



REPORT No.: SZ25070108W03

TEST REPORT

APPLICANT : Anker Innovations Limited

PRODUCT NAME : soundcore Nebula X1 Pro

MODEL NAME : D2151

BRAND NAME : soundcore

FCC ID : 2AOKB-D2151

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-07-11

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Change History		
Version	Date	Reason for change
1.0	2025-09-10	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	N/A	Duty Cycle of Test Signal	Aug. 04&05, 2025	Zhu Peihong	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Aug. 04&05, 2025	Zhu Peihong	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Aug. 04&05, 2025	Zhu Peihong	PASS	/
5	15.247(a)	Bandwidth	Aug. 04&05, 2025	Zhu Peihong	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Aug. 14, 2025	Zhu Peihong	PASS	/
7	15.247(e)	Power Spectral Density	Aug. 04&14, 2025	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	Aug. 07, 2025	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Aug. 06, 2025	Gao Jianrou	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Aug. 01&20, 2025	Gao Jianrou	PASS	/

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 C63.10-2020 and KDB558074 D01 v05r02.

Note 3: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.



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	2025.01.15	2026.01.14
RF Cable (30MHz-26GHz)	CB01	RF01	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	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	R&S	2025.05.13	2026.05.12
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



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:	Anker Innovations Limited
Applicant Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer:	Anker Innovations Limited
Manufacturer Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2. Information of EUT

Product Name:	soundcore Nebula X1 Pro		
Sample No.:	2#, 3#, 5#		
Hardware Version:	V5		
Software Version:	V11.0.46		
Module Type:	☒ MTK7663; ☐ RTL8711; ☐ ATS3031 (The product includes three modules.)		
Modulation Technology:	DSSS, OFDM		
Modulation Type:	Refer to section 2.4		
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)		
Operating Frequency Range:	2412MHz–2462MHz		
Antenna Type:	PIFA Antenna		
Antenna Gain (dBi):	ANT 1	ANT 2	Directional Gain Note 2
	5.13	4.96	8.06

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

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

Note 2: Directional gain is calculated based on KDB 662911 D01

KDB 662911 D01 Directional Gain Calculation			
Clause	Type	Correlation	Calculation formula
F.2.a	Equal G_{ANT} & Power	☐ (i). Correlated	$G_{ANT} + 10\log(N_{ANT})$
		☐ (ii). Uncorrelated	G_{ANT}
F.2.d		☒ (i). Correlated	$10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/N_{ANT}]$



	Unequal G_{ANT} & Equal Power	☐ (ii). Uncorrelated	$10\log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$
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Where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

Note 3: All radiation test items for 802.11n modulation mode operate at MIMO mode during the test. Other modulation modes operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result (ANT 2) in this report.

Note 4: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. 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		
	6	2437		
	7	2442		
Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
40MHz	3	2422	8	2447
	4	2427	9	2452
	5	2432		
	6	2437		
	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
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps
			DQPSK	
			CCK	
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54Mbps
			QPSK	
			16QAM	
			64QAM	
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7
			QPSK	
			16QAM	
			64QAM	

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.

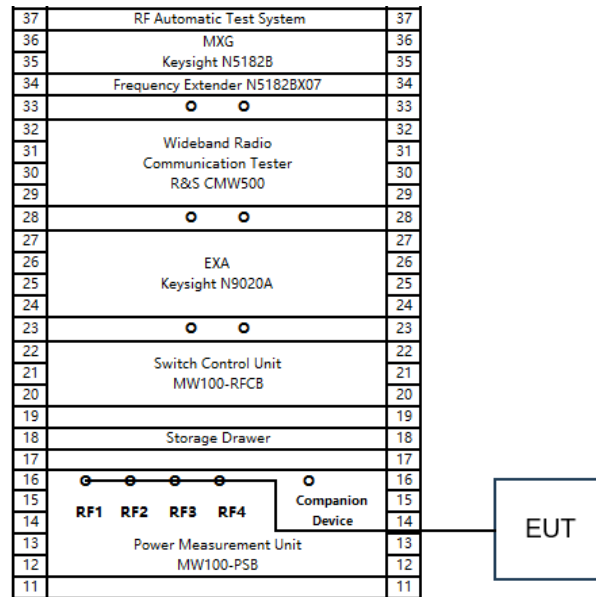
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

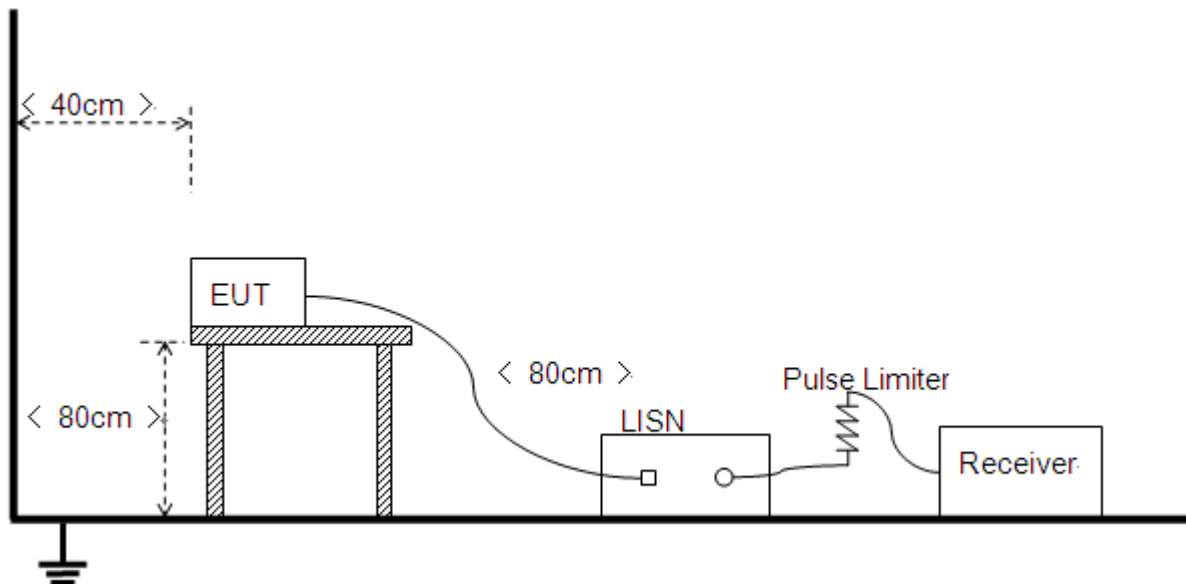
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

