	Ant2	90.73	0.42	1.82
NVNT	ax40 SISO	2462	Ant2	90.73	0.42	1.82
NVNT	ax40 SISO	2422	Ant3	84.78	0.72	3.21
NVNT	ax40 SISO	2442	Ant3	84.78	0.72	3.21
NVNT	ax40 SISO	2462	Ant3	84.78	0.72	3.21
NVNT	ax40 SISO	2422	Ant4	84.86	0.71	3.18
NVNT	ax40 SISO	2442	Ant4	84.86	0.71	3.18
NVNT	ax40 SISO	2462	Ant4	84.78	0.72	3.21
NVNT	ax40 MIMO	2422	Sum	86.14	0.65	2.87
NVNT	ax40 MIMO	2442	Sum	86.14	0.65	2.87
NVNT	ax40 MIMO	2462	Sum	85.64	0.67	2.89

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1 SISO

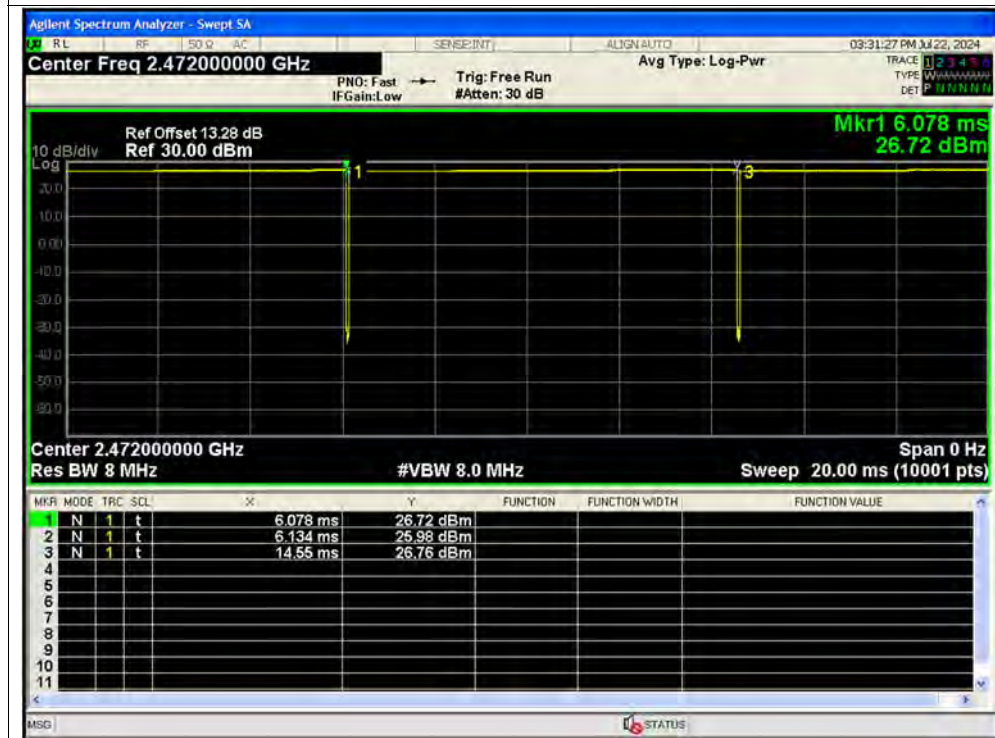


Duty Cycle NVNT b 2442MHz Ant1 SISO

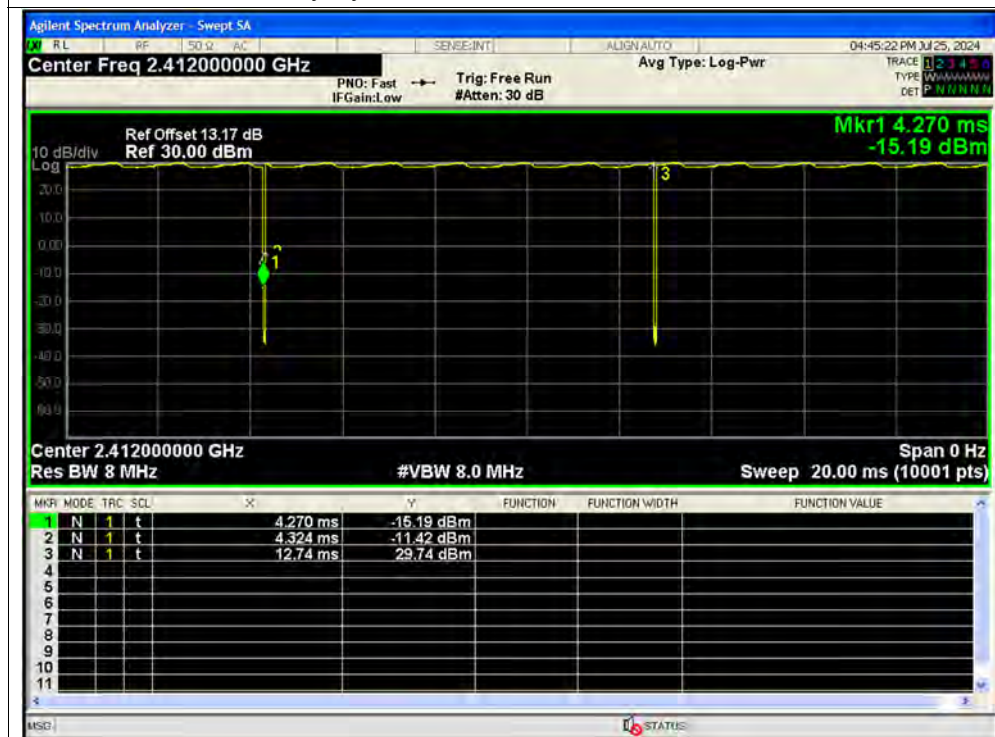




Duty Cycle NVNT b 2472MHz Ant1 SISO

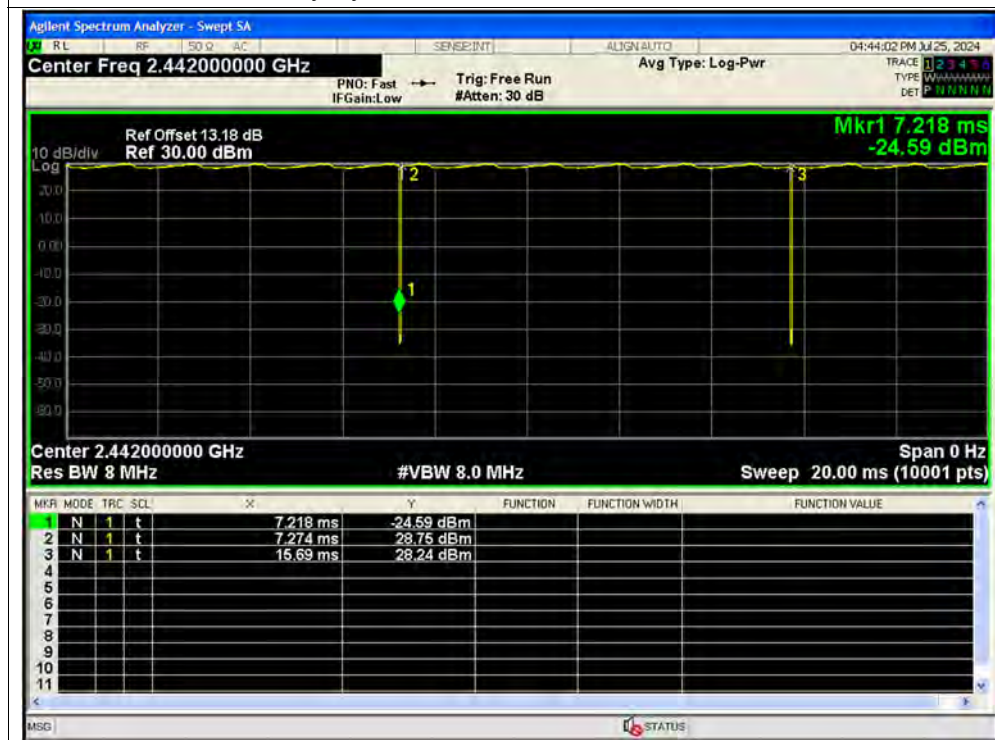


Duty Cycle NVNT b 2412MHz Ant2 SISO

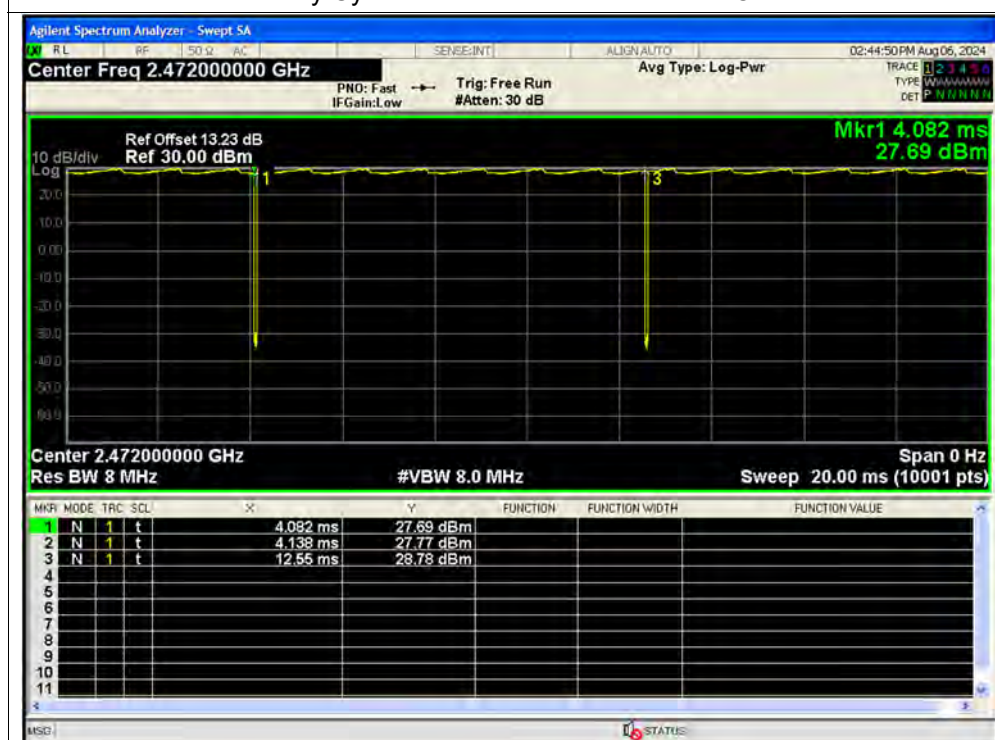




Duty Cycle NVNT b 2442MHz Ant2 SISO

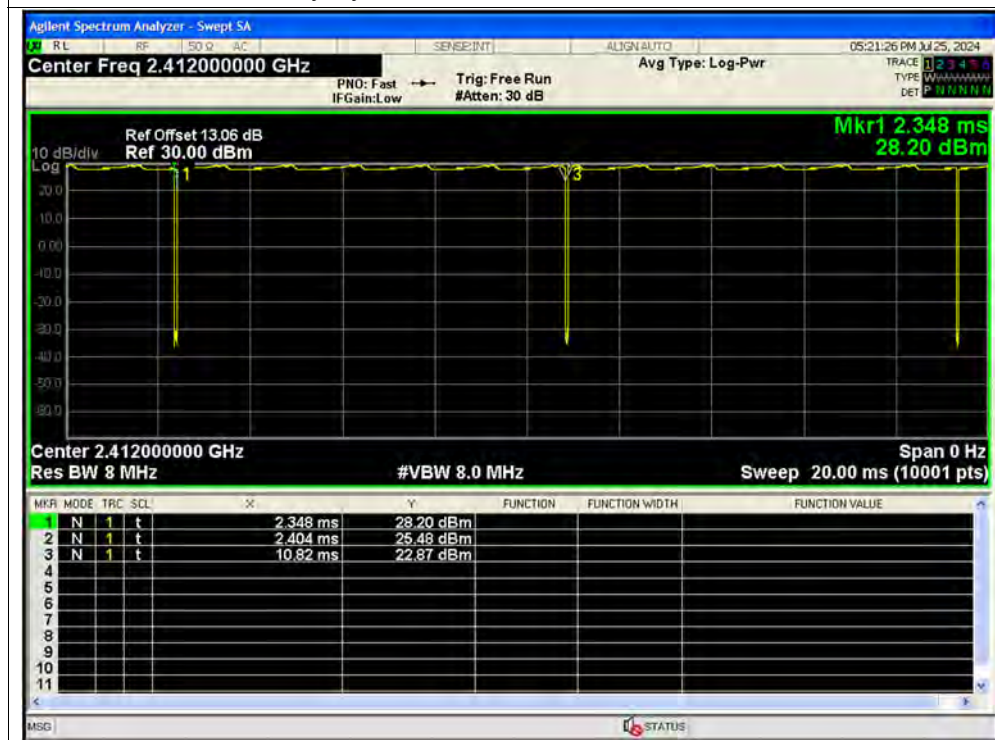


Duty Cycle NVNT b 2472MHz Ant2 SISO

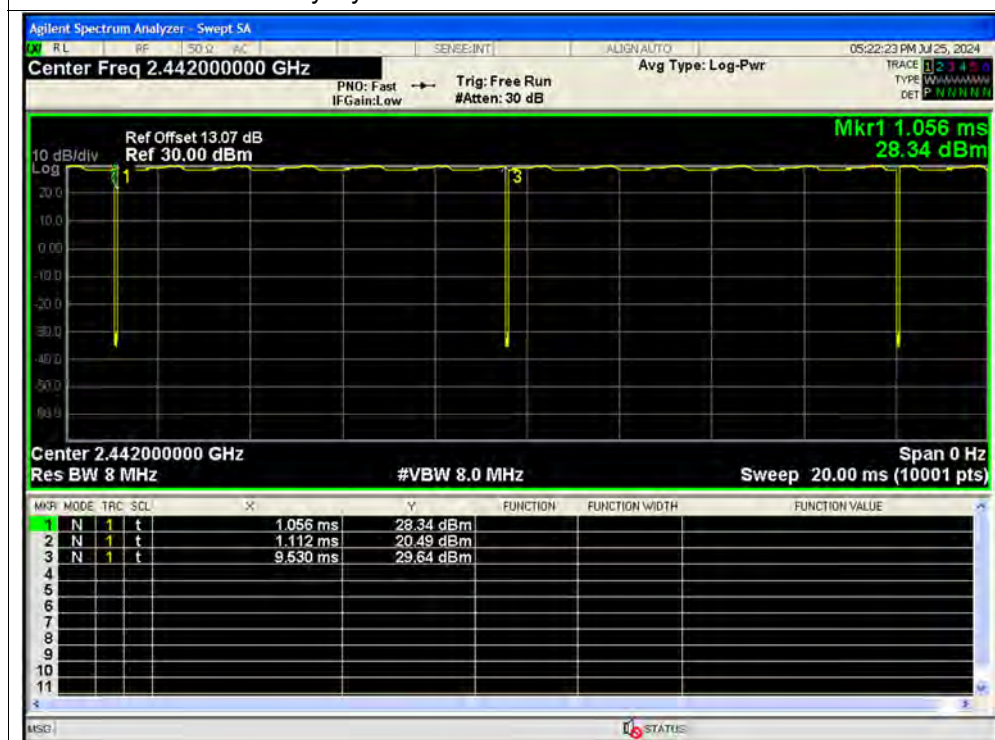




Duty Cycle NVNT b 2412MHz Ant3 SISO

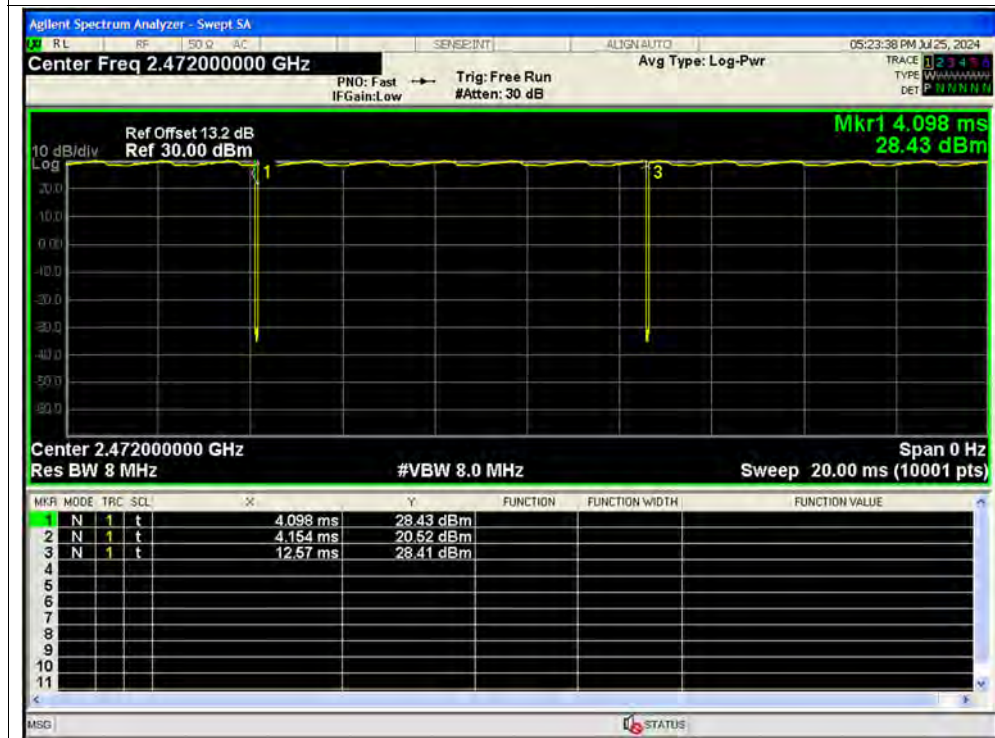


Duty Cycle NVNT b 2442MHz Ant3 SISO

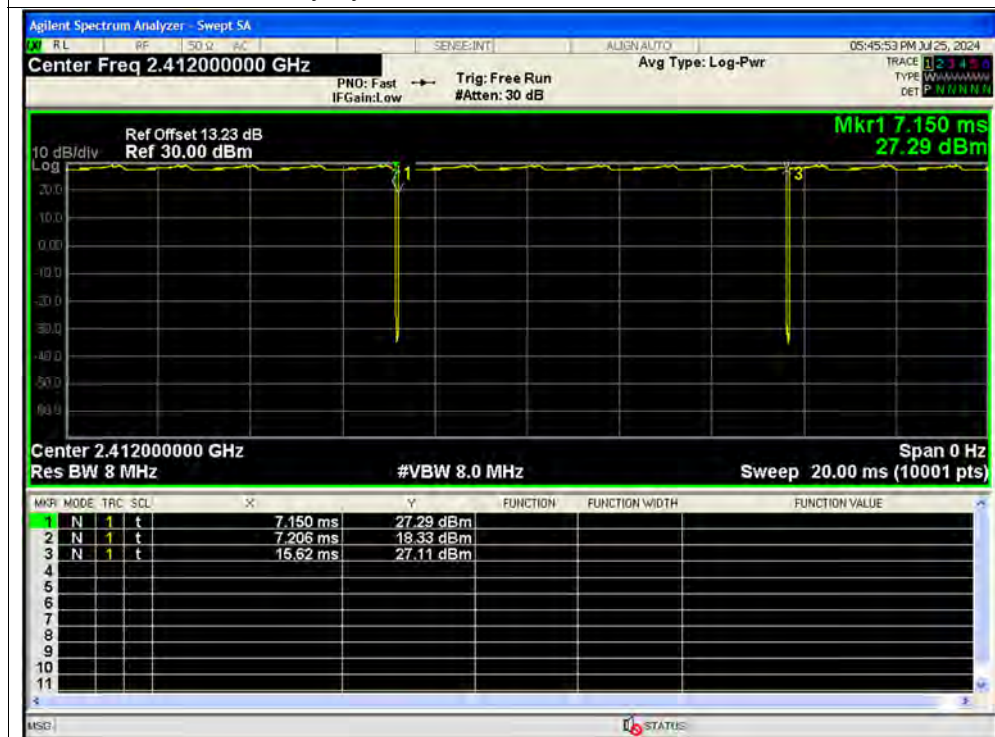




Duty Cycle NVNT b 2472MHz Ant3 SISO

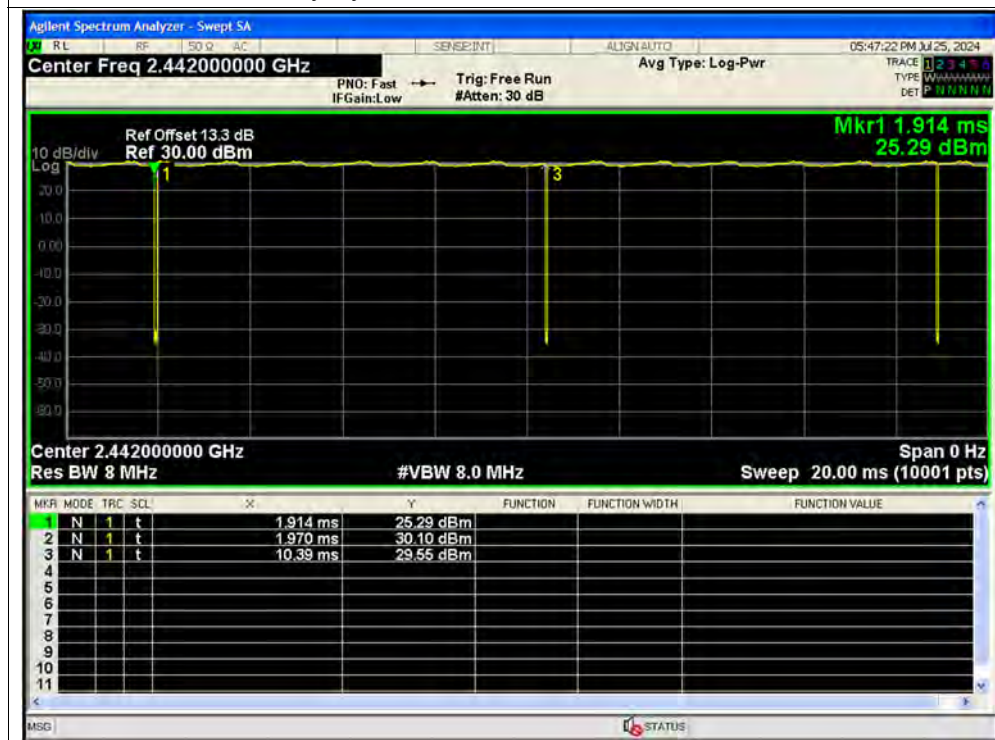


Duty Cycle NVNT b 2412MHz Ant4 SISO

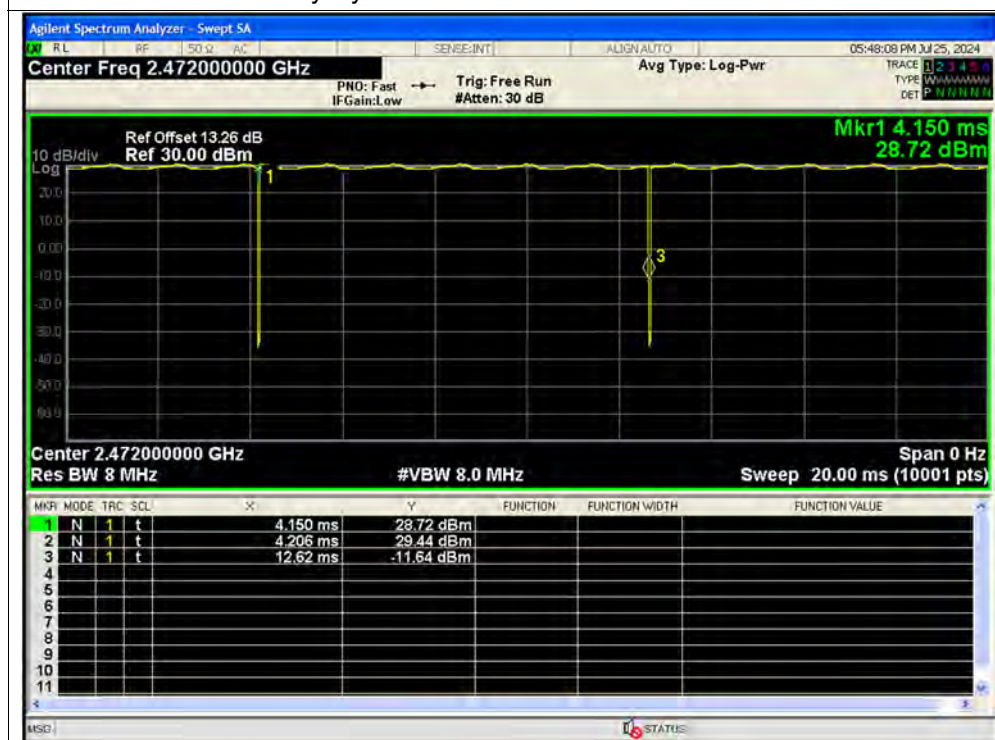




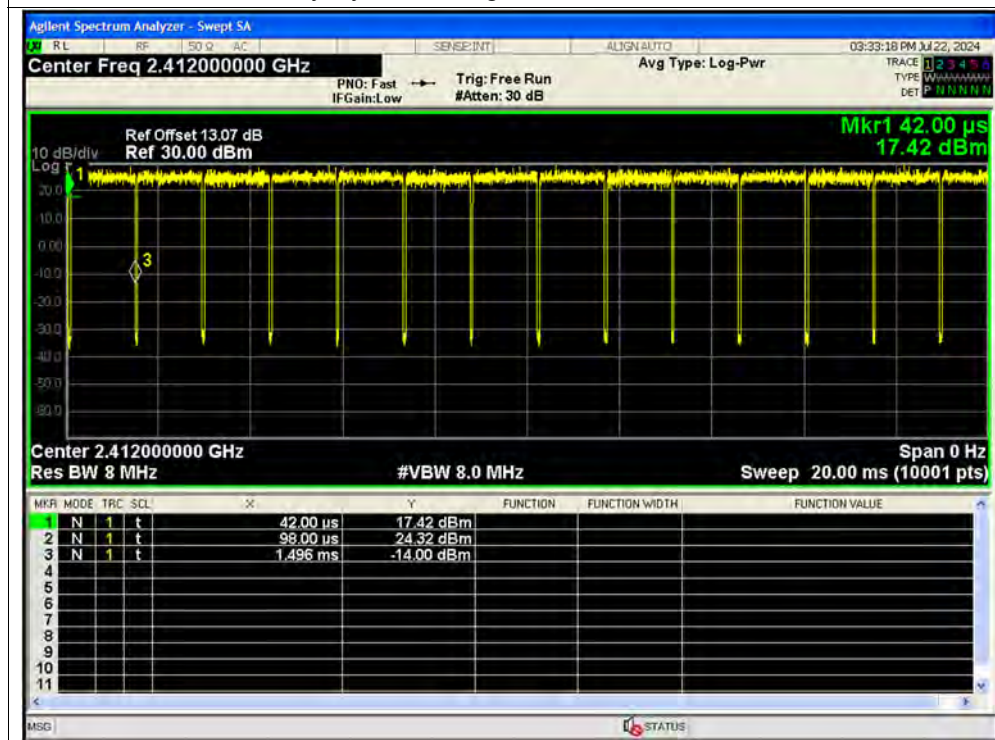
Duty Cycle NVNT b 2442MHz Ant4 SISO



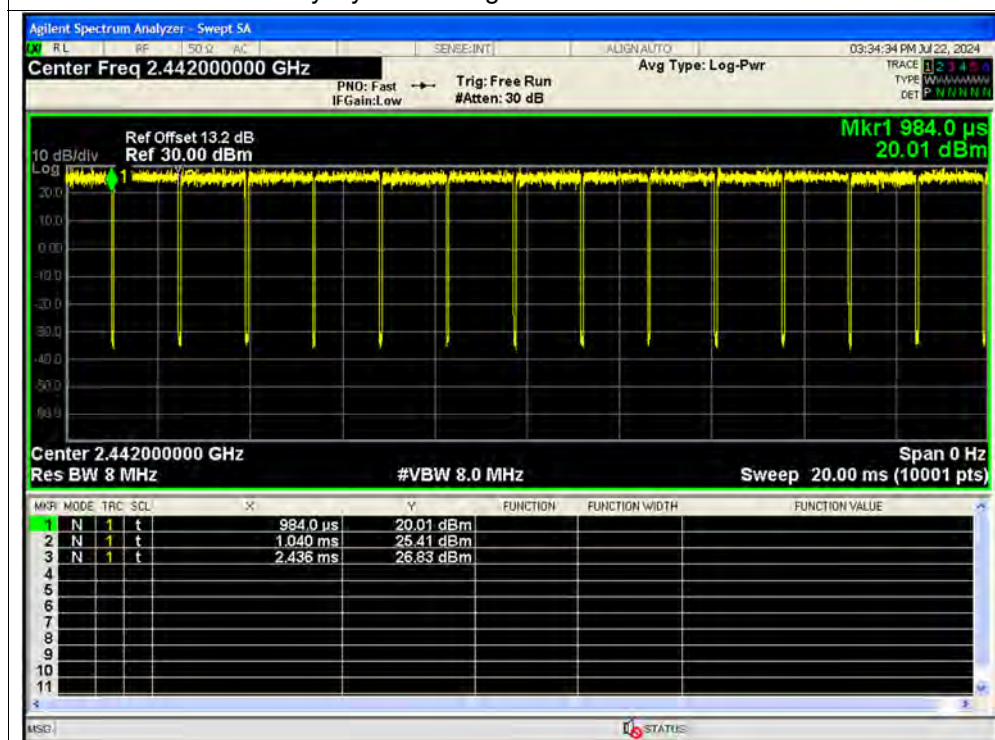
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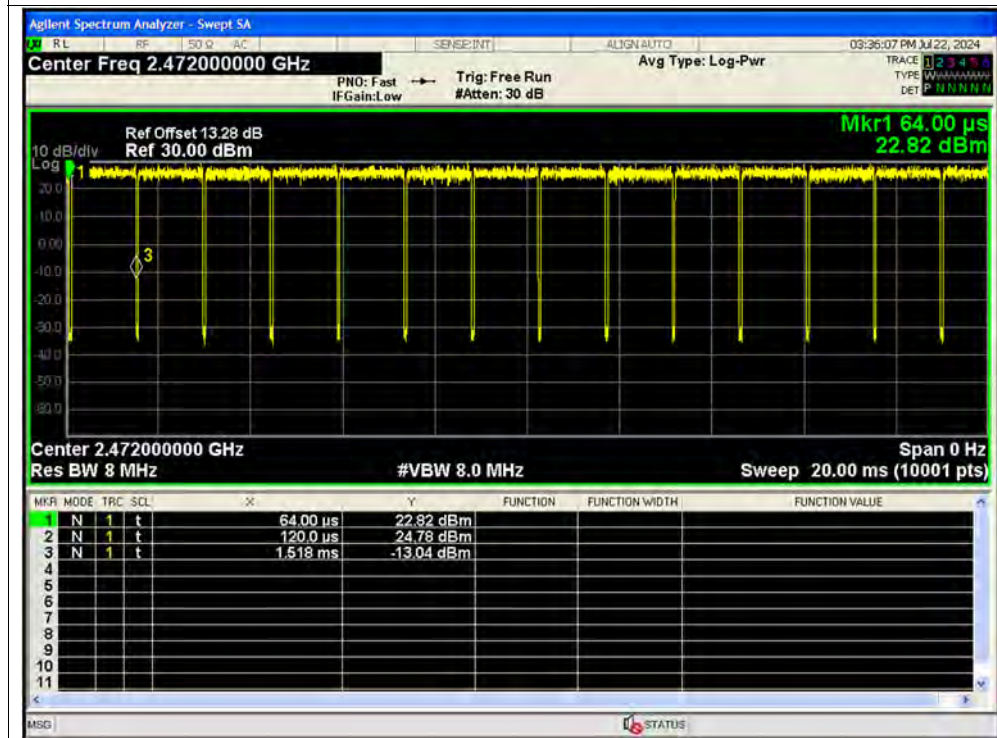
Duty Cycle NVNT g 2412MHz Ant1 SISO