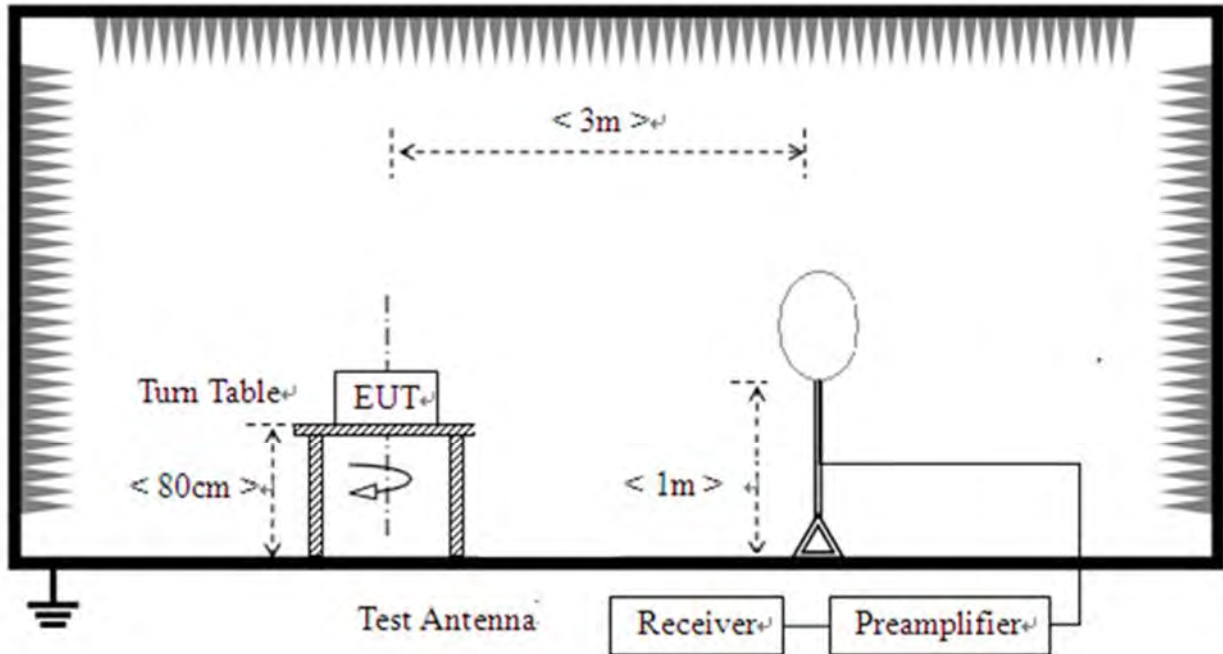


2.6.2. Conducted Emission Measurement

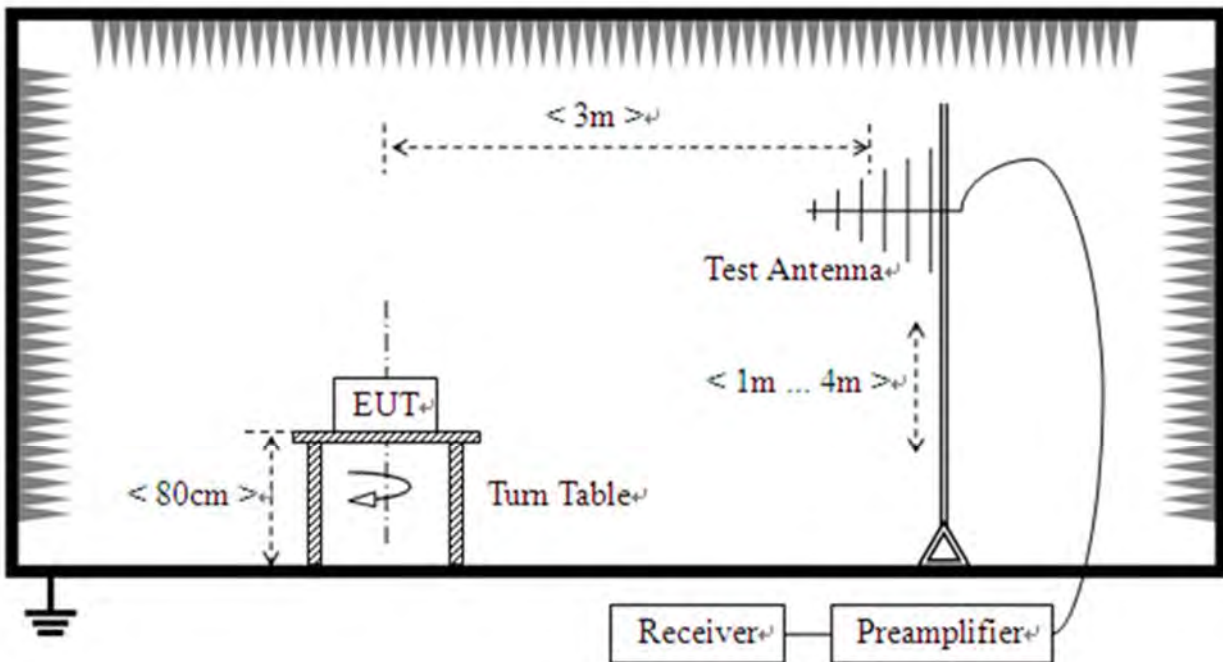


2.6.3.Radiation Measurement

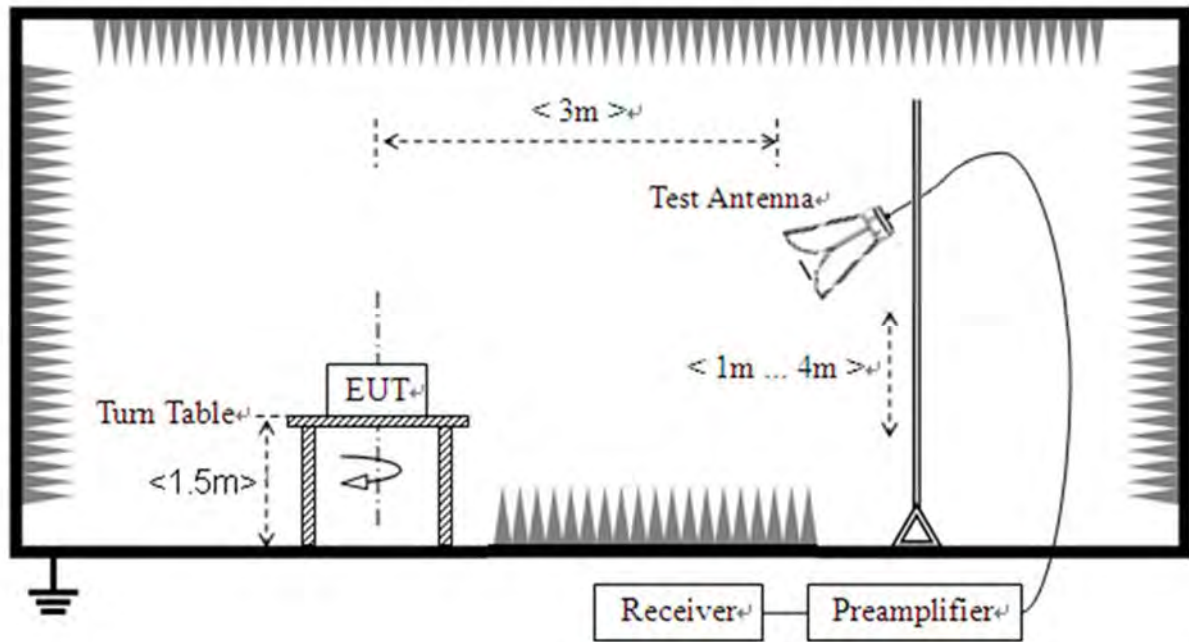
1) For radiated emissions from 9kHz to 30MHz



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.

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 3meters. 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	99.48	0.02	0.12
NVNT	b SISO	2437	Ant1	99.45	0.02	0.12
NVNT	b SISO	2462	Ant1	99.43	0.02	0.12
NVNT	b SISO	2412	Ant2	99.43	0.02	0.12
NVNT	b SISO	2437	Ant2	99.45	0.02	0.12
NVNT	b SISO	2462	Ant2	99.45	0.02	0.12
NVNT	g SISO	2412	Ant1	96.4	0.16	0.72
NVNT	g SISO	2437	Ant1	96.4	0.16	0.72
NVNT	g SISO	2462	Ant1	96.4	0.16	0.72
NVNT	g SISO	2412	Ant2	96.4	0.16	0.72
NVNT	g SISO	2437	Ant2	96.27	0.17	0.72
NVNT	g SISO	2462	Ant2	96.4	0.16	0.72
NVNT	n20 SISO	2412	Ant1	96.16	0.17	0.77
NVNT	n20 SISO	2437	Ant1	96.01	0.18	0.77
NVNT	n20 SISO	2462	Ant1	96.02	0.18	0.77
NVNT	n20 SISO	2412	Ant2	96.01	0.18	0.77
NVNT	n20 SISO	2437	Ant2	96.15	0.17	0.77
NVNT	n20 SISO	2462	Ant2	96.01	0.18	0.77
NVNT	n20 MIMO	2412	Sum	96.02	0.18	0.77
NVNT	n20 MIMO	2437	Sum	96.16	0.17	0.77
NVNT	n20 MIMO	2462	Sum	96.3	0.16	0.77
NVNT	n40 SISO	2422	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2422	Ant2	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant2	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant2	92.57	0.34	1.54
NVNT	n40 MIMO	2422	Sum	92.31	0.35	1.54
NVNT	n40 MIMO	2437	Sum	92.59	0.33	1.54
NVNT	n40 MIMO	2452	Sum	92.57	0.34	1.54

**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	15	0	15	0.03162	30	Pass
b SISO	2437	Ant1	15.11	0	15.11	0.03243	30	Pass
b SISO	2462	Ant1	14.93	0	14.93	0.03112	30	Pass
b SISO	2412	Ant2	15.27	0	15.27	0.03365	30	Pass
b SISO	2437	Ant2	15.7	0	15.7	0.03715	30	Pass
b SISO	2462	Ant2	15.79	0	15.79	0.03793	30	Pass
g SISO	2412	Ant1	18.33	0	18.33	0.06808	30	Pass
g SISO	2437	Ant1	18.56	0	18.56	0.07178	30	Pass
g SISO	2462	Ant1	18.42	0	18.42	0.0695	30	Pass
g SISO	2412	Ant2	19.3	0	19.3	0.08511	30	Pass
g SISO	2437	Ant2	19.32	0	19.32	0.08551	30	Pass
g SISO	2462	Ant2	19.27	0	19.27	0.08453	30	Pass
n20 SISO	2412	Ant1	17.71	0	17.71	0.05902	30	Pass
n20 SISO	2437	Ant1	17.71	0	17.71	0.05902	30	Pass
n20 SISO	2462	Ant1	17.84	0	17.84	0.06081	30	Pass
n20 SISO	2412	Ant2	18.05	0	18.05	0.06383	30	Pass
n20 SISO	2437	Ant2	17.77	0	17.77	0.05984	30	Pass
n20 SISO	2462	Ant2	18.29	0	18.29	0.06745	30	Pass
n20 MIMO	2412	Ant1	18.02	0	18.02	0.06339	30	Pass
n20 MIMO	2412	Ant2	18.22	0	18.22	0.06637	30	Pass
n20 MIMO	2412	Sum	NaN	NaN	21.13	0.12976	27.94	Pass
n20 MIMO	2437	Ant1	17.78	0	17.78	0.05998	30	Pass
n20 MIMO	2437	Ant2	17.83	0	17.83	0.06067	30	Pass
n20 MIMO	2437	Sum	NaN	NaN	20.82	0.12065	27.94	Pass
n20 MIMO	2462	Ant1	18.2	0	18.2	0.06607	30	Pass
n20 MIMO	2462	Ant2	18.34	0	18.34	0.06823	30	Pass
n20 MIMO	2462	Sum	NaN	NaN	21.28	0.1343	27.94	Pass
n40 SISO	2422	Ant1	16.91	0	16.91	0.04909	30	Pass
n40 SISO	2437	Ant1	17.06	0	17.06	0.05082	30	Pass
n40 SISO	2452	Ant1	17.05	0	17.05	0.0507	30	Pass
n40 SISO	2422	Ant2	16.53	0	16.53	0.04498	30	Pass
n40 SISO	2437	Ant2	16.4	0	16.4	0.04365	30	Pass
n40 SISO	2452	Ant2	16.87	0	16.87	0.04864	30	Pass



REPORT No.: SZ25070108W03

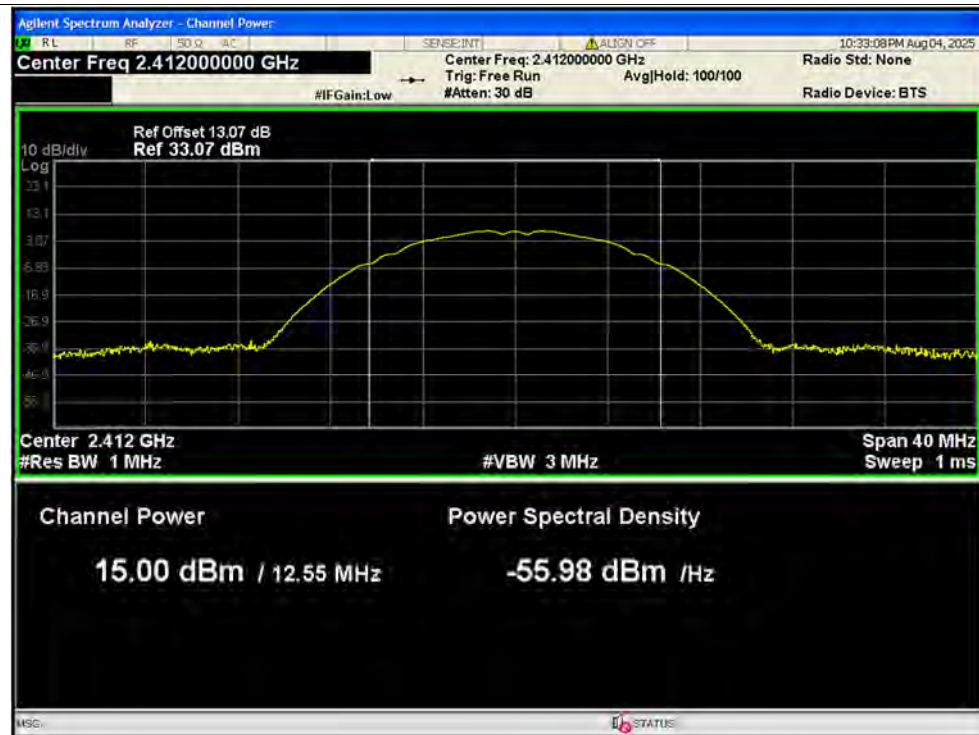
n40 MIMO	2422	Ant1	16.88	0	16.88	0.04875	30	Pass
n40 MIMO	2422	Ant2	16.93	0	16.93	0.04932	30	Pass
n40 MIMO	2422	Sum	NaN	NaN	19.92	0.09807	27.94	Pass
n40 MIMO	2437	Ant1	17.06	0	17.06	0.05082	30	Pass
n40 MIMO	2437	Ant2	17.01	0	17.01	0.05023	30	Pass
n40 MIMO	2437	Sum	NaN	NaN	20.05	0.10105	27.94	Pass
n40 MIMO	2452	Ant1	17.16	0	17.16	0.052	30	Pass
n40 MIMO	2452	Ant2	17.37	0	17.37	0.05458	30	Pass
n40 MIMO	2452	Sum	NaN	NaN	20.28	0.10658	27.94	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 8.06\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to 30-(8.06-6) = 27.94dBm.