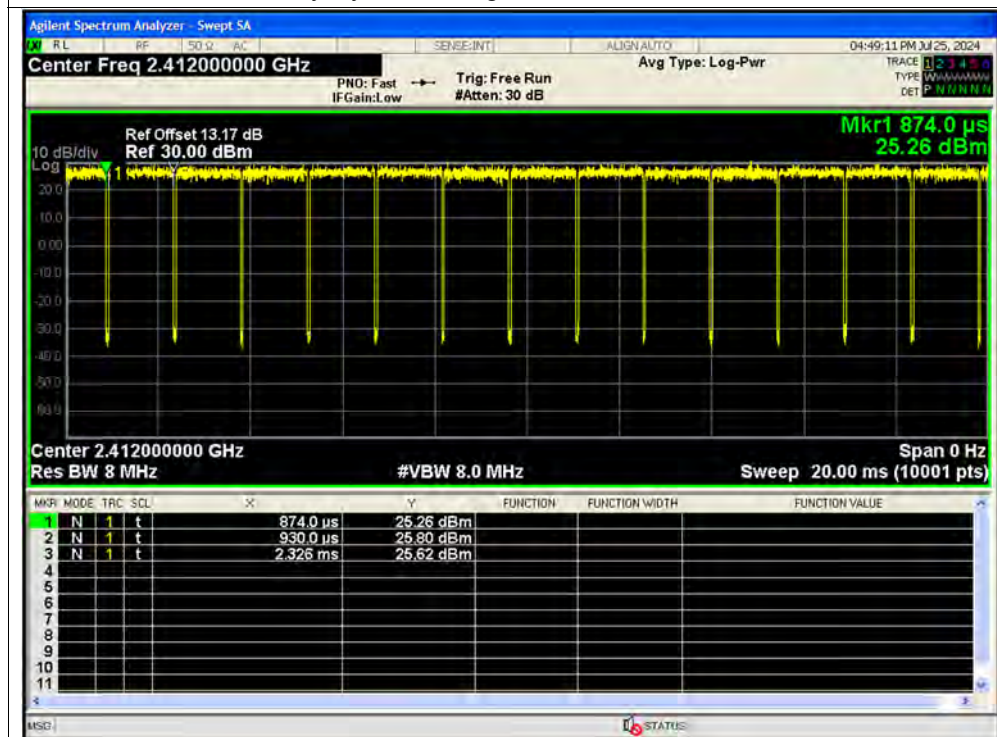
Duty Cycle NVNT g 2442MHz Ant1 SISO



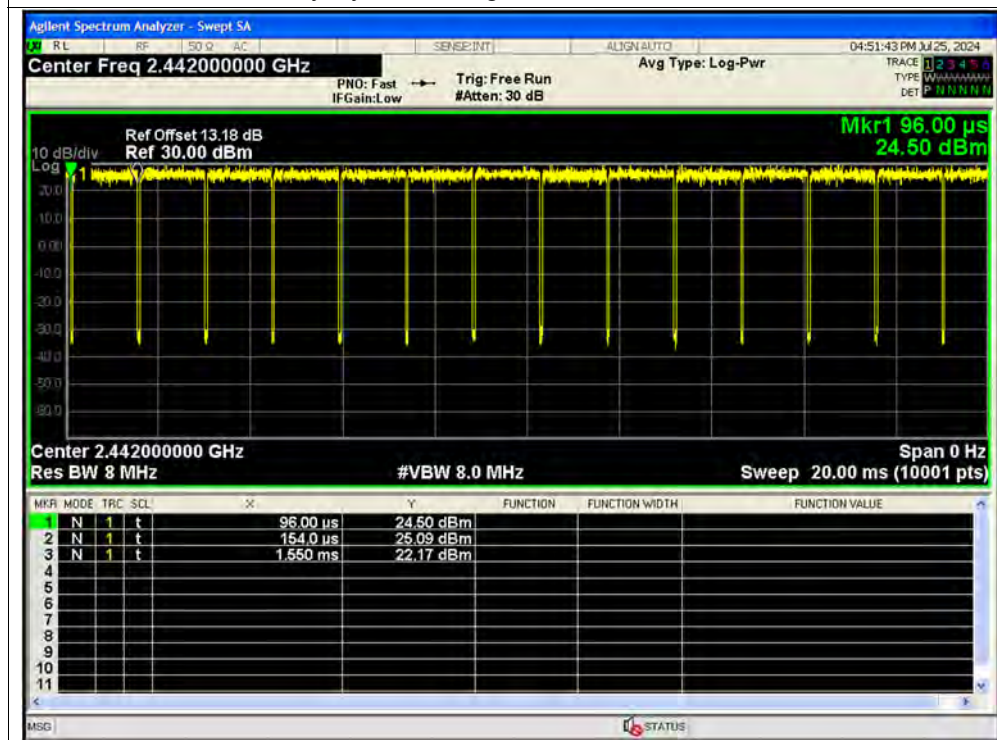
Duty Cycle NVNT g 2472MHz Ant1 SISO



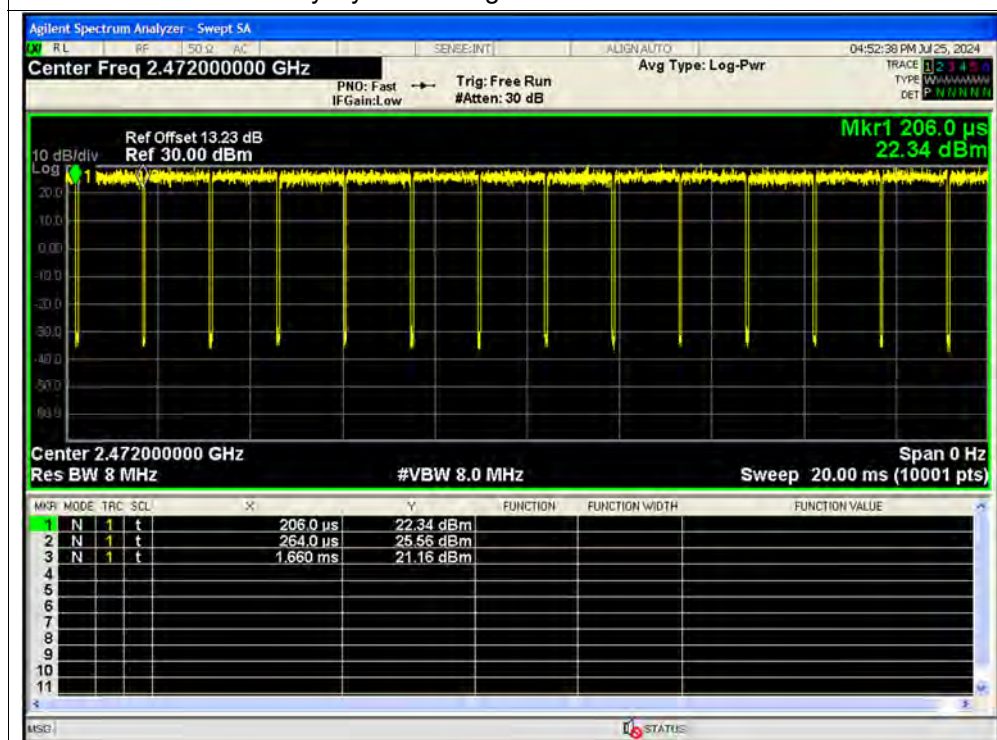
Duty Cycle NVNT g 2412MHz Ant2 SISO



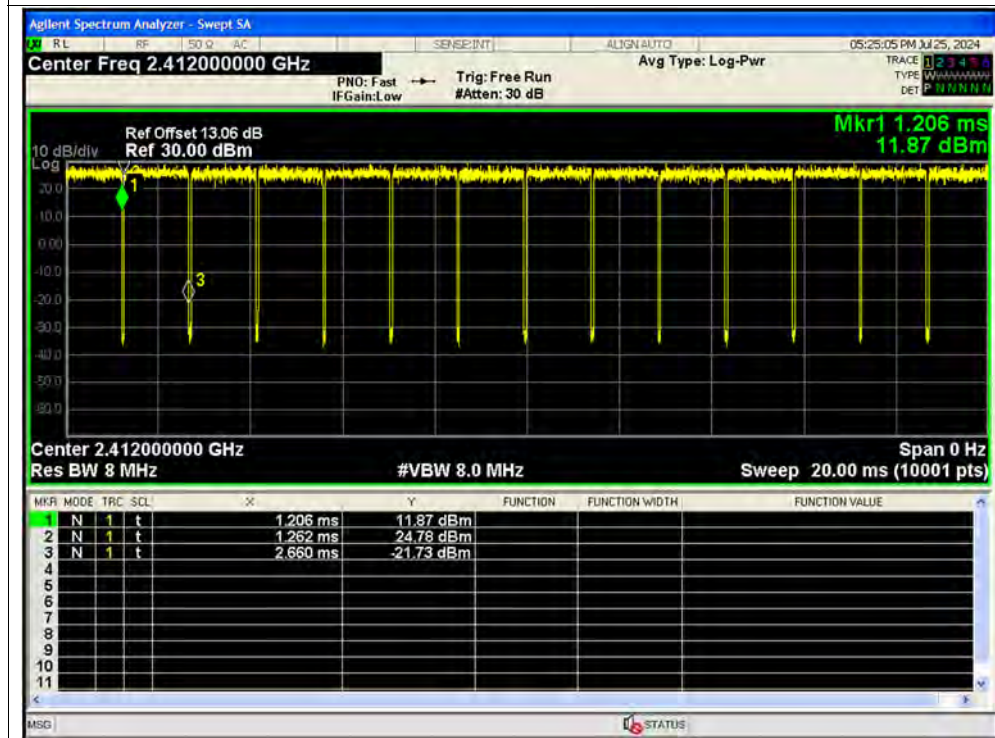
Duty Cycle NVNT g 2442MHz Ant2 SISO



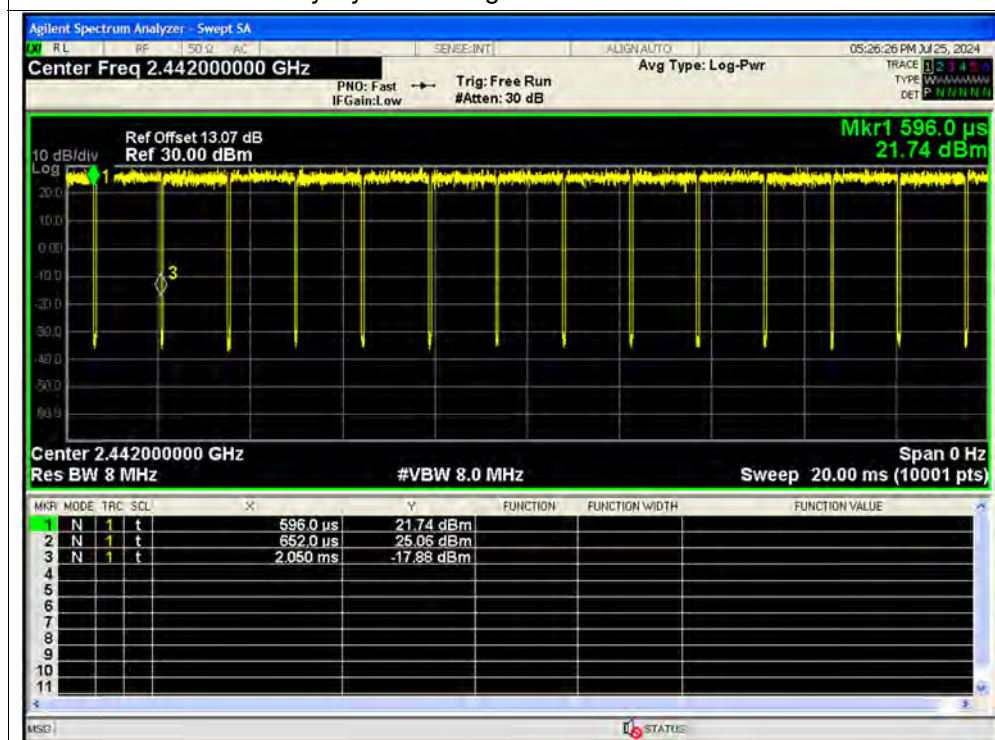
Duty Cycle NVNT g 2472MHz Ant2 SISO



Duty Cycle NVNT g 2412MHz Ant3 SISO

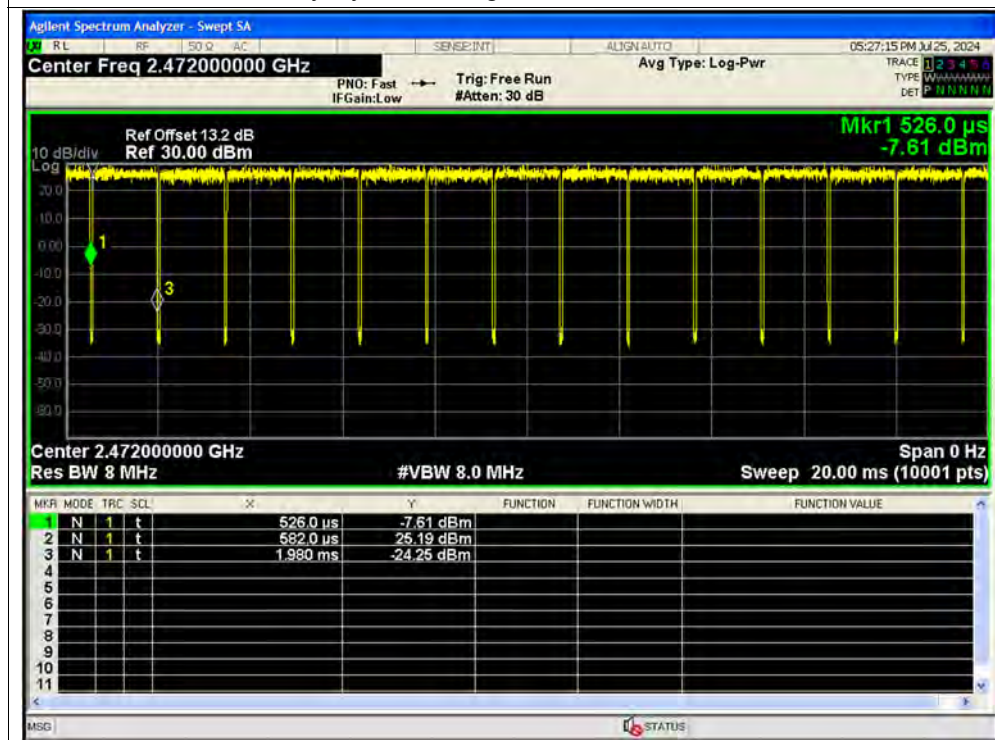


Duty Cycle NVNT g 2442MHz Ant3 SISO

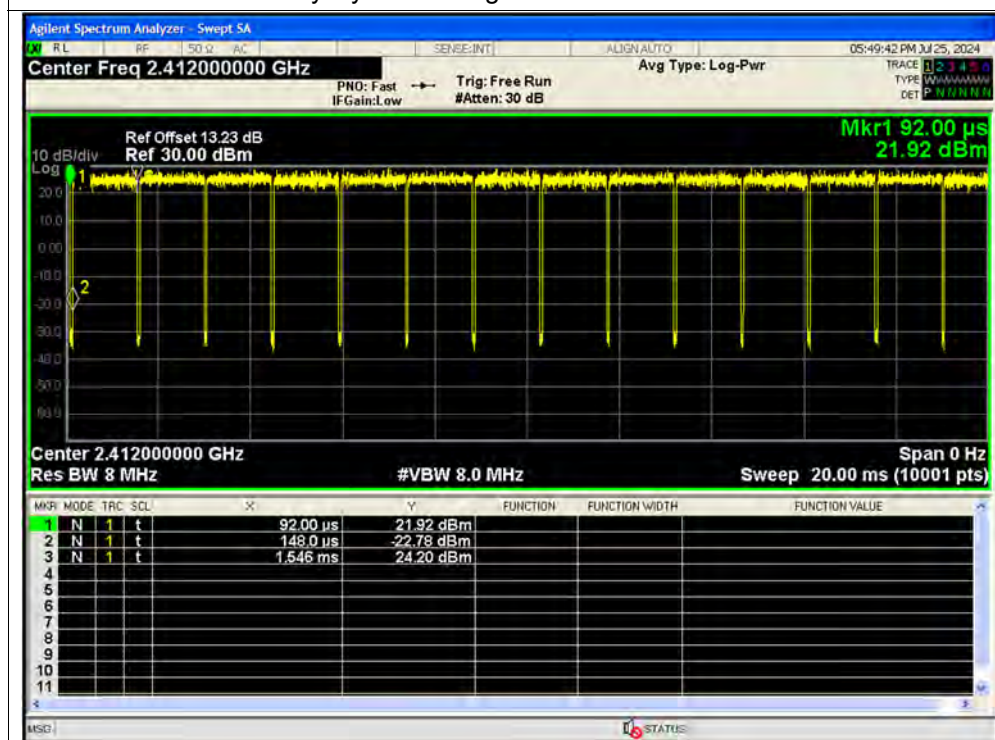




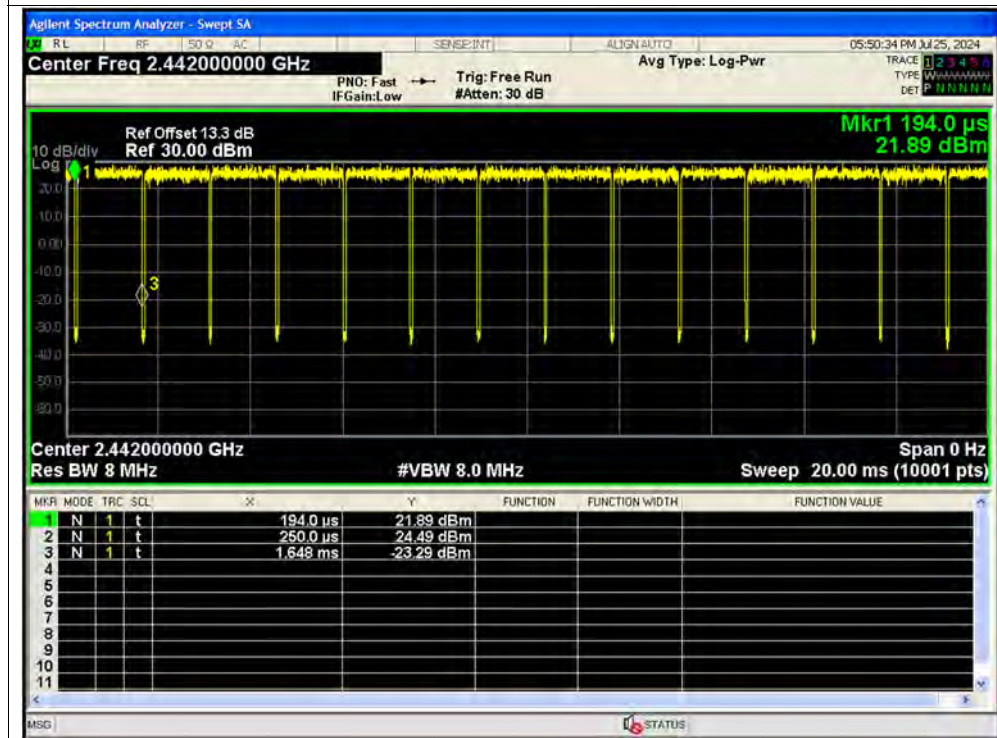
Duty Cycle NVNT g 2472MHz Ant3 SISO



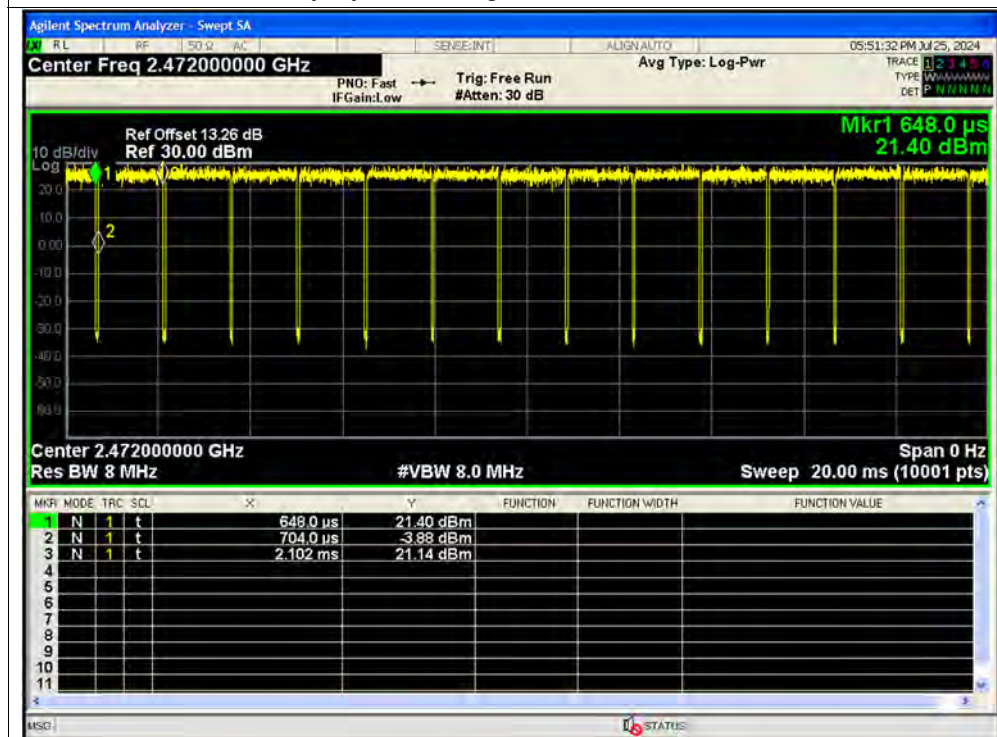
Duty Cycle NVNT g 2412MHz Ant4 SISO



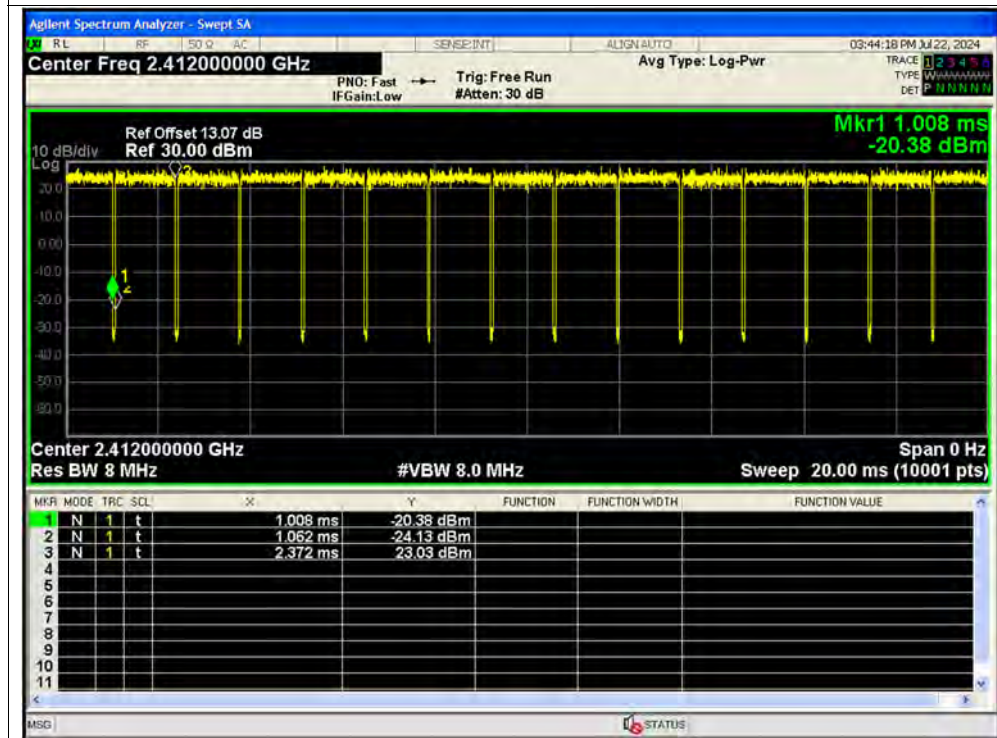
Duty Cycle NVNT g 2442MHz Ant4 SISO



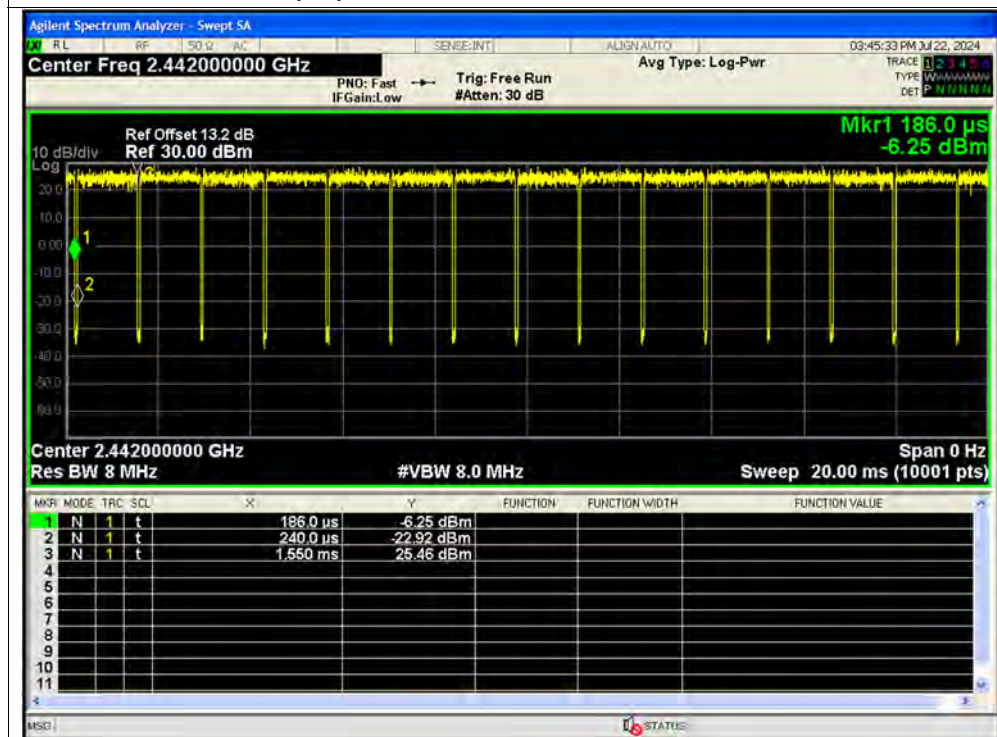
Duty Cycle NVNT g 2472MHz Ant4 SISO



Duty Cycle NVNT n20 2412MHz Ant1 SISO

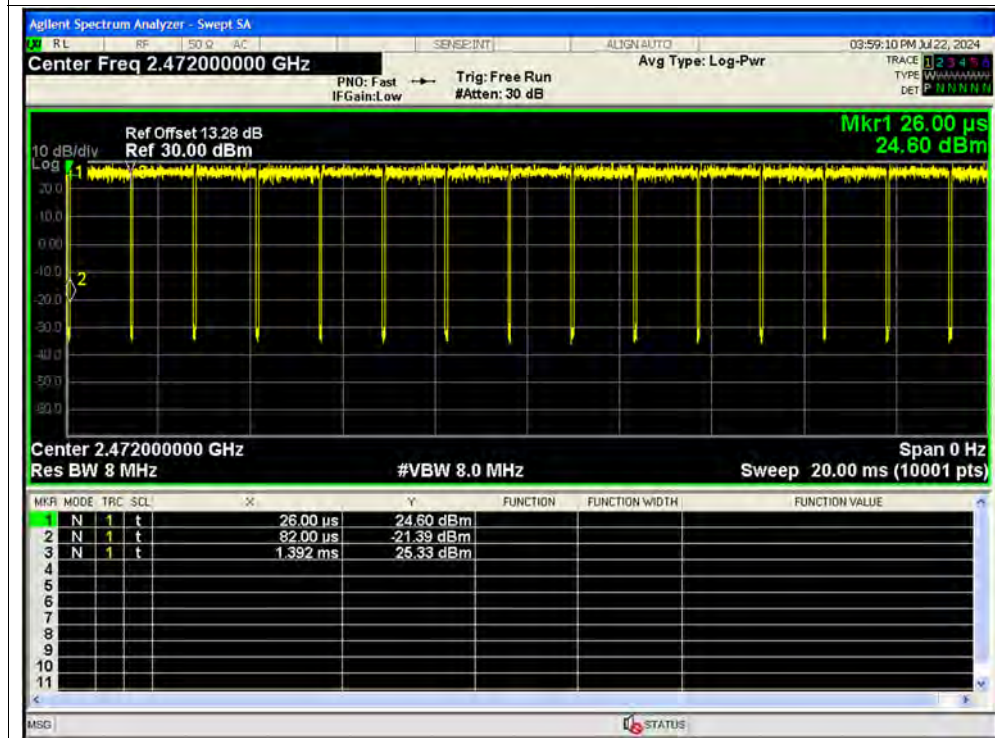


Duty Cycle NVNT n20 2442MHz Ant1 SISO

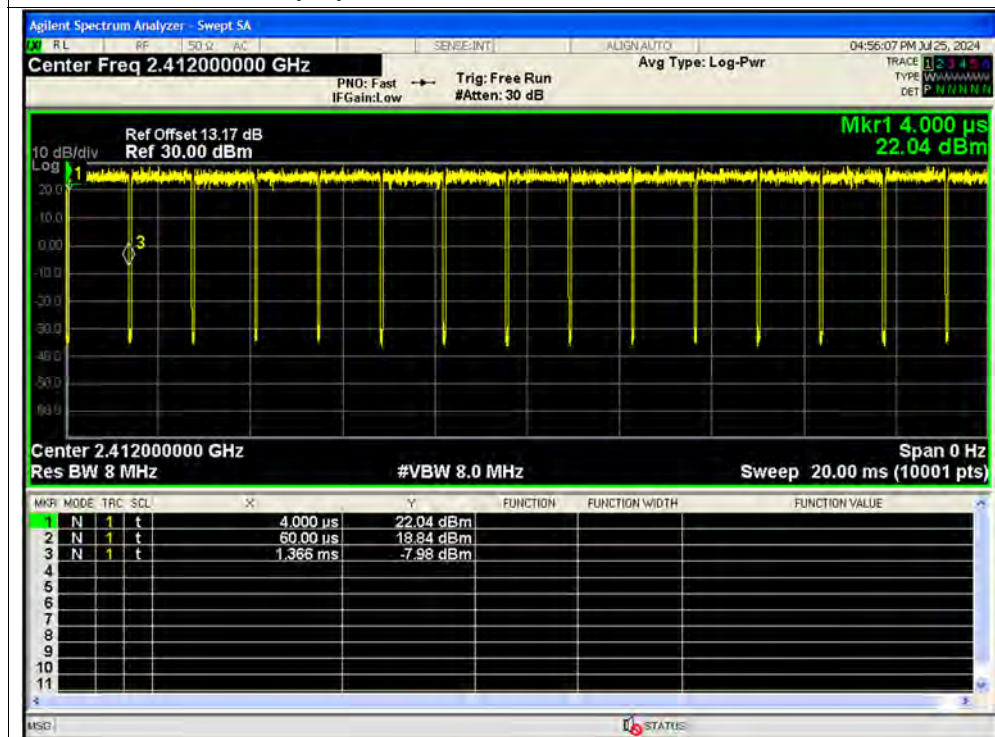




Duty Cycle NVNT n20 2472MHz Ant1 SISO

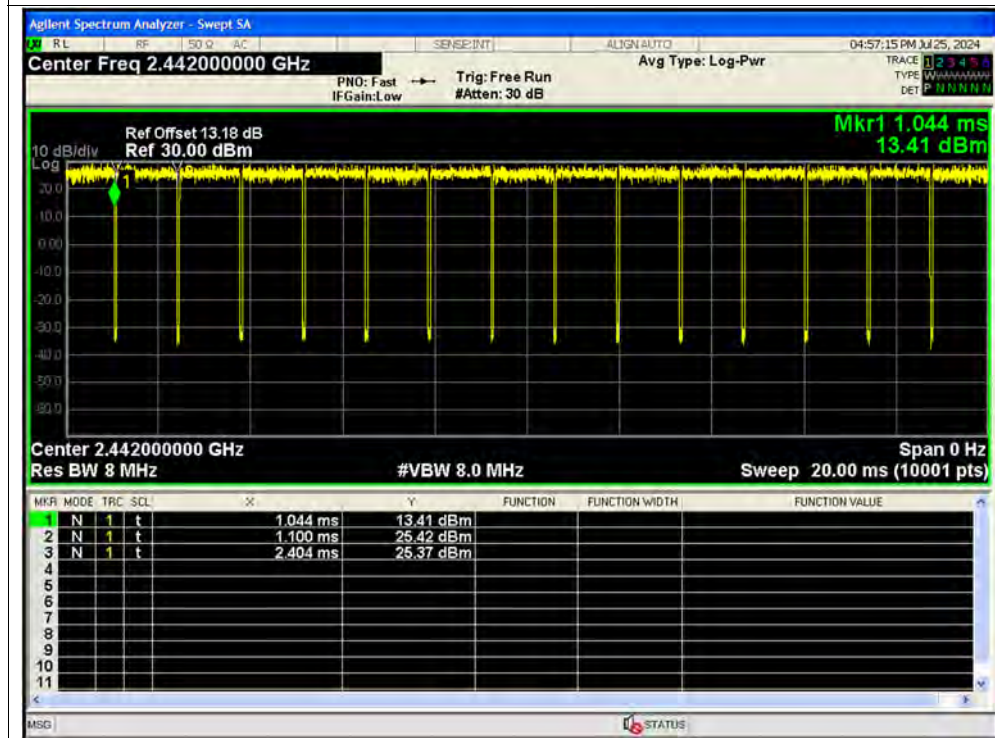


Duty Cycle NVNT n20 2412MHz Ant2 SISO

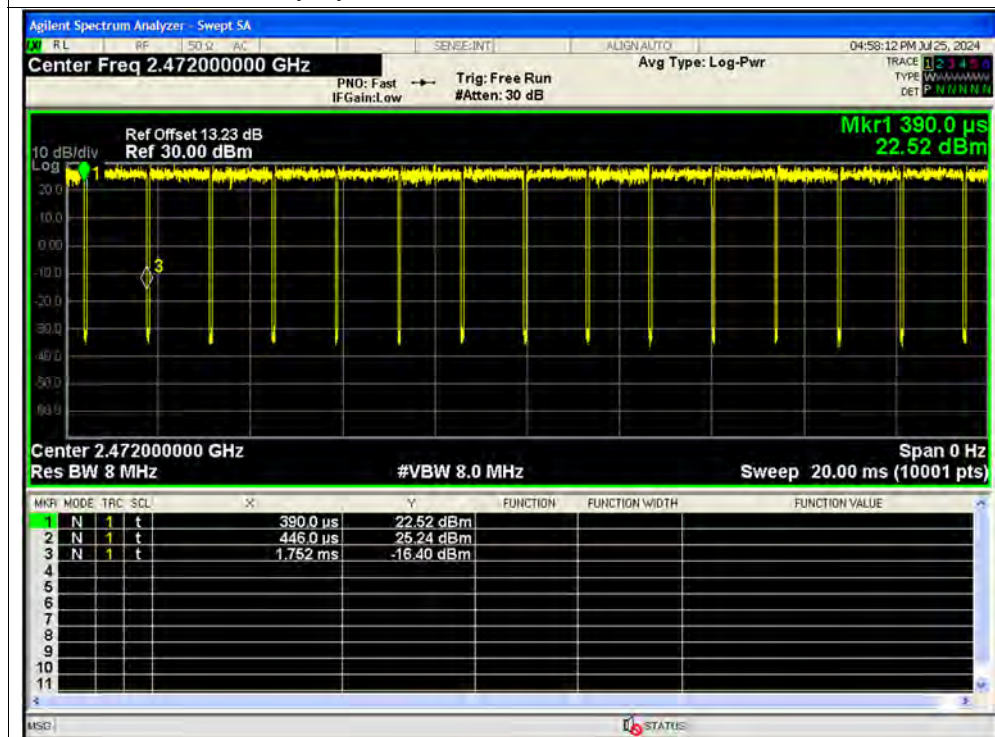




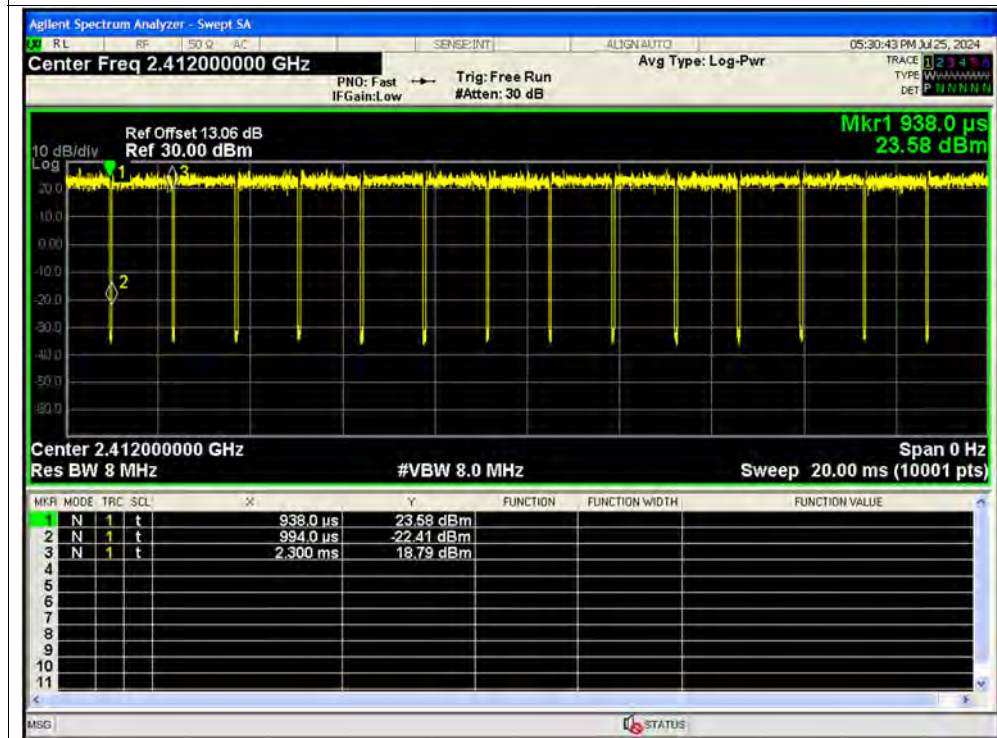
Duty Cycle NVNT n20 2442MHz Ant2 SISO



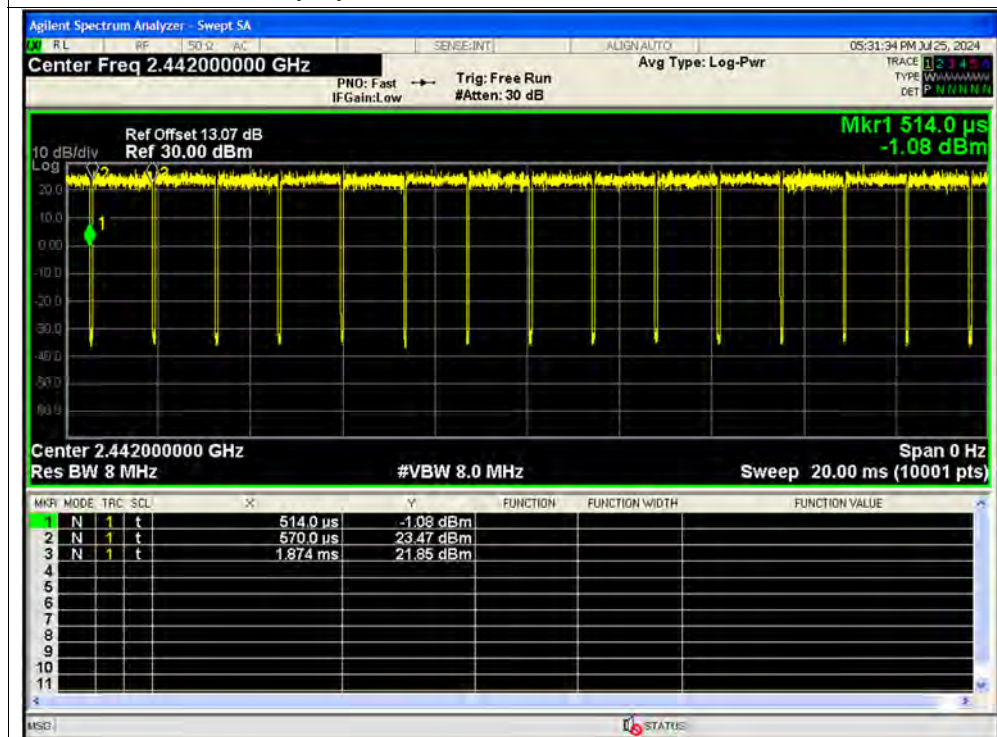
Duty Cycle NVNT n20 2472MHz Ant2 SISO



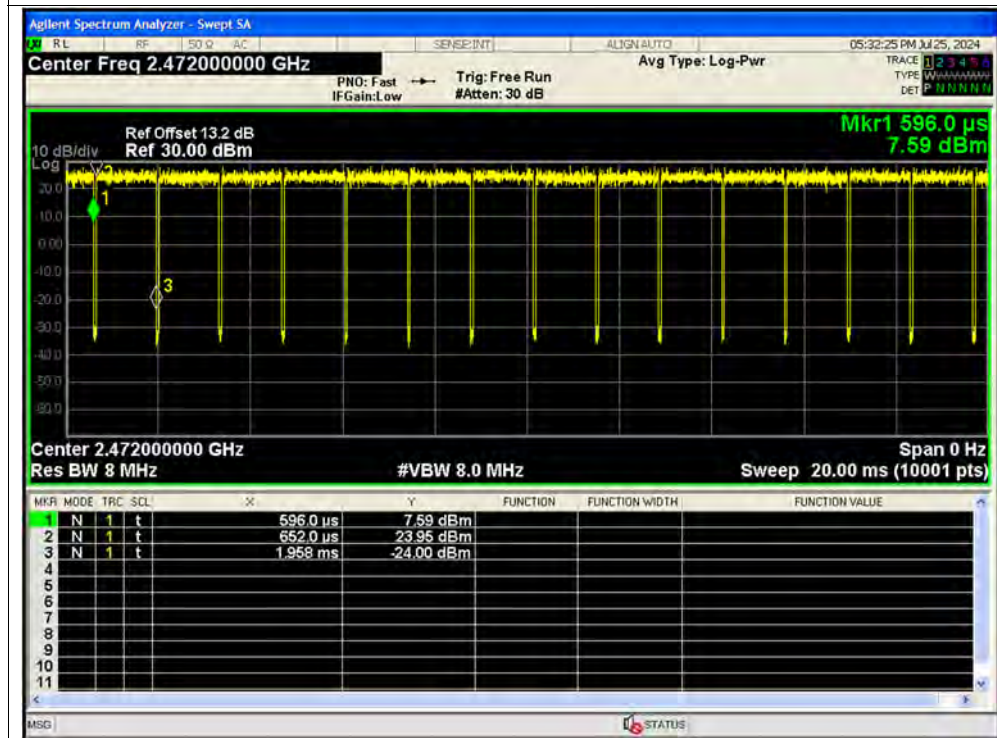
Duty Cycle NVNT n20 2412MHz Ant3 SISO



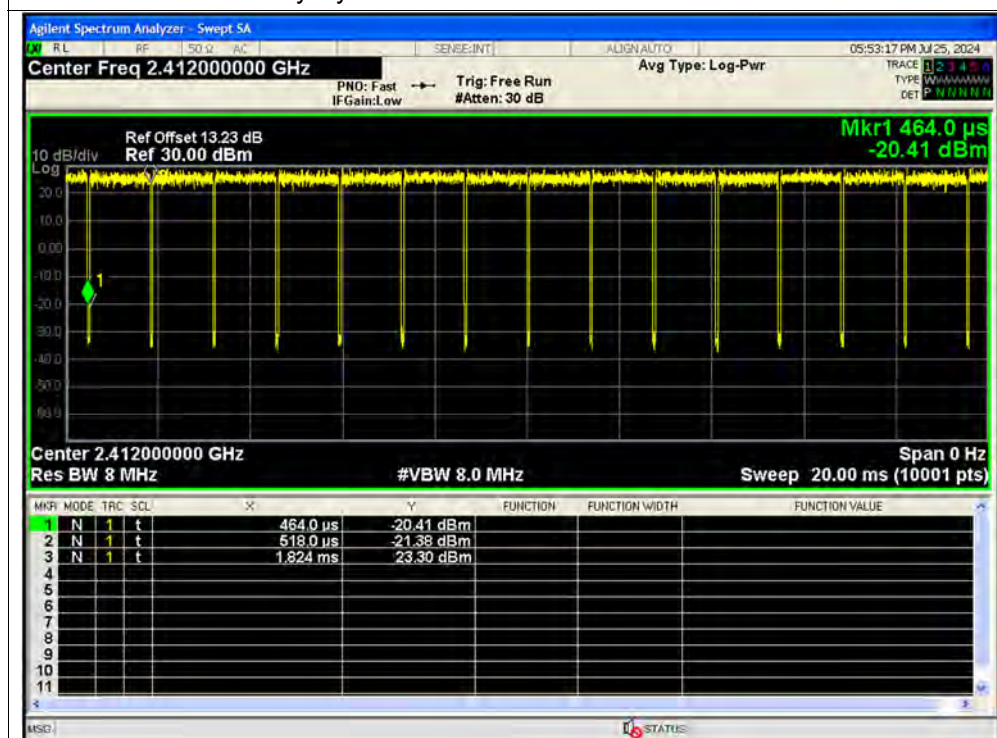
Duty Cycle NVNT n20 2442MHz Ant3 SISO



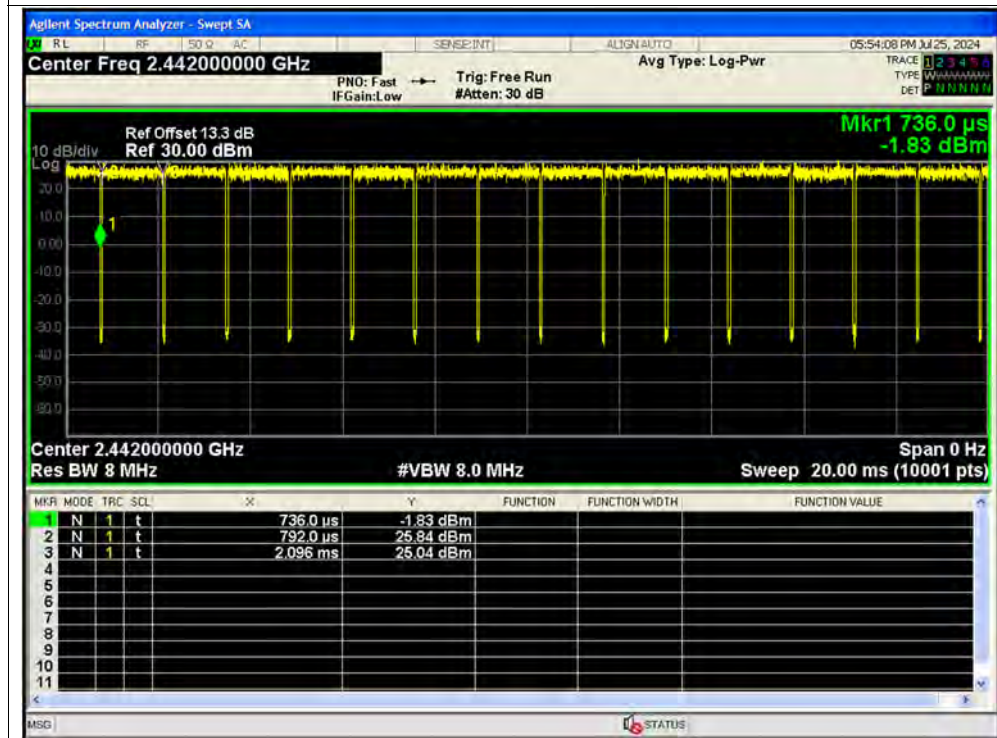
Duty Cycle NVNT n20 2472MHz Ant3 SISO



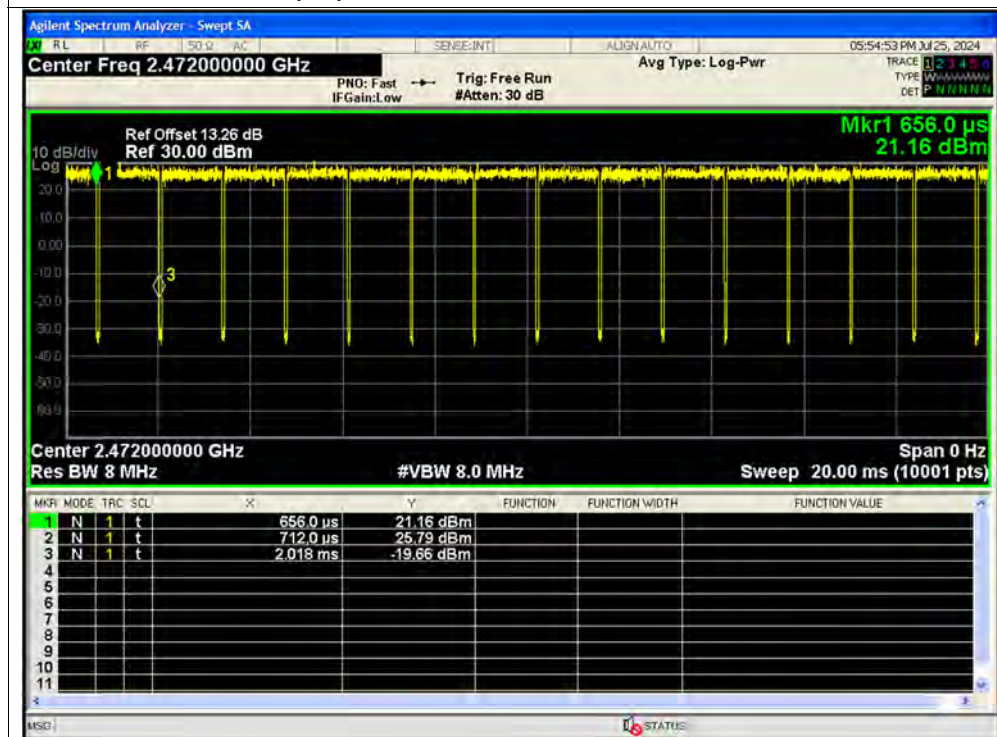