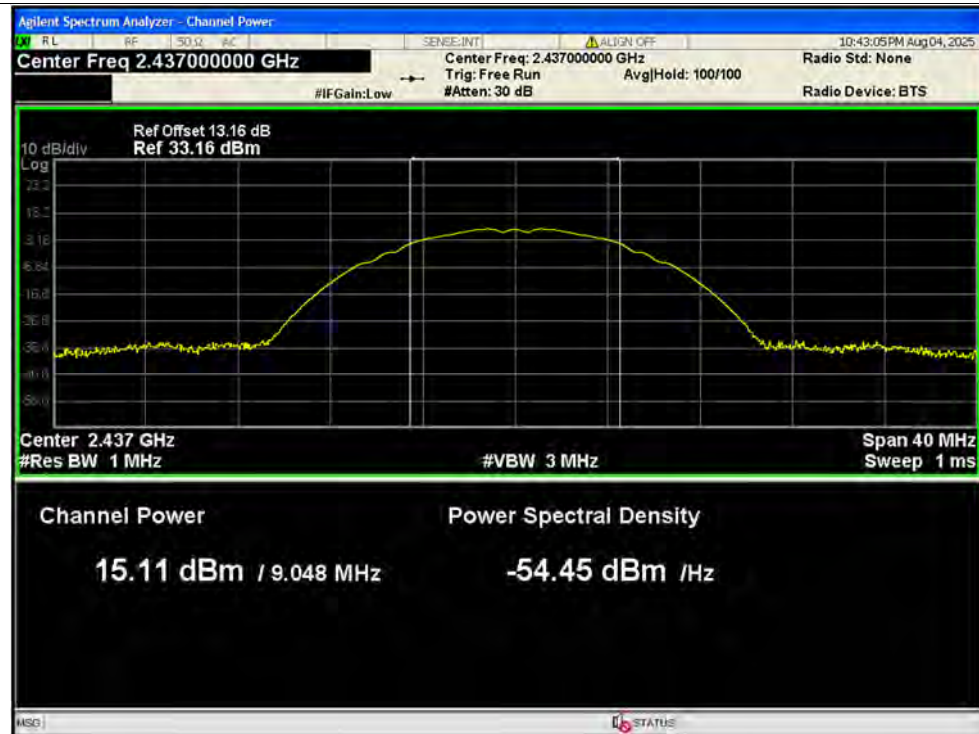


Test Graphs

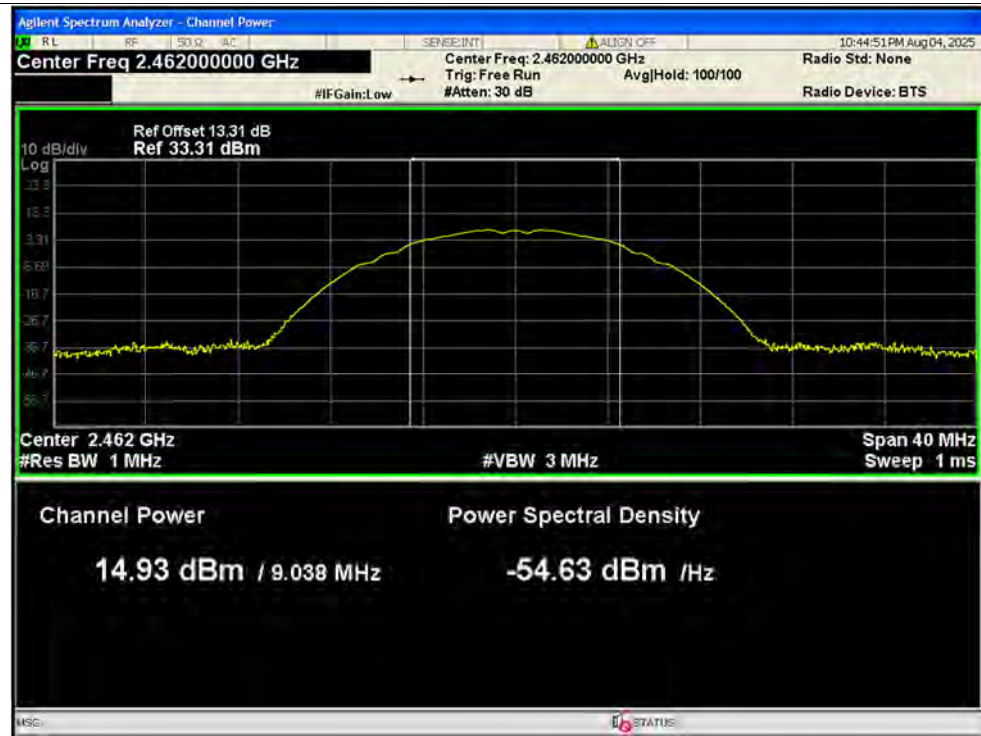
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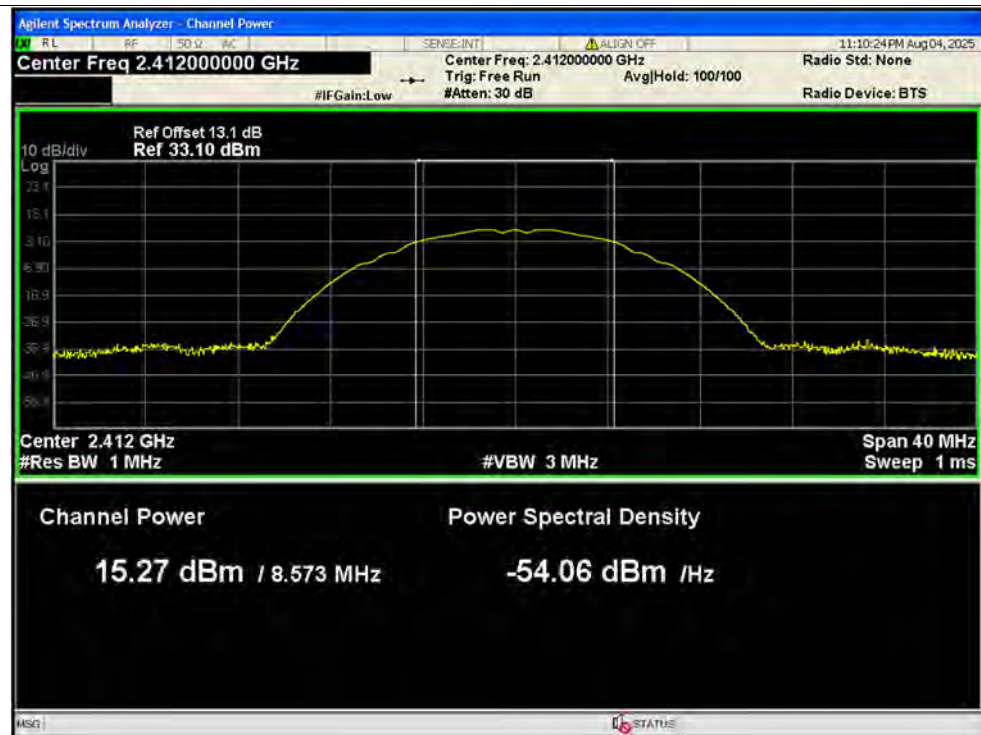
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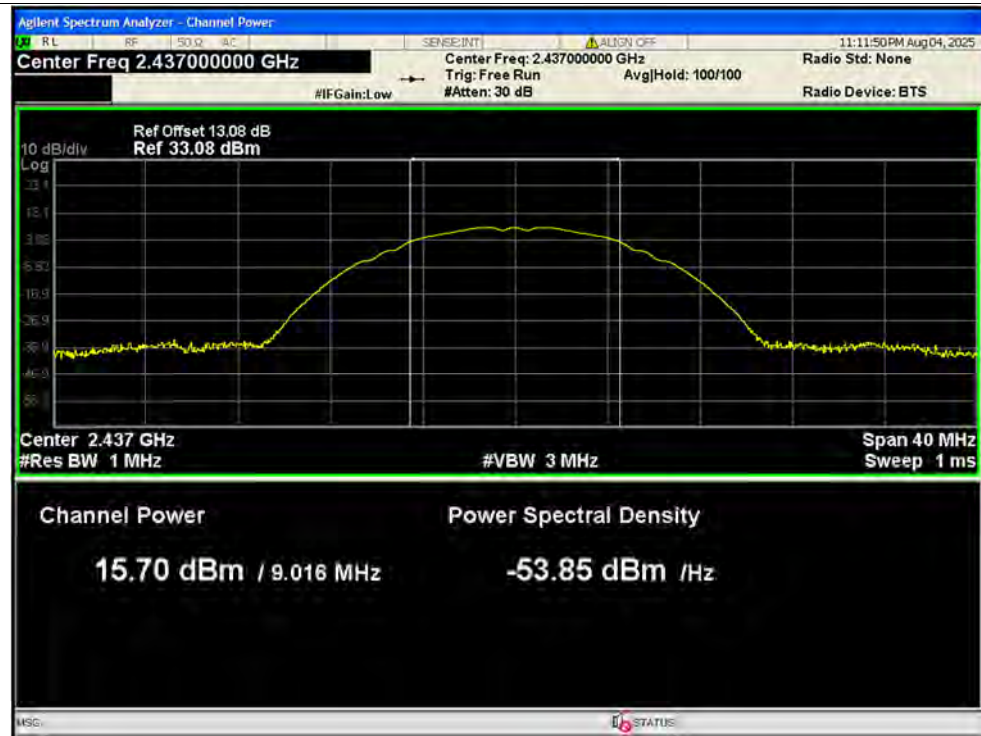
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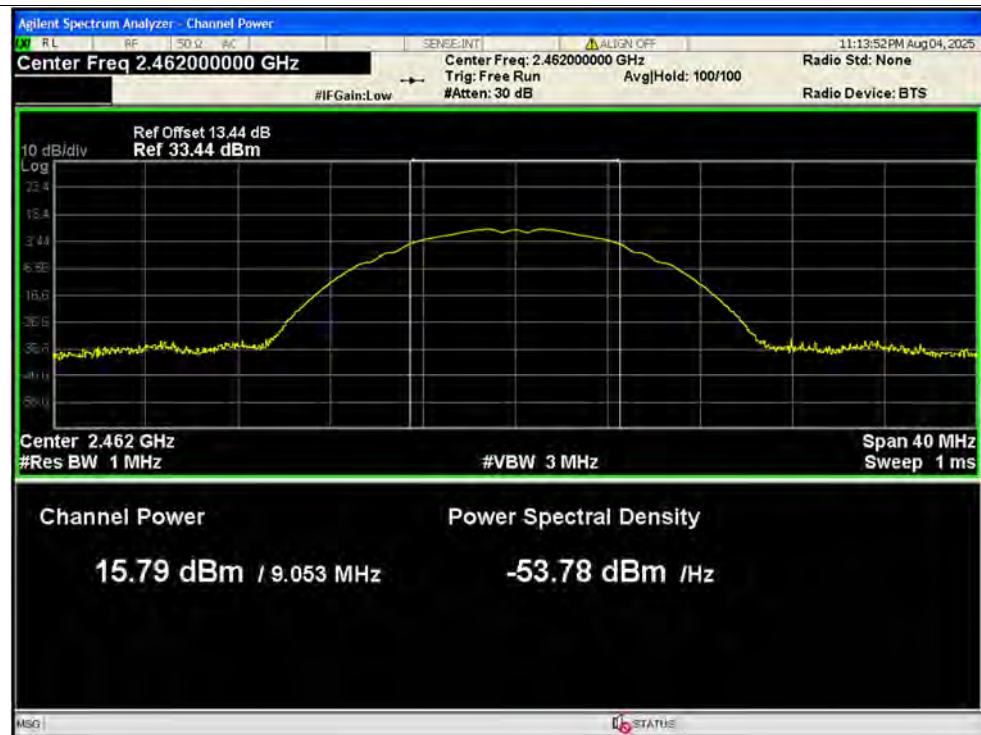
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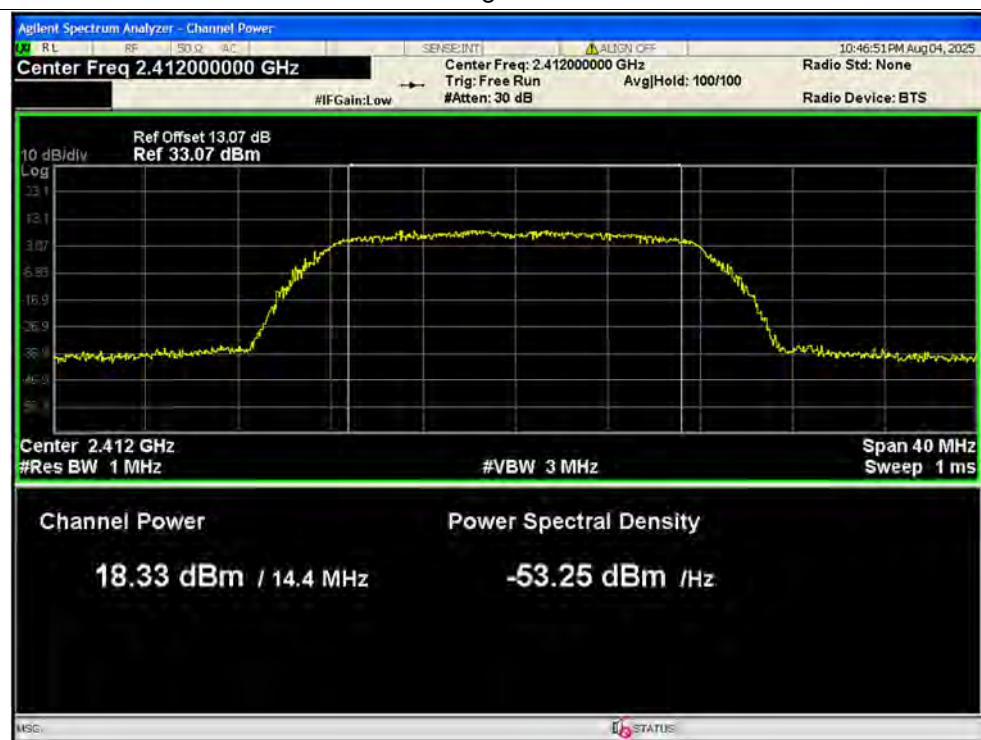
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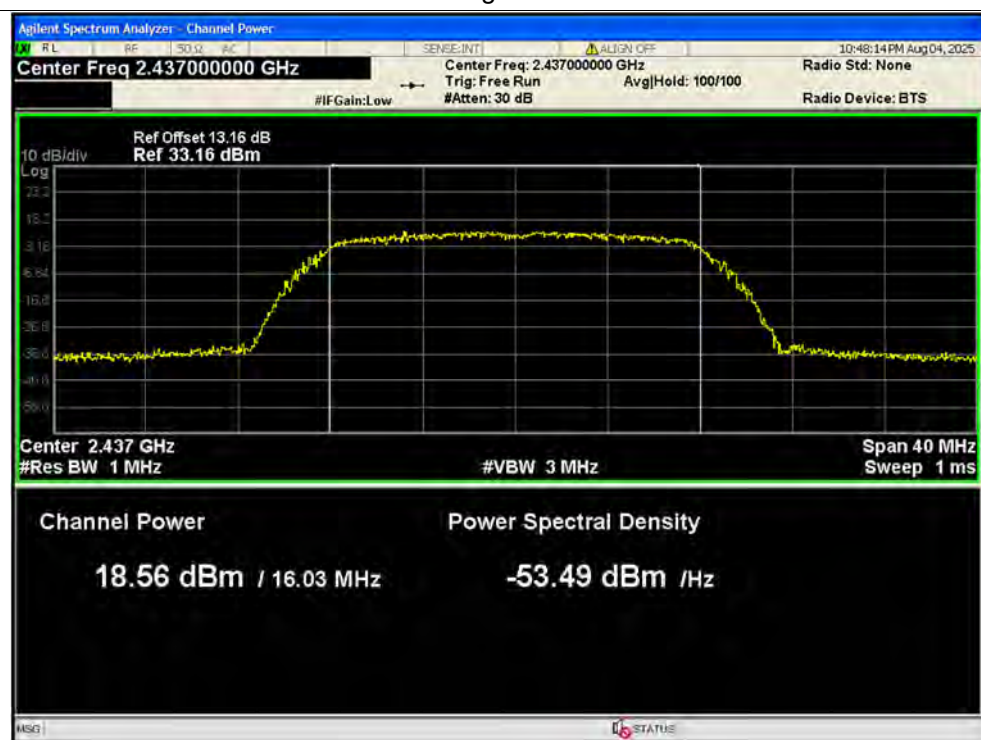
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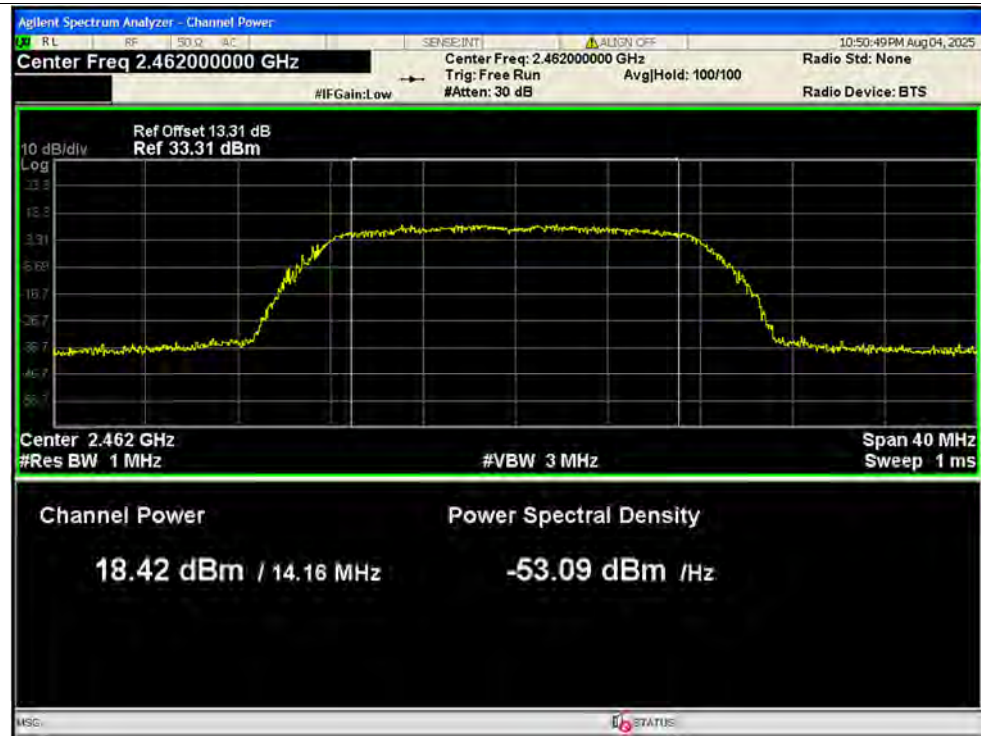
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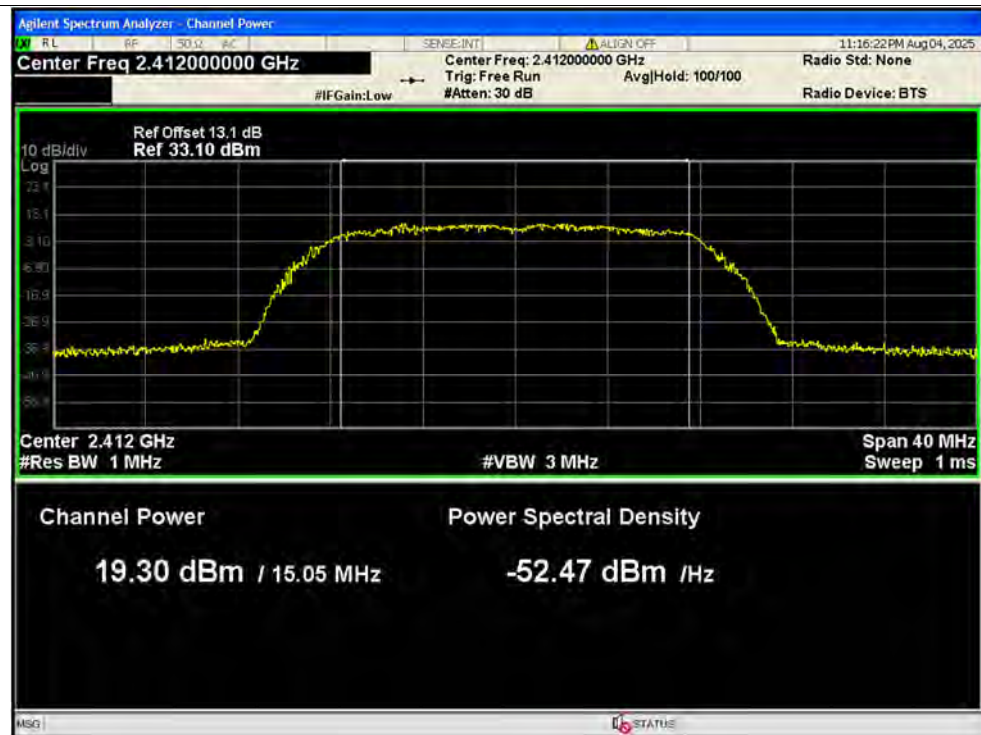
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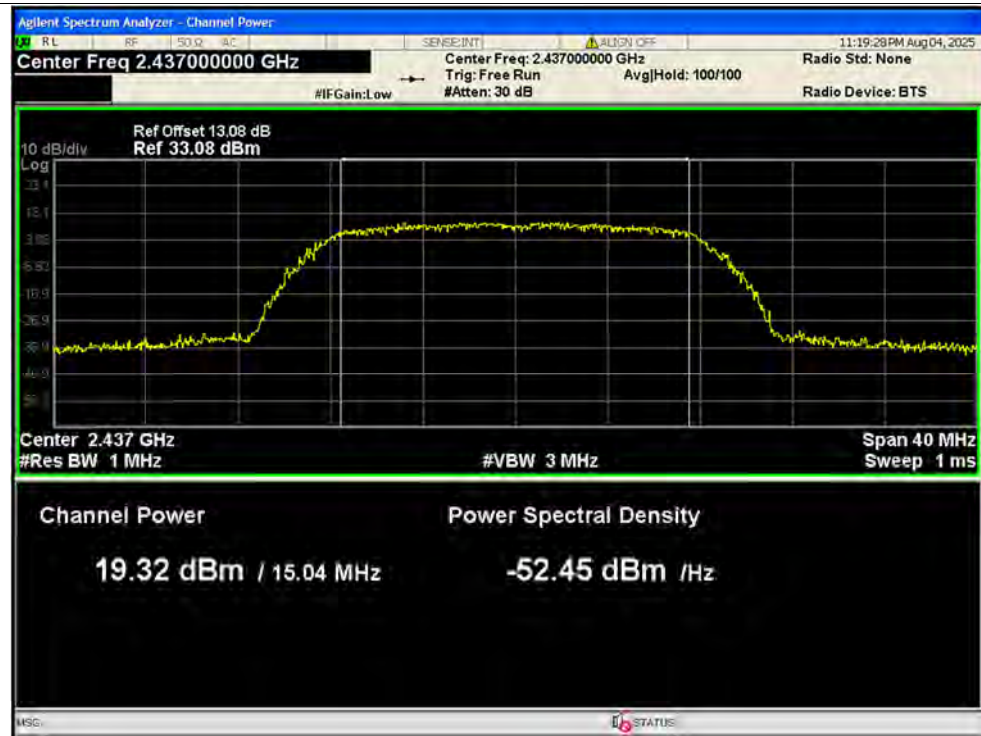
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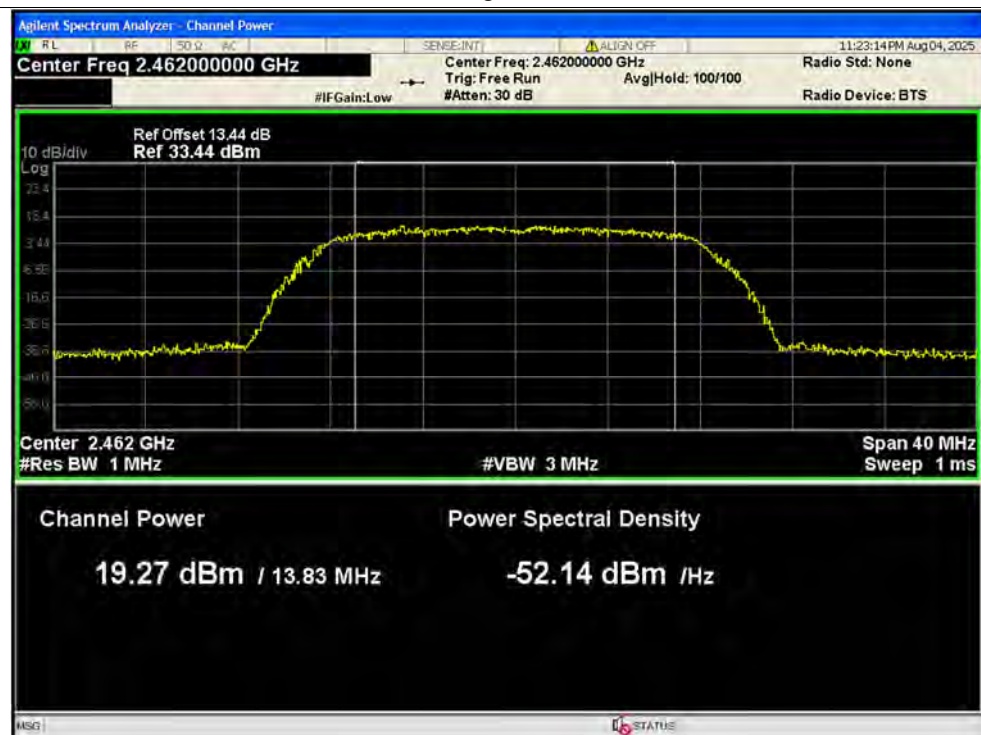