Duty Cycle NVNT n20 2412MHz Ant4 SISO



Duty Cycle NVNT n20 2442MHz Ant4 SISO

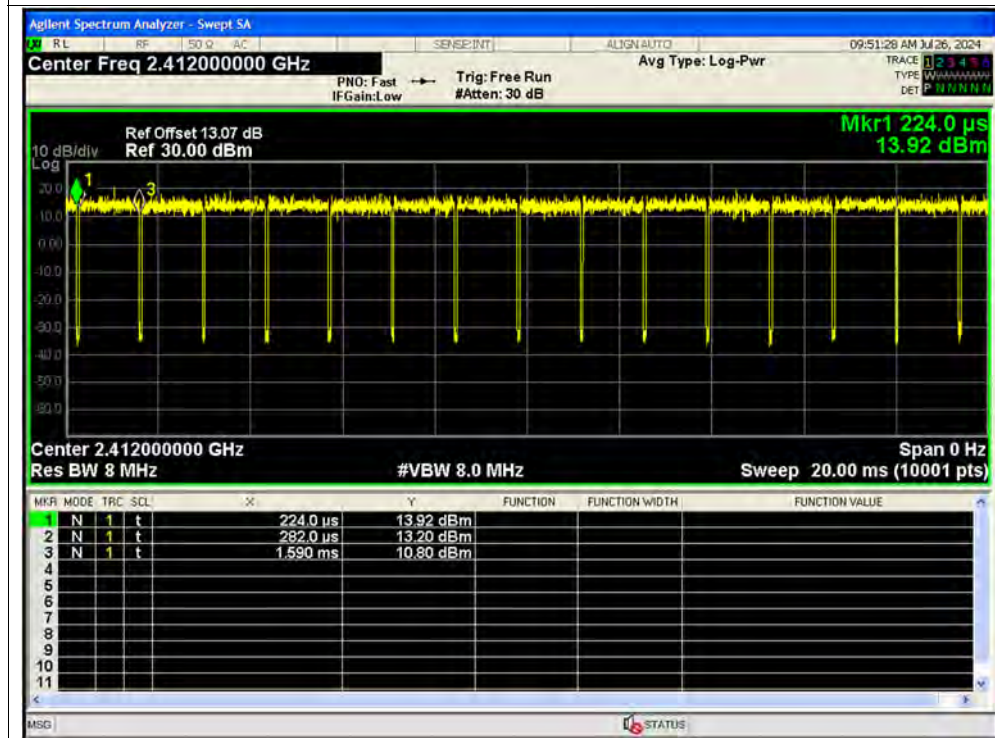


Duty Cycle NVNT n20 2472MHz Ant4 SISO

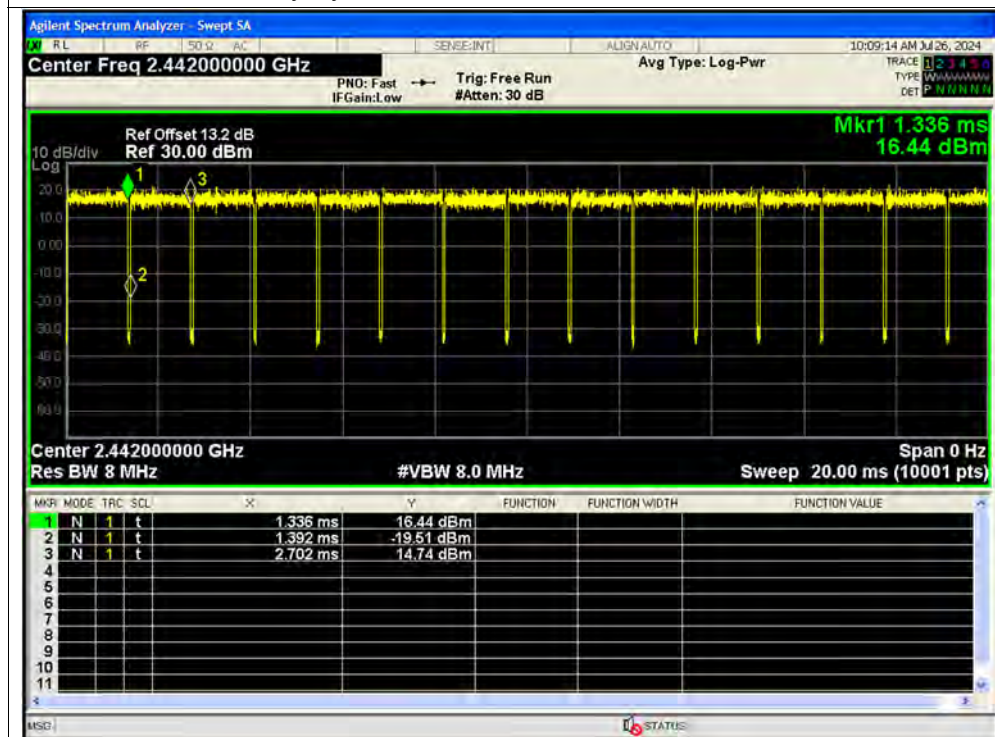




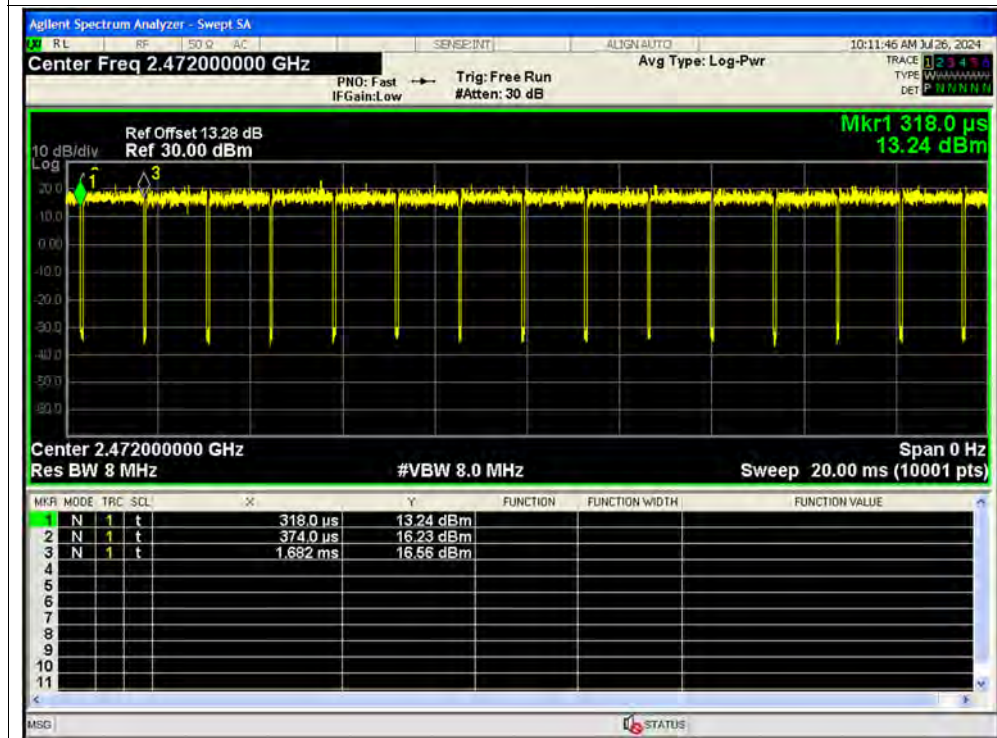
Duty Cycle NVNT n20 2412MHz Sum MIMO



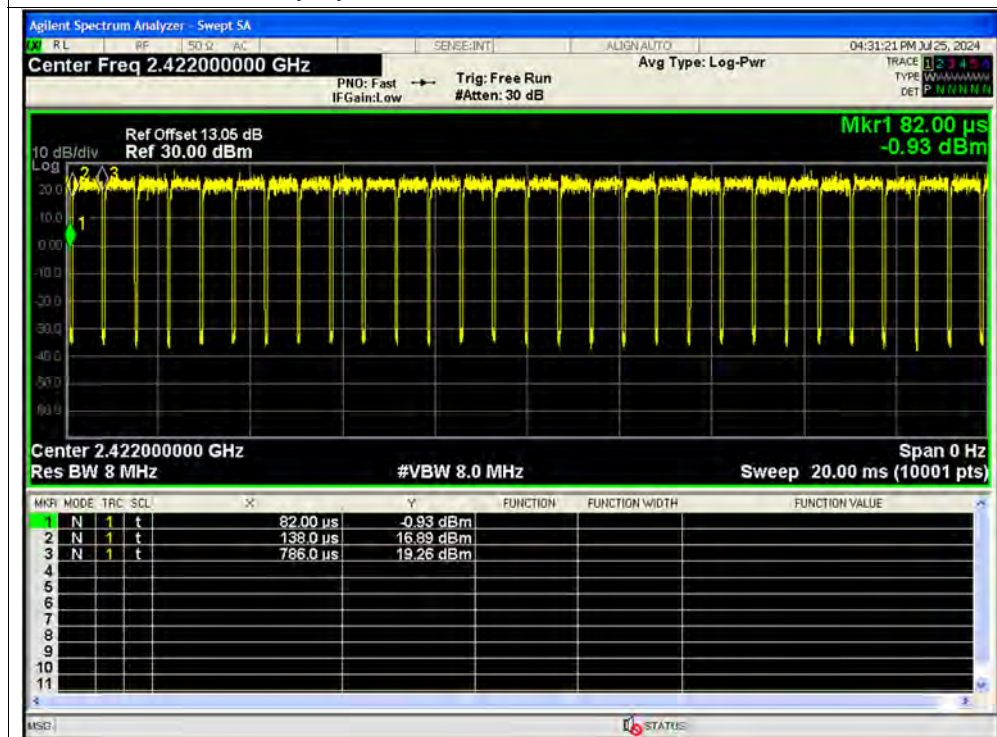
Duty Cycle NVNT n20 2442MHz Sum MIMO



Duty Cycle NVNT n20 2472MHz Sum MIMO

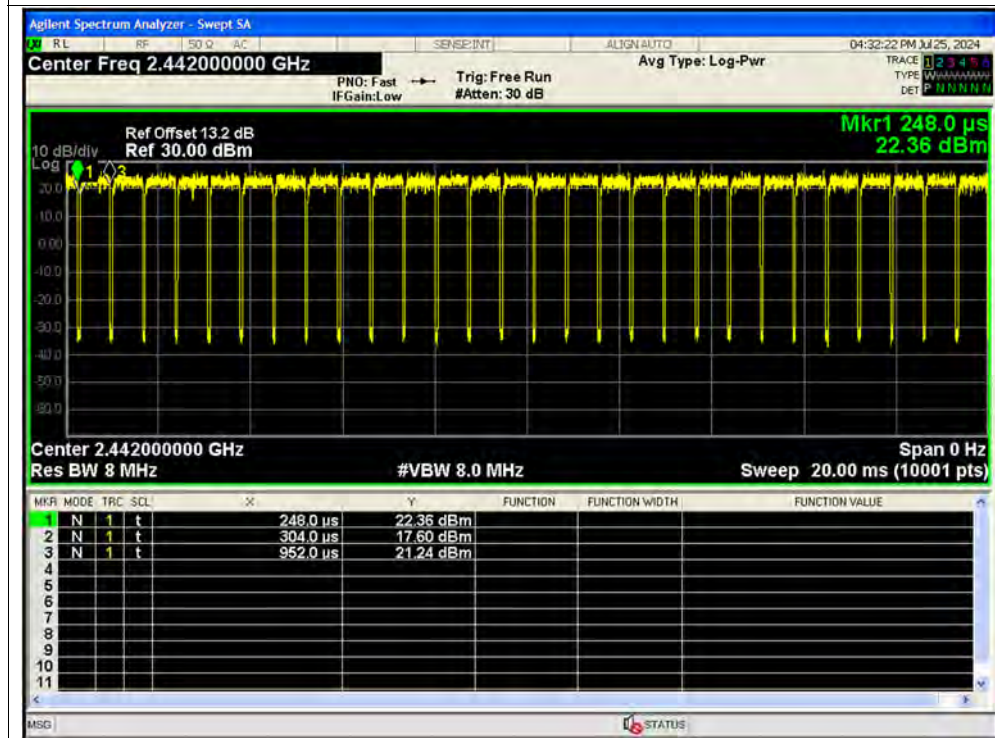


Duty Cycle NVNT n40 2422MHz Ant1 SISO

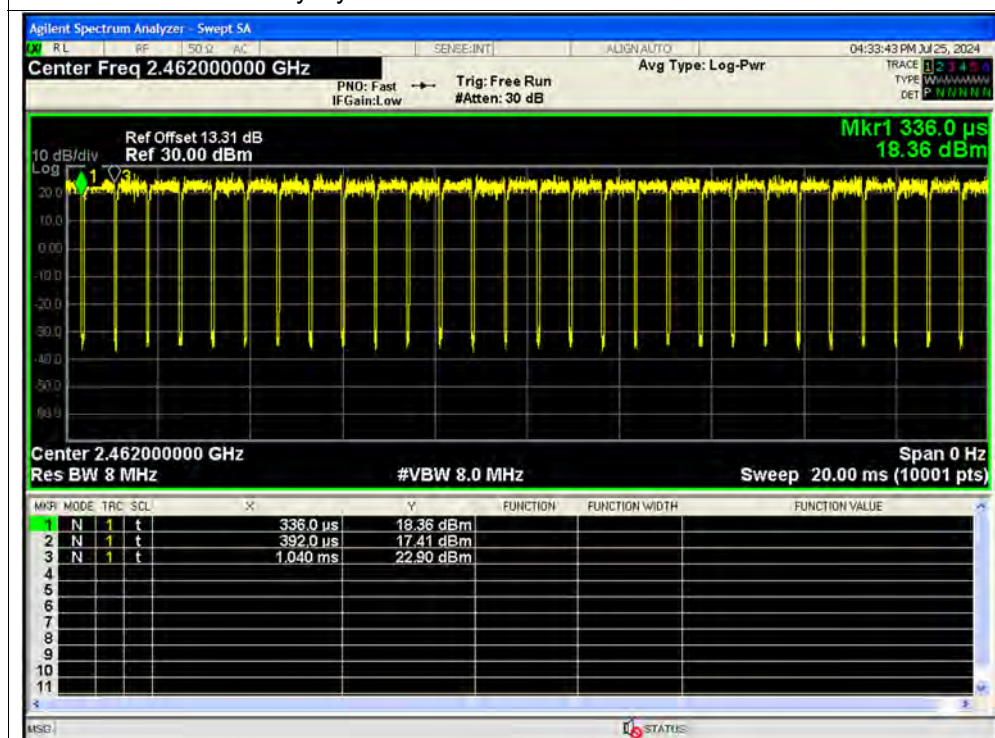




Duty Cycle NVNT n40 2442MHz Ant1 SISO

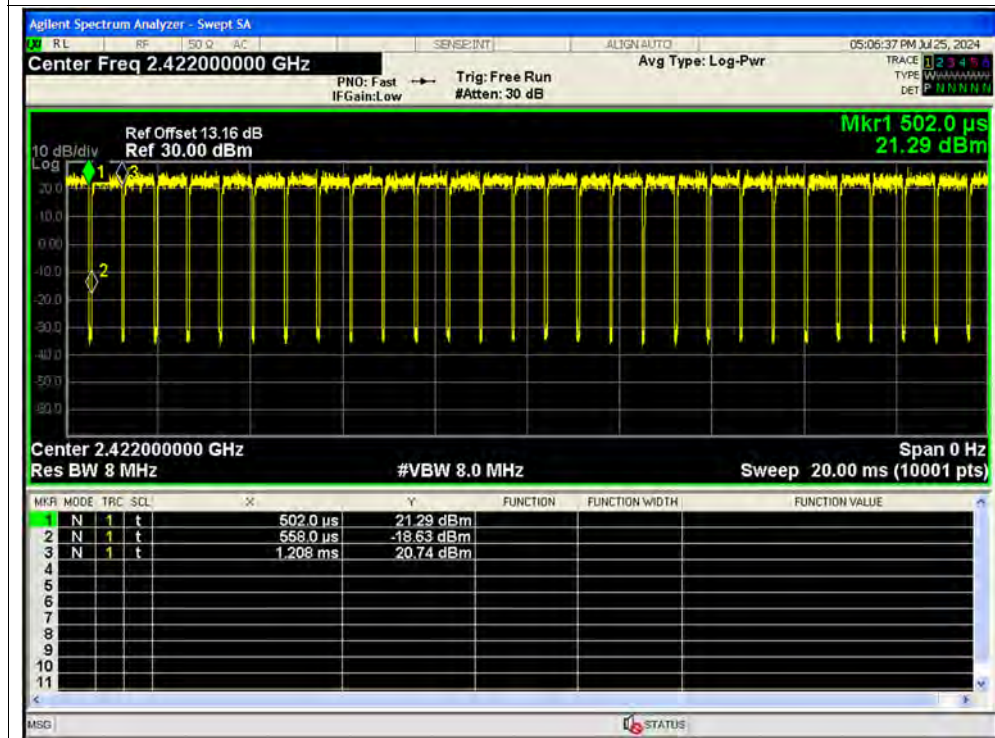


Duty Cycle NVNT n40 2462MHz Ant1 SISO

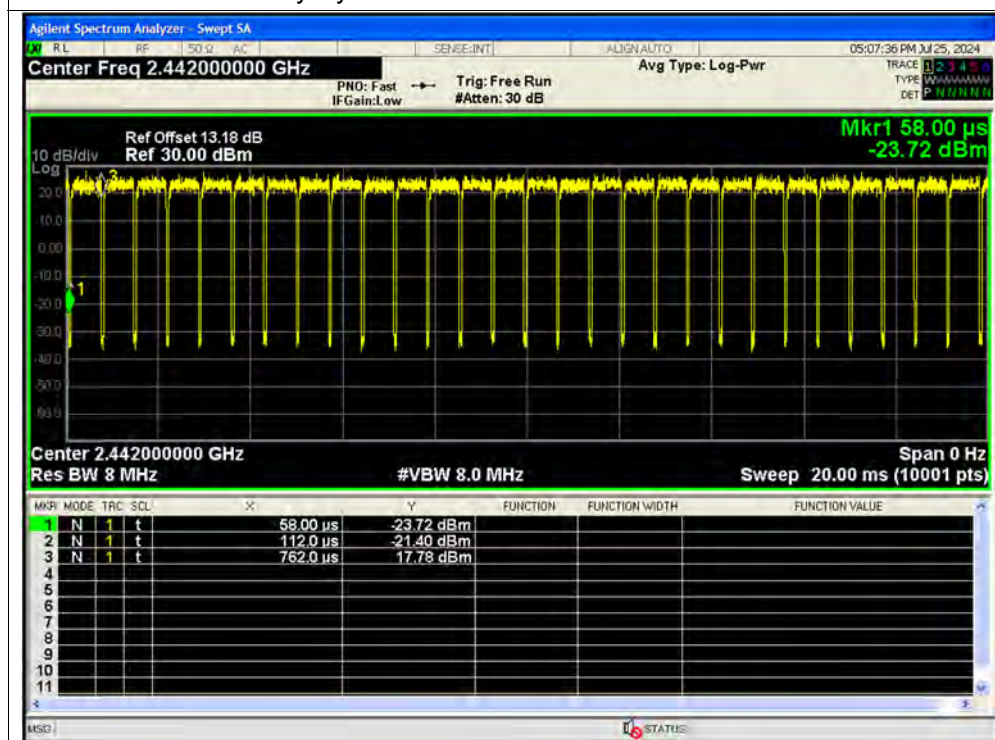




Duty Cycle NVNT n40 2422MHz Ant2 SISO

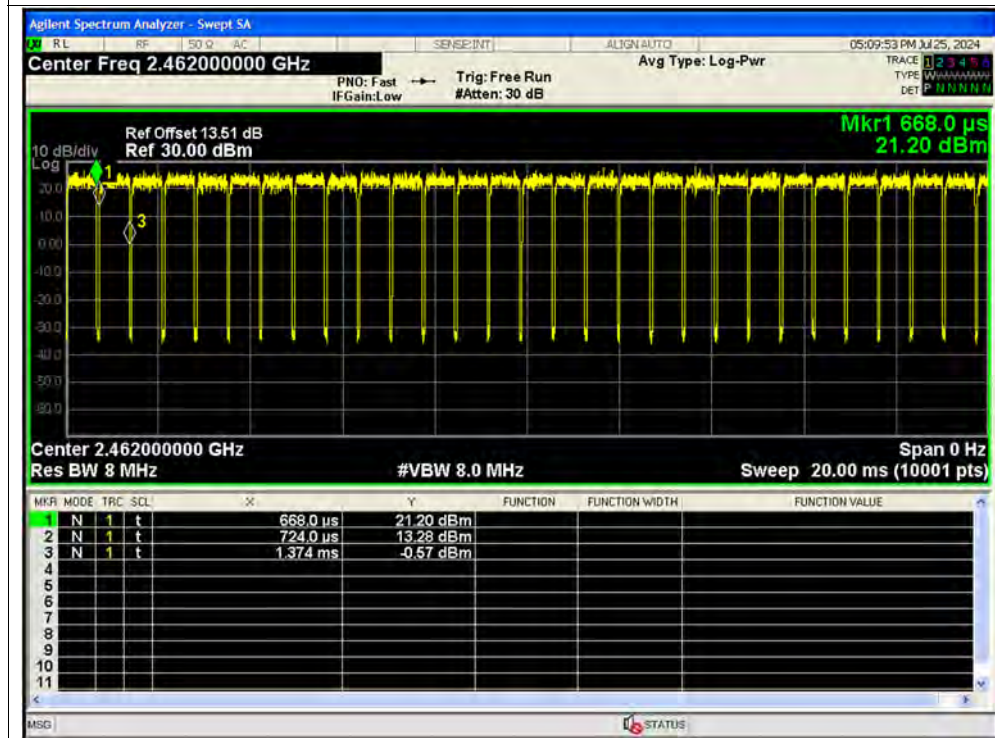


Duty Cycle NVNT n40 2442MHz Ant2 SISO

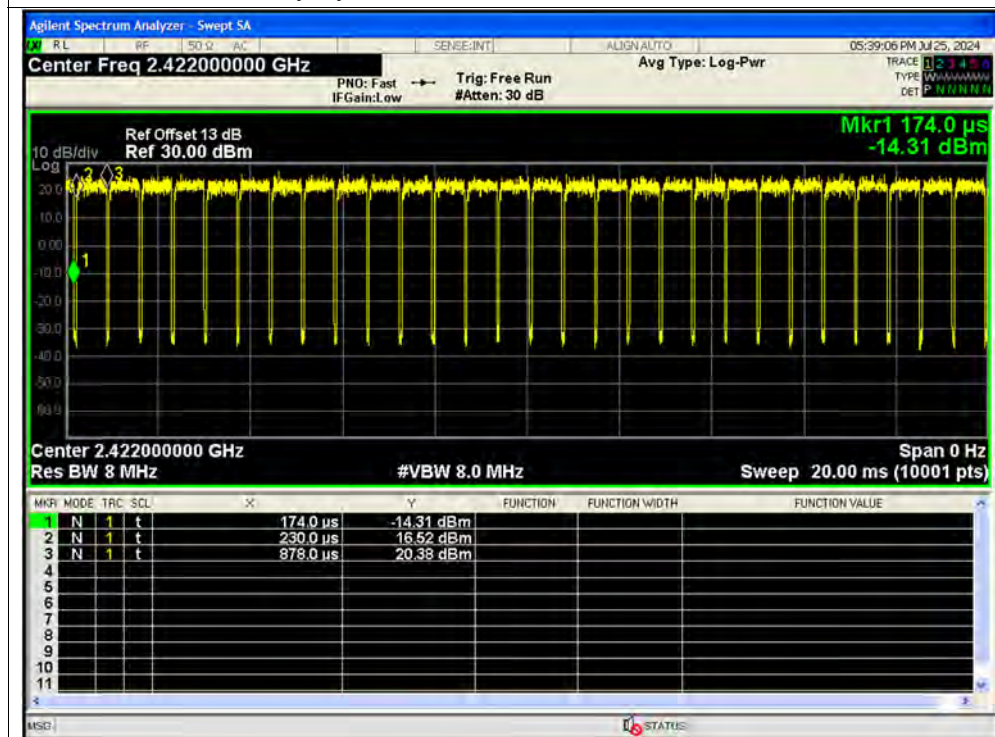




Duty Cycle NVNT n40 2462MHz Ant2 SISO

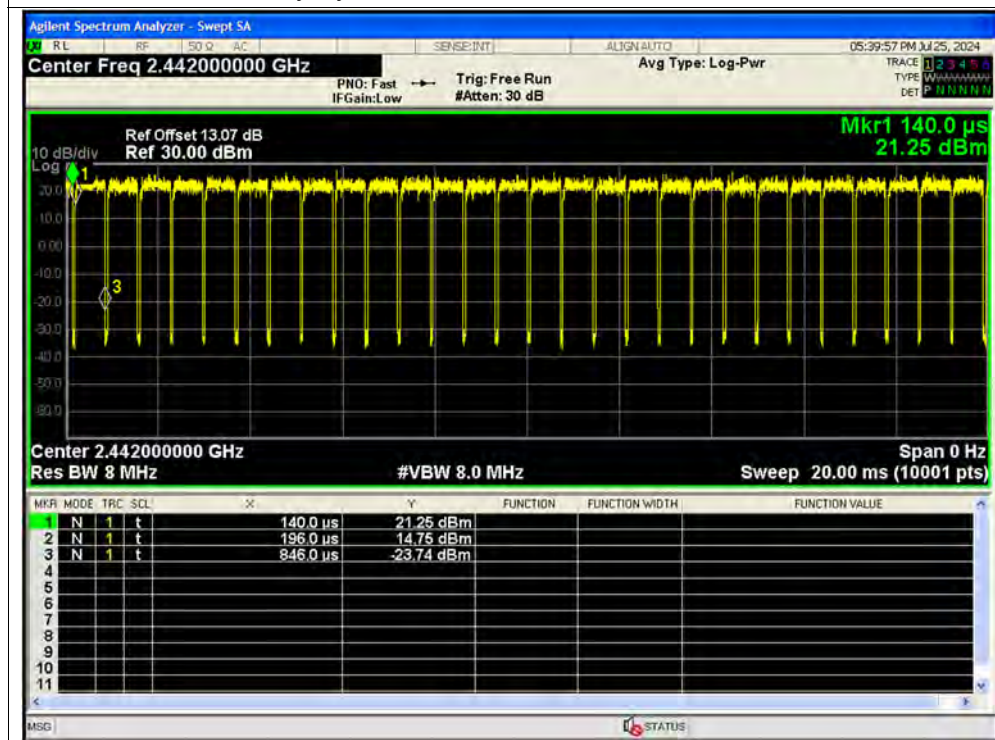


Duty Cycle NVNT n40 2422MHz Ant3 SISO

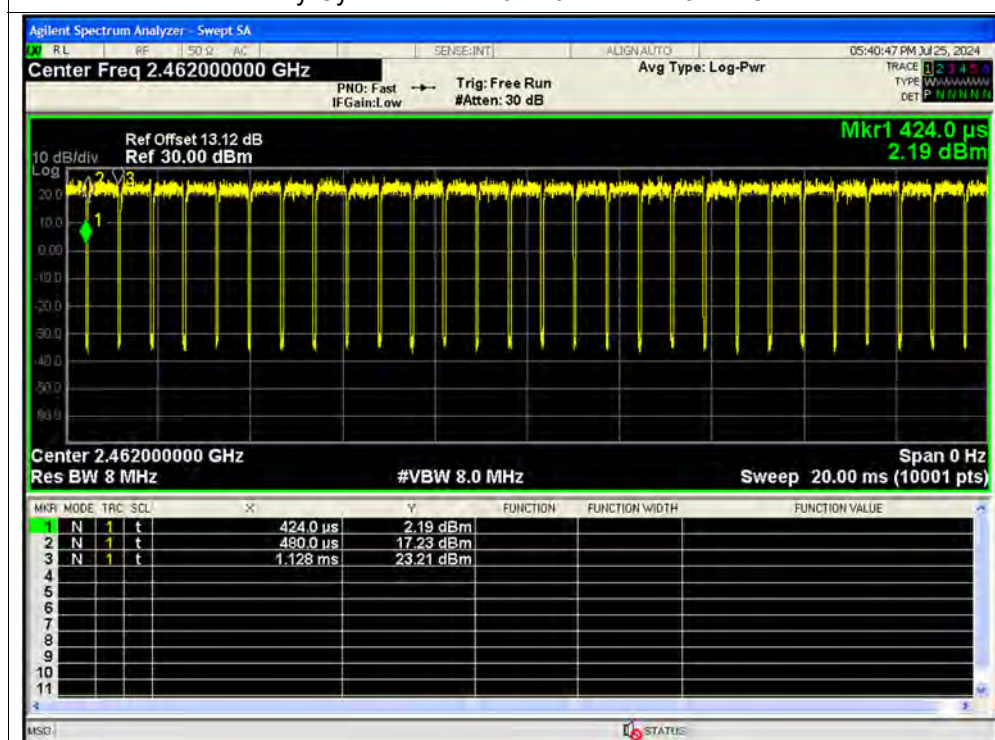




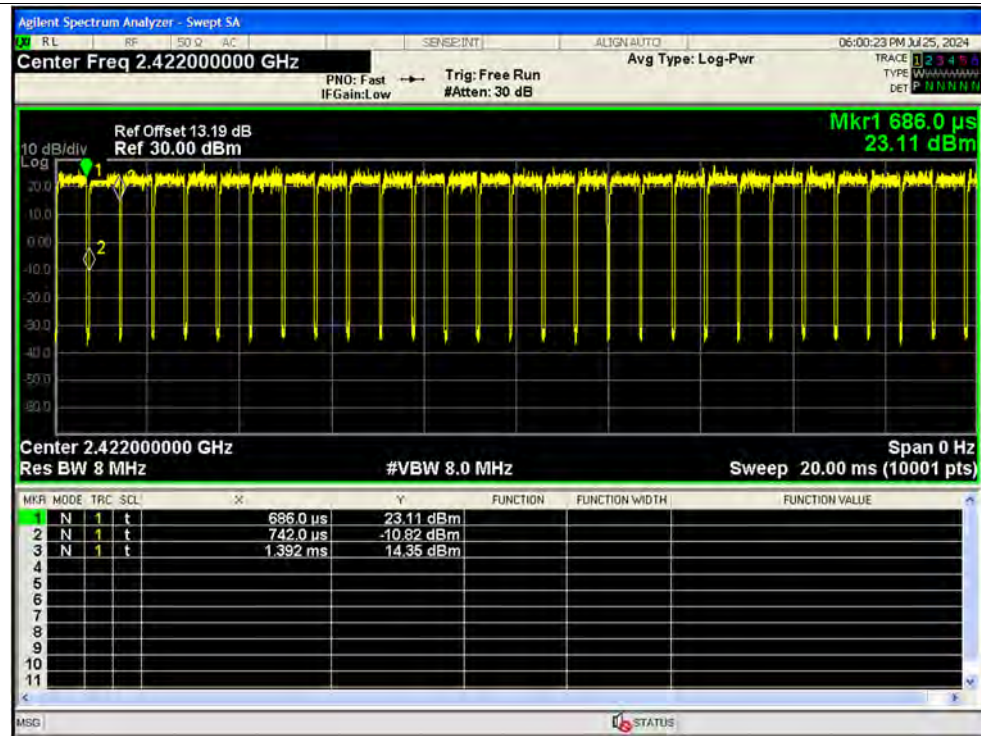
Duty Cycle NVNT n40 2442MHz Ant3 SISO



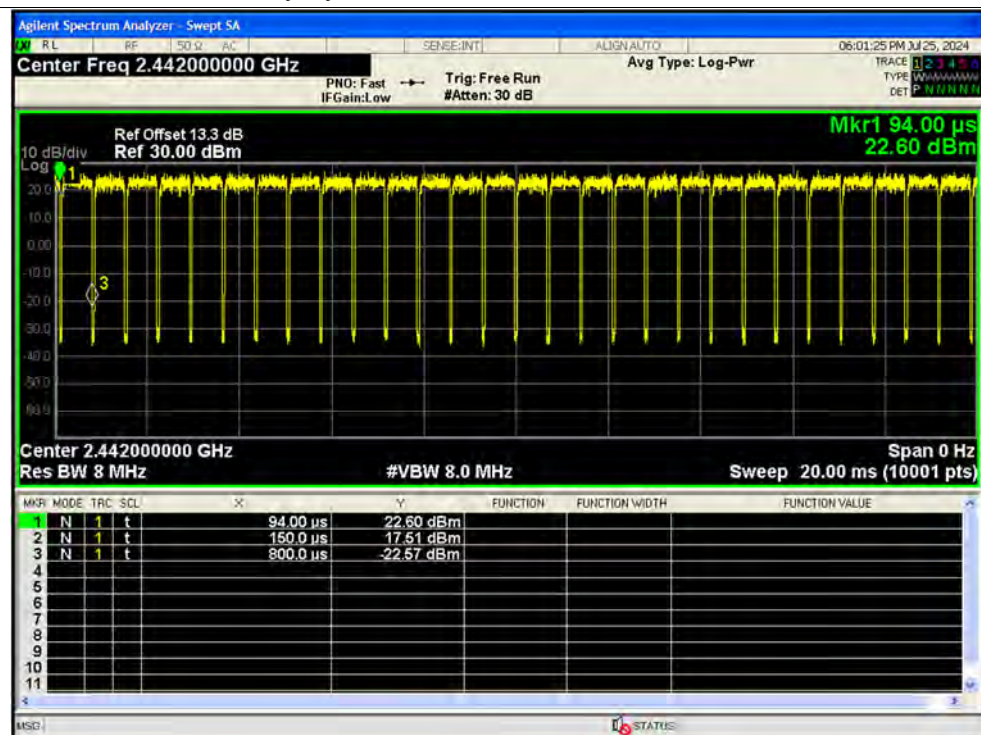
Duty Cycle NVNT n40 2462MHz Ant3 SISO



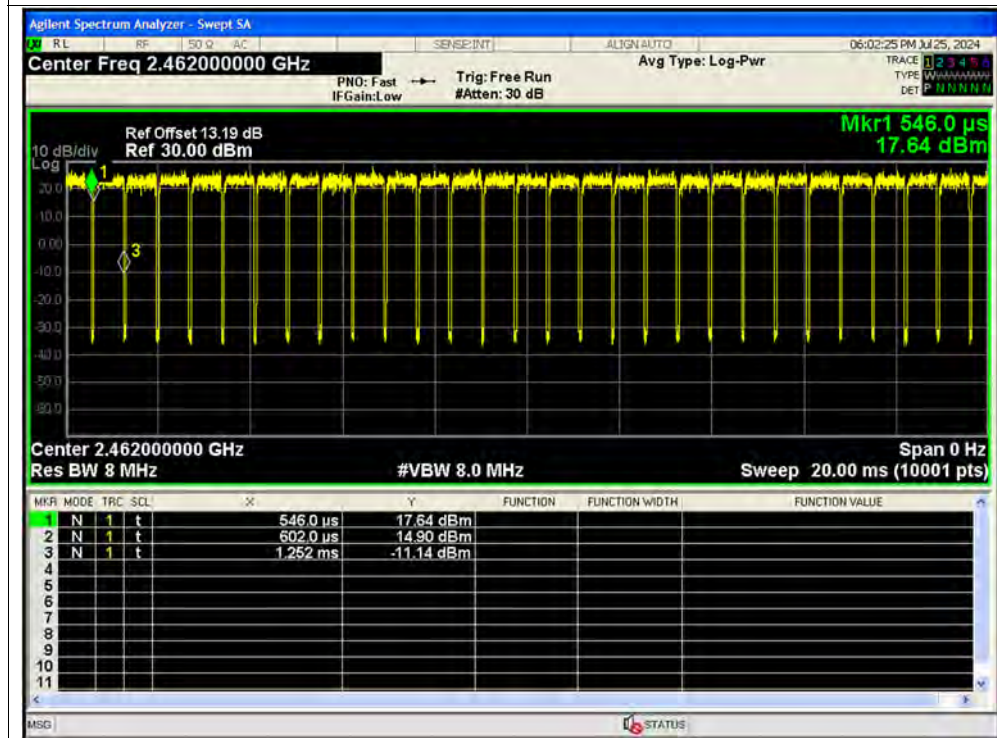
Duty Cycle NVNT n40 2422MHz Ant4 SISO



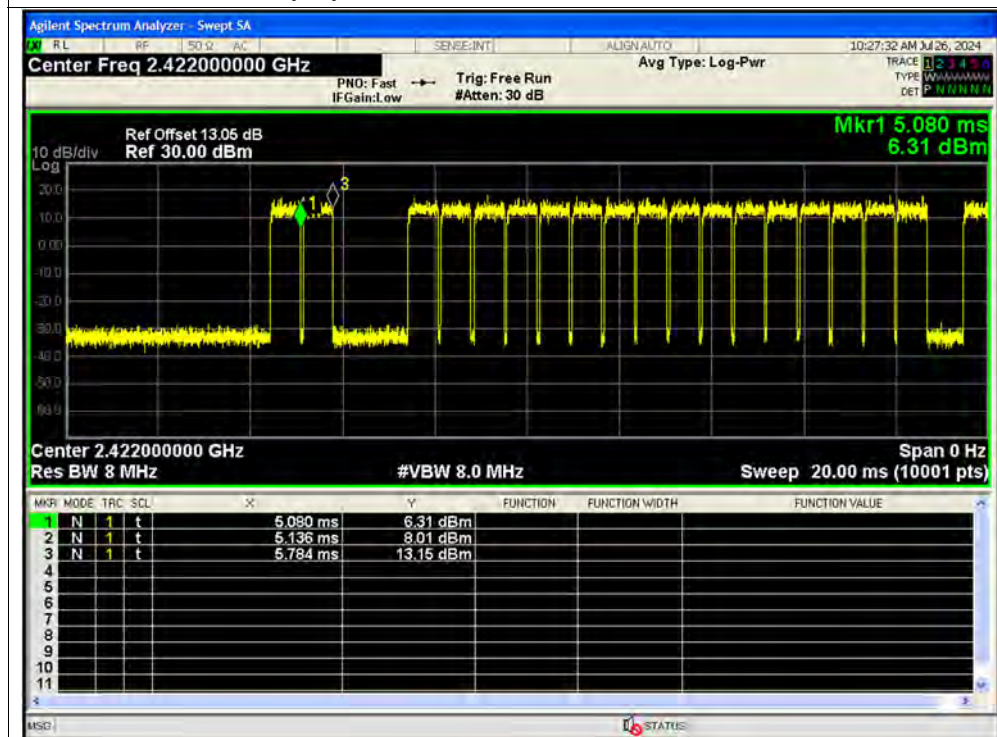
Duty Cycle NVNT n40 2442MHz Ant4 SISO



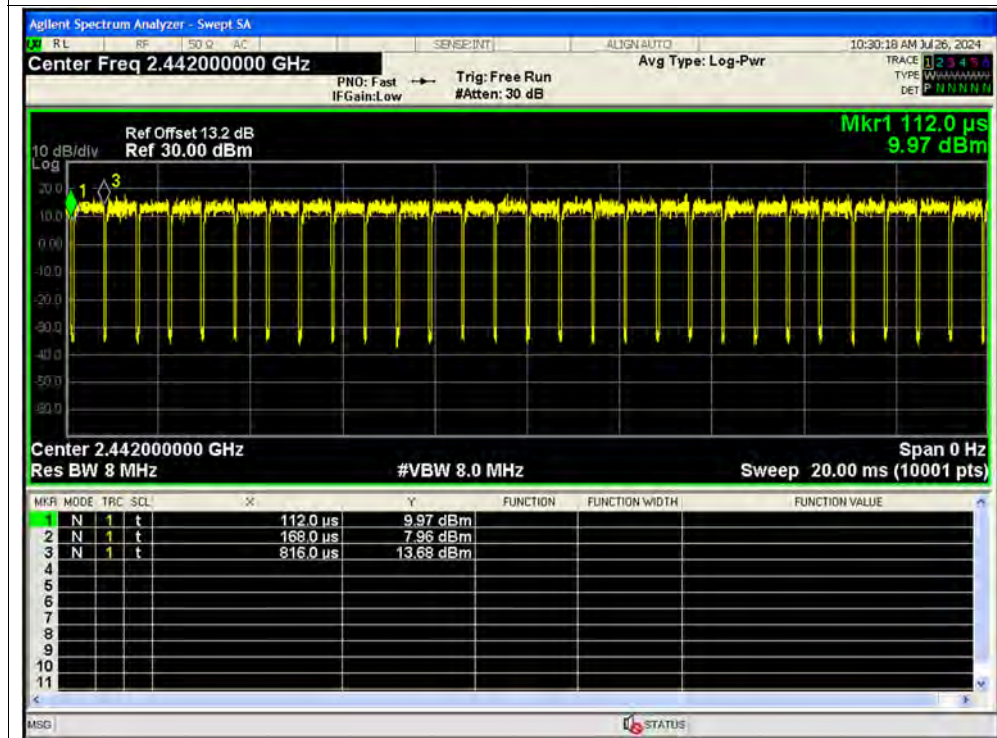
Duty Cycle NVNT n40 2462MHz Ant4 SISO



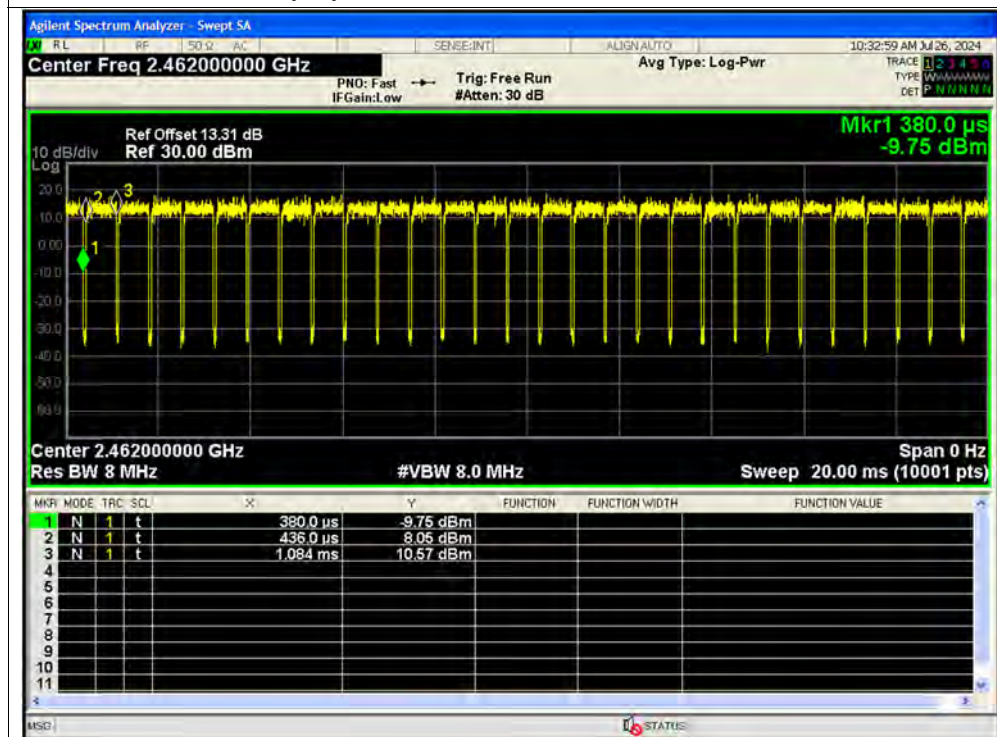
Duty Cycle NVNT n40 2422MHz Sum MIMO



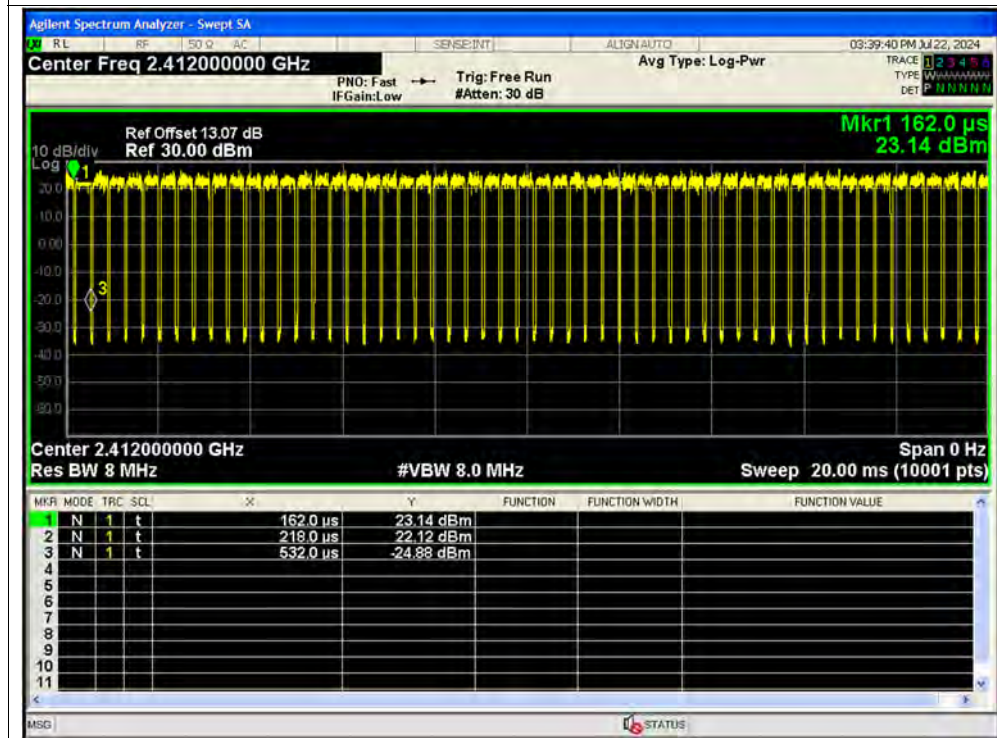
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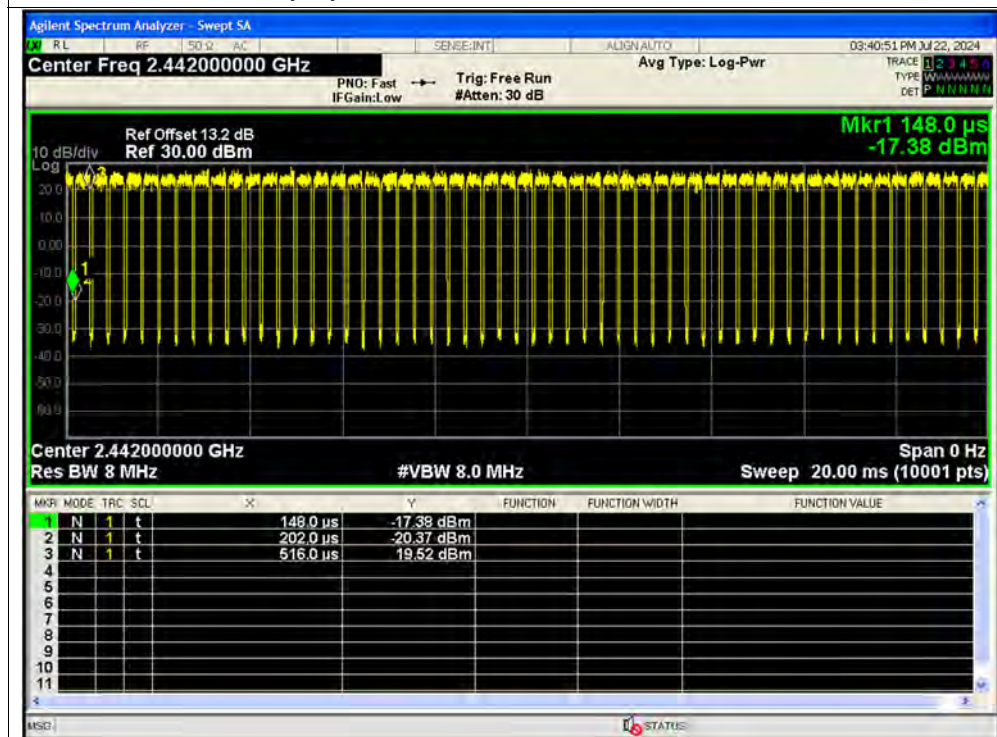
Duty Cycle NVNT n40 2462MHz Sum MIMO