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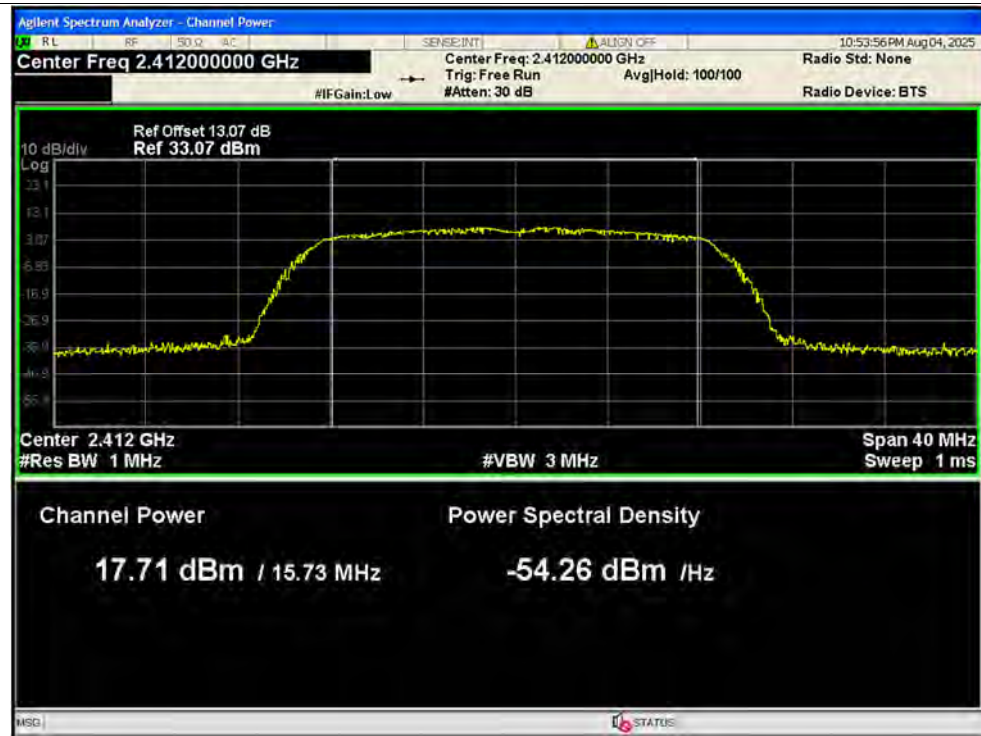
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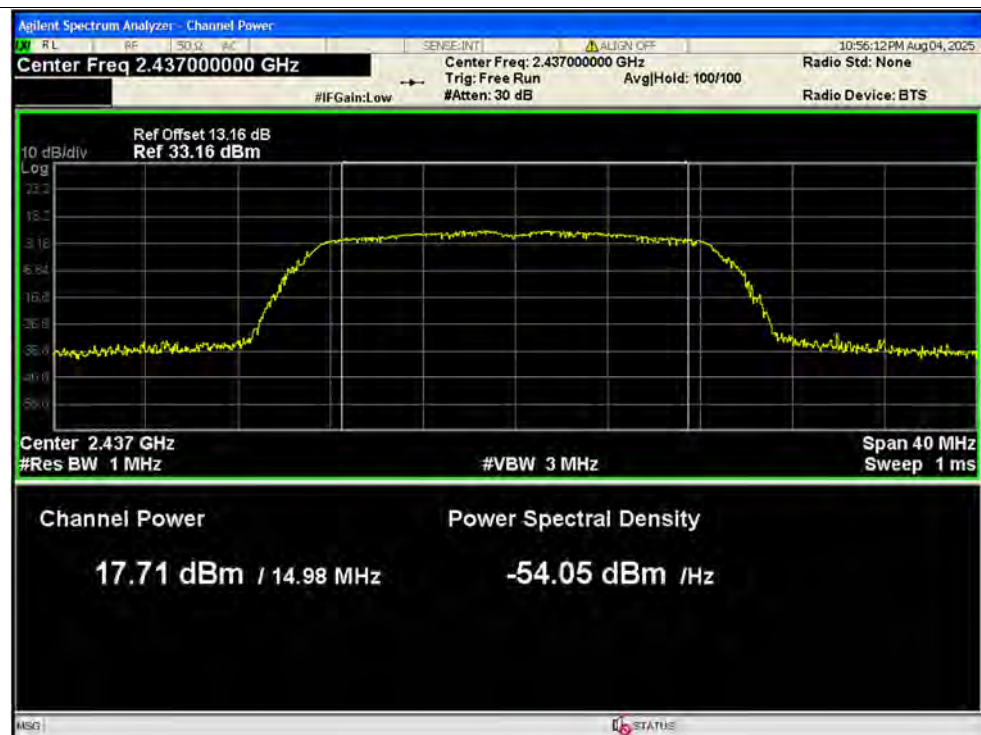
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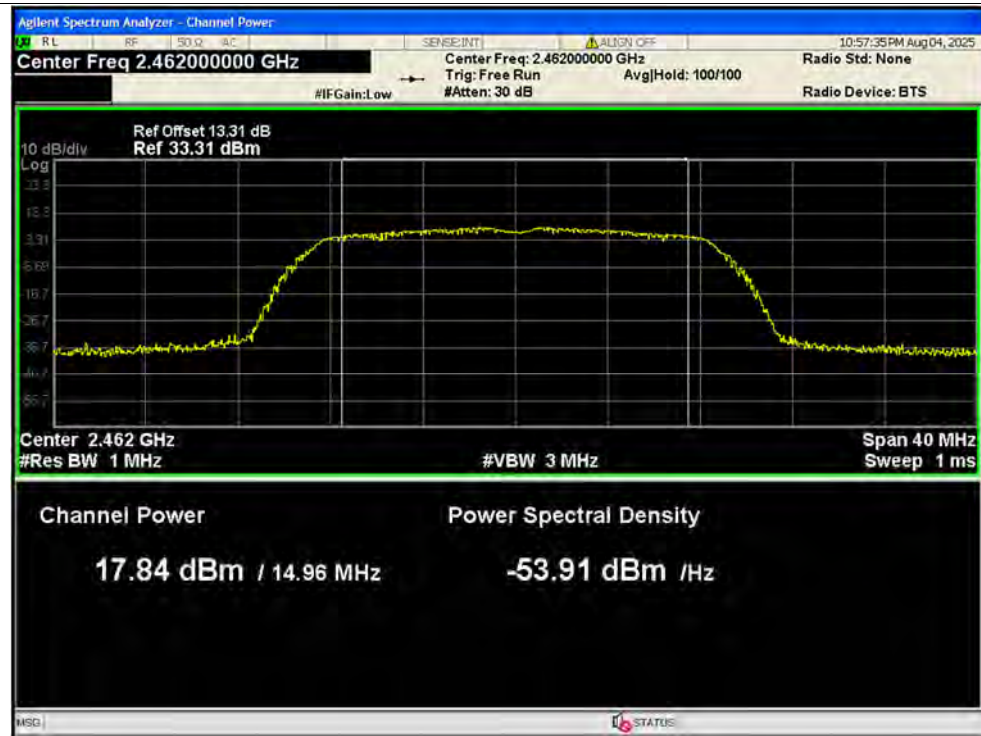
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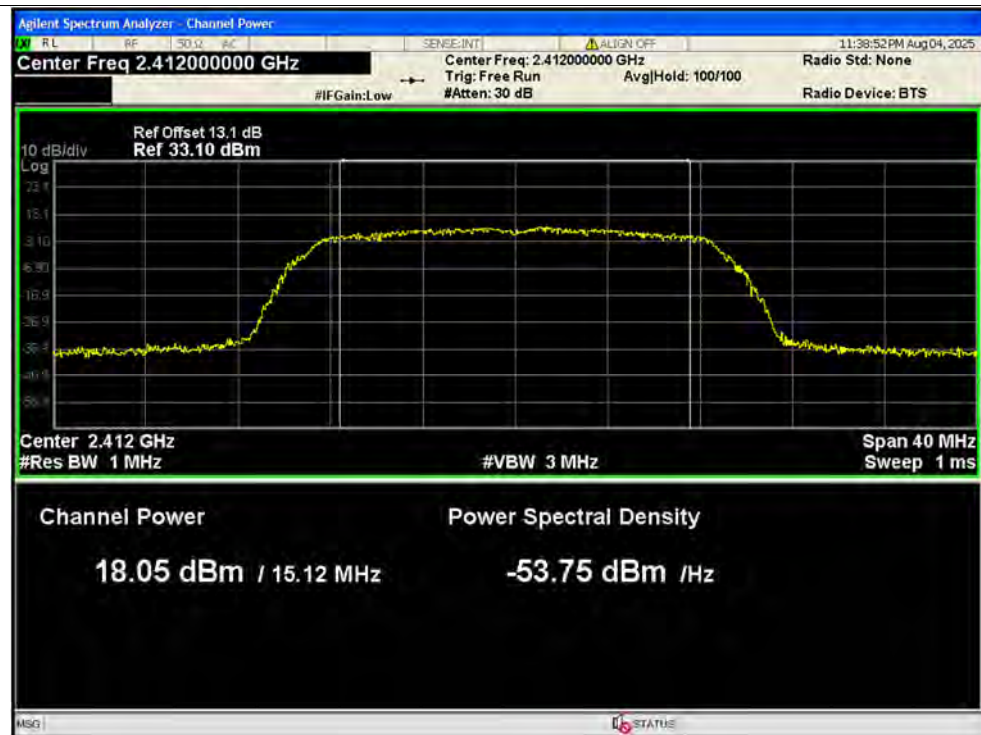
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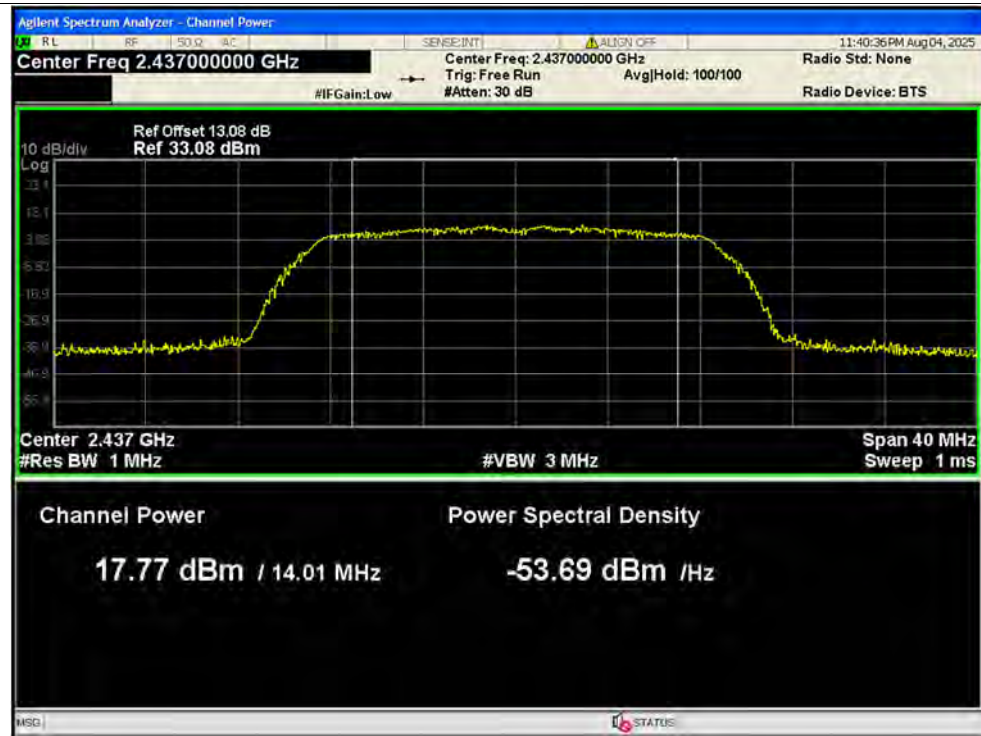