Duty Cycle NVNT ax20 2412MHz Ant1 SISO

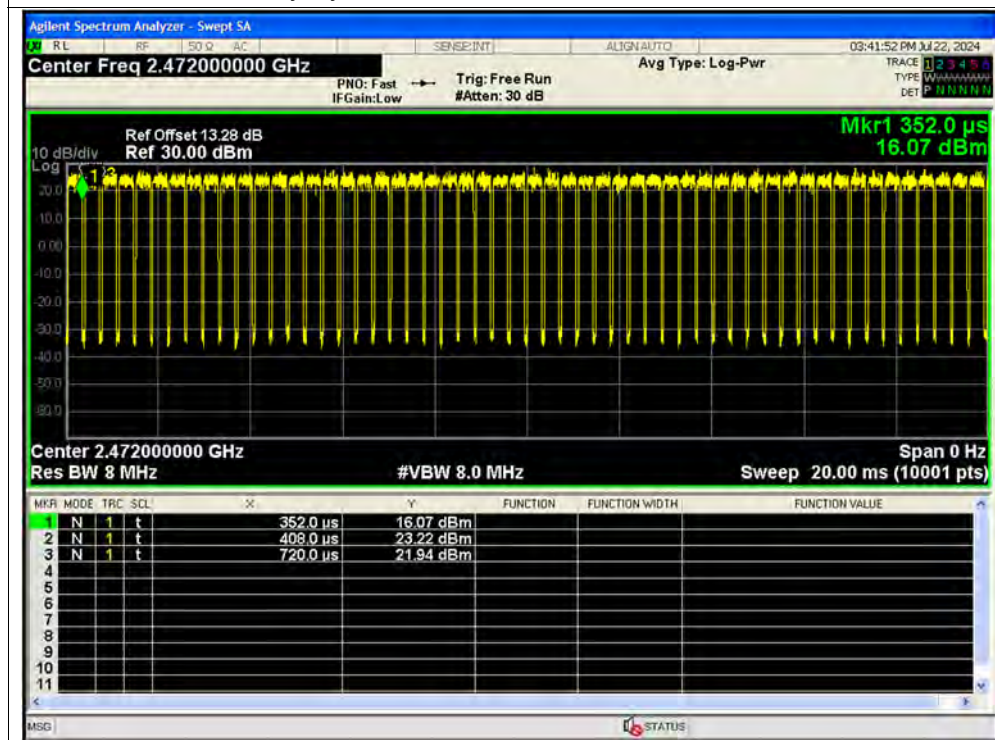


Duty Cycle NVNT ax20 2442MHz Ant1 SISO

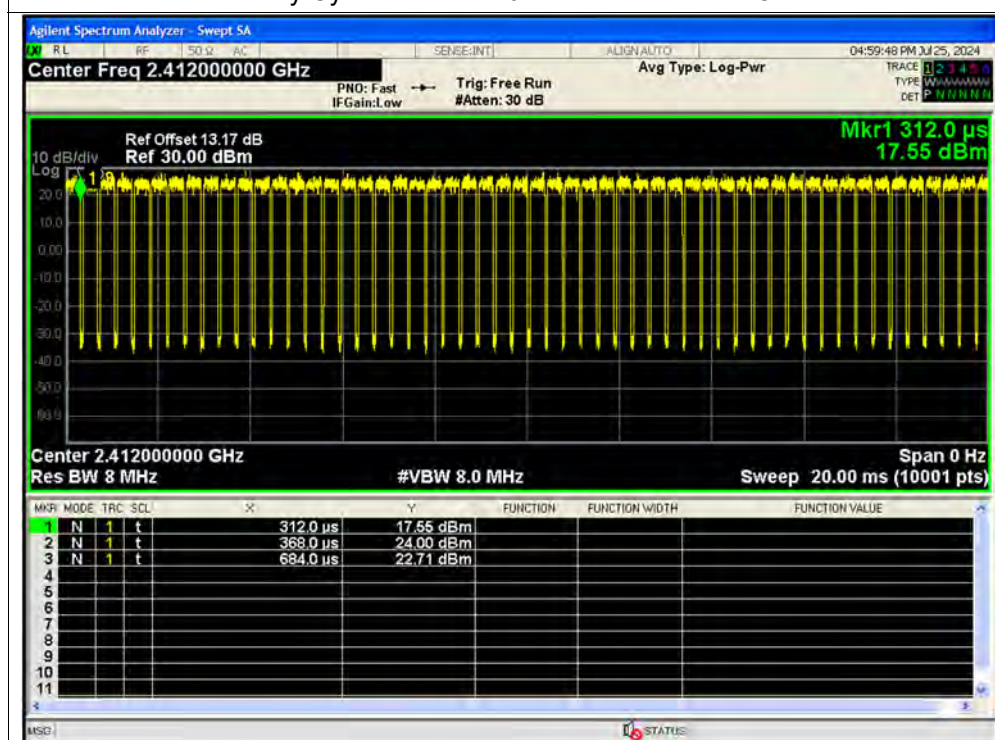




Duty Cycle NVNT ax20 2472MHz Ant1 SISO

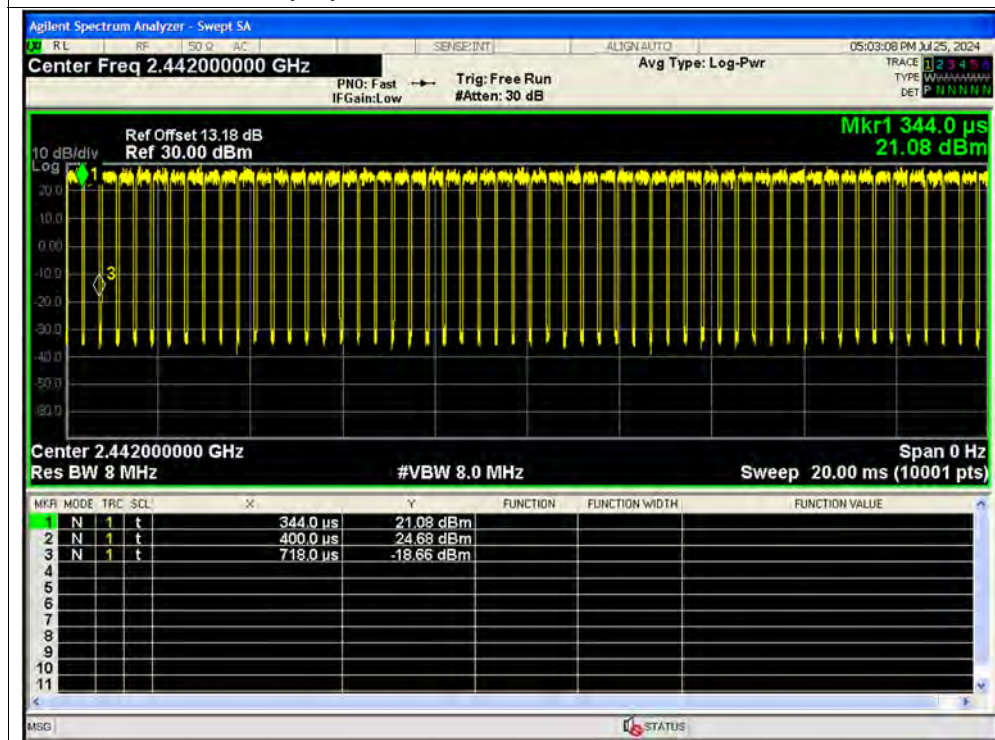


Duty Cycle NVNT ax20 2412MHz Ant2 SISO

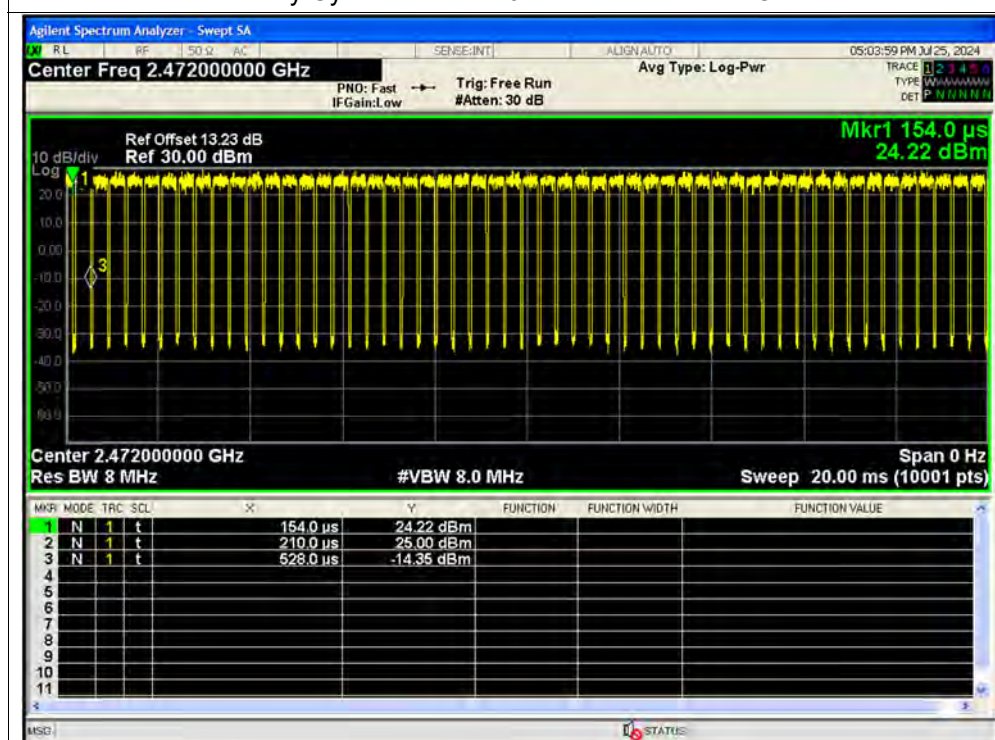




Duty Cycle NVNT ax20 2442MHz Ant2 SISO

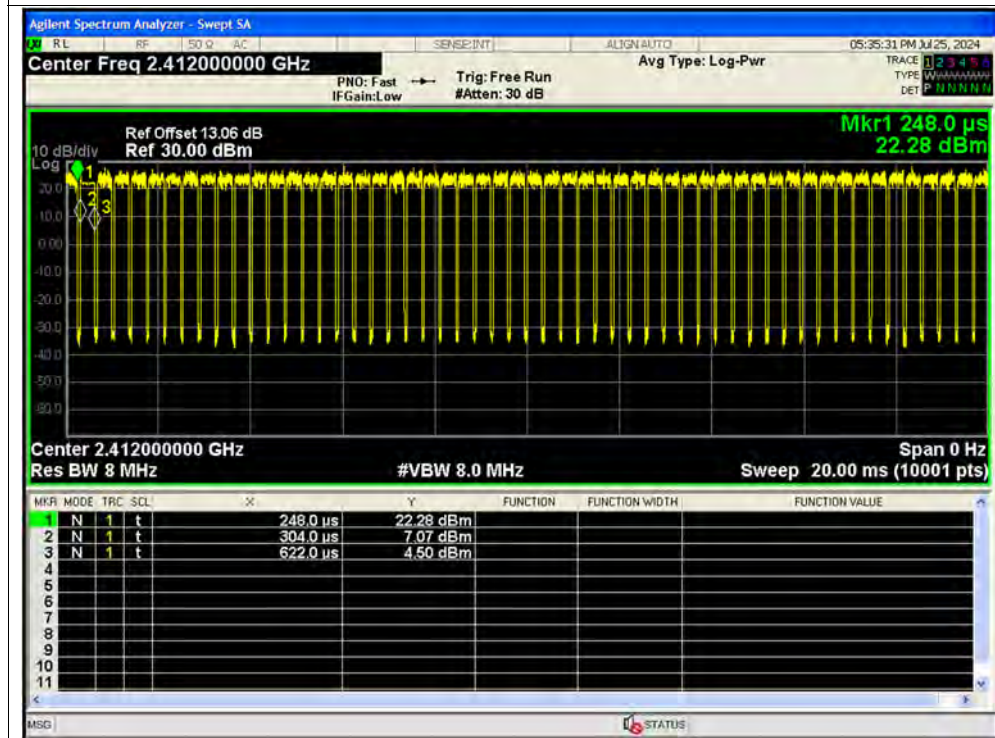


Duty Cycle NVNT ax20 2472MHz Ant2 SISO

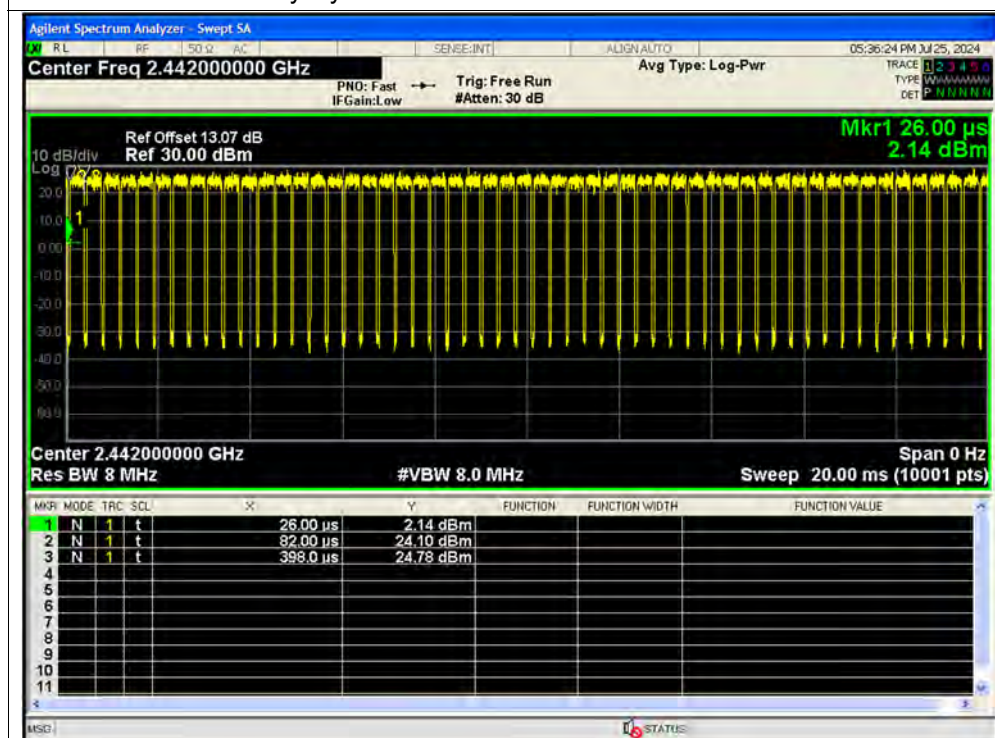




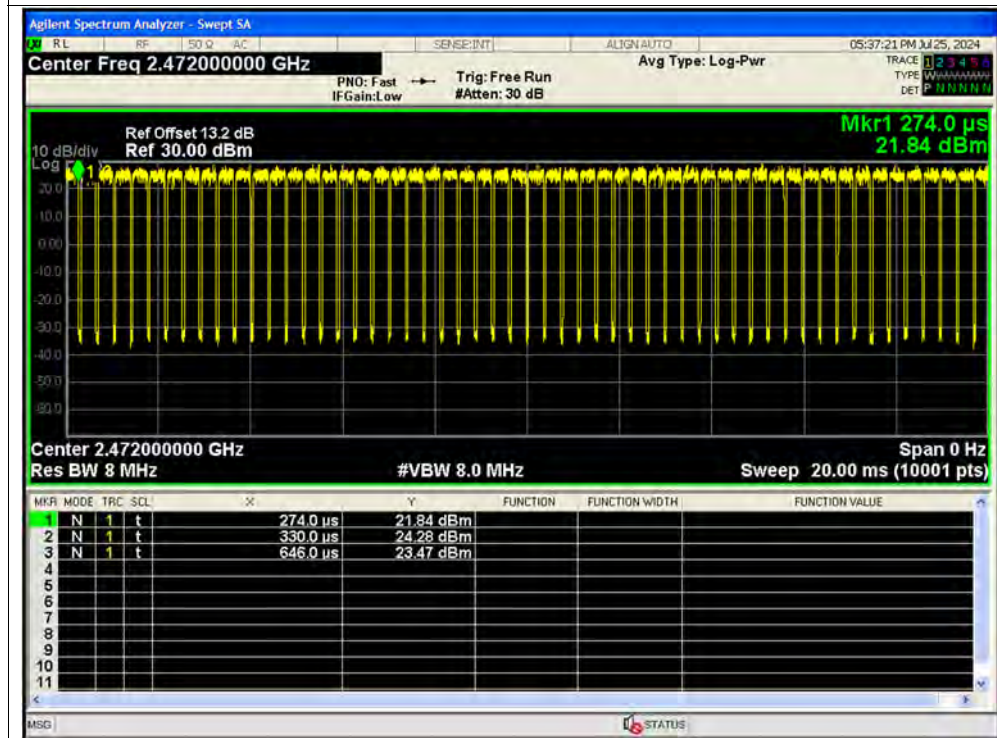
Duty Cycle NVNT ax20 2412MHz Ant3 SISO



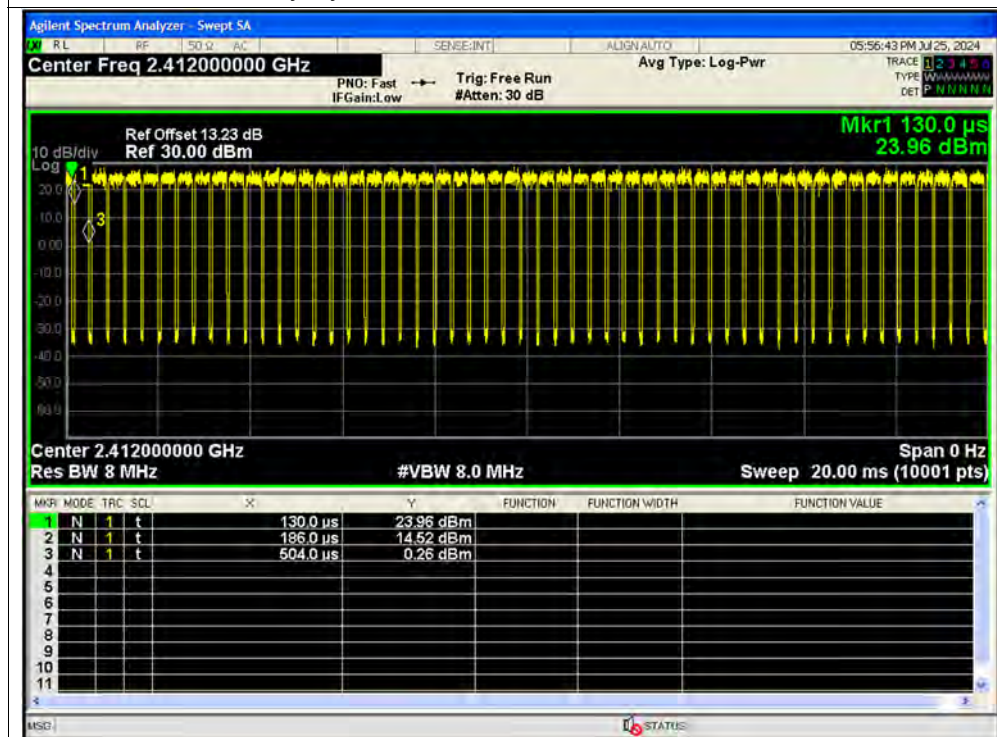
Duty Cycle NVNT ax20 2442MHz Ant3 SISO



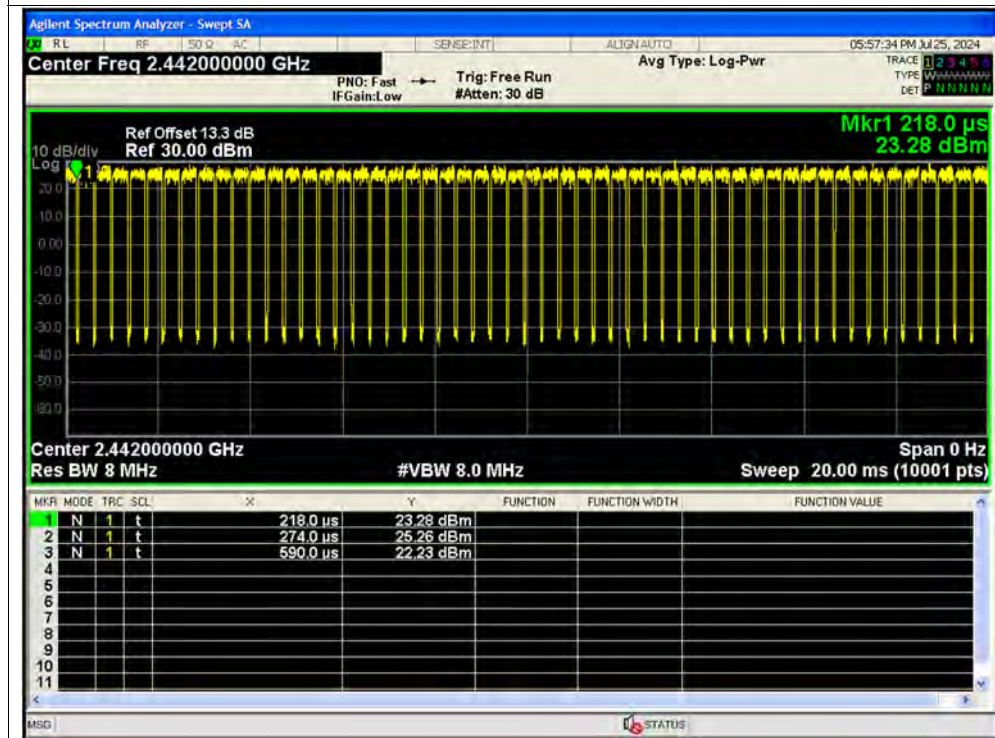
Duty Cycle NVNT ax20 2472MHz Ant3 SISO



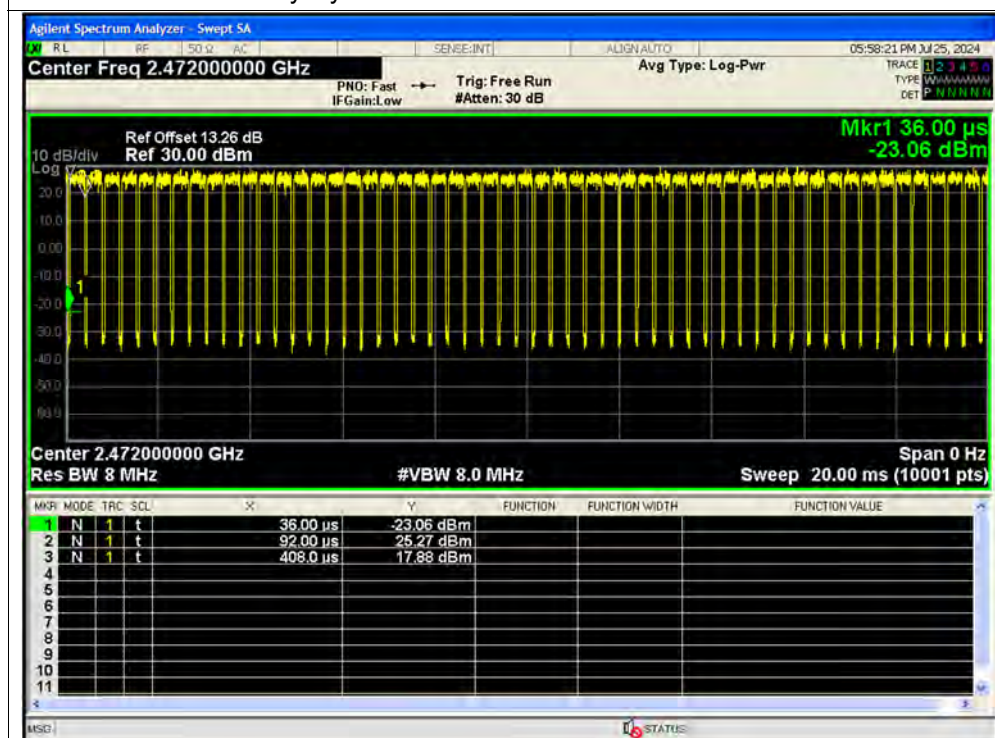
Duty Cycle NVNT ax20 2412MHz Ant4 SISO



Duty Cycle NVNT ax20 2442MHz Ant4 SISO

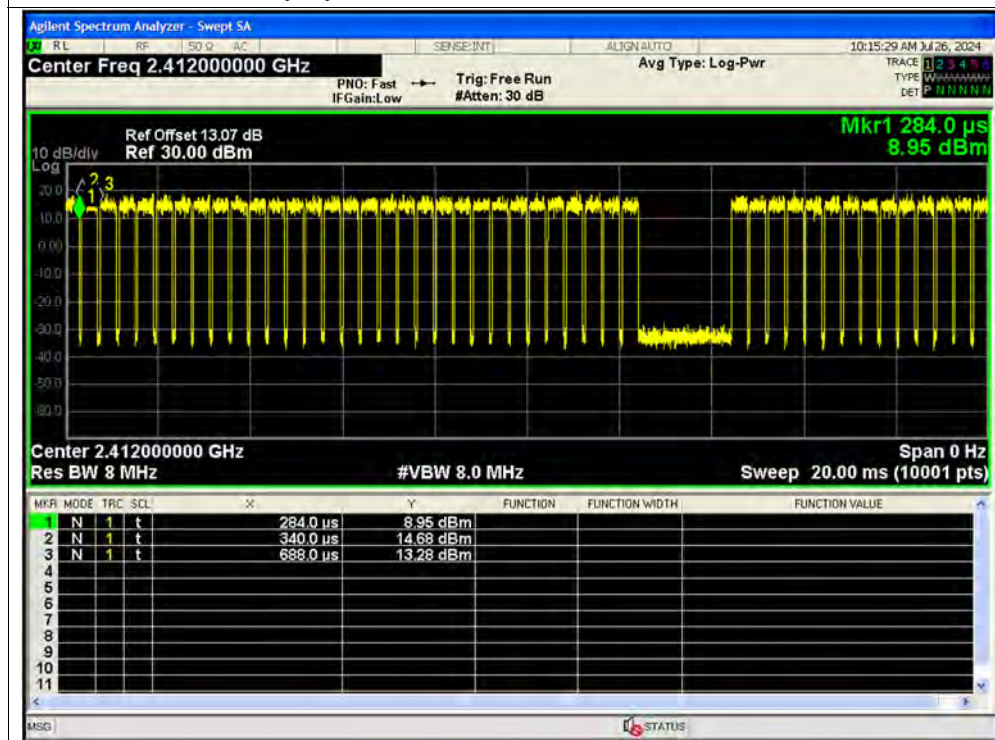


Duty Cycle NVNT ax20 2472MHz Ant4 SISO

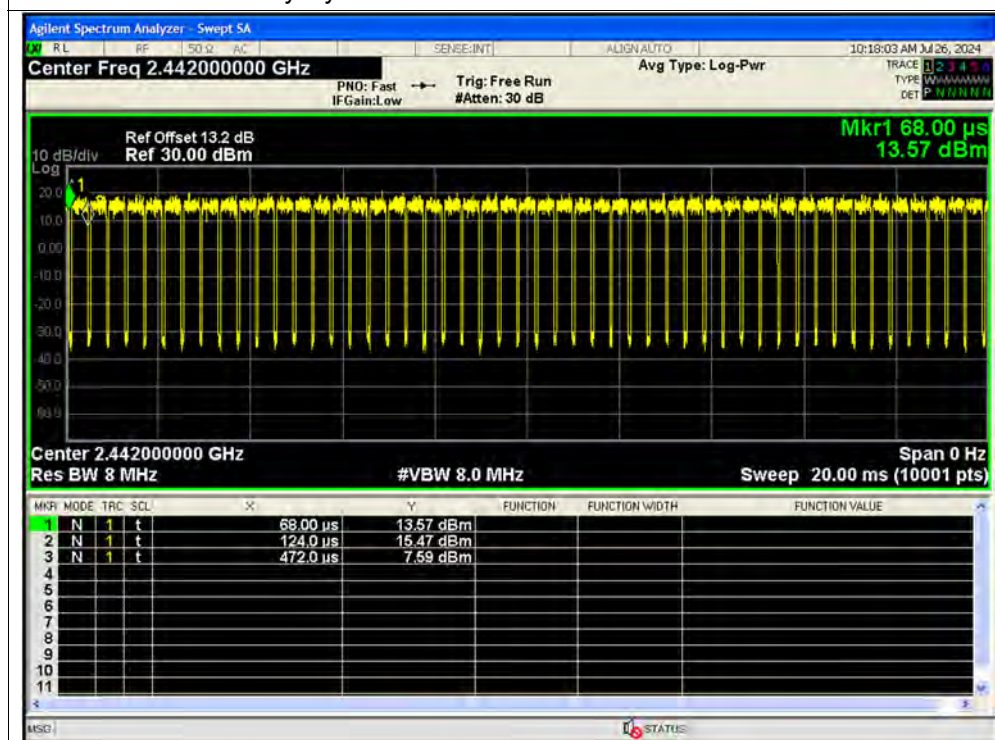




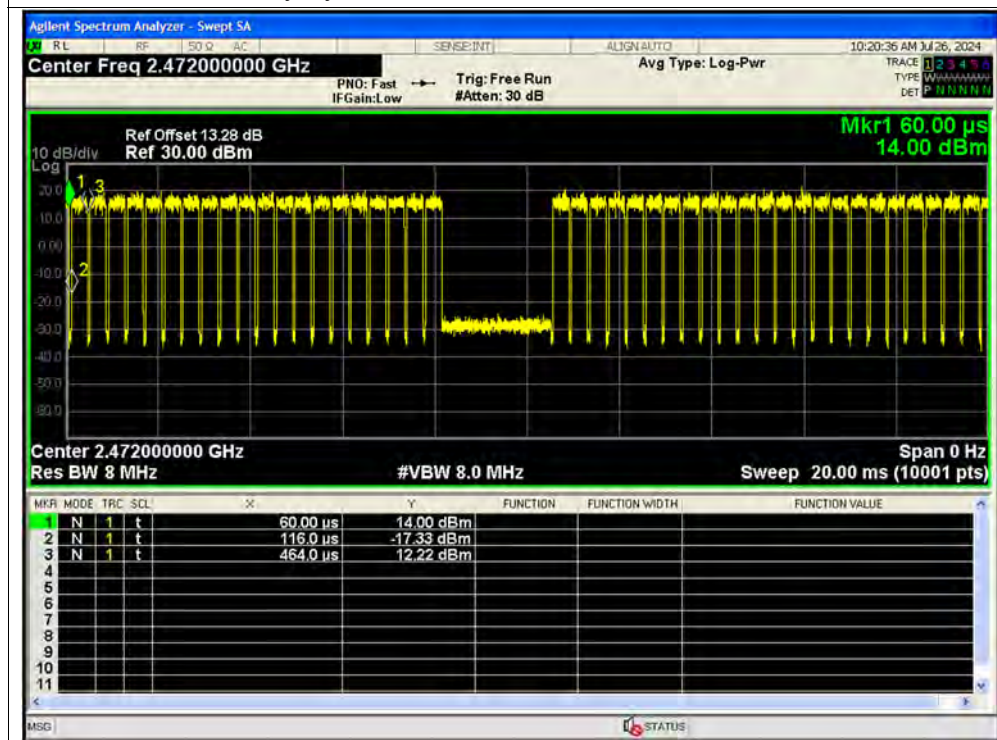
Duty Cycle NVNT ax20 2412MHz Sum MIMO



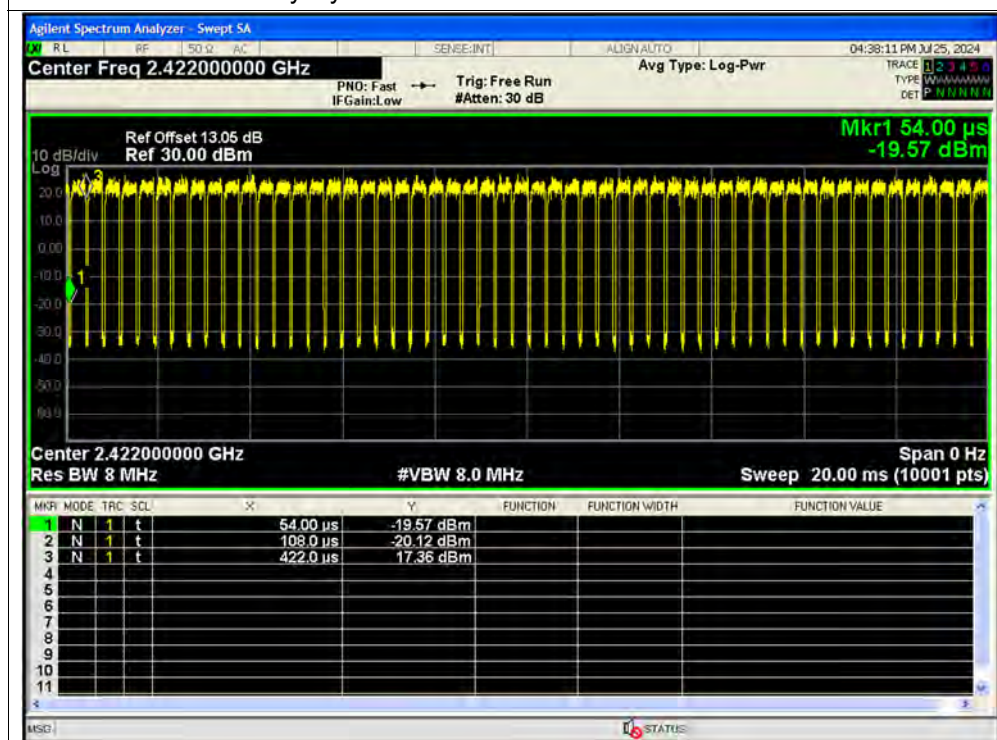
Duty Cycle NVNT ax20 2442MHz Sum MIMO



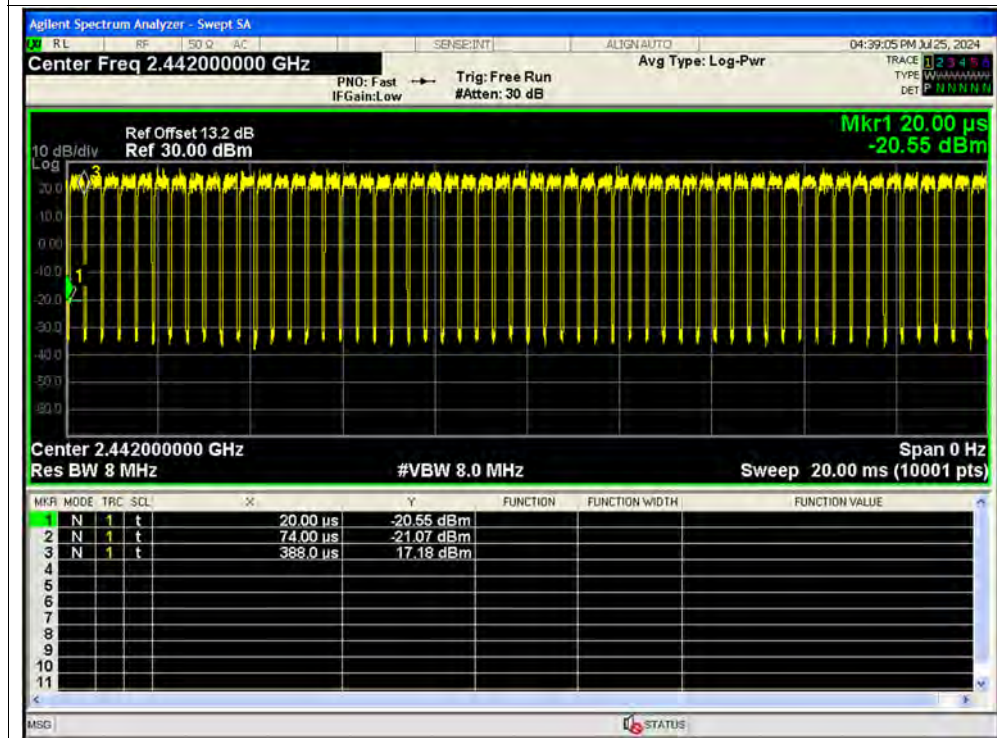
Duty Cycle NVNT ax20 2472MHz Sum MIMO



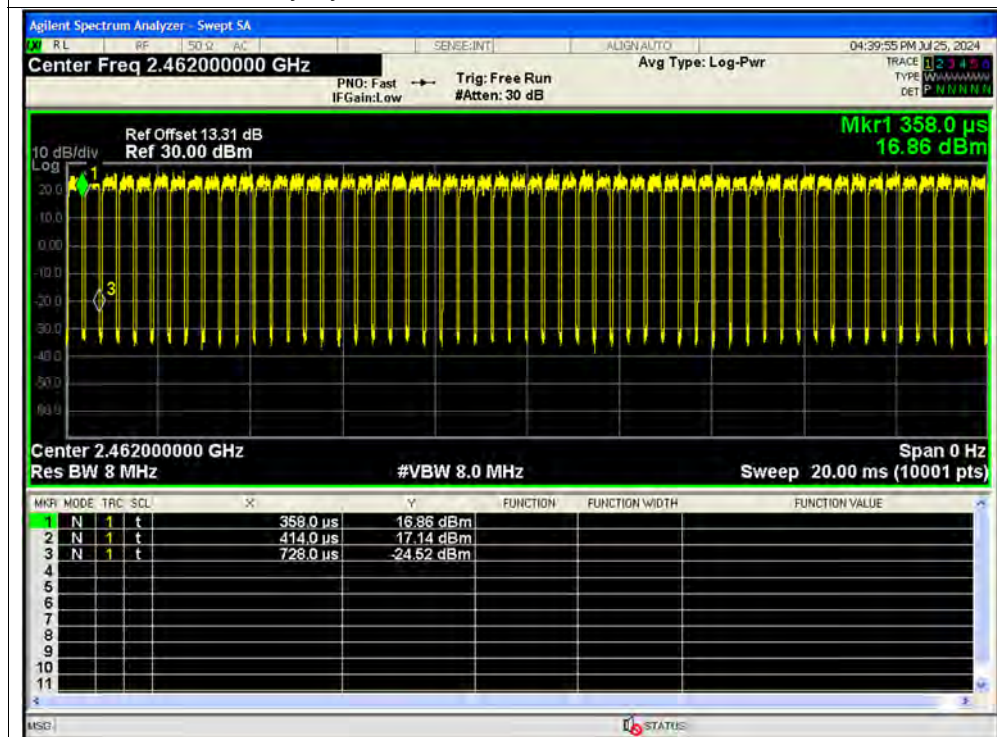
Duty Cycle NVNT ax40 2422MHz Ant1 SISO



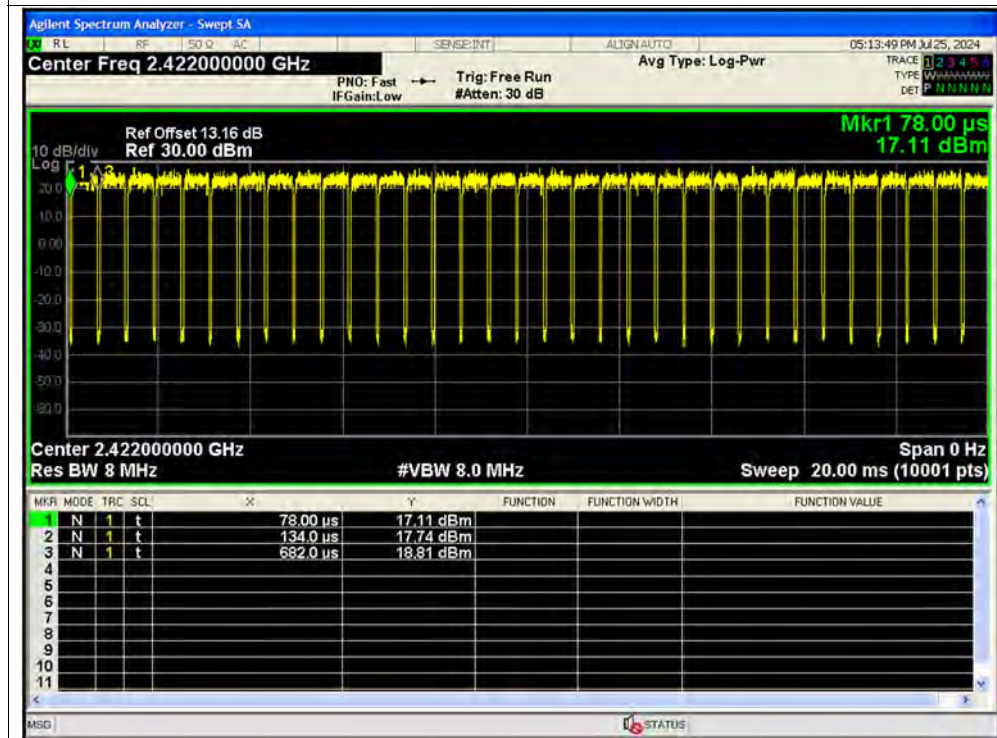
Duty Cycle NVNT ax40 2442MHz Ant1 SISO



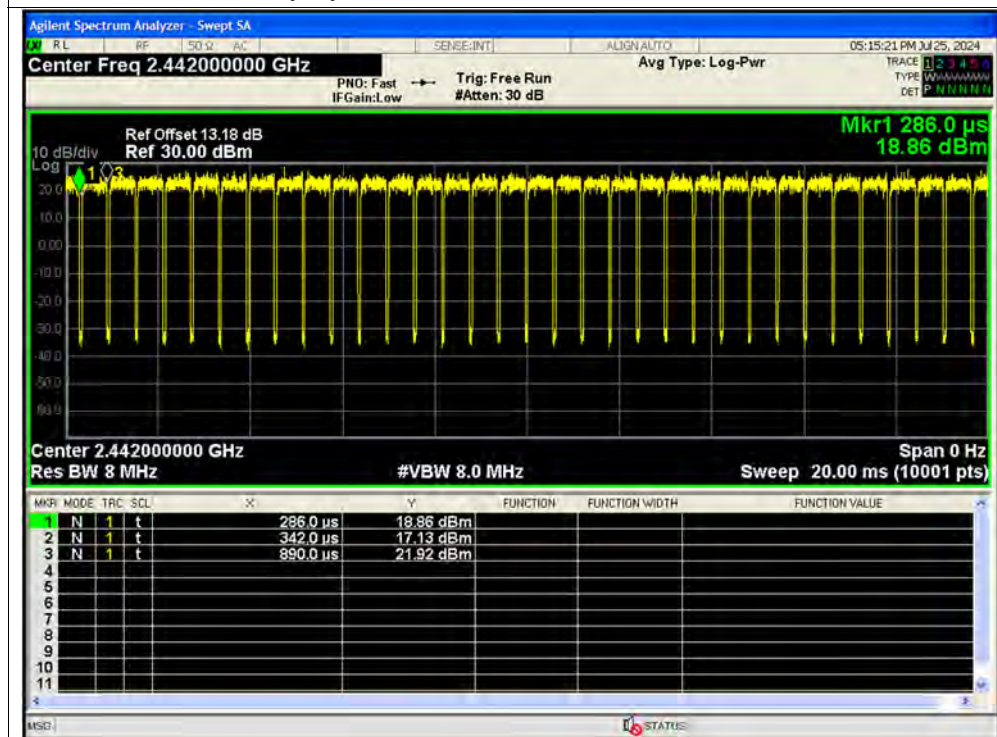
Duty Cycle NVNT ax40 2462MHz Ant1 SISO



Duty Cycle NVNT ax40 2422MHz Ant2 SISO

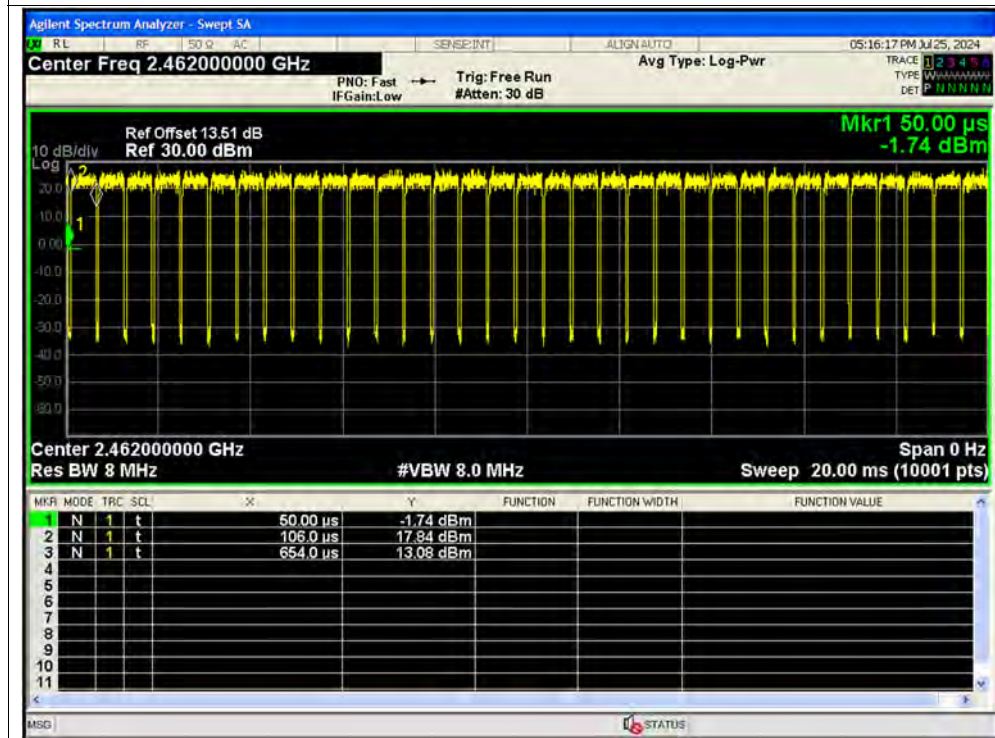


Duty Cycle NVNT ax40 2442MHz Ant2 SISO

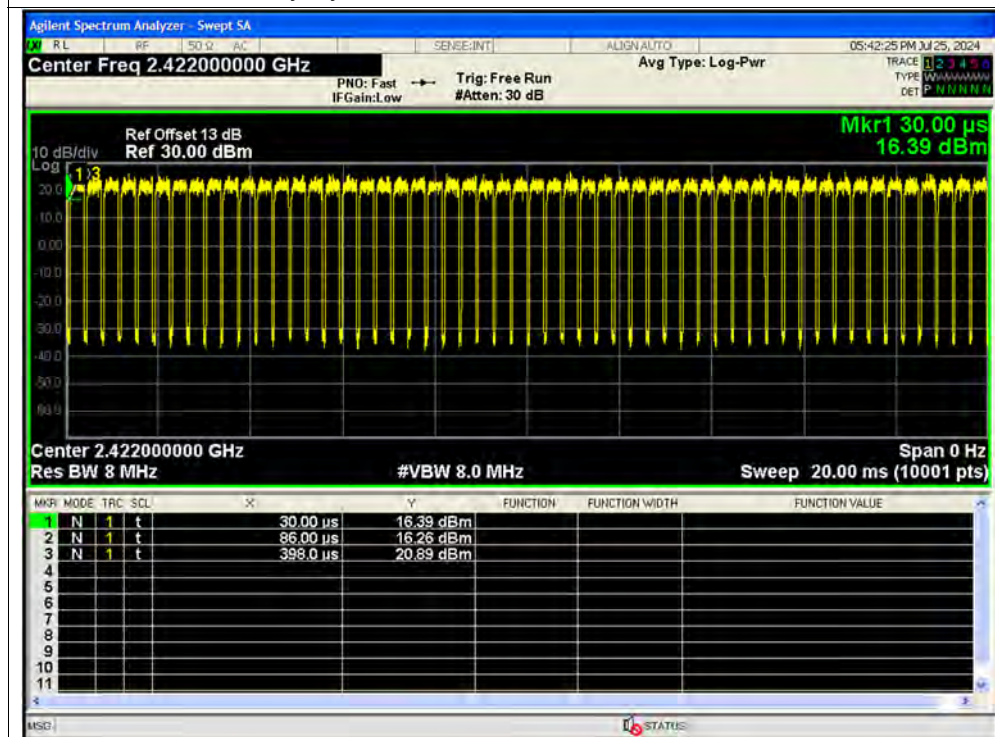




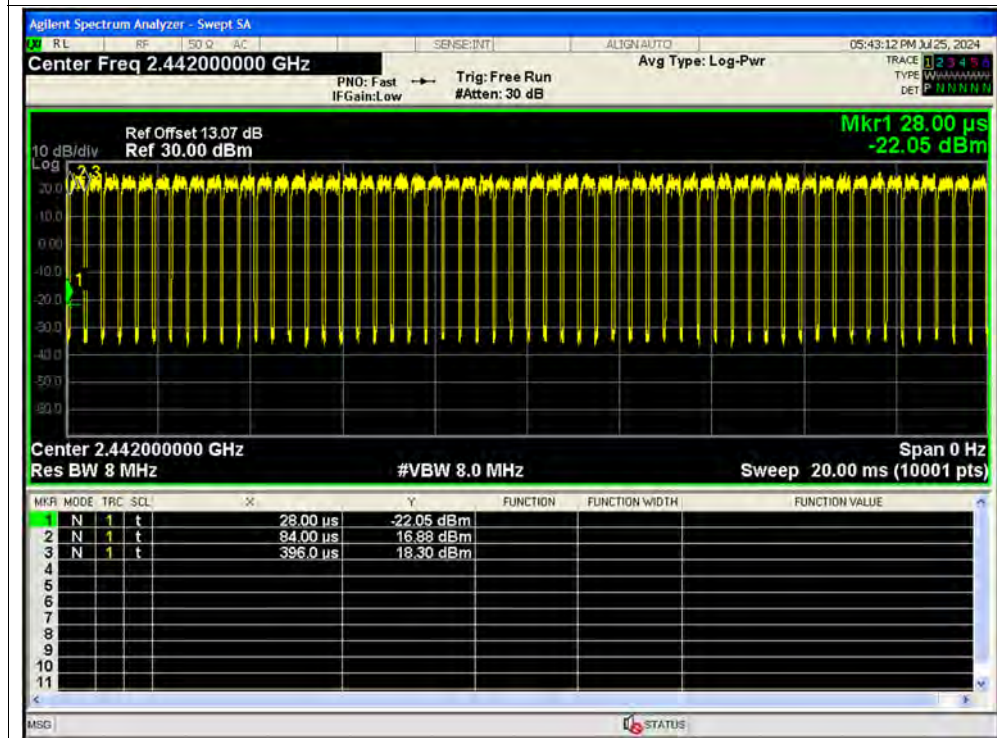
Duty Cycle NVNT ax40 2462MHz Ant2 SISO



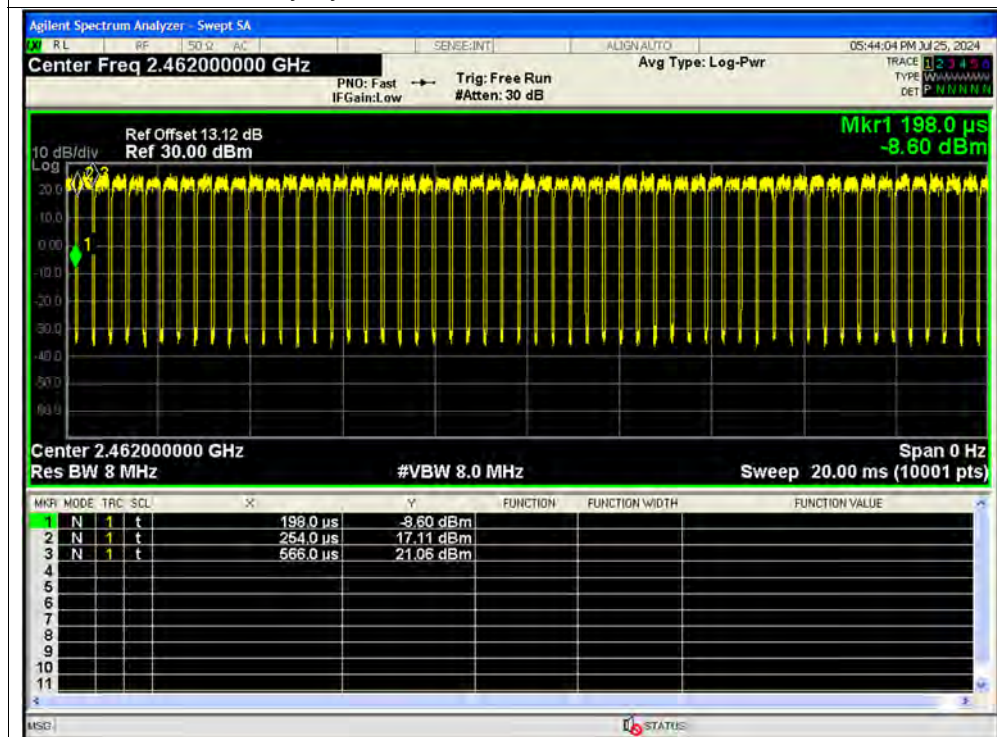
Duty Cycle NVNT ax40 2422MHz Ant3 SISO



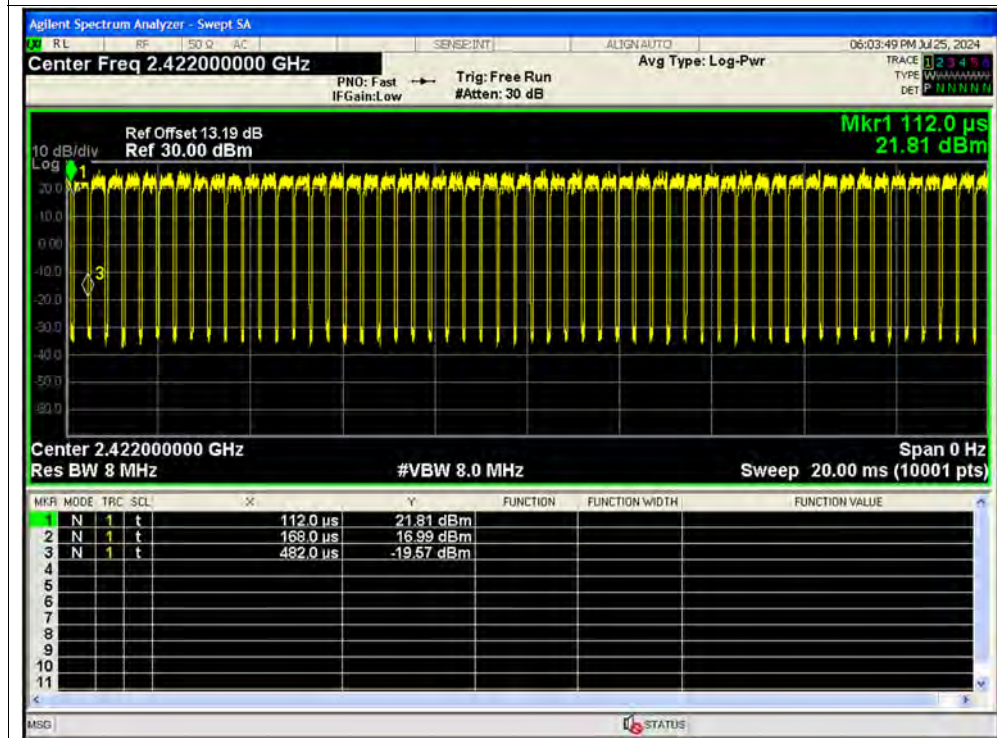
Duty Cycle NVNT ax40 2442MHz Ant3 SISO



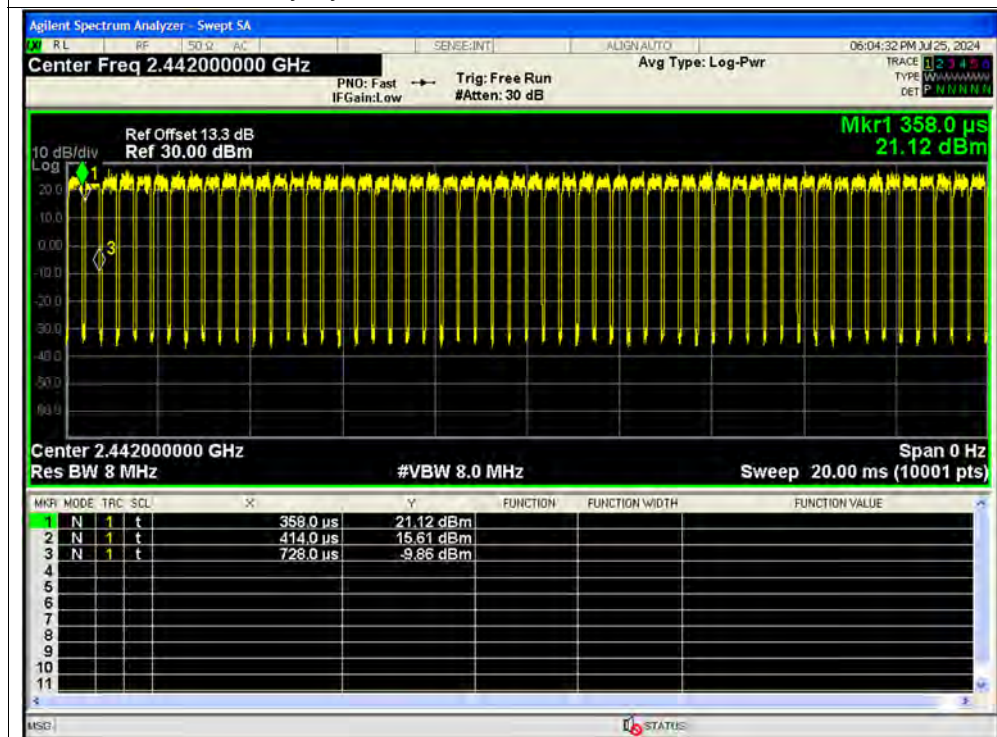
Duty Cycle NVNT ax40 2462MHz Ant3 SISO



Duty Cycle NVNT ax40 2422MHz Ant4 SISO

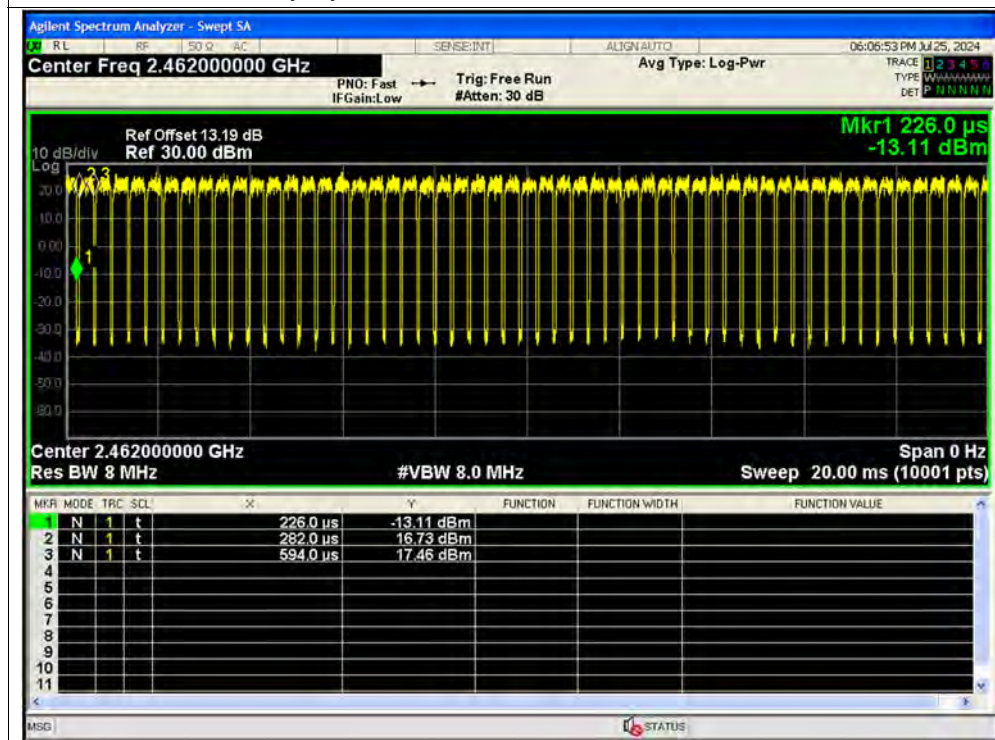


Duty Cycle NVNT ax40 2442MHz Ant4 SISO

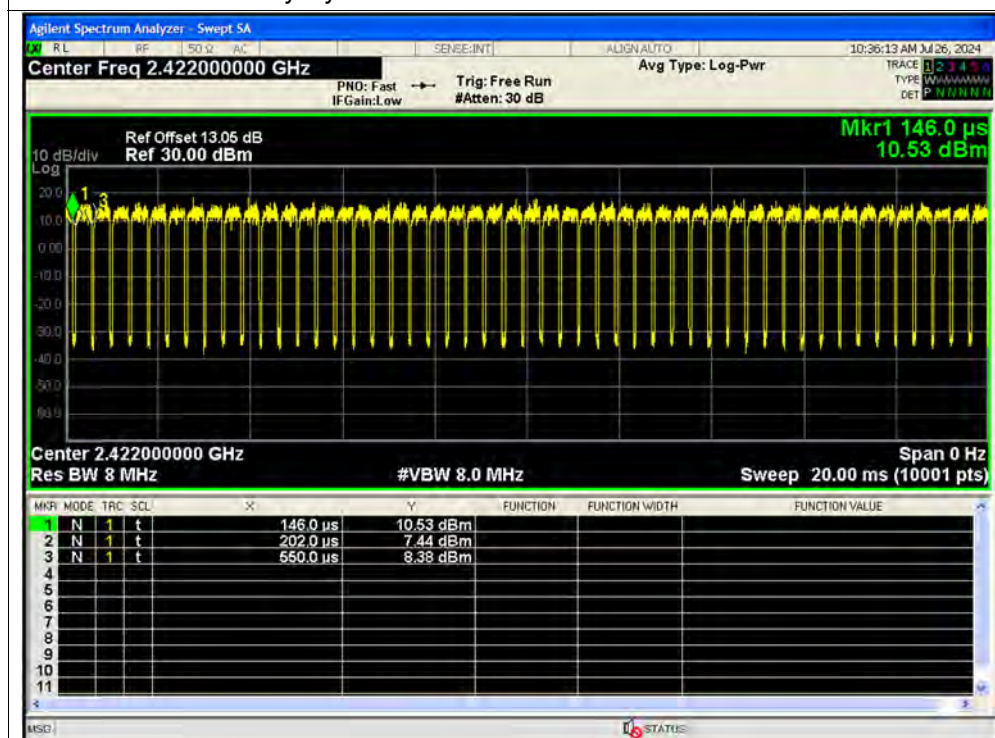




Duty Cycle NVNT ax40 2462MHz Ant4 SISO

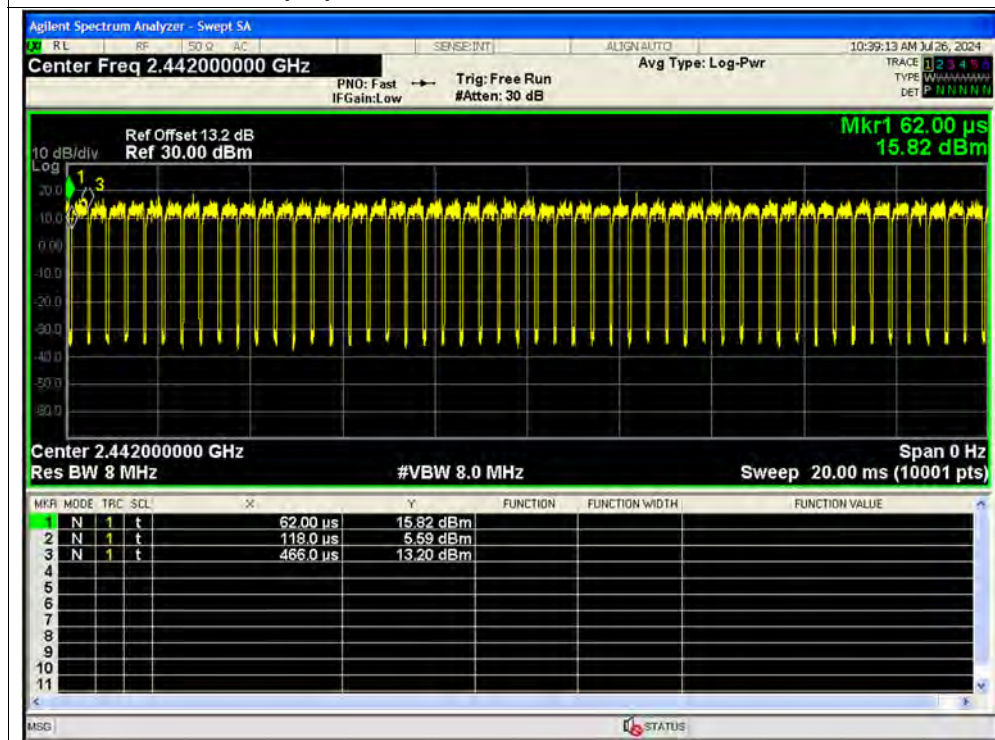


Duty Cycle NVNT ax40 2422MHz Sum MIMO

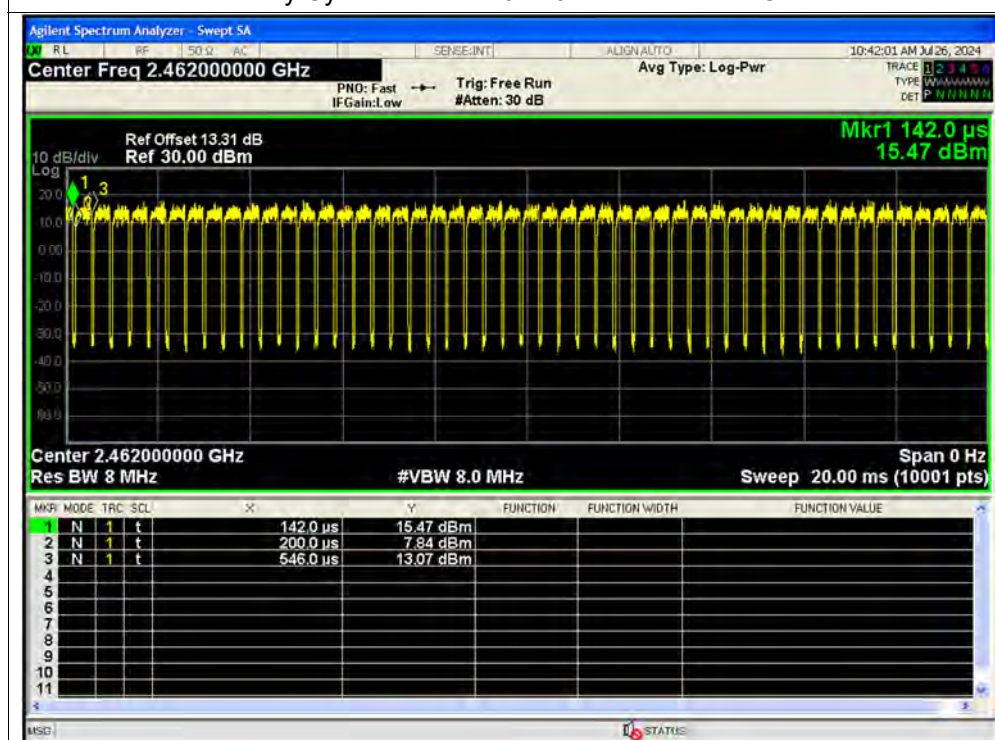




Duty Cycle NVNT ax40 2442MHz Sum MIMO



Duty Cycle NVNT ax40 2462MHz Sum MIMO



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

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
b SISO	2412	Ant1	26.24	0	26.24	0.42073	30	Pass
b SISO	2442	Ant1	26.78	0	26.78	0.47643	30	Pass
b SISO	2472	Ant1	26.99	0	26.99	0.50003	30	Pass
b SISO	2412	Ant2	27.3	0	27.3	0.53703	30	Pass
b SISO	2442	Ant2	27.89	0	27.89	0.61518	30	Pass
b SISO	2472	Ant2	26.78	0	26.78	0.47643	30	Pass
b SISO	2412	Ant3	26.43	0	26.43	0.43954	30	Pass
b SISO	2442	Ant3	26.96	0	26.96	0.49659	30	Pass
b SISO	2472	Ant3	27.59	0	27.59	0.57412	30	Pass
b SISO	2412	Ant4	27.41	0	27.41	0.55081	30	Pass
b SISO	2442	Ant4	27.78	0	27.78	0.59979	30	Pass
b SISO	2472	Ant4	27.65	0	27.65	0.5821	30	Pass
g SISO	2412	Ant1	28.75	0	28.75	0.74989	30	Pass
g SISO	2442	Ant1	28.73	0	28.73	0.74645	30	Pass
g SISO	2472	Ant1	29.2	0	29.2	0.83176	30	Pass
g SISO	2412	Ant2	29.2	0	29.2	0.83176	30	Pass
g SISO	2442	Ant2	29.38	0	29.38	0.86696	30	Pass
g SISO	2472	Ant2	29.58	0	29.58	0.90782	30	Pass
g SISO	2412	Ant3	27.75	0	27.75	0.59566	30	Pass
g SISO	2442	Ant3	28.69	0	28.69	0.73961	30	Pass
g SISO	2472	Ant3	29.29	0	29.29	0.84918	30	Pass
g SISO	2412	Ant4	28.77	0	28.77	0.75336	30	Pass
g SISO	2442	Ant4	29.16	0	29.16	0.82414	30	Pass
g SISO	2472	Ant4	29.26	0	29.26	0.84333	30	Pass
n20 SISO	2412	Ant1	27.68	0	27.68	0.58614	30	Pass
n20 SISO	2442	Ant1	28.22	0	28.22	0.66374	30	Pass
n20 SISO	2472	Ant1	28.21	0	28.21	0.66222	30	Pass
n20 SISO	2412	Ant2	28.88	0	28.88	0.77268	30	Pass
n20 SISO	2442	Ant2	29.6	0	29.6	0.91201	30	Pass
n20 SISO	2472	Ant2	29.17	0	29.17	0.82604	30	Pass
n20 SISO	2412	Ant3	28.25	0	28.25	0.66834	30	Pass
n20 SISO	2442	Ant3	29.19	0	29.19	0.82985	30	Pass
n20 SISO	2472	Ant3	29.56	0	29.56	0.90365	30	Pass



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n20 SISO	2412	Ant4	29.31	0	29.31	0.8531	30	Pass
n20 SISO	2442	Ant4	29.8	0	29.8	0.95499	30	Pass
n20 SISO	2472	Ant4	29.89	0	29.89	0.97499	30	Pass
n20 MIMO	2412	Ant1	20.1	0	20.1	0.10233	30	Pass
n20 MIMO	2412	Ant2	21.05	0	21.05	0.12735	30	Pass
n20 MIMO	2412	Ant3	19.27	0	19.27	0.08453	30	Pass
n20 MIMO	2412	Ant4	18.94	0	18.94	0.07834	30	Pass
n20 MIMO	2412	Sum	NaN	NaN	25.94	0.39255	26.91	Pass
n20 MIMO	2442	Ant1	20.6	0	20.6	0.11482	30	Pass
n20 MIMO	2442	Ant2	21.55	0	21.55	0.14289	30	Pass
n20 MIMO	2442	Ant3	20.11	0	20.11	0.10257	30	Pass
n20 MIMO	2442	Ant4	19.58	0	19.58	0.09078	30	Pass
n20 MIMO	2442	Sum	NaN	NaN	26.54	0.45105	26.91	Pass
n20 MIMO	2472	Ant1	20.76	0	20.76	0.11912	30	Pass
n20 MIMO	2472	Ant2	21.71	0	21.71	0.14825	30	Pass
n20 MIMO	2472	Ant3	20.68	0	20.68	0.11695	30	Pass
n20 MIMO	2472	Ant4	20.08	0	20.08	0.10186	30	Pass
n20 MIMO	2472	Sum	NaN	NaN	26.87	0.48619	26.91	Pass
n40 SISO	2422	Ant1	28.98	0	28.98	0.79068	30	Pass
n40 SISO	2442	Ant1	29.52	0	29.52	0.89536	30	Pass
n40 SISO	2462	Ant1	29.41	0	29.41	0.87297	30	Pass
n40 SISO	2422	Ant2	28.96	0	28.96	0.78705	30	Pass
n40 SISO	2442	Ant2	29.35	0	29.35	0.86099	30	Pass
n40 SISO	2462	Ant2	29.84	0	29.84	0.96383	30	Pass
n40 SISO	2422	Ant3	28.34	0	28.34	0.68234	30	Pass
n40 SISO	2442	Ant3	28.76	0	28.76	0.75162	30	Pass
n40 SISO	2462	Ant3	29.17	0	29.17	0.82604	30	Pass
n40 SISO	2422	Ant4	29.35	0	29.35	0.86099	30	Pass
n40 SISO	2442	Ant4	29.75	0	29.75	0.94406	30	Pass
n40 SISO	2462	Ant4	29.63	0	29.63	0.91833	30	Pass
n40 MIMO	2422	Ant1	19.73	0	19.73	0.09397	30	Pass
n40 MIMO	2422	Ant2	20.88	0	20.88	0.12246	30	Pass
n40 MIMO	2422	Ant3	19.07	0	19.07	0.08072	30	Pass
n40 MIMO	2422	Ant4	18.83	0	18.83	0.07638	30	Pass
n40 MIMO	2422	Sum	NaN	NaN	25.72	0.37354	26.91	Pass
n40 MIMO	2442	Ant1	20.16	0	20.16	0.10375	30	Pass
n40 MIMO	2442	Ant2	21.02	0	21.02	0.12647	30	Pass
n40 MIMO	2442	Ant3	19.61	0	19.61	0.09141	30	Pass



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n40 MIMO	2442	Ant4	19.07	0	19.07	0.08072	30	Pass
n40 MIMO	2442	Sum	NaN	NaN	26.05	0.40236	26.91	Pass
n40 MIMO	2462	Ant1	20.31	0	20.31	0.1074	30	Pass
n40 MIMO	2462	Ant2	21.43	0	21.43	0.139	30	Pass
n40 MIMO	2462	Ant3	19.98	0	19.98	0.09954	30	Pass
n40 MIMO	2462	Ant4	19.26	0	19.26	0.08433	30	Pass
n40 MIMO	2462	Sum	NaN	NaN	26.34	0.43027	26.91	Pass
ax20 SISO	2412	Ant1	28.85	0	28.85	0.76736	30	Pass
ax20 SISO	2442	Ant1	29.56	0	29.56	0.90365	30	Pass
ax20 SISO	2472	Ant1	29.4	0	29.4	0.87096	30	Pass
ax20 SISO	2412	Ant2	28.69	0	28.69	0.73961	30	Pass
ax20 SISO	2442	Ant2	29.18	0	29.18	0.82794	30	Pass
ax20 SISO	2472	Ant2	29.57	0	29.57	0.90573	30	Pass
ax20 SISO	2412	Ant3	27.75	0	27.75	0.59566	30	Pass
ax20 SISO	2442	Ant3	28.57	0	28.57	0.71945	30	Pass
ax20 SISO	2472	Ant3	29.19	0	29.19	0.82985	30	Pass
ax20 SISO	2412	Ant4	28.8	0	28.8	0.75858	30	Pass
ax20 SISO	2442	Ant4	29.5	0	29.5	0.89125	30	Pass
ax20 SISO	2472	Ant4	29.57	0	29.57	0.90573	30	Pass
ax20 MIMO	2412	Ant1	19.56	0	19.56	0.09036	30	Pass
ax20 MIMO	2412	Ant2	20.43	0	20.43	0.11041	30	Pass
ax20 MIMO	2412	Ant3	18.86	0	18.86	0.07691	30	Pass
ax20 MIMO	2412	Ant4	18.48	0	18.48	0.07047	30	Pass
ax20 MIMO	2412	Sum	NaN	NaN	25.42	0.34816	26.91	Pass
ax20 MIMO	2442	Ant1	19.93	0	19.93	0.0984	30	Pass
ax20 MIMO	2442	Ant2	20.71	0	20.71	0.11776	30	Pass
ax20 MIMO	2442	Ant3	19.28	0	19.28	0.08472	30	Pass
ax20 MIMO	2442	Ant4	18.73	0	18.73	0.07464	30	Pass
ax20 MIMO	2442	Sum	NaN	NaN	25.75	0.37553	26.91	Pass
ax20 MIMO	2472	Ant1	20.04	0	20.04	0.10093	30	Pass
ax20 MIMO	2472	Ant2	20.71	0	20.71	0.11776	30	Pass
ax20 MIMO	2472	Ant3	19.9	0	19.9	0.09772	30	Pass
ax20 MIMO	2472	Ant4	19.2	0	19.2	0.08318	30	Pass
ax20 MIMO	2472	Sum	NaN	NaN	26.02	0.39959	26.91	Pass
ax40 SISO	2422	Ant1	29.48	0	29.48	0.88716	30	Pass
ax40 SISO	2442	Ant1	29.83	0	29.83	0.96161	30	Pass
ax40 SISO	2462	Ant1	29.94	0	29.94	0.98628	30	Pass
ax40 SISO	2422	Ant2	28.63	0	28.63	0.72946	30	Pass



ax40 SISO	2442	Ant2	28.97	0	28.97	0.78886	30	Pass
ax40 SISO	2462	Ant2	29.43	0	29.43	0.877	30	Pass
ax40 SISO	2422	Ant3	28.74	0	28.74	0.74817	30	Pass
ax40 SISO	2442	Ant3	29.23	0	29.23	0.83753	30	Pass
ax40 SISO	2462	Ant3	29.55	0	29.55	0.90157	30	Pass
ax40 SISO	2422	Ant4	29.02	0	29.02	0.79799	30	Pass
ax40 SISO	2442	Ant4	29.35	0	29.35	0.86099	30	Pass
ax40 SISO	2462	Ant4	29.26	0	29.26	0.84333	30	Pass
ax40 MIMO	2422	Ant1	19.82	0	19.82	0.09594	30	Pass
ax40 MIMO	2422	Ant2	20.83	0	20.83	0.12106	30	Pass
ax40 MIMO	2422	Ant3	19.07	0	19.07	0.08072	30	Pass
ax40 MIMO	2422	Ant4	18.78	0	18.78	0.07551	30	Pass
ax40 MIMO	2422	Sum	NaN	NaN	25.72	0.37323	26.91	Pass
ax40 MIMO	2442	Ant1	20.35	0	20.35	0.10839	30	Pass
ax40 MIMO	2442	Ant2	21.24	0	21.24	0.13305	30	Pass
ax40 MIMO	2442	Ant3	19.67	0	19.67	0.09268	30	Pass
ax40 MIMO	2442	Ant4	19.22	0	19.22	0.08356	30	Pass
ax40 MIMO	2442	Sum	NaN	NaN	26.21	0.41768	26.91	Pass
ax40 MIMO	2462	Ant1	20.62	0	20.62	0.11535	30	Pass
ax40 MIMO	2462	Ant2	21.6	0	21.6	0.14454	30	Pass
ax40 MIMO	2462	Ant3	20.08	0	20.08	0.10186	30	Pass
ax40 MIMO	2462	Ant4	19.36	0	19.36	0.0863	30	Pass
ax40 MIMO	2462	Sum	NaN	NaN	26.51	0.44805	26.91	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 9.09\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to 30-(9.09-6) = 26.91dBm.