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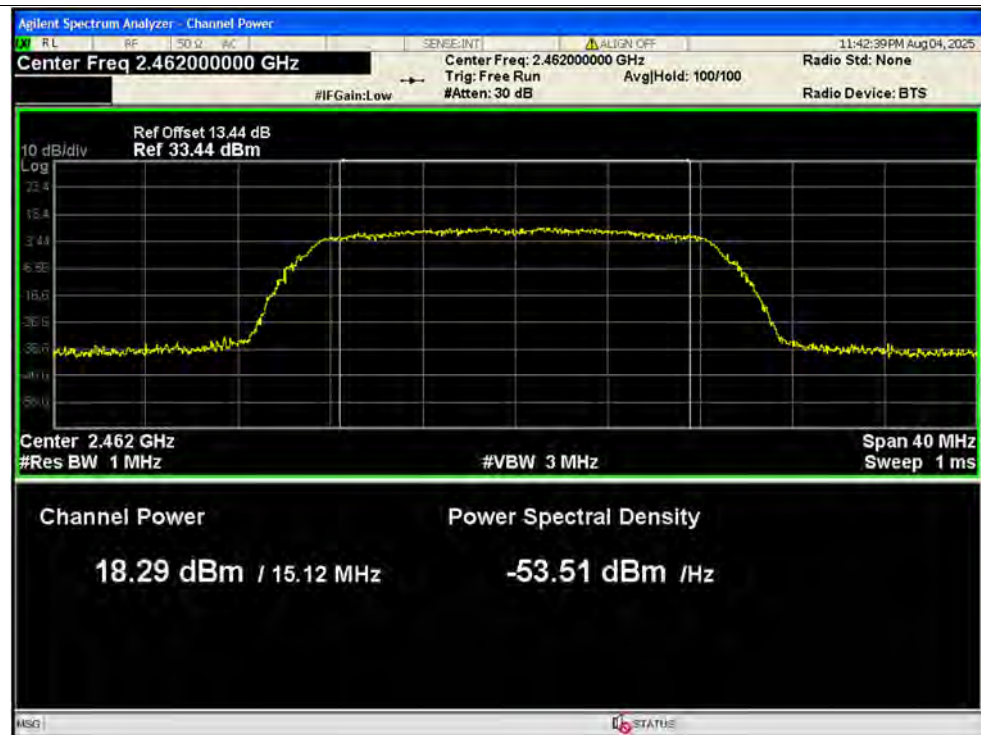
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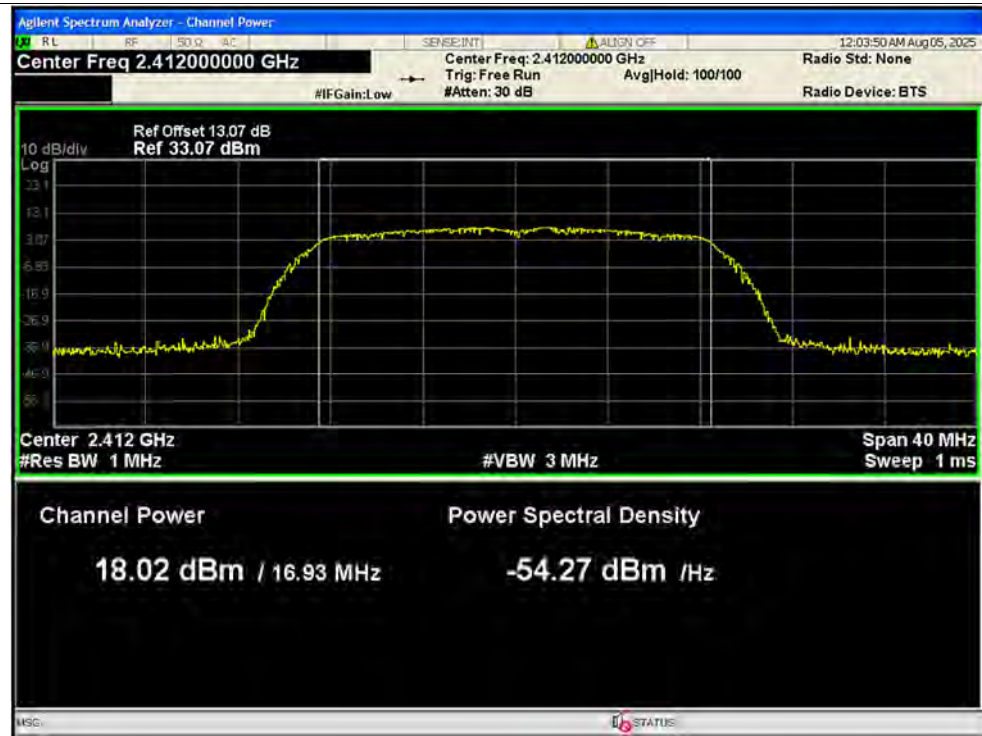
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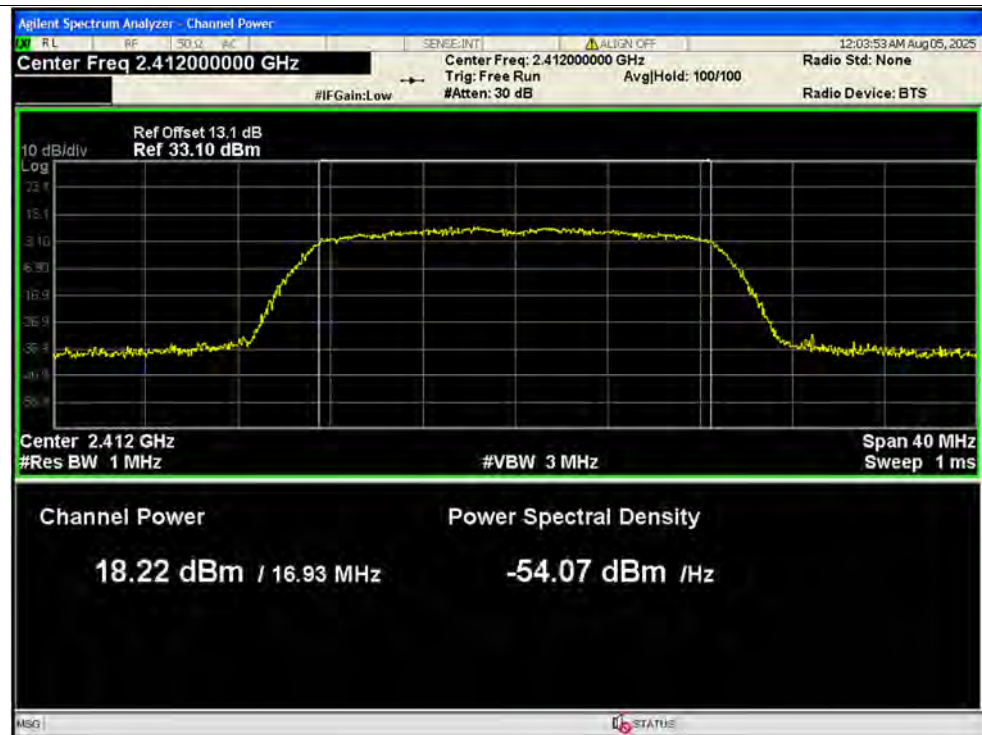
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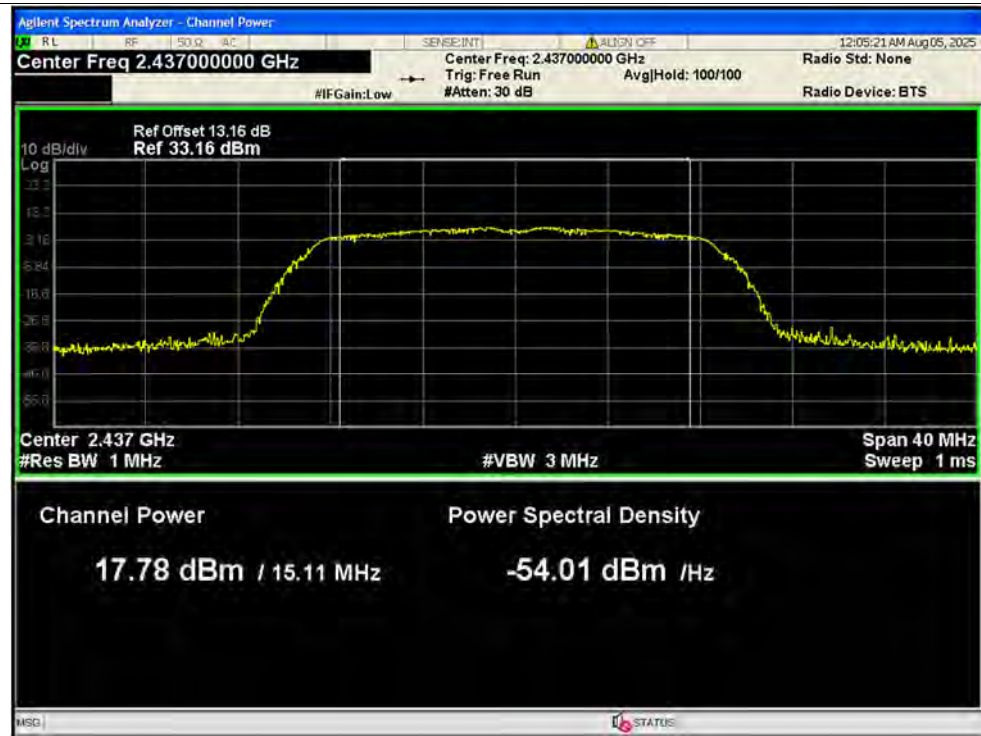
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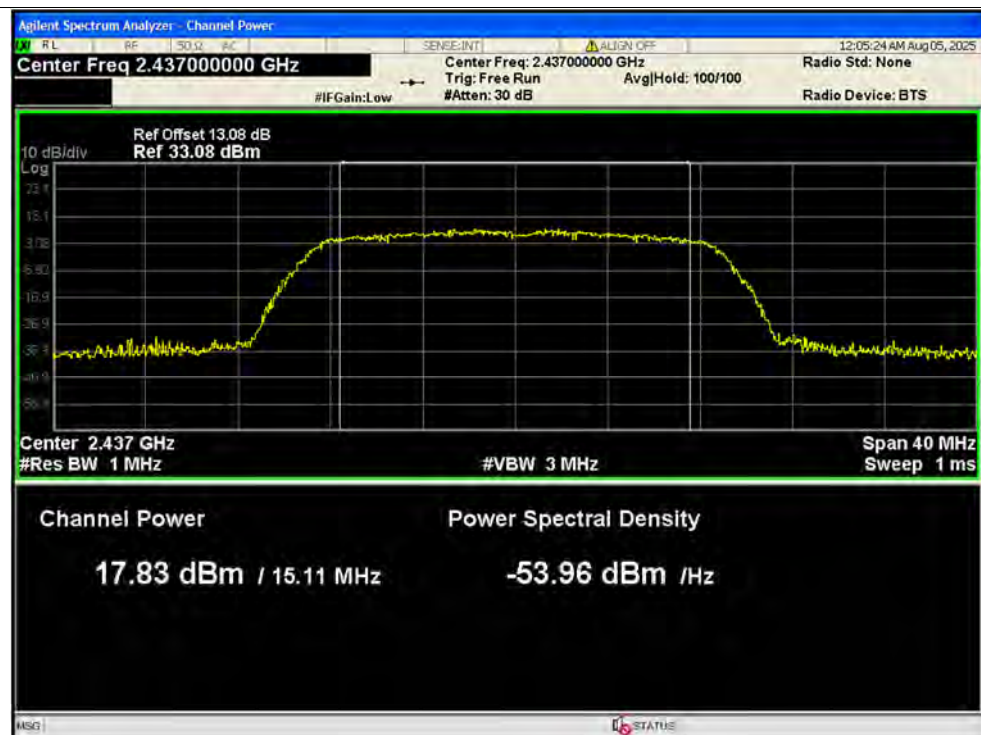