**A.3. Maximum Average Conducted Output Power**

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
b SISO	2412	Ant1	23.6	0.03	23.63	0.23067	30	Pass
b SISO	2442	Ant1	24.6	0.03	24.63	0.2904	30	Pass
b SISO	2472	Ant1	24.76	0.03	24.79	0.3013	30	Pass
b SISO	2412	Ant2	24.91	0.03	24.94	0.31189	30	Pass
b SISO	2442	Ant2	25.55	0.03	25.58	0.36141	30	Pass
b SISO	2472	Ant2	24.48	0.03	24.51	0.28249	30	Pass
b SISO	2412	Ant3	24.17	0.03	24.2	0.26303	30	Pass
b SISO	2442	Ant3	24.87	0.03	24.9	0.30903	30	Pass
b SISO	2472	Ant3	25.22	0.03	25.25	0.33497	30	Pass
b SISO	2412	Ant4	24.92	0.03	24.95	0.31261	30	Pass
b SISO	2442	Ant4	25.55	0.03	25.58	0.36141	30	Pass
b SISO	2472	Ant4	25.42	0.03	25.45	0.35075	30	Pass
g SISO	2412	Ant1	21.35	0.17	21.52	0.14191	30	Pass
g SISO	2442	Ant1	22.1	0.17	22.27	0.16866	30	Pass
g SISO	2472	Ant1	22.15	0.17	22.32	0.17061	30	Pass
g SISO	2412	Ant2	22.47	0.17	22.64	0.18365	30	Pass
g SISO	2442	Ant2	22.46	0.18	22.64	0.18365	30	Pass
g SISO	2472	Ant2	22.48	0.18	22.66	0.1845	30	Pass
g SISO	2412	Ant3	20.78	0.17	20.95	0.12445	30	Pass
g SISO	2442	Ant3	21.49	0.17	21.66	0.14655	30	Pass
g SISO	2472	Ant3	22.1	0.17	22.27	0.16866	30	Pass
g SISO	2412	Ant4	21.61	0.17	21.78	0.15066	30	Pass
g SISO	2442	Ant4	22.13	0.17	22.3	0.16982	30	Pass
g SISO	2472	Ant4	22.22	0.17	22.39	0.17338	30	Pass
n20 SISO	2412	Ant1	20.77	0.18	20.95	0.12445	30	Pass
n20 SISO	2442	Ant1	21.34	0.18	21.52	0.14191	30	Pass
n20 SISO	2472	Ant1	21.31	0.18	21.49	0.14093	30	Pass
n20 SISO	2412	Ant2	22.14	0.18	22.32	0.17061	30	Pass
n20 SISO	2442	Ant2	22.77	0.18	22.95	0.19724	30	Pass
n20 SISO	2472	Ant2	22.91	0.18	23.09	0.2037	30	Pass
n20 SISO	2412	Ant3	21.37	0.18	21.55	0.14289	30	Pass
n20 SISO	2442	Ant3	22.11	0.18	22.29	0.16943	30	Pass
n20 SISO	2472	Ant3	22.75	0.18	22.93	0.19634	30	Pass



n20 SISO	2412	Ant4	22.29	0.18	22.47	0.1766	30	Pass
n20 SISO	2442	Ant4	22.85	0.18	23.03	0.20091	30	Pass
n20 SISO	2472	Ant4	22.97	0.18	23.15	0.20654	30	Pass
n20 MIMO	2412	Ant1	12.67	0.19	12.86	0.01932	30	Pass
n20 MIMO	2412	Ant2	13.29	0.19	13.48	0.02228	30	Pass
n20 MIMO	2412	Ant3	11.69	0.19	11.88	0.01542	30	Pass
n20 MIMO	2412	Ant4	11.41	0.19	11.6	0.01445	30	Pass
n20 MIMO	2412	Sum	NaN	NaN	18.54	0.07148	26.91	Pass
n20 MIMO	2442	Ant1	13.35	0.18	13.53	0.02254	30	Pass
n20 MIMO	2442	Ant2	14.08	0.18	14.26	0.02667	30	Pass
n20 MIMO	2442	Ant3	12.71	0.18	12.89	0.01945	30	Pass
n20 MIMO	2442	Ant4	12.13	0.18	12.31	0.01702	30	Pass
n20 MIMO	2442	Sum	NaN	NaN	19.33	0.08569	26.91	Pass
n20 MIMO	2472	Ant1	13.6	0.18	13.78	0.02388	30	Pass
n20 MIMO	2472	Ant2	14.25	0.18	14.43	0.02773	30	Pass
n20 MIMO	2472	Ant3	13.31	0.18	13.49	0.02234	30	Pass
n20 MIMO	2472	Ant4	12.65	0.18	12.83	0.01919	30	Pass
n20 MIMO	2472	Sum	NaN	NaN	19.69	0.09313	26.91	Pass
n40 SISO	2422	Ant1	21.61	0.36	21.97	0.1574	30	Pass
n40 SISO	2442	Ant1	21.99	0.36	22.35	0.17179	30	Pass
n40 SISO	2462	Ant1	22.07	0.36	22.43	0.17498	30	Pass
n40 SISO	2422	Ant2	21.63	0.36	21.99	0.15812	30	Pass
n40 SISO	2442	Ant2	21.93	0.35	22.28	0.16904	30	Pass
n40 SISO	2462	Ant2	22.23	0.36	22.59	0.18155	30	Pass
n40 SISO	2422	Ant3	20.84	0.36	21.2	0.13183	30	Pass
n40 SISO	2442	Ant3	21.3	0.36	21.66	0.14655	30	Pass
n40 SISO	2462	Ant3	21.72	0.36	22.08	0.16144	30	Pass
n40 SISO	2422	Ant4	21.82	0.36	22.18	0.1652	30	Pass
n40 SISO	2442	Ant4	22.25	0.36	22.61	0.18239	30	Pass
n40 SISO	2462	Ant4	22.23	0.36	22.59	0.18155	30	Pass
n40 MIMO	2422	Ant1	10.82	0.36	11.18	0.01312	30	Pass
n40 MIMO	2422	Ant2	11.94	0.36	12.3	0.01698	30	Pass
n40 MIMO	2422	Ant3	10.98	0.36	11.34	0.01361	30	Pass
n40 MIMO	2422	Ant4	10.43	0.36	10.79	0.01199	30	Pass
n40 MIMO	2422	Sum	NaN	NaN	17.46	0.05571	26.91	Pass
n40 MIMO	2442	Ant1	12.65	0.36	13.01	0.02	30	Pass
n40 MIMO	2442	Ant2	13.21	0.36	13.57	0.02275	30	Pass
n40 MIMO	2442	Ant3	11.71	0.36	12.07	0.01611	30	Pass



n40 MIMO	2442	Ant4	11.07	0.36	11.43	0.0139	30	Pass
n40 MIMO	2442	Sum	NaN	NaN	18.62	0.07276	26.91	Pass
n40 MIMO	2462	Ant1	12.72	0.36	13.08	0.02032	30	Pass
n40 MIMO	2462	Ant2	13.49	0.36	13.85	0.02427	30	Pass
n40 MIMO	2462	Ant3	12.23	0.36	12.59	0.01816	30	Pass
n40 MIMO	2462	Ant4	11.57	0.36	11.93	0.0156	30	Pass
n40 MIMO	2462	Sum	NaN	NaN	18.94	0.07834	26.91	Pass
ax20 SISO	2412	Ant1	21.17	0.71	21.88	0.15417	30	Pass
ax20 SISO	2442	Ant1	21.86	0.69	22.55	0.17989	30	Pass
ax20 SISO	2472	Ant1	21.73	0.72	22.45	0.17579	30	Pass
ax20 SISO	2412	Ant2	21.03	0.71	21.74	0.14928	30	Pass
ax20 SISO	2442	Ant2	21.49	0.7	22.19	0.16558	30	Pass
ax20 SISO	2472	Ant2	21.6	0.7	22.3	0.16982	30	Pass
ax20 SISO	2412	Ant3	19.96	0.7	20.66	0.11641	30	Pass
ax20 SISO	2442	Ant3	20.93	0.71	21.64	0.14588	30	Pass
ax20 SISO	2472	Ant3	21.42	0.71	22.13	0.16331	30	Pass
ax20 SISO	2412	Ant4	20.98	0.7	21.68	0.14723	30	Pass
ax20 SISO	2442	Ant4	21.73	0.71	22.44	0.17539	30	Pass
ax20 SISO	2472	Ant4	21.74	0.71	22.45	0.17579	30	Pass
ax20 MIMO	2412	Ant1	6.1	0.65	6.75	0.00473	30	Pass
ax20 MIMO	2412	Ant2	10.86	0.65	11.51	0.01416	30	Pass
ax20 MIMO	2412	Ant3	10.21	0.65	10.86	0.01219	30	Pass
ax20 MIMO	2412	Ant4	9.93	0.65	10.58	0.01143	30	Pass
ax20 MIMO	2412	Sum	NaN	NaN	16.28	0.04251	26.91	Pass
ax20 MIMO	2442	Ant1	12.2	0.65	12.85	0.01928	30	Pass
ax20 MIMO	2442	Ant2	12.67	0.65	13.32	0.02148	30	Pass
ax20 MIMO	2442	Ant3	11.36	0.65	12.01	0.01589	30	Pass
ax20 MIMO	2442	Ant4	10.84	0.65	11.49	0.01409	30	Pass
ax20 MIMO	2442	Sum	NaN	NaN	18.5	0.07073	26.91	Pass
ax20 MIMO	2472	Ant1	11.42	0.65	12.07	0.01611	30	Pass
ax20 MIMO	2472	Ant2	12.7	0.65	13.35	0.02163	30	Pass
ax20 MIMO	2472	Ant3	11.92	0.65	12.57	0.01807	30	Pass
ax20 MIMO	2472	Ant4	11.19	0.65	11.84	0.01528	30	Pass
ax20 MIMO	2472	Sum	NaN	NaN	18.52	0.07108	26.91	Pass
ax40 SISO	2422	Ant1	21.21	0.69	21.9	0.15488	30	Pass
ax40 SISO	2442	Ant1	21.67	0.69	22.36	0.17219	30	Pass
ax40 SISO	2462	Ant1	21.82	0.71	22.53	0.17906	30	Pass
ax40 SISO	2422	Ant2	20.75	0.42	21.17	0.13092	30	Pass



ax40 SISO	2442	Ant2	21.07	0.42	21.49	0.14093	30	Pass
ax40 SISO	2462	Ant2	21.49	0.42	21.91	0.15524	30	Pass
ax40 SISO	2422	Ant3	20.53	0.72	21.25	0.13335	30	Pass
ax40 SISO	2442	Ant3	21.02	0.72	21.74	0.14928	30	Pass
ax40 SISO	2462	Ant3	21.41	0.72	22.13	0.16331	30	Pass
ax40 SISO	2422	Ant4	20.93	0.71	21.64	0.14588	30	Pass
ax40 SISO	2442	Ant4	21.24	0.71	21.95	0.15668	30	Pass
ax40 SISO	2462	Ant4	21.16	0.72	21.88	0.15417	30	Pass
ax40 MIMO	2422	Ant1	11.75	0.65	12.4	0.01738	30	Pass
ax40 MIMO	2422	Ant2	12.53	0.65	13.18	0.0208	30	Pass
ax40 MIMO	2422	Ant3	10.9	0.65	11.55	0.01429	30	Pass
ax40 MIMO	2422	Ant4	10.54	0.65	11.19	0.01315	30	Pass
ax40 MIMO	2422	Sum	NaN	NaN	18.17	0.06562	26.91	Pass
ax40 MIMO	2442	Ant1	12.31	0.65	12.96	0.01977	30	Pass
ax40 MIMO	2442	Ant2	12.9	0.65	13.55	0.02265	30	Pass
ax40 MIMO	2442	Ant3	11.36	0.65	12.01	0.01589	30	Pass
ax40 MIMO	2442	Ant4	10.89	0.65	11.54	0.01426	30	Pass
ax40 MIMO	2442	Sum	NaN	NaN	18.61	0.07256	26.91	Pass
ax40 MIMO	2462	Ant1	12.52	0.67	13.19	0.02084	30	Pass
ax40 MIMO	2462	Ant2	13.36	0.67	14.03	0.02529	30	Pass
ax40 MIMO	2462	Ant3	11.87	0.67	12.54	0.01795	30	Pass
ax40 MIMO	2462	Ant4	11.3	0.67	11.97	0.01574	30	Pass
ax40 MIMO	2462	Sum	NaN	NaN	19.02	0.07983	26.91	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 9.09\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to 30-(9.09-6) = 26.91dBm.

**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b SISO	2412	Ant1	7.104	0.5	Pass
NVNT	b SISO	2442	Ant1	7.542	0.5	Pass
NVNT	b SISO	2472	Ant1	7.528	0.5	Pass
NVNT	b SISO	2412	Ant2	8.069	0.5	Pass
NVNT	b SISO	2442	Ant2	8.043	0.5	Pass
NVNT	b SISO	2472	Ant2	8.046	0.5	Pass
NVNT	b SISO	2412	Ant3	7.584	0.5	Pass
NVNT	b SISO	2442	Ant3	7.083	0.5	Pass
NVNT	b SISO	2472	Ant3	8.026	0.5	Pass
NVNT	b SISO	2412	Ant4	8.552	0.5	Pass
NVNT	b SISO	2442	Ant4	7.58	0.5	Pass
NVNT	b SISO	2472	Ant4	7.574	0.5	Pass
NVNT	g SISO	2412	Ant1	15.107	0.5	Pass
NVNT	g SISO	2442	Ant1	13.158	0.5	Pass
NVNT	g SISO	2472	Ant1	15.097	0.5	Pass
NVNT	g SISO	2412	Ant2	15.042	0.5	Pass
NVNT	g SISO	2442	Ant2	14.382	0.5	Pass
NVNT	g SISO	2472	Ant2	15.003	0.5	Pass
NVNT	g SISO	2412	Ant3	14.691	0.5	Pass
NVNT	g SISO	2442	Ant3	16.027	0.5	Pass
NVNT	g SISO	2472	Ant3	16.263	0.5	Pass
NVNT	g SISO	2412	Ant4	15.419	0.5	Pass
NVNT	g SISO	2442	Ant4	15.048	0.5	Pass
NVNT	g SISO	2472	Ant4	14.68	0.5	Pass
NVNT	n20 SISO	2412	Ant1	15.085	0.5	Pass
NVNT	n20 SISO	2442	Ant1	15.1	0.5	Pass
NVNT	n20 SISO	2472	Ant1	15.052	0.5	Pass
NVNT	n20 SISO	2412	Ant2	14.152	0.5	Pass
NVNT	n20 SISO	2442	Ant2	15.047	0.5	Pass
NVNT	n20 SISO	2472	Ant2	12.293	0.5	Pass
NVNT	n20 SISO	2412	Ant3	15.051	0.5	Pass
NVNT	n20 SISO	2442	Ant3	16.273	0.5	Pass
NVNT	n20 SISO	2472	Ant3	15.03	0.5	Pass
NVNT	n20 SISO	2412	Ant4	15.417	0.5	Pass
NVNT	n20 SISO	2442	Ant4	15.12	0.5	Pass



NVNT	n20 SISO	2472	Ant4	15.083	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	15.443	0.5	Pass
NVNT	n20 MIMO	2412	Ant2	15.702	0.5	Pass
NVNT	n20 MIMO	2412	Ant3	15.014	0.5	Pass
NVNT	n20 MIMO	2412	Ant4	15.064	0.5	Pass
NVNT	n20 MIMO	2442	Ant1	15.059	0.5	Pass
NVNT	n20 MIMO	2442	Ant2	15.69	0.5	Pass
NVNT	n20 MIMO	2442	Ant3	15.116	0.5	Pass
NVNT	n20 MIMO	2442	Ant4	16.009	0.5	Pass
NVNT	n20 MIMO	2472	Ant1	16.096	0.5	Pass
NVNT	n20 MIMO	2472	Ant2	14.99	0.5	Pass
NVNT	n20 MIMO	2472	Ant3	15.033	0.5	Pass
NVNT	n20 MIMO	2472	Ant4	13.187	0.5	Pass
NVNT	n40 SISO	2422	Ant1	33.816	0.5	Pass
NVNT	n40 SISO	2442	Ant1	35.039	0.5	Pass
NVNT	n40 SISO	2462	Ant1	33.863	0.5	Pass
NVNT	n40 SISO	2422	Ant2	33.852	0.5	Pass
NVNT	n40 SISO	2442	Ant2	33.848	0.5	Pass
NVNT	n40 SISO	2462	Ant2	35.101	0.5	Pass
NVNT	n40 SISO	2422	Ant3	35.075	0.5	Pass
NVNT	n40 SISO	2442	Ant3	35.016	0.5	Pass
NVNT	n40 SISO	2462	Ant3	33.809	0.5	Pass
NVNT	n40 SISO	2422	Ant4	35.065	0.5	Pass
NVNT	n40 SISO	2442	Ant4	35.085	0.5	Pass
NVNT	n40 SISO	2462	Ant4	33.86	0.5	Pass
NVNT	n40 MIMO	2422	Ant1	33.886	0.5	Pass
NVNT	n40 MIMO	2422	Ant2	33.85	0.5	Pass
NVNT	n40 MIMO	2422	Ant3	33.816	0.5	Pass
NVNT	n40 MIMO	2422	Ant4	35.007	0.5	Pass
NVNT	n40 MIMO	2442	Ant1	35.03	0.5	Pass
NVNT	n40 MIMO	2442	Ant2	35.055	0.5	Pass
NVNT	n40 MIMO	2442	Ant3	35.07	0.5	Pass
NVNT	n40 MIMO	2442	Ant4	35.047	0.5	Pass
NVNT	n40 MIMO	2462	Ant1	35.044	0.5	Pass
NVNT	n40 MIMO	2462	Ant2	34.952	0.5	Pass
NVNT	n40 MIMO	2462	Ant3	35.075	0.5	Pass
NVNT	n40 MIMO	2462	Ant4	35.072	0.5	Pass
NVNT	ax20 SISO	2412	Ant1	15.087	0.5	Pass



NVNT	ax20 SISO	2442	Ant1	14.983	0.5	Pass
NVNT	ax20 SISO	2472	Ant1	15.621	0.5	Pass
NVNT	ax20 SISO	2412	Ant2	15.088	0.5	Pass
NVNT	ax20 SISO	2442	Ant2	15.149	0.5	Pass
NVNT	ax20 SISO	2472	Ant2	16.489	0.5	Pass
NVNT	ax20 SISO	2412	Ant3	15.184	0.5	Pass
NVNT	ax20 SISO	2442	Ant3	15.099	0.5	Pass
NVNT	ax20 SISO	2472	Ant3	15.461	0.5	Pass
NVNT	ax20 SISO	2412	Ant4	15.116	0.5	Pass
NVNT	ax20 SISO	2442	Ant4	15.084	0.5	Pass
NVNT	ax20 SISO	2472	Ant4	15.065	0.5	Pass
NVNT	ax20 MIMO	2412	Ant1	15.078	0.5	Pass
NVNT	ax20 MIMO	2412	Ant2	17.838	0.5	Pass
NVNT	ax20 MIMO	2412	Ant3	14.901	0.5	Pass
NVNT	ax20 MIMO	2412	Ant4	15.326	0.5	Pass
NVNT	ax20 MIMO	2442	Ant1	15.295	0.5	Pass
NVNT	ax20 MIMO	2442	Ant2	15.292	0.5	Pass
NVNT	ax20 MIMO	2442	Ant3	15.064	0.5	Pass
NVNT	ax20 MIMO	2442	Ant4	15.593	0.5	Pass
NVNT	ax20 MIMO	2472	Ant1	15.083	0.5	Pass
NVNT	ax20 MIMO	2472	Ant2	15.584	0.5	Pass
NVNT	ax20 MIMO	2472	Ant3	16.067	0.5	Pass
NVNT	ax20 MIMO	2472	Ant4	15.088	0.5	Pass
NVNT	ax40 SISO	2422	Ant1	35.095	0.5	Pass
NVNT	ax40 SISO	2442	Ant1	35.07	0.5	Pass
NVNT	ax40 SISO	2462	Ant1	35.106	0.5	Pass
NVNT	ax40 SISO	2422	Ant2	35.074	0.5	Pass
NVNT	ax40 SISO	2442	Ant2	32.875	0.5	Pass
NVNT	ax40 SISO	2462	Ant2	35.058	0.5	Pass
NVNT	ax40 SISO	2422	Ant3	35.097	0.5	Pass
NVNT	ax40 SISO	2442	Ant3	33.868	0.5	Pass
NVNT	ax40 SISO	2462	Ant3	33.847	0.5	Pass
NVNT	ax40 SISO	2422	Ant4	35.077	0.5	Pass
NVNT	ax40 SISO	2442	Ant4	35.021	0.5	Pass
NVNT	ax40 SISO	2462	Ant4	33.868	0.5	Pass
NVNT	ax40 MIMO	2422	Ant1	35.027	0.5	Pass
NVNT	ax40 MIMO	2422	Ant2	35.034	0.5	Pass
NVNT	ax40 MIMO	2422	Ant3	35.07	0.5	Pass



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NVNT	ax40 MIMO	2422	Ant4	35.023	0.5	Pass
NVNT	ax40 MIMO	2442	Ant1	35.043	0.5	Pass
NVNT	ax40 MIMO	2442	Ant2	35.034	0.5	Pass
NVNT	ax40 MIMO	2442	Ant3	35.068	0.5	Pass
NVNT	ax40 MIMO	2442	Ant4	35.068	0.5	Pass
NVNT	ax40 MIMO	2462	Ant1	35.558	0.5	Pass
NVNT	ax40 MIMO	2462	Ant2	35.101	0.5	Pass
NVNT	ax40 MIMO	2462	Ant3	35.095	0.5	Pass
NVNT	ax40 MIMO	2462	Ant4	35.085	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1 SISO



-6dB Bandwidth NVNT b 2442MHz Ant1 SISO



-6dB Bandwidth NVNT b 2472MHz Ant1 SISO



-6dB Bandwidth NVNT b 2412MHz Ant2 SISO

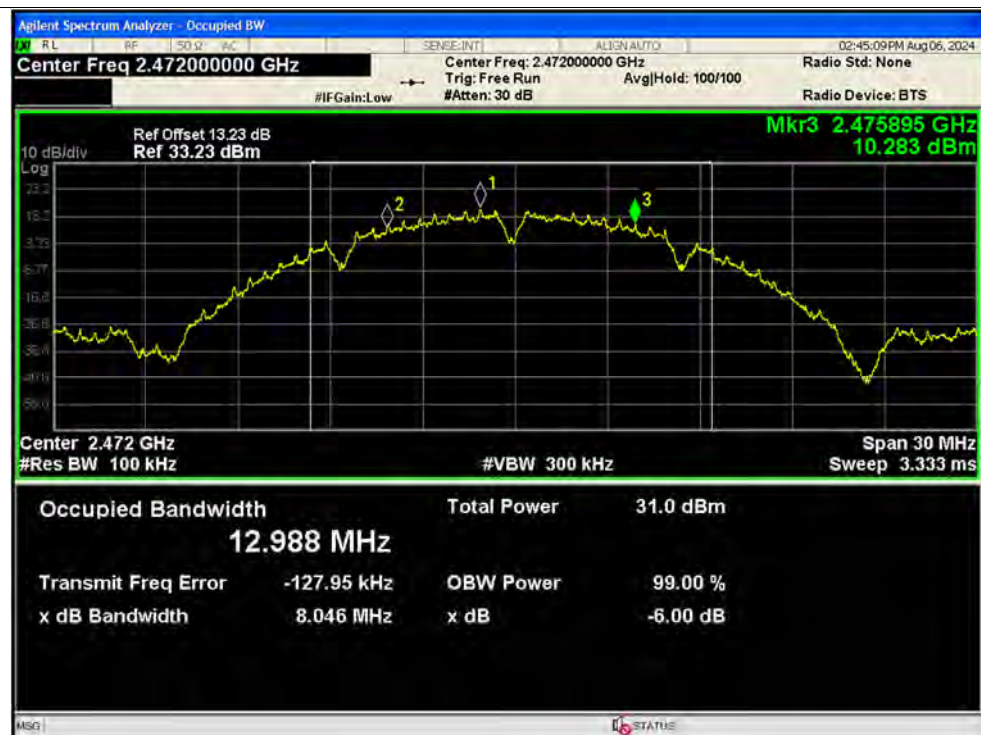




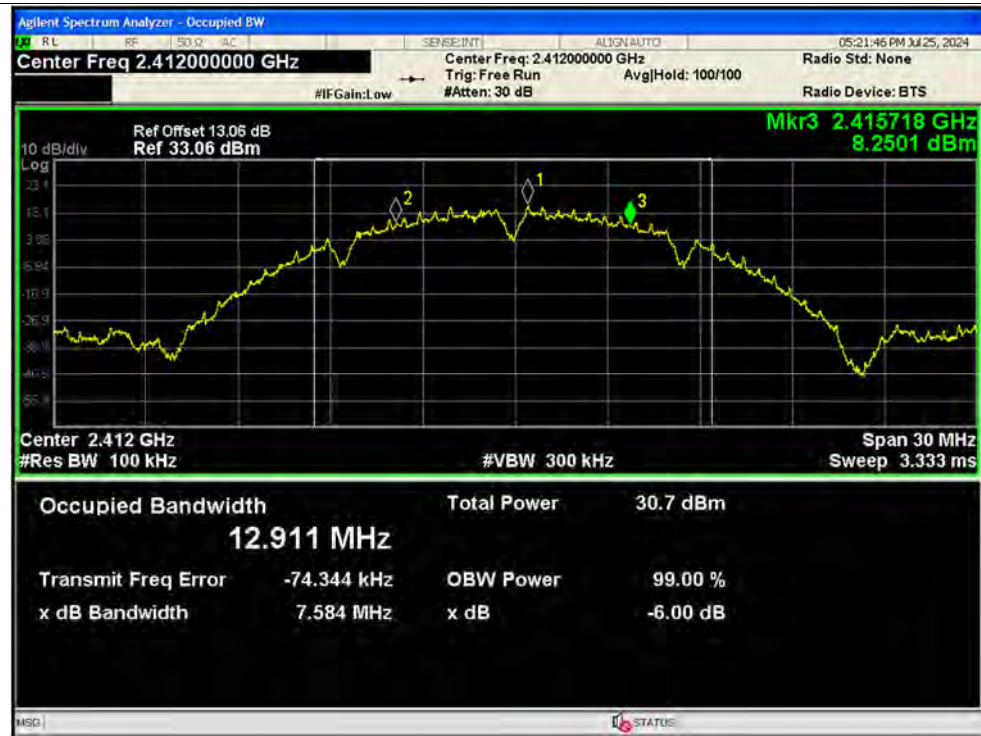
-6dB Bandwidth NVNT b 2442MHz Ant2 SISO



-6dB Bandwidth NVNT b 2472MHz Ant2 SISO



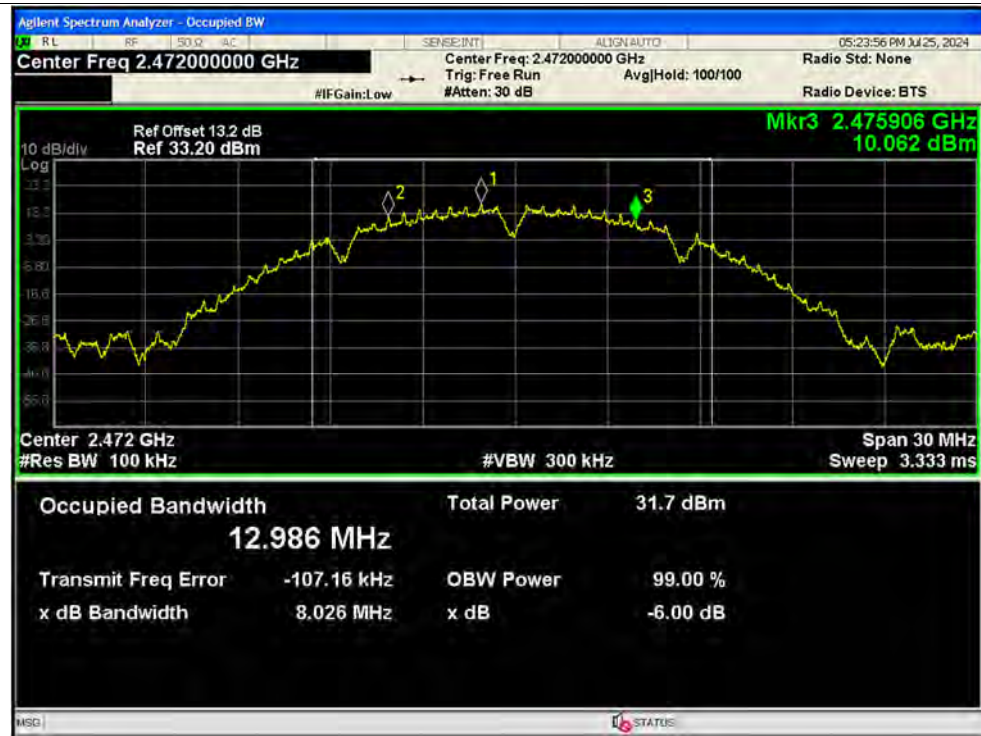
-6dB Bandwidth NVNT b 2412MHz Ant3 SISO



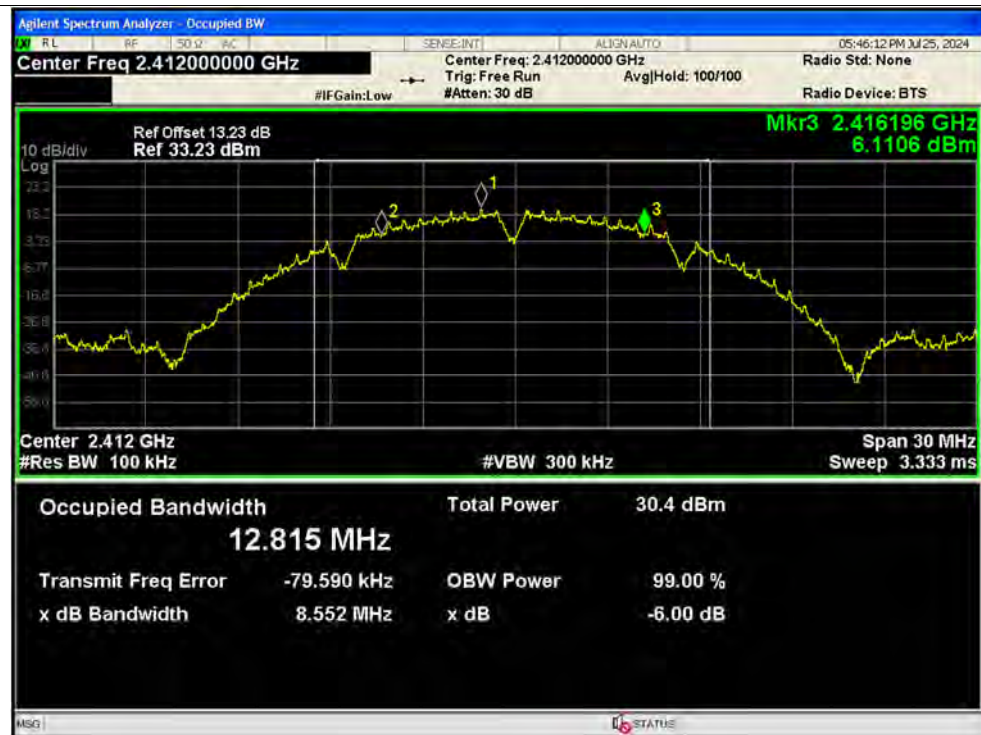
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-6dB Bandwidth NVNT b 2472MHz Ant3 SISO



-6dB Bandwidth NVNT b 2412MHz Ant4 SISO



-6dB Bandwidth NVNT b 2442MHz Ant4 SISO



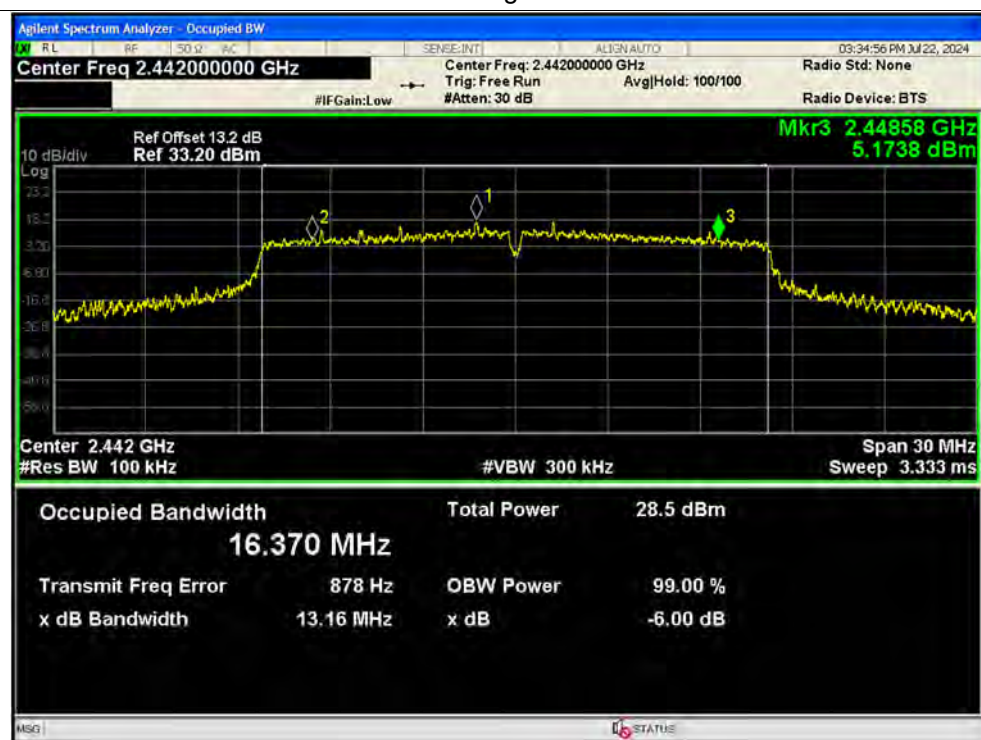
-6dB Bandwidth NVNT b 2472MHz Ant4 SISO



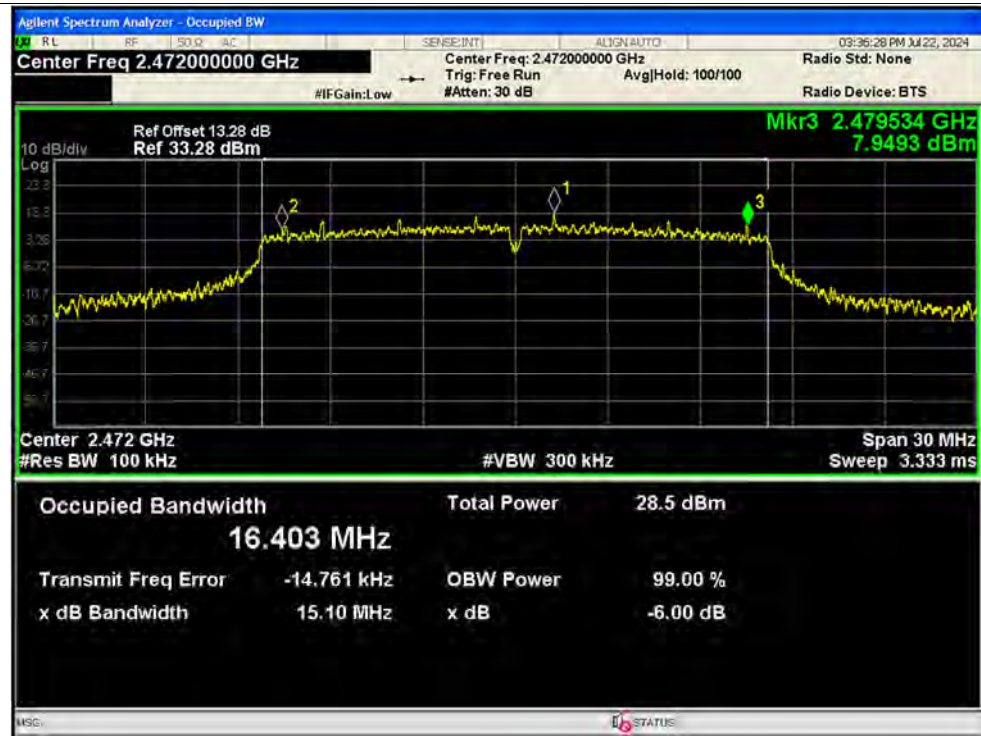
-6dB Bandwidth NVNT g 2412MHz Ant1 SISO



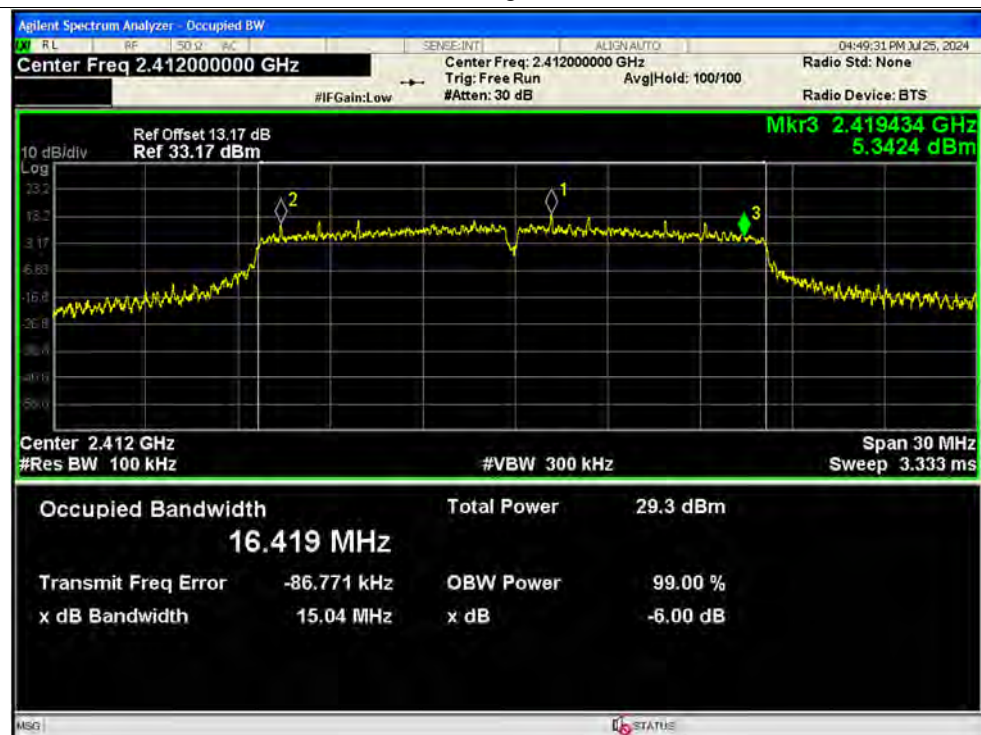
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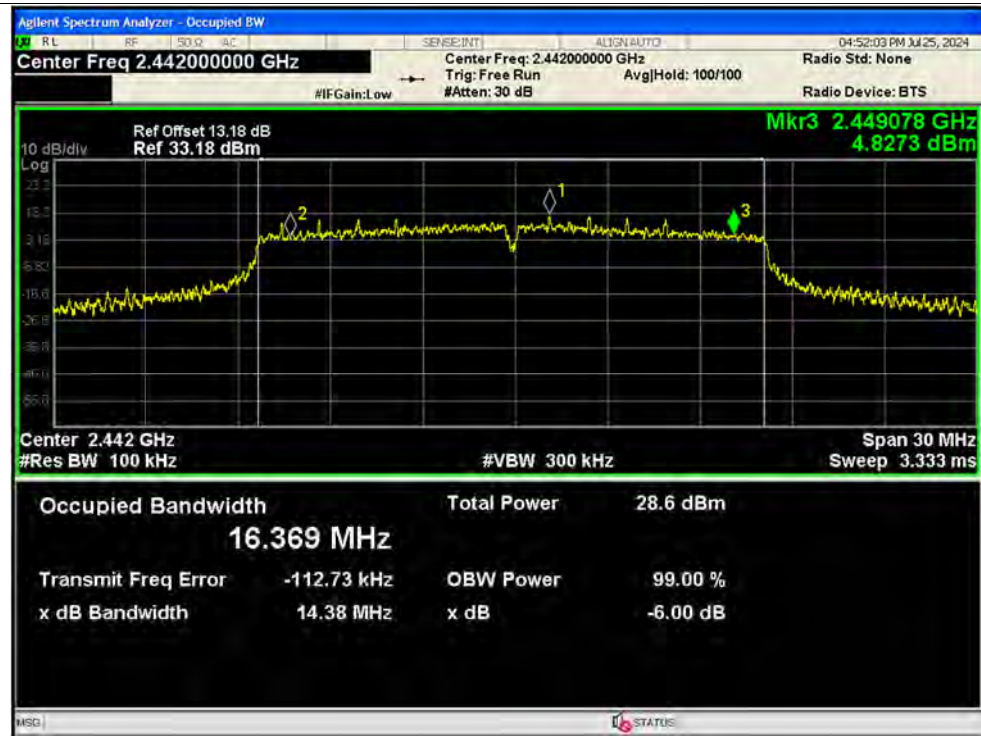
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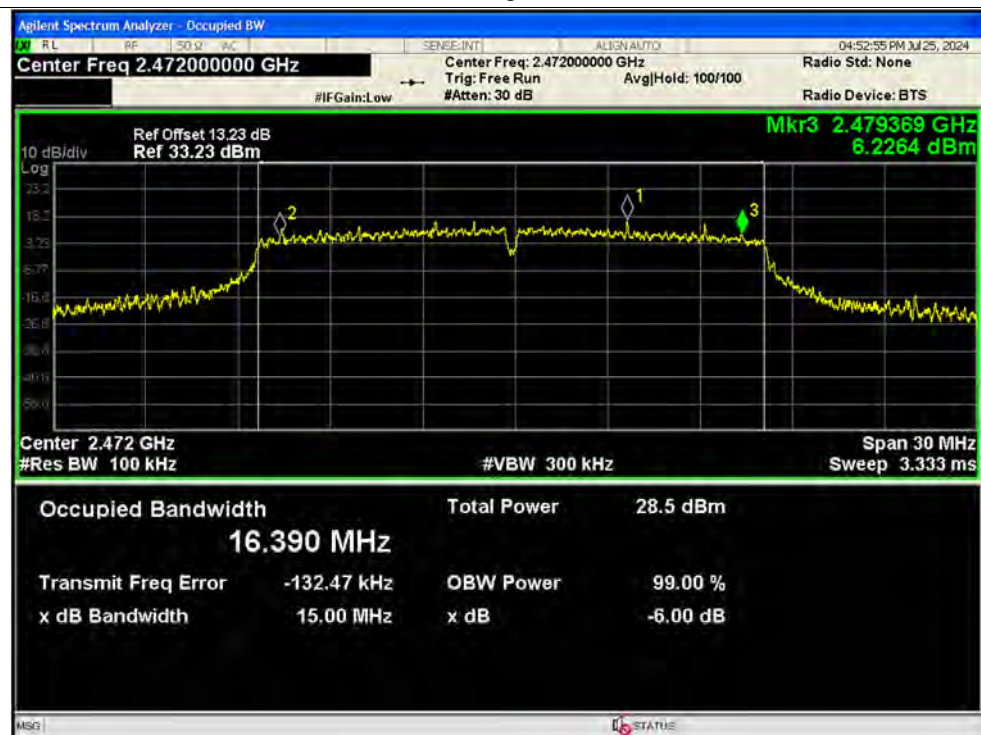
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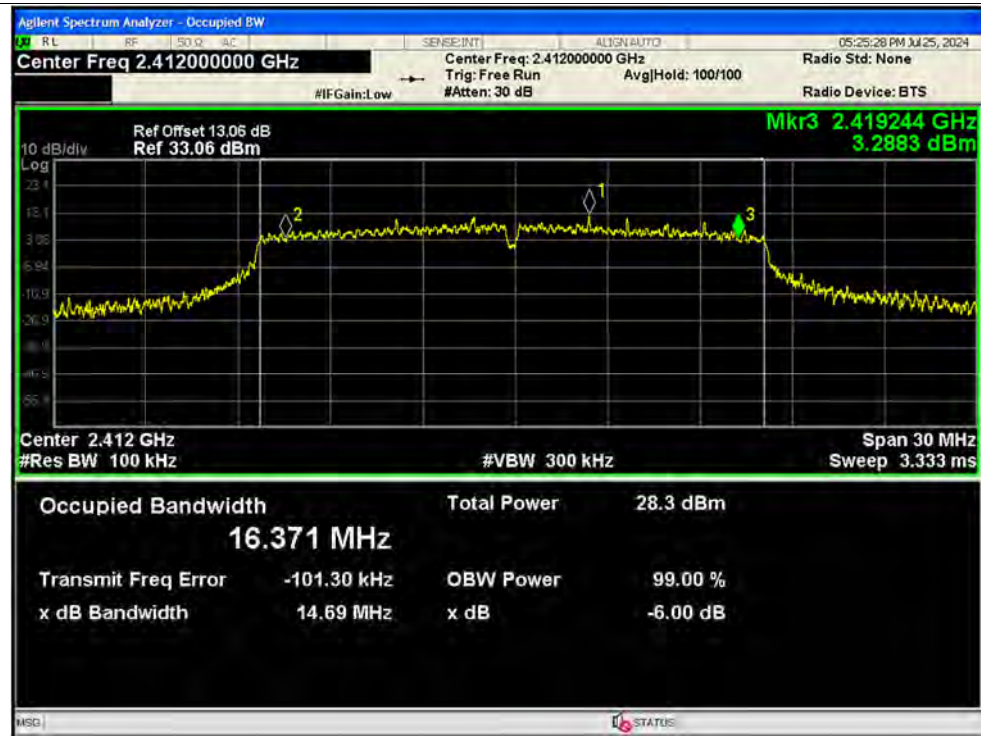
-6dB Bandwidth NVNT g 2442MHz Ant2 SISO



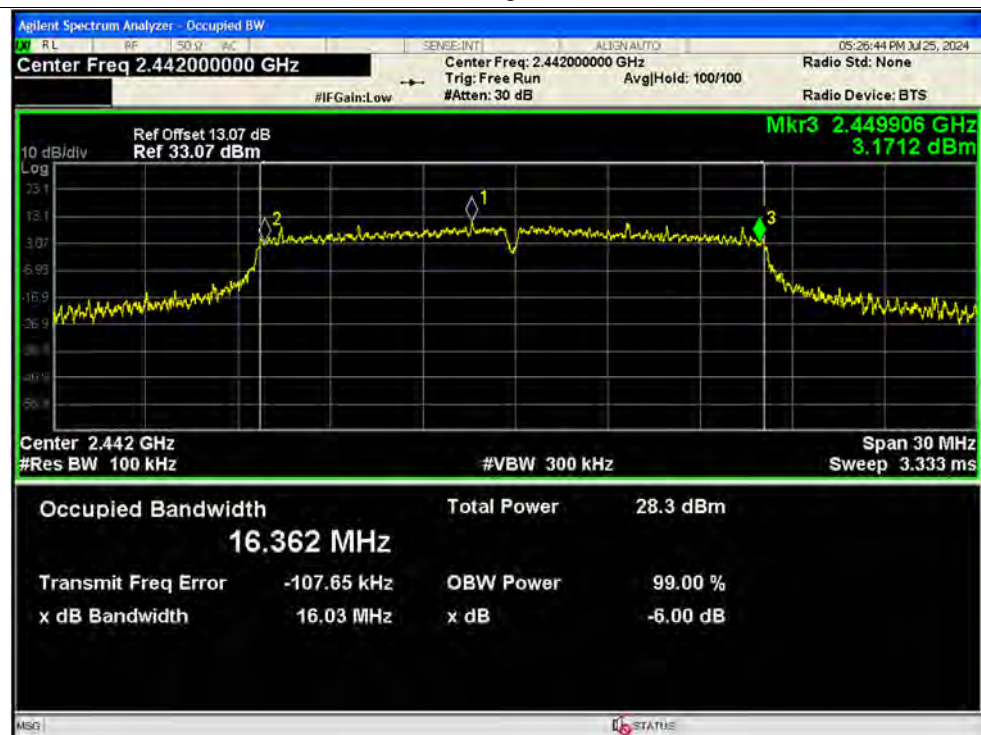
-6dB Bandwidth NVNT g 2472MHz Ant2 SISO



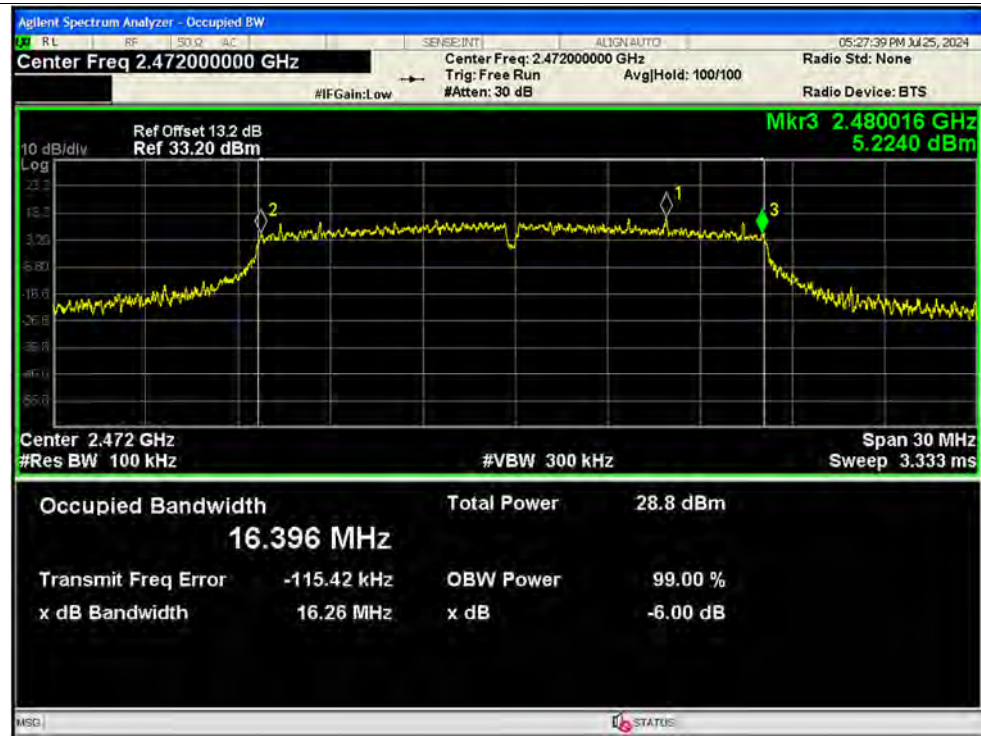
-6dB Bandwidth NVNT g 2412MHz Ant3 SISO



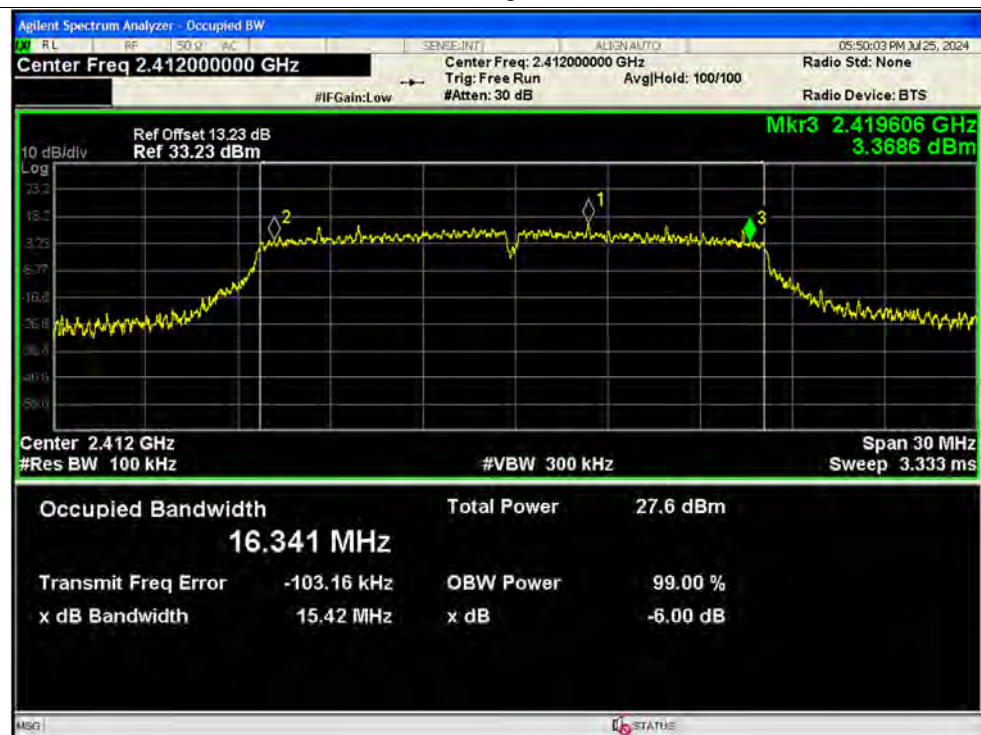
-6dB Bandwidth NVNT g 2442MHz Ant3 SISO



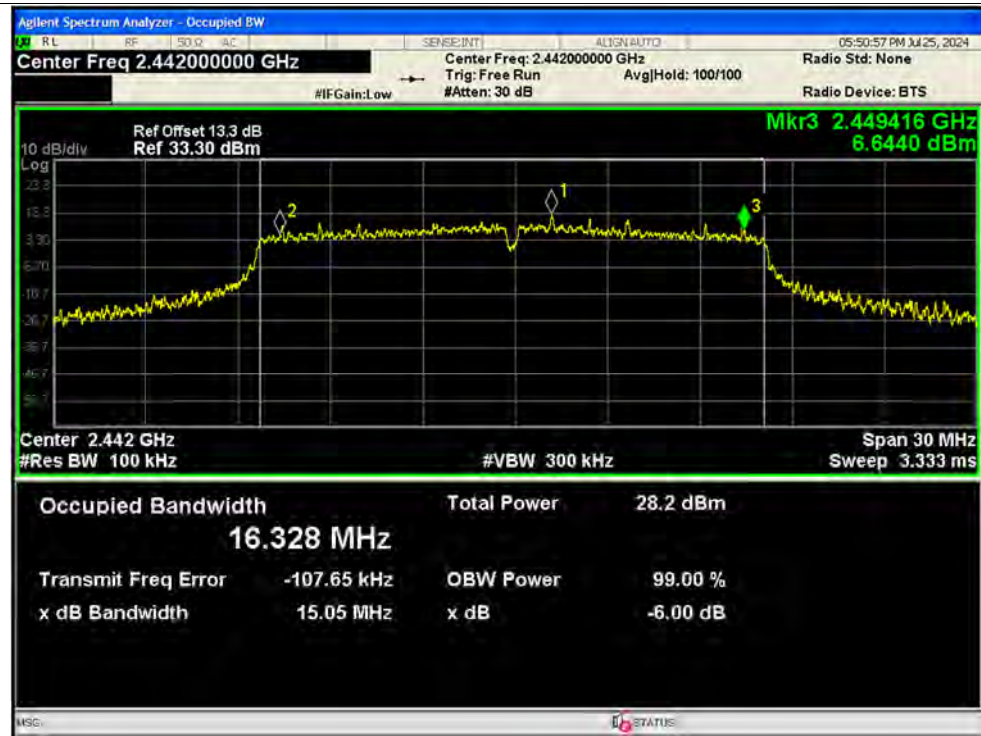
-6dB Bandwidth NVNT g 2472MHz Ant3 SISO



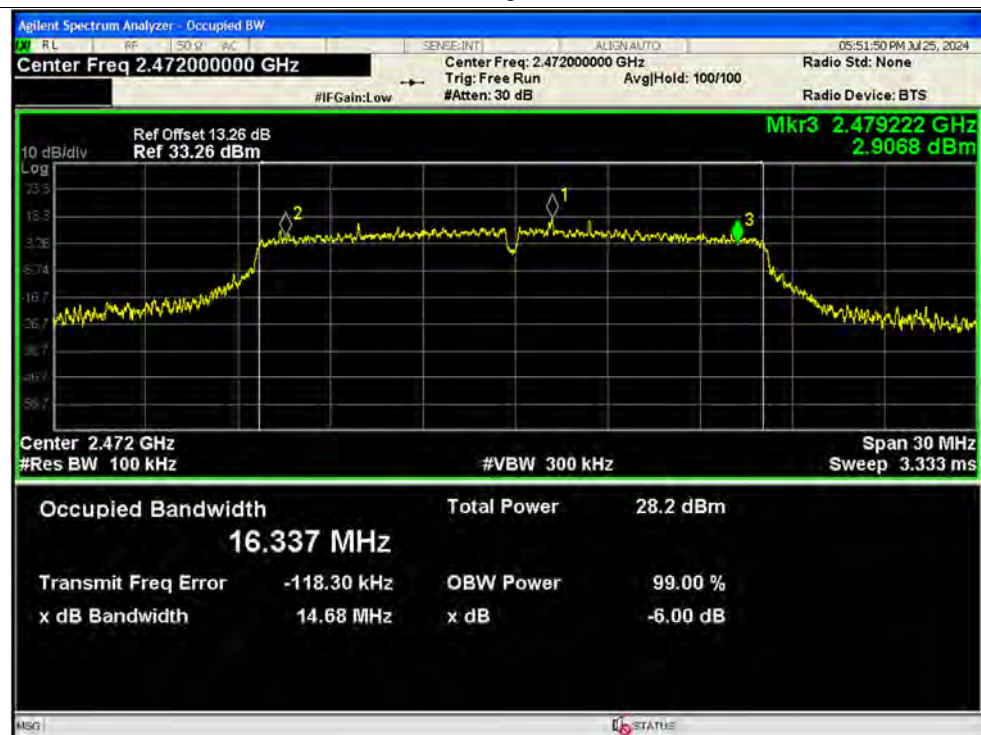
-6dB Bandwidth NVNT g 2412MHz Ant4 SISO



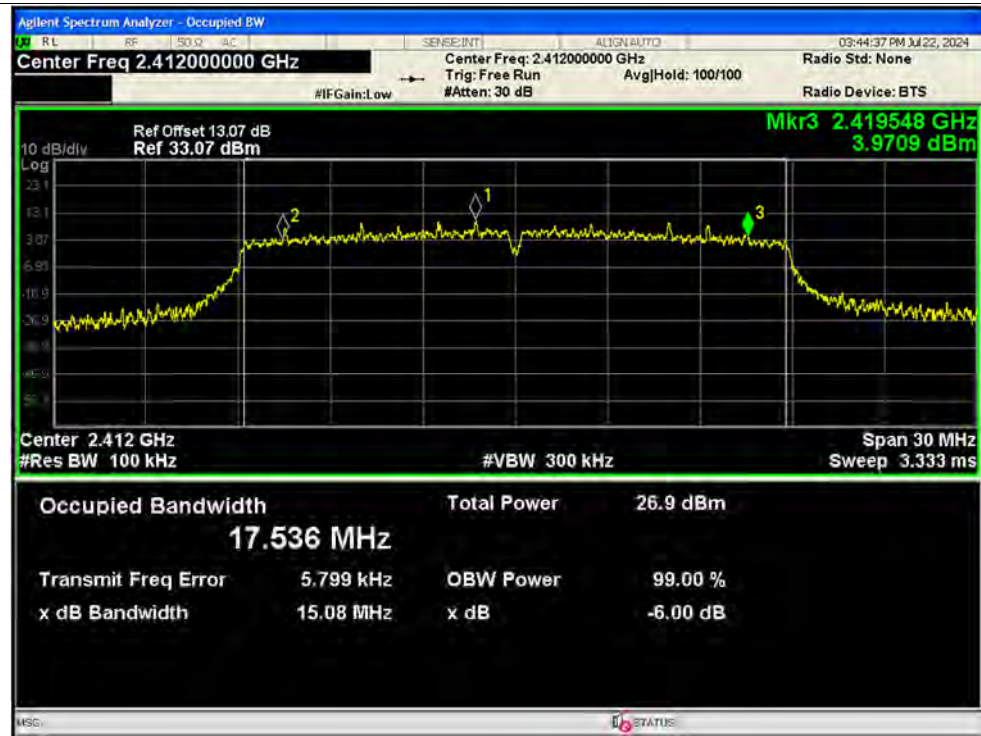
-6dB Bandwidth NVNT g 2442MHz Ant4 SISO



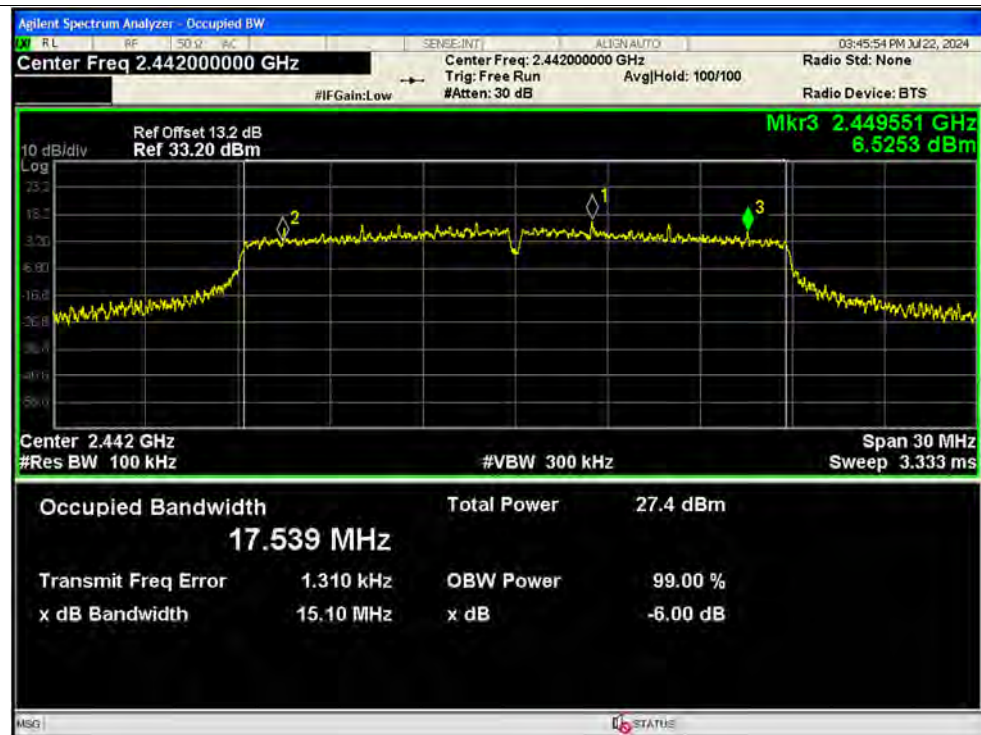
-6dB Bandwidth NVNT g 2472MHz Ant4 SISO



-6dB Bandwidth NVNT n20 2412MHz Ant1 SISO

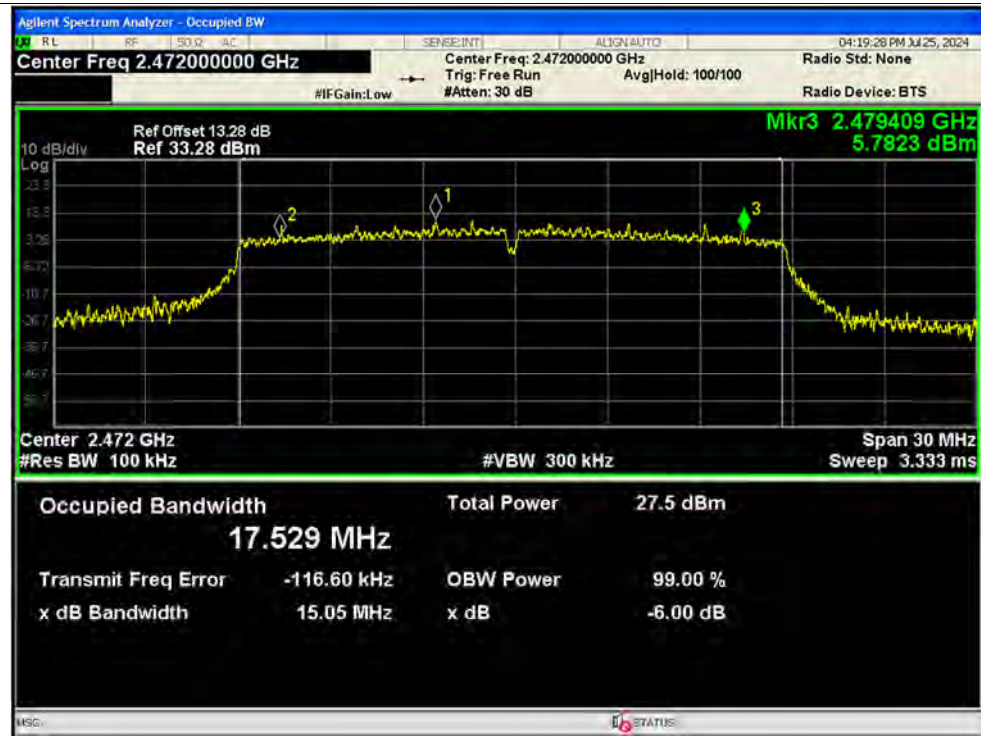


-6dB Bandwidth NVNT n20 2442MHz Ant1 SISO

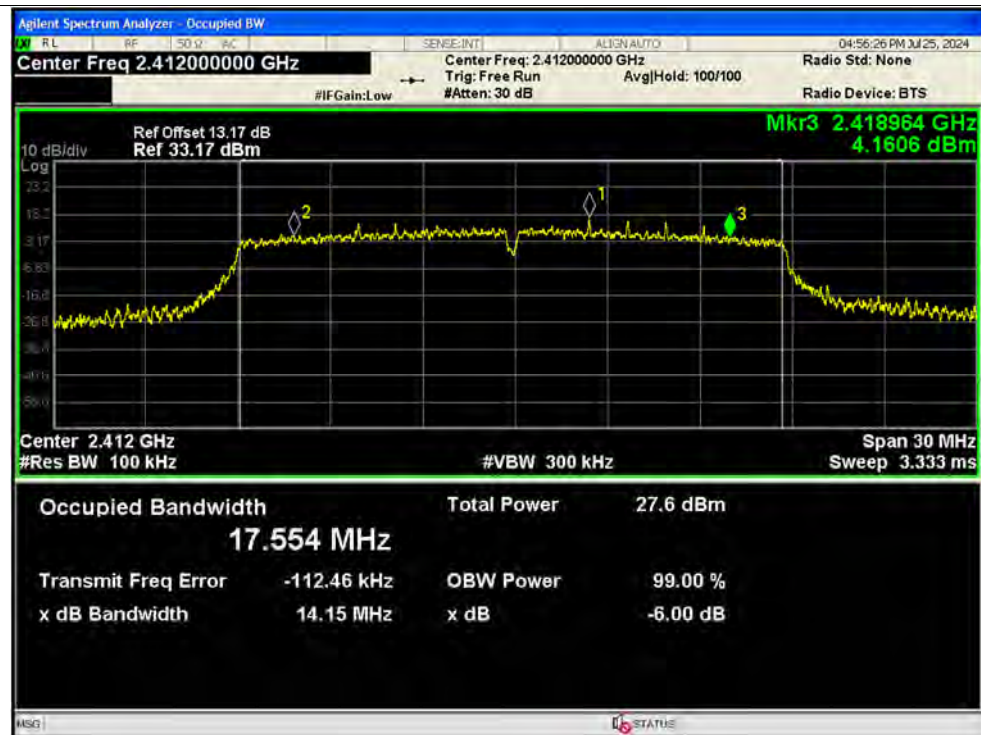




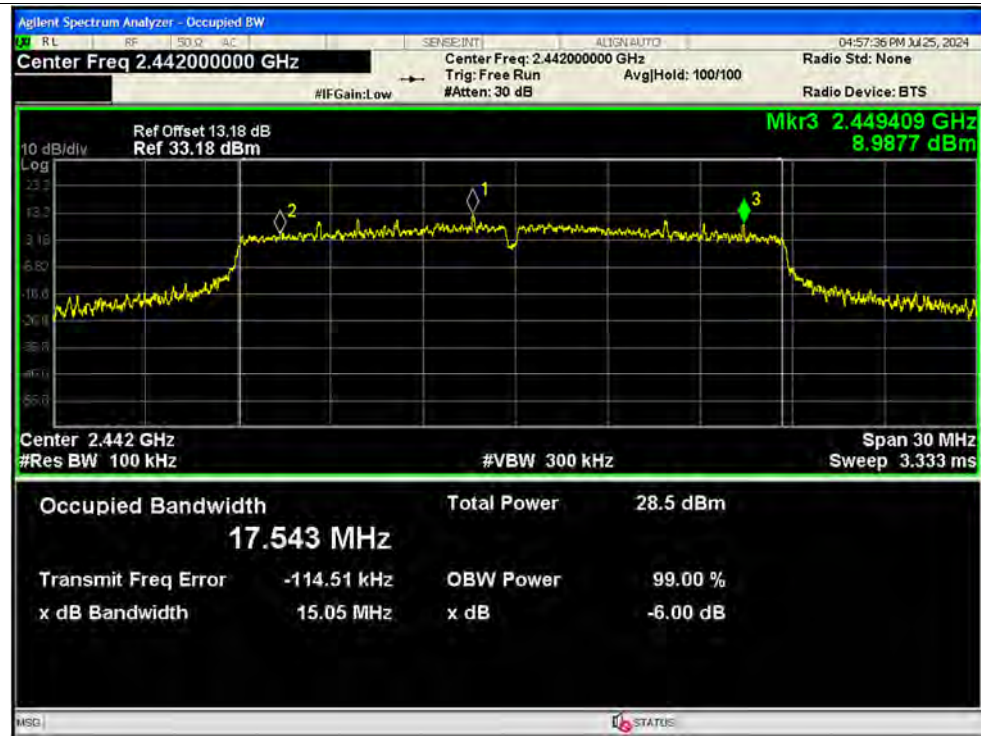
-6dB Bandwidth NVNT n20 2472MHz Ant1 SISO



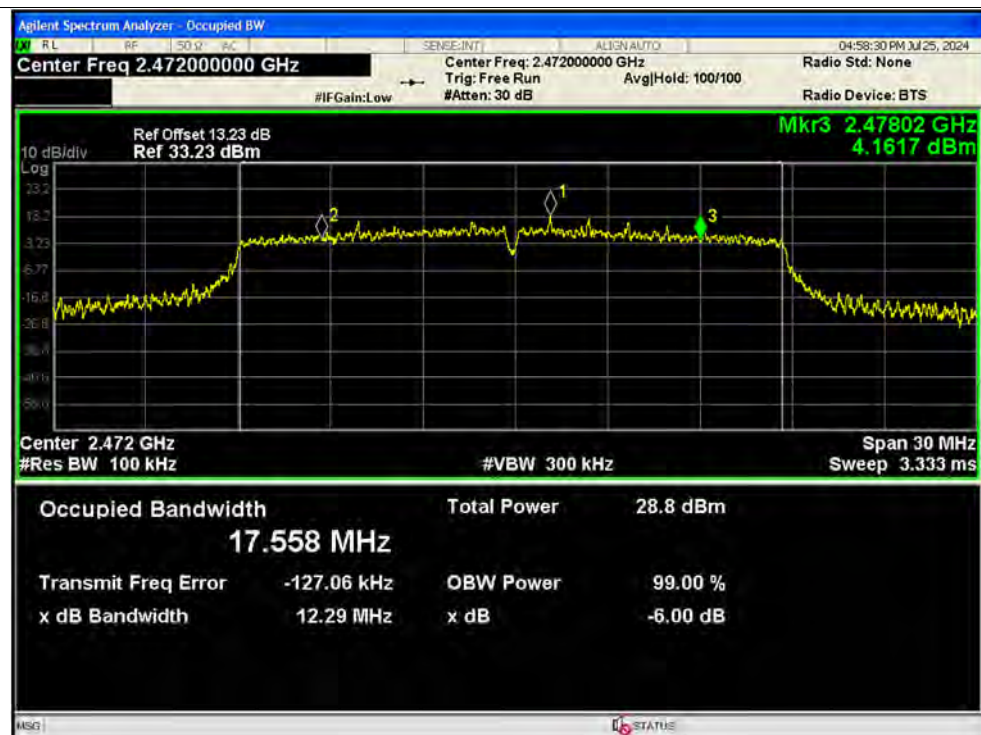
-6dB Bandwidth NVNT n20 2412MHz Ant2 SISO



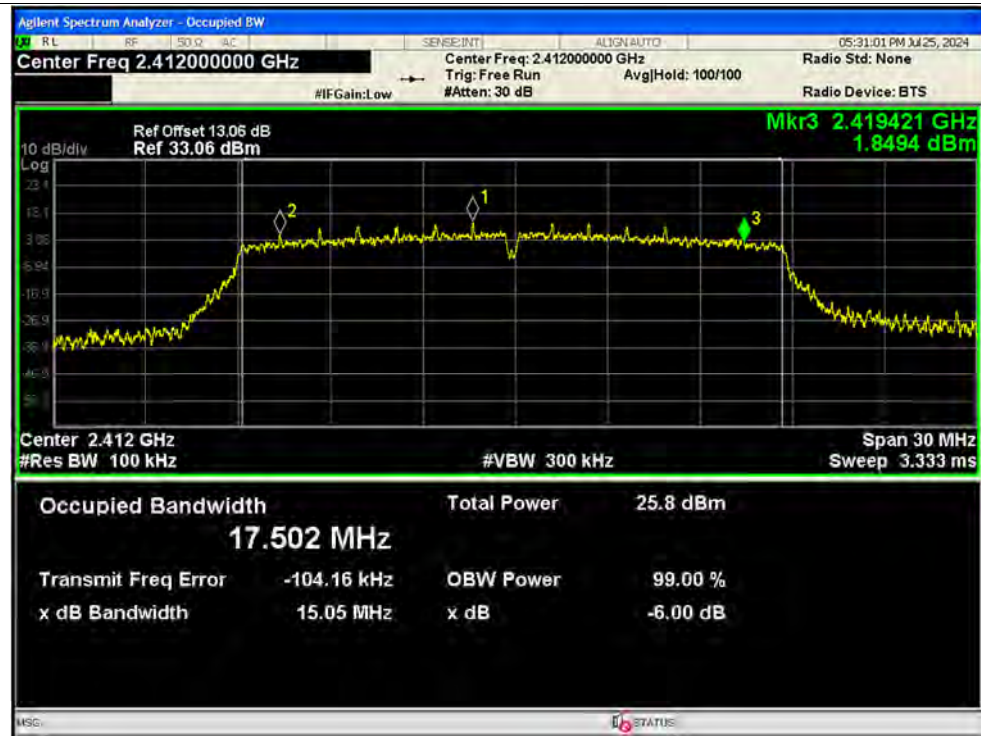
-6dB Bandwidth NVNT n20 2442MHz Ant2 SISO



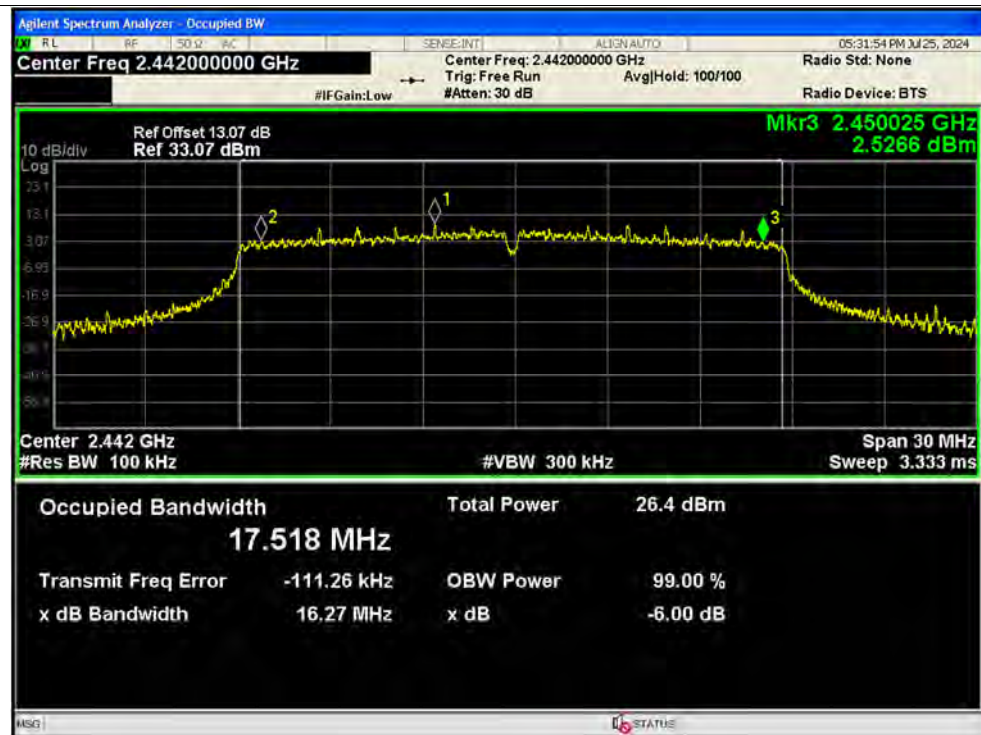
-6dB Bandwidth NVNT n20 2472MHz Ant2 SISO



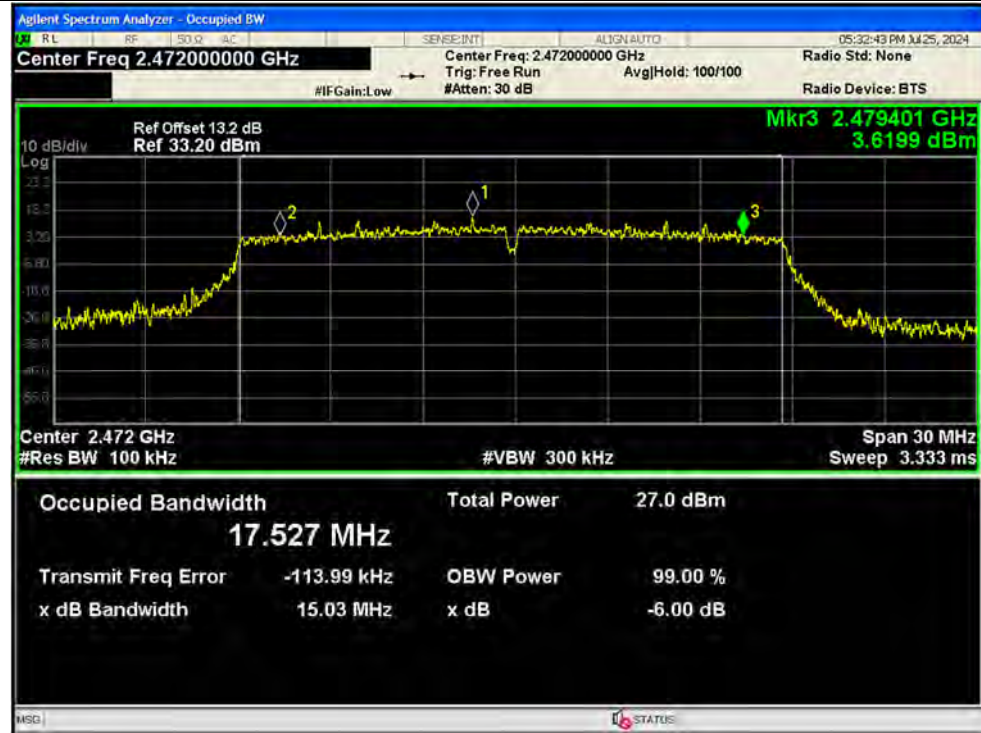
-6dB Bandwidth NVNT n20 2412MHz Ant3 SISO



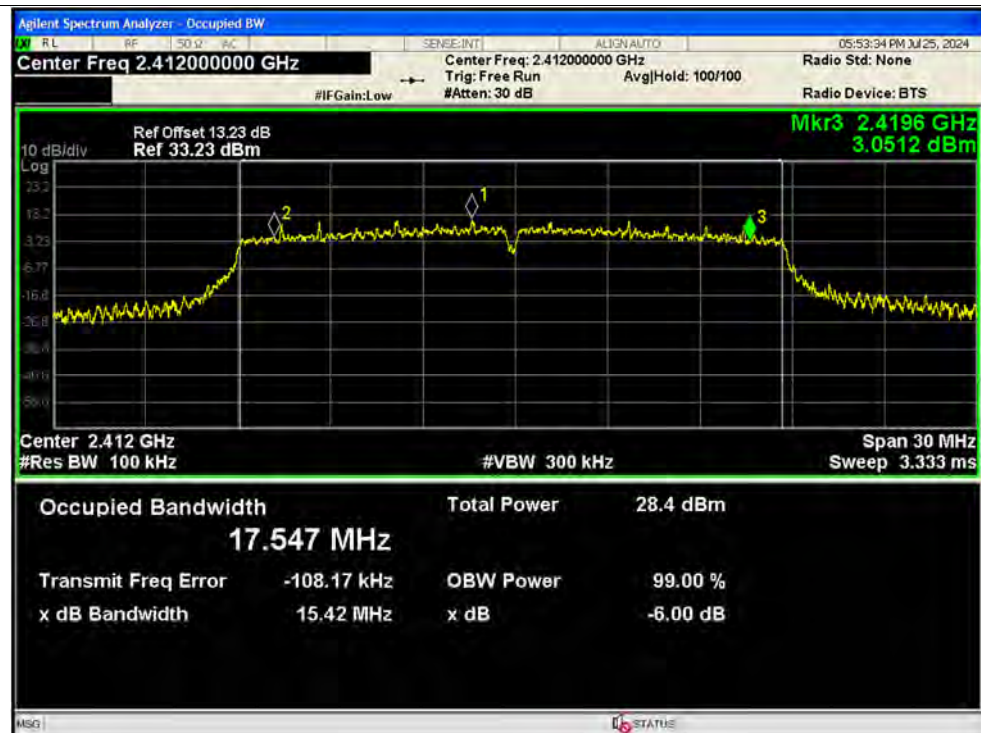
-6dB Bandwidth NVNT n20 2442MHz Ant3 SISO



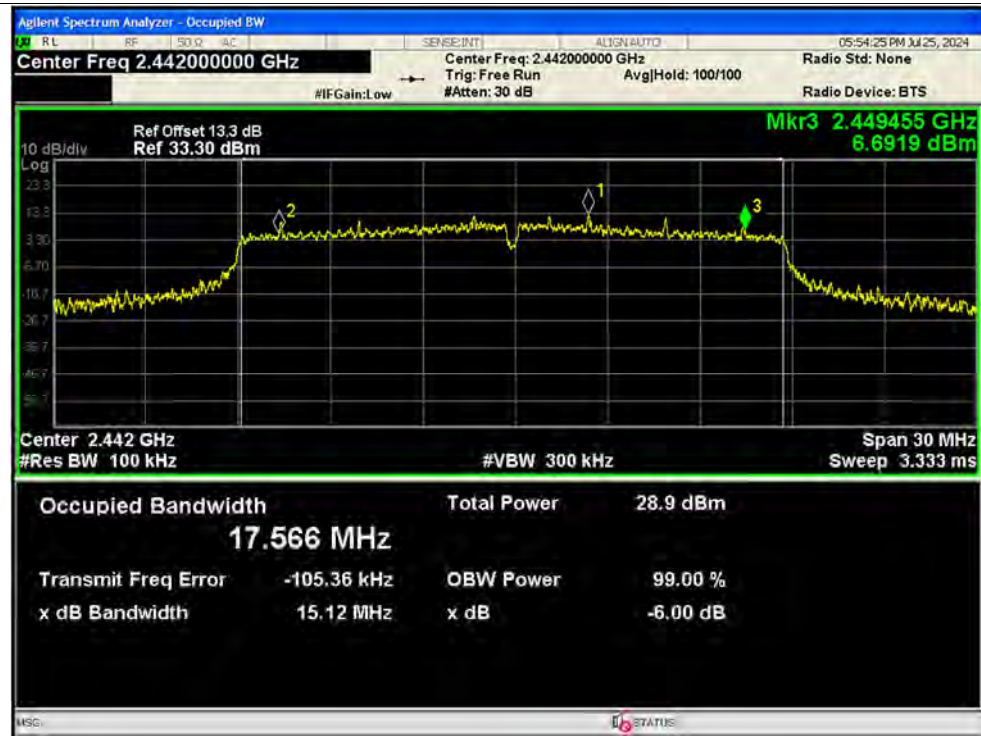
-6dB Bandwidth NVNT n20 2472MHz Ant3 SISO



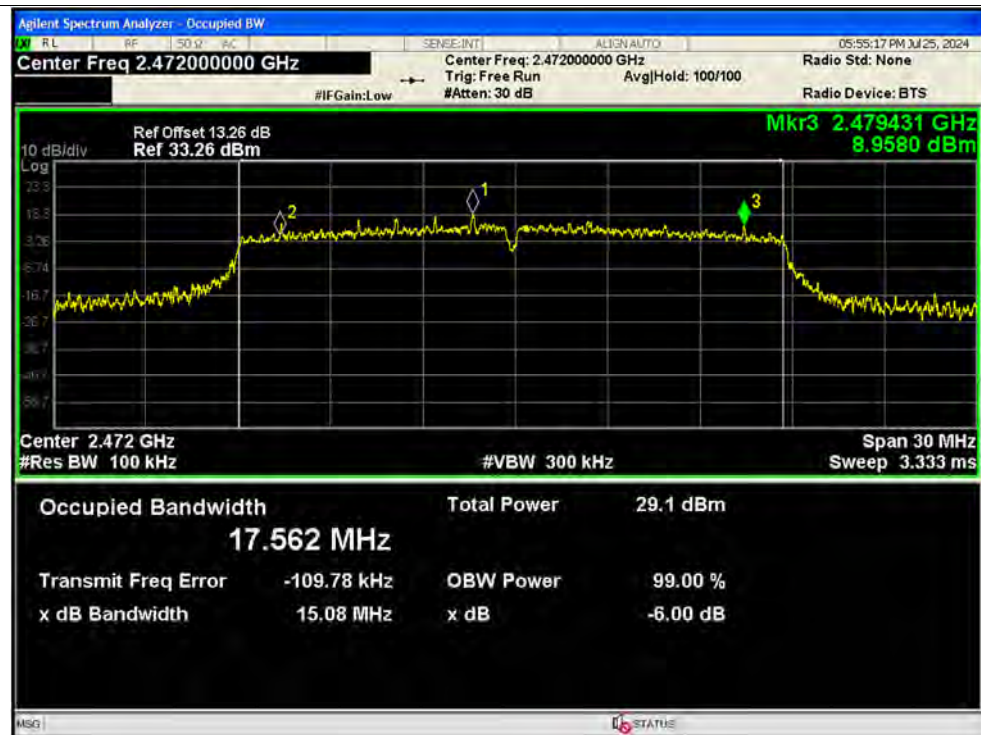
-6dB Bandwidth NVNT n20 2412MHz Ant4 SISO



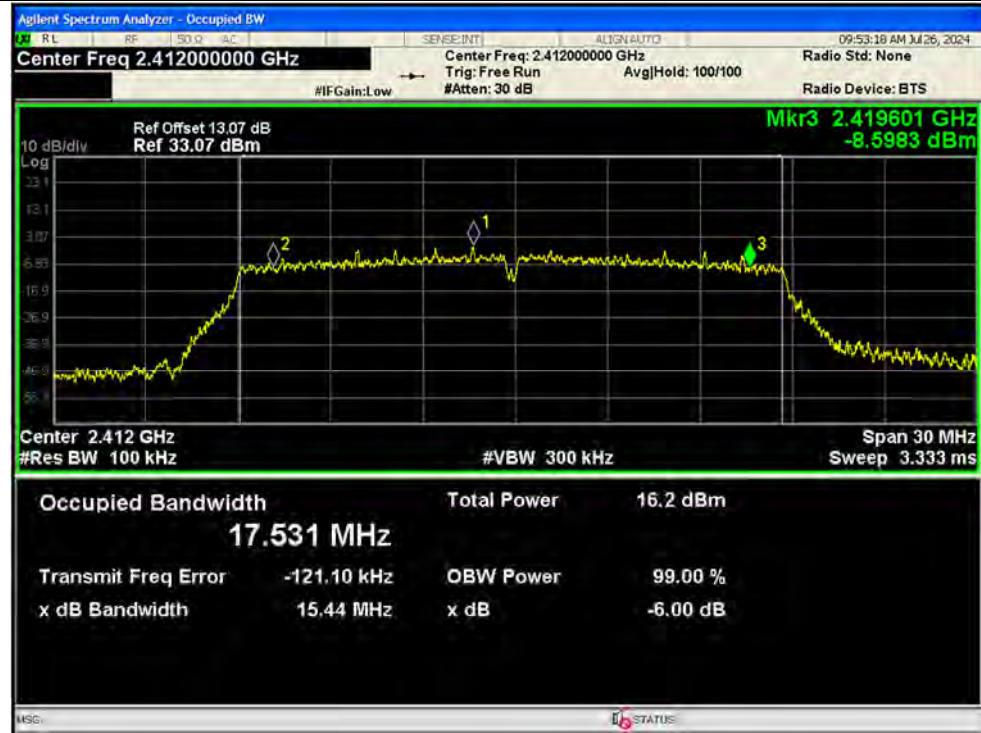
-6dB Bandwidth NVNT n20 2442MHz Ant4 SISO



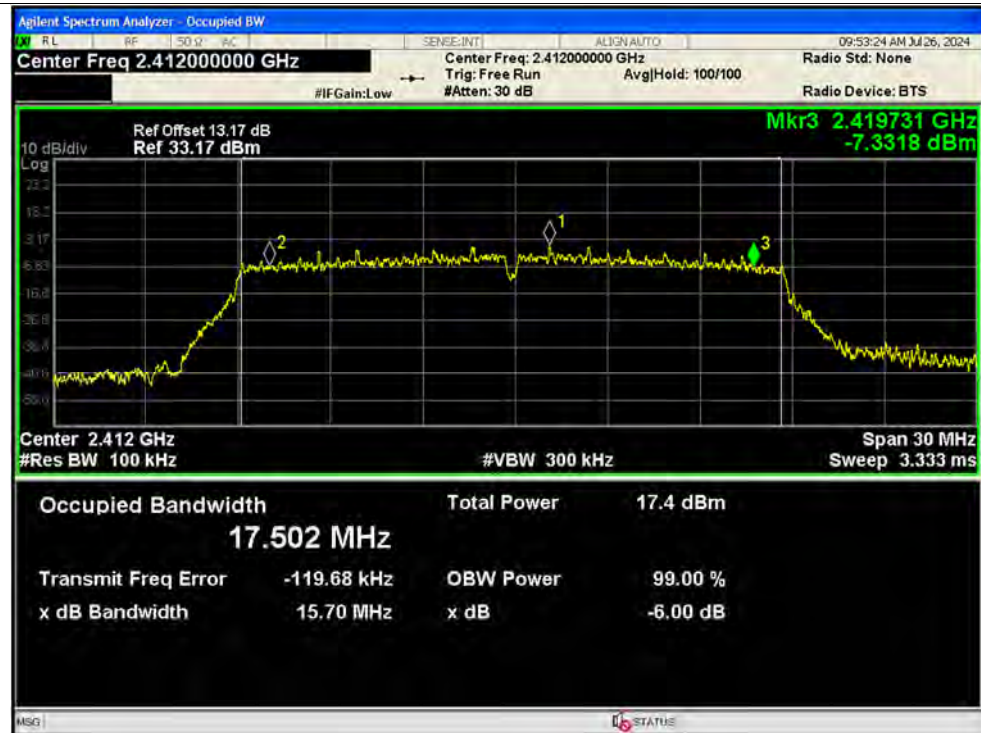
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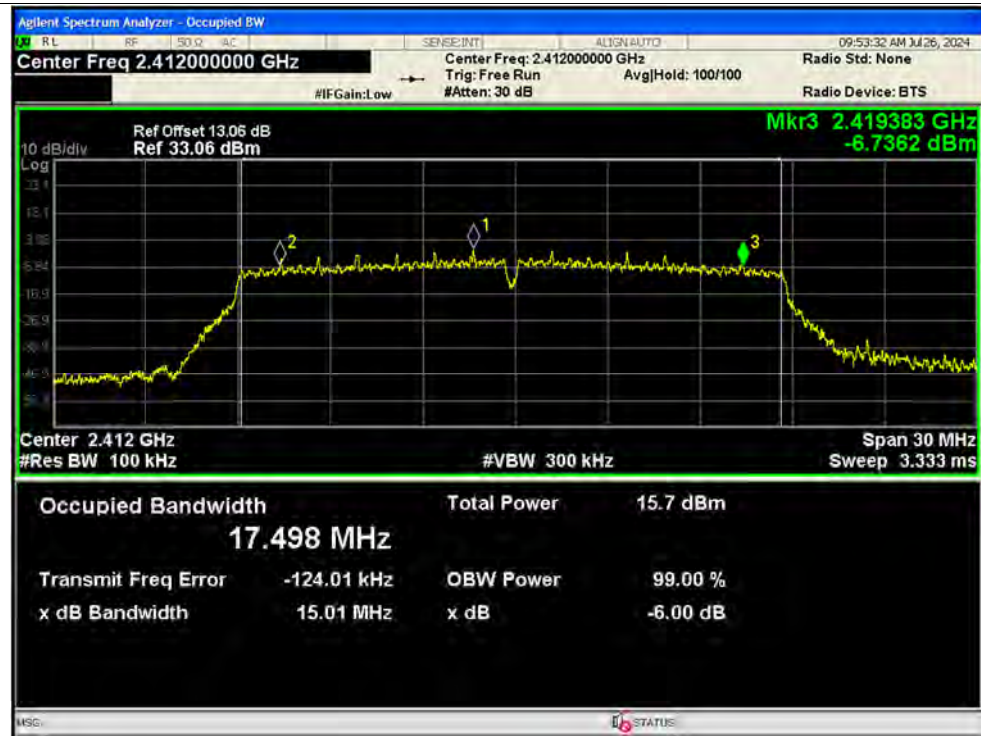
-6dB Bandwidth NVNT n20 2412MHz Ant1 MIMO



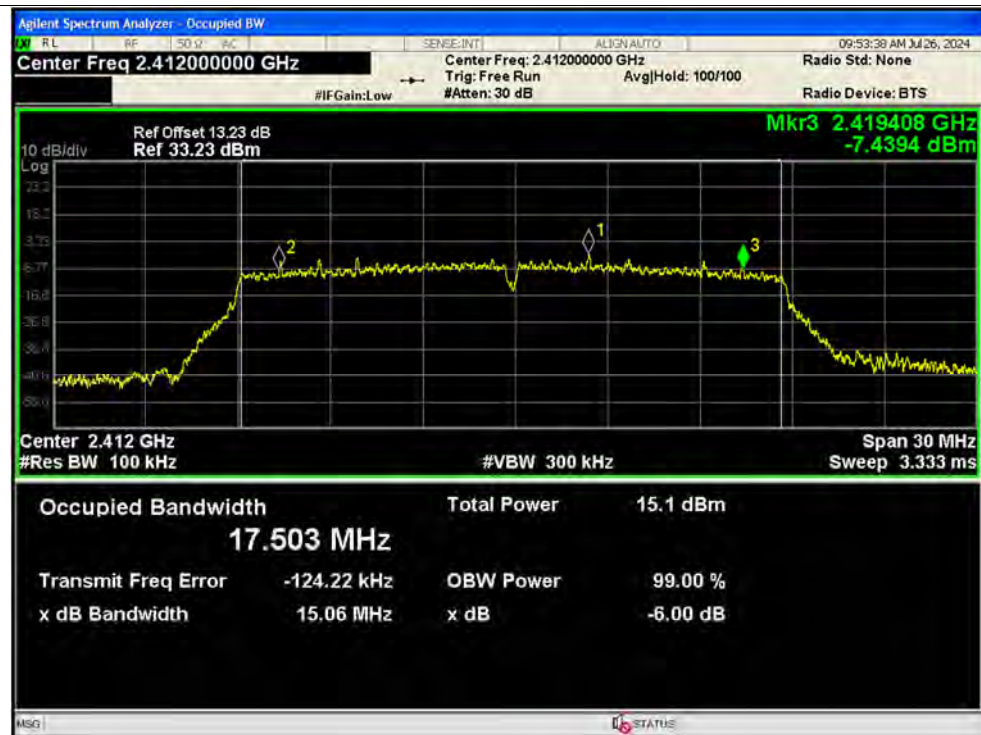
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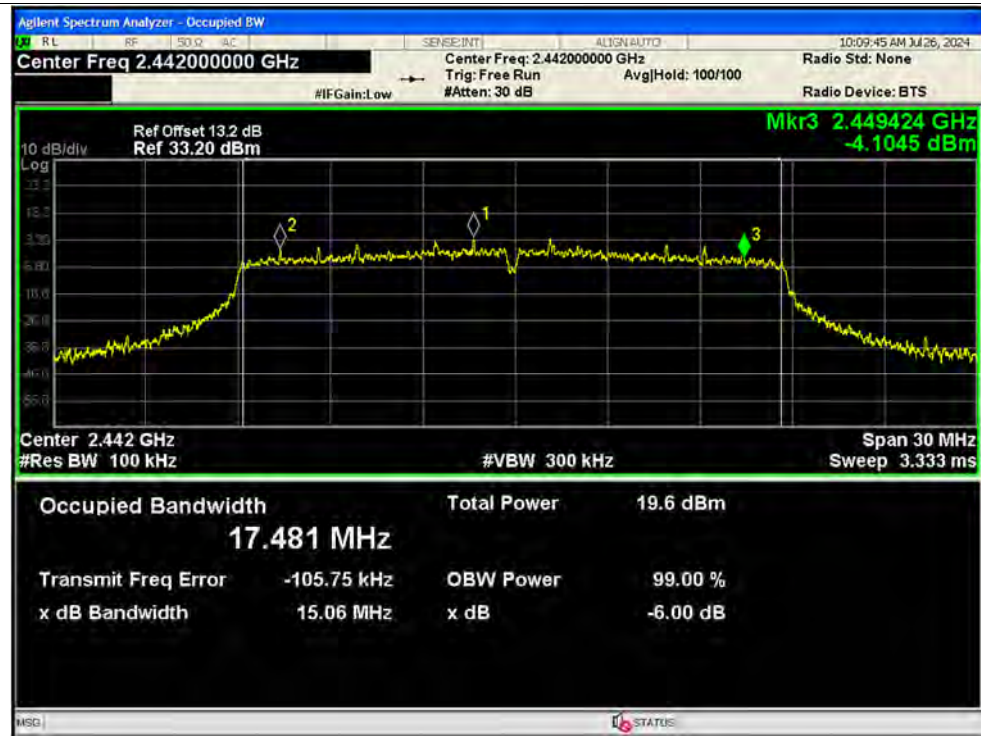
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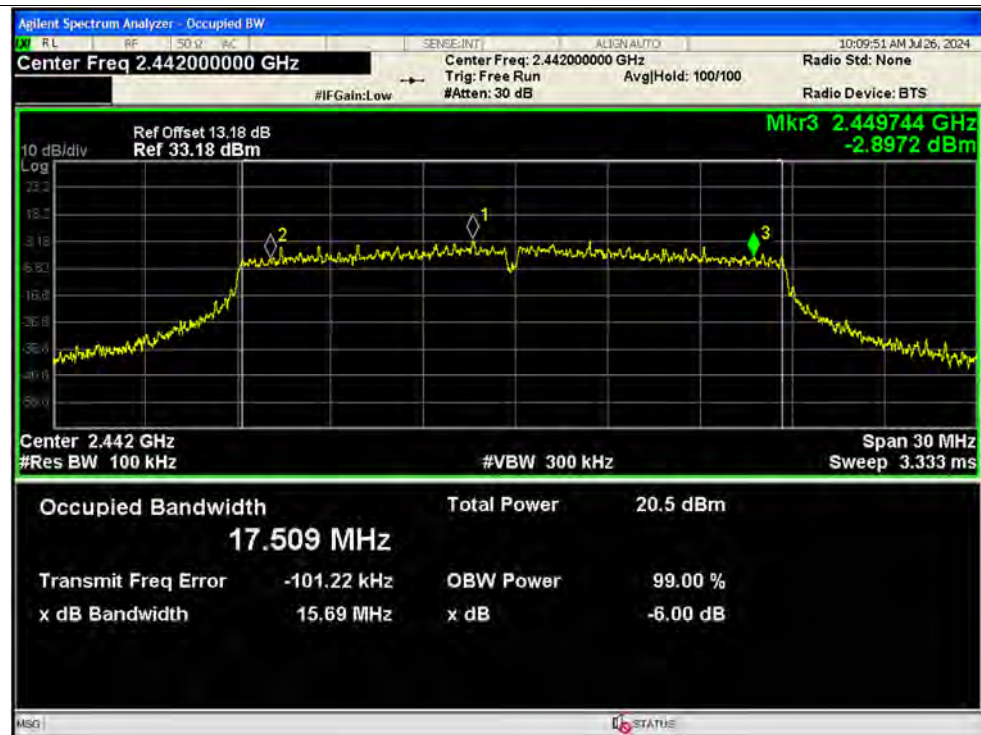
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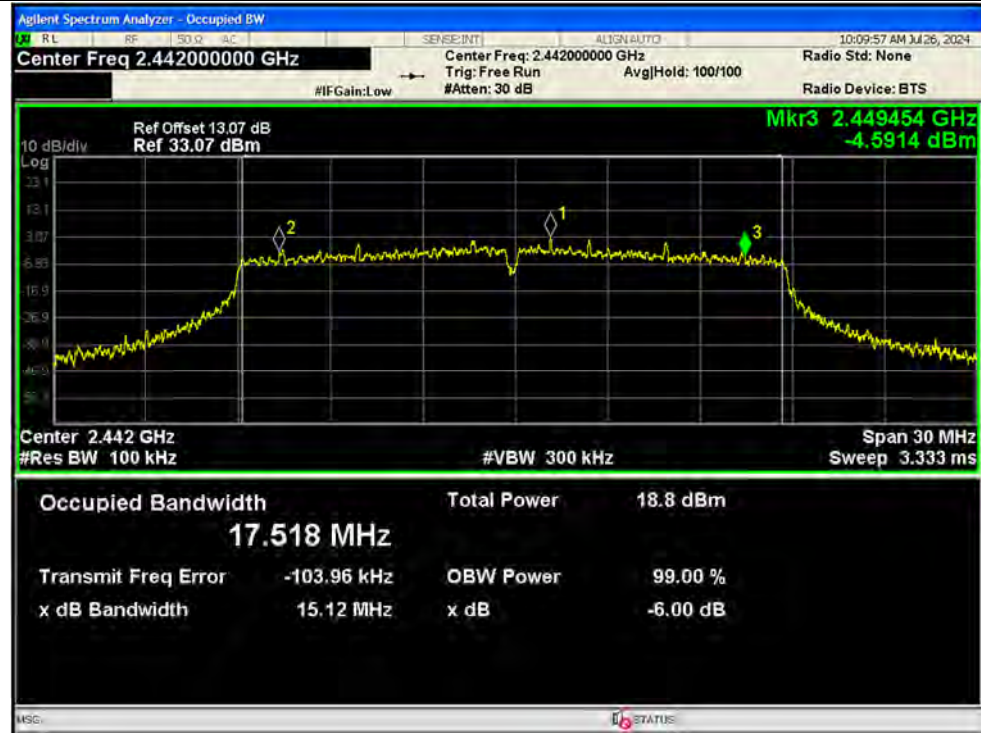
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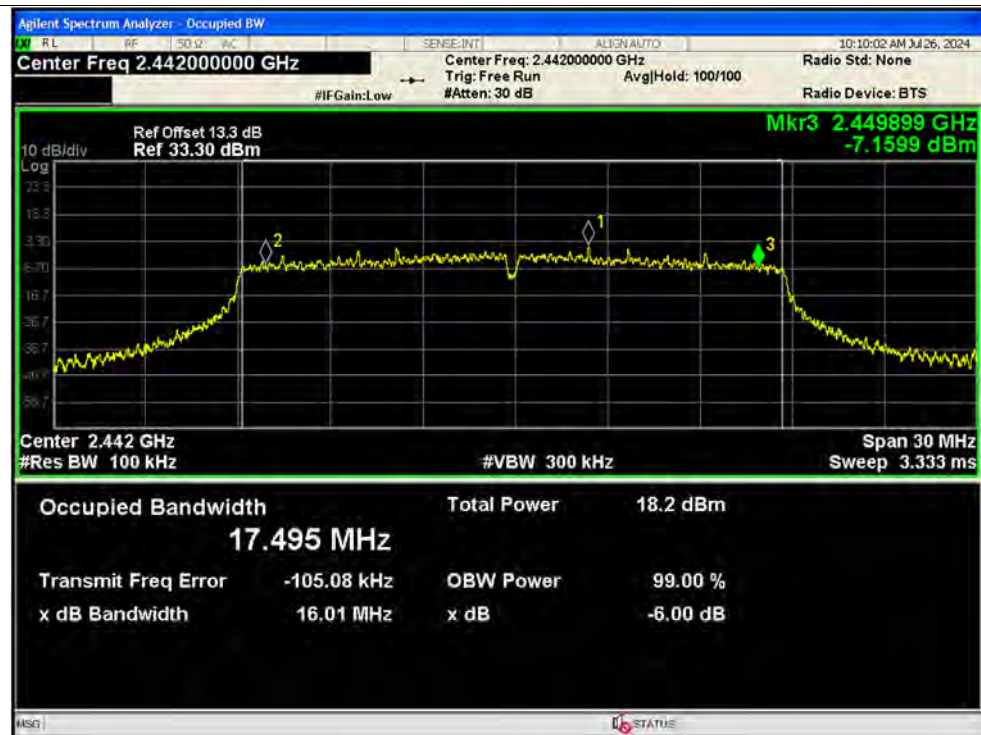
-6dB Bandwidth NVNT n20 2442MHz Ant2 MIMO



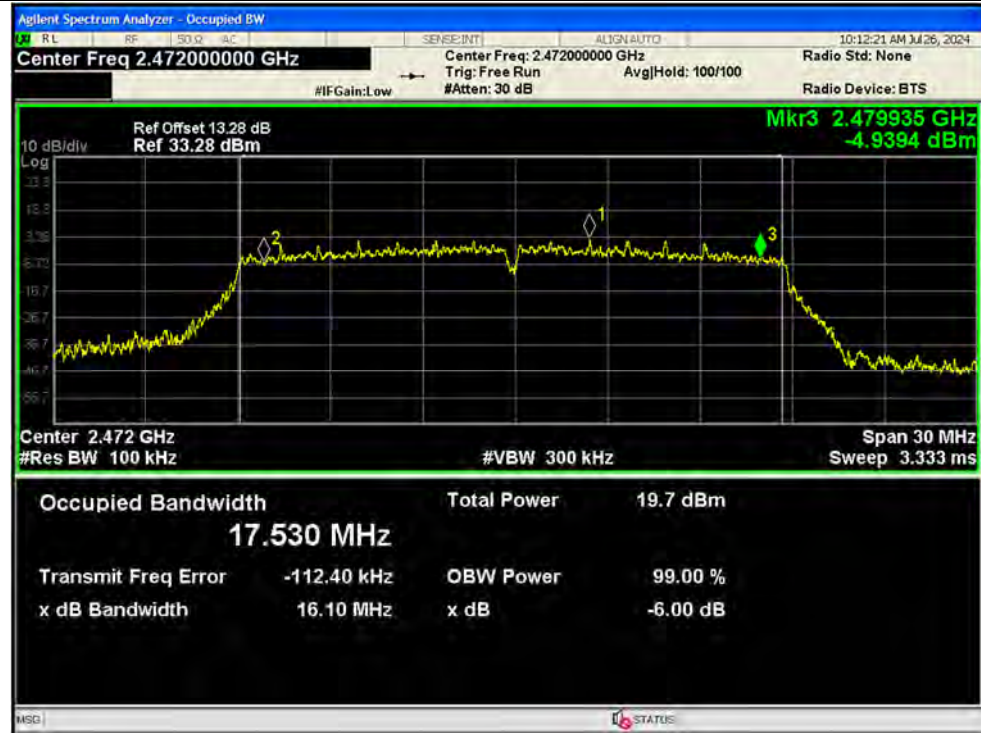
-6dB Bandwidth NVNT n20 2442MHz Ant3 MIMO



-6dB Bandwidth NVNT n20 2442MHz Ant4 MIMO



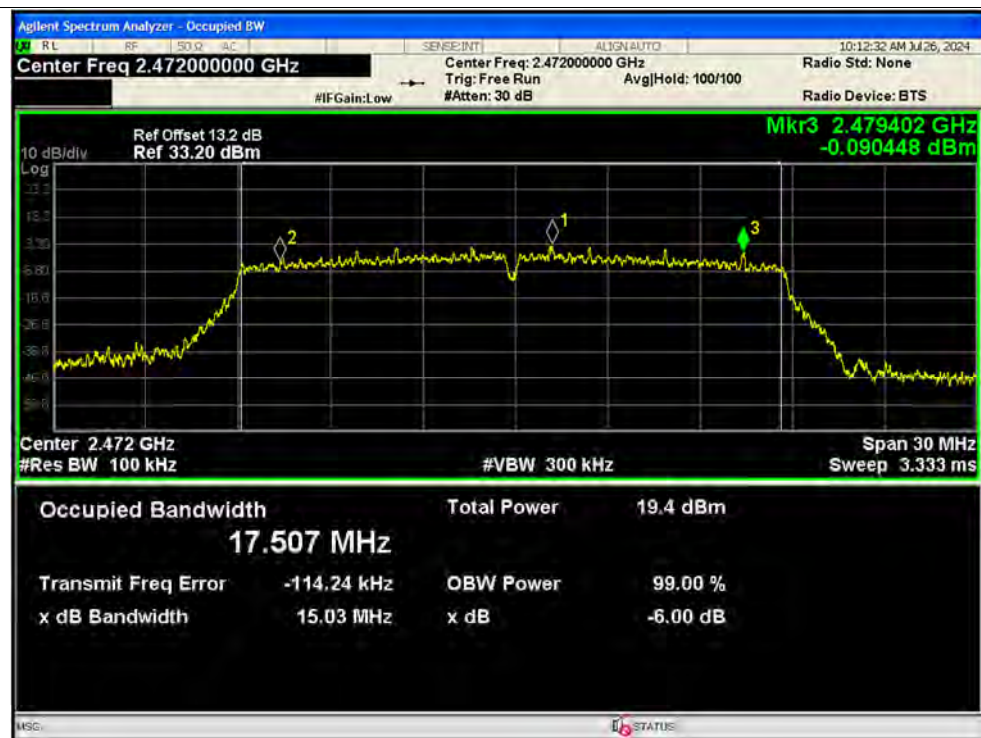
-6dB Bandwidth NVNT n20 2472MHz Ant1 MIMO



-6dB Bandwidth NVNT n20 2472MHz Ant2 MIMO



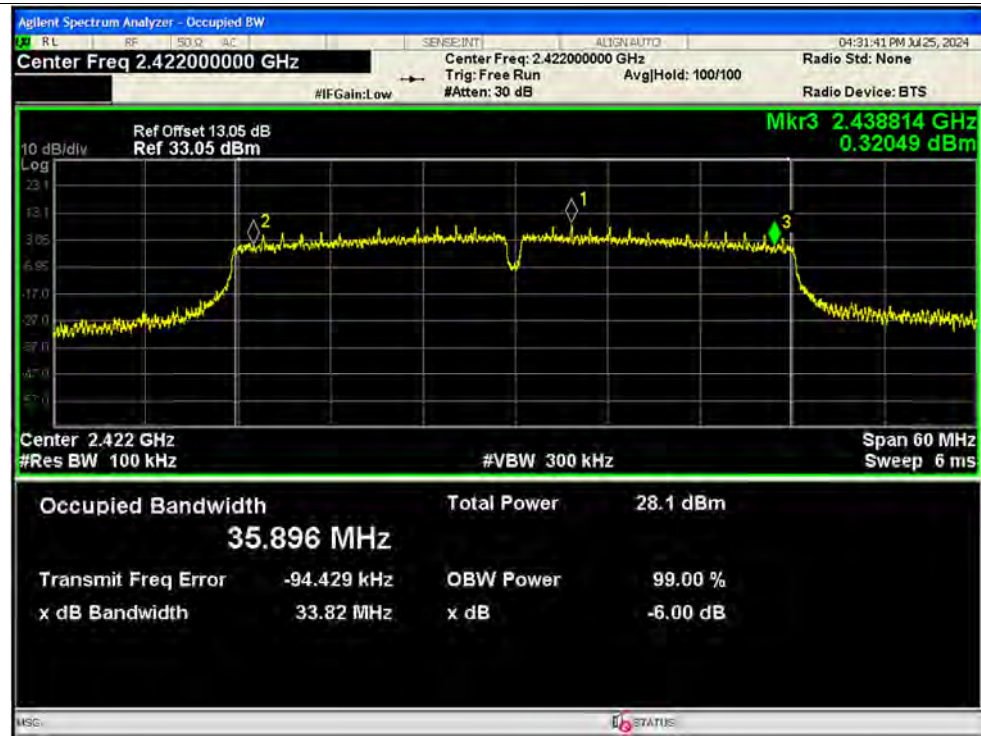
-6dB Bandwidth NVNT n20 2472MHz Ant3 MIMO



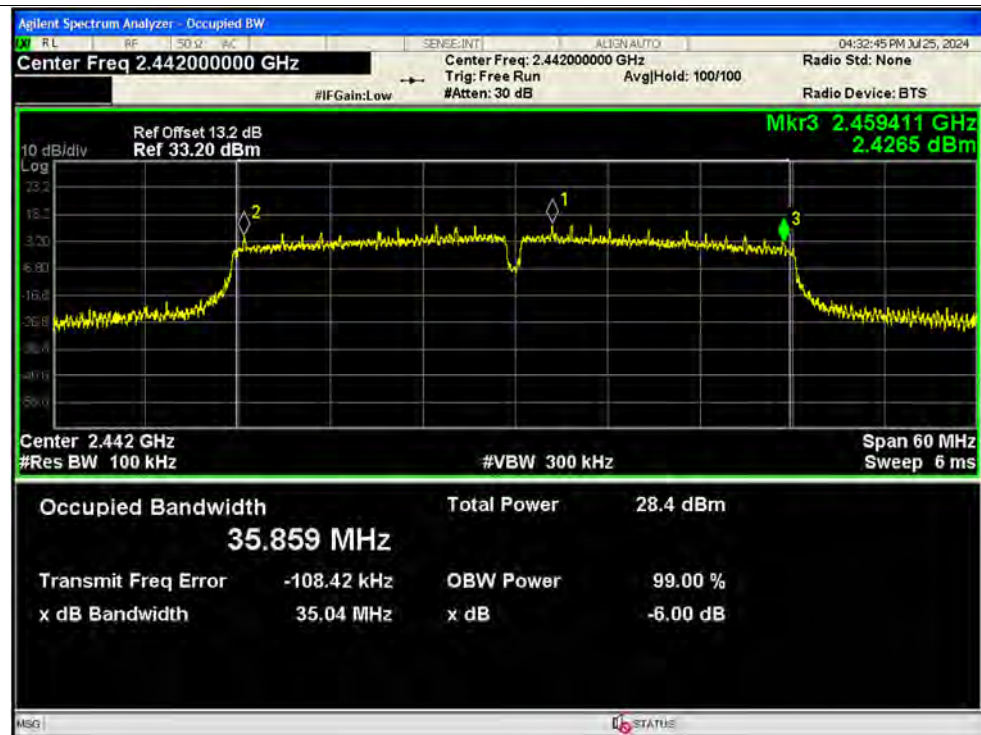
-6dB Bandwidth NVNT n20 2472MHz Ant4 MIMO



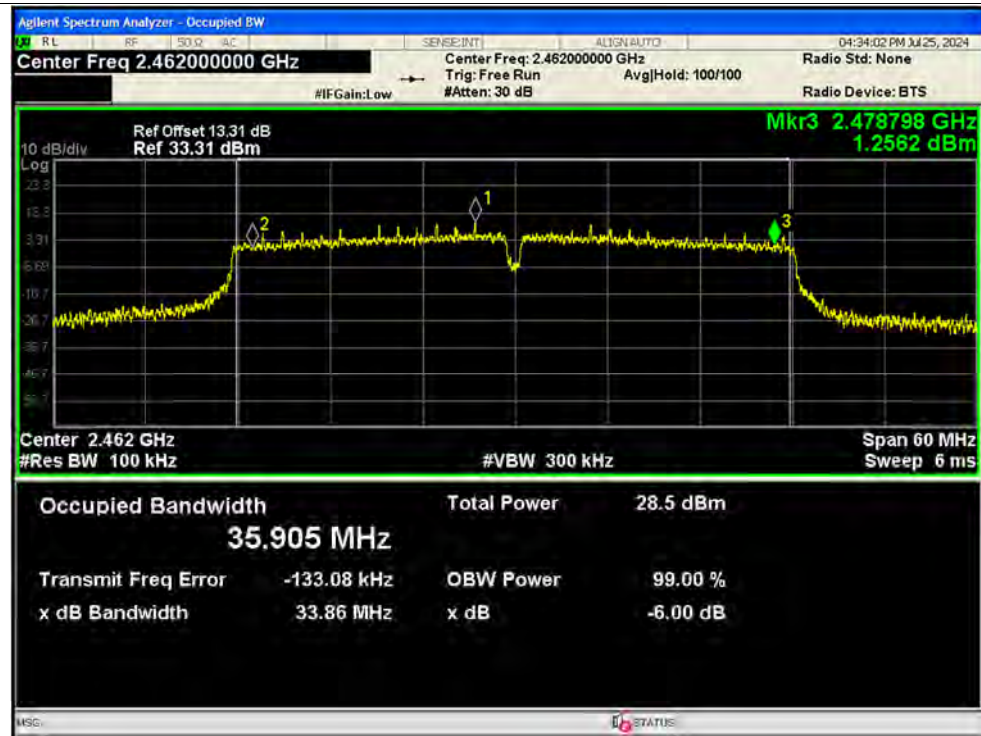
-6dB Bandwidth NVNT n40 2422MHz Ant1 SISO



-6dB Bandwidth NVNT n40 2442MHz Ant1 SISO



-6dB Bandwidth NVNT n40 2462MHz Ant1 SISO



-6dB Bandwidth NVNT n40 2422MHz Ant2 SISO