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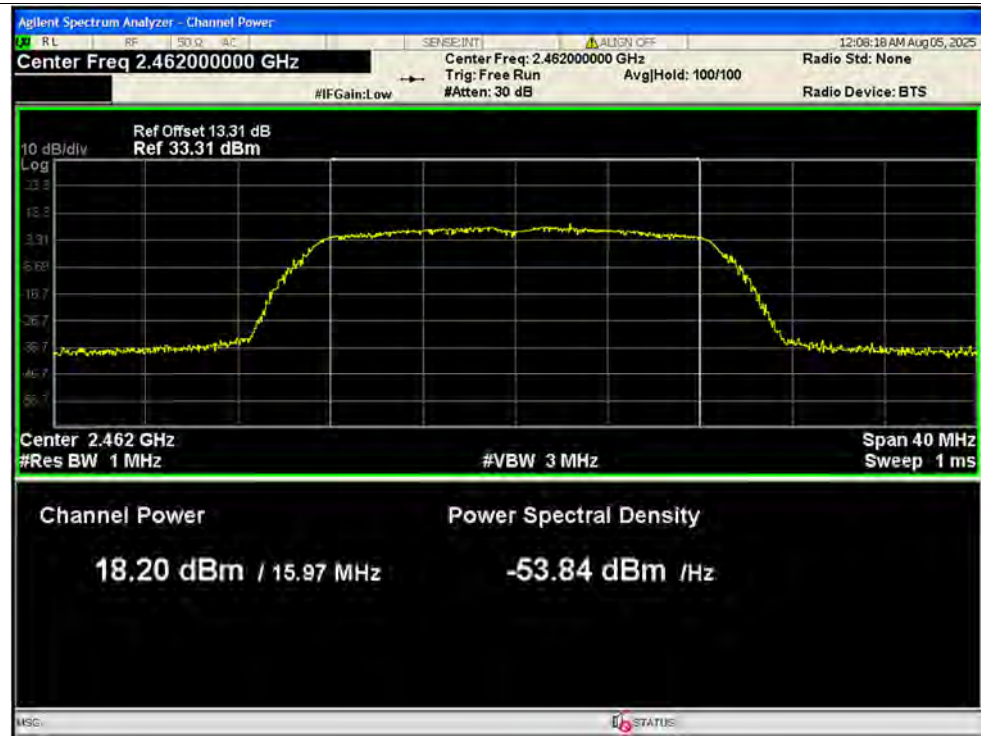
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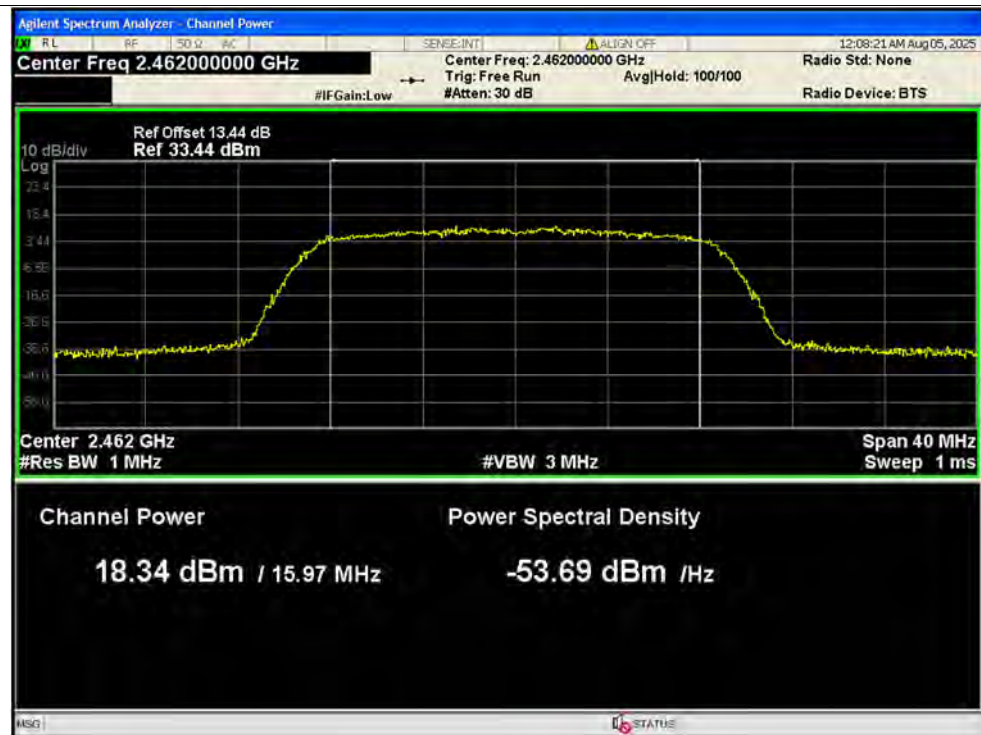
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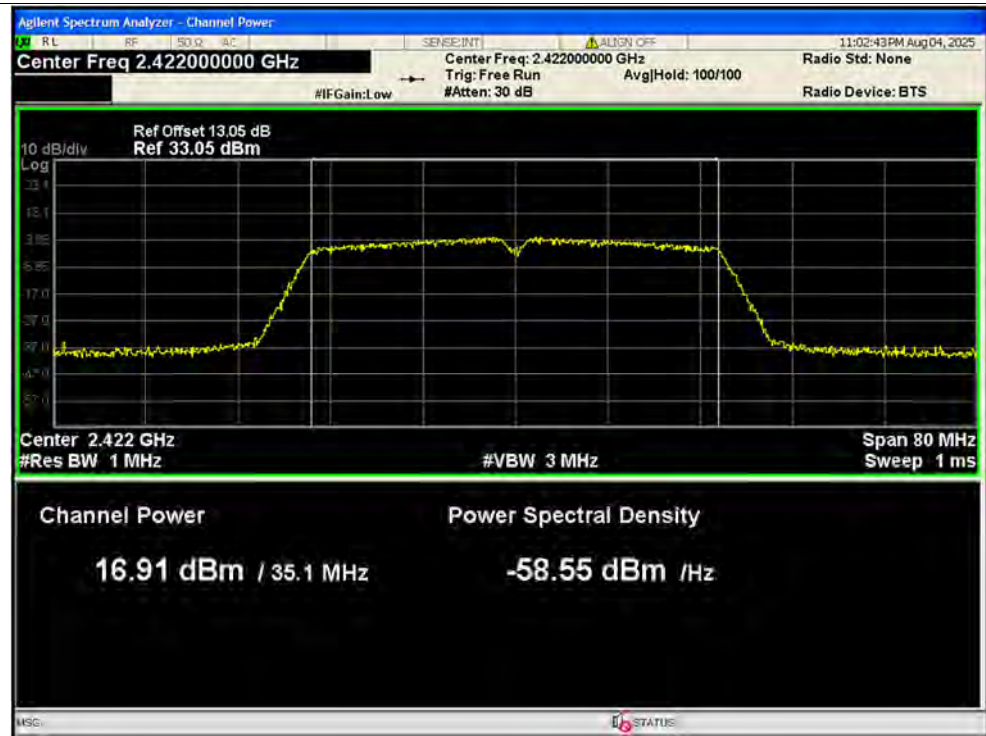
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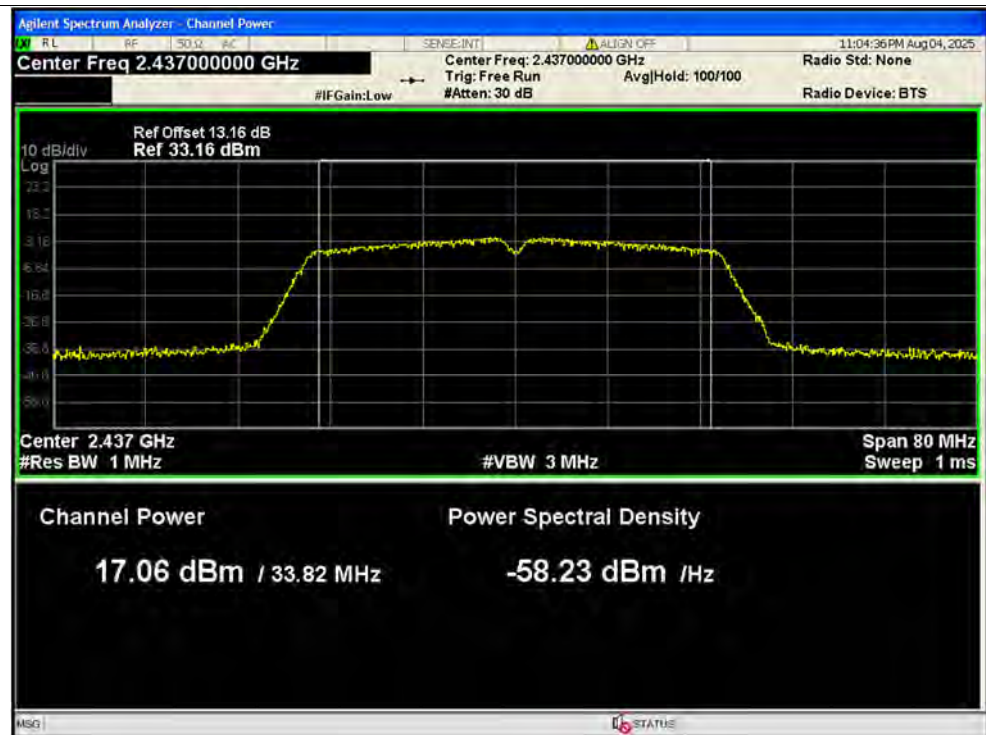
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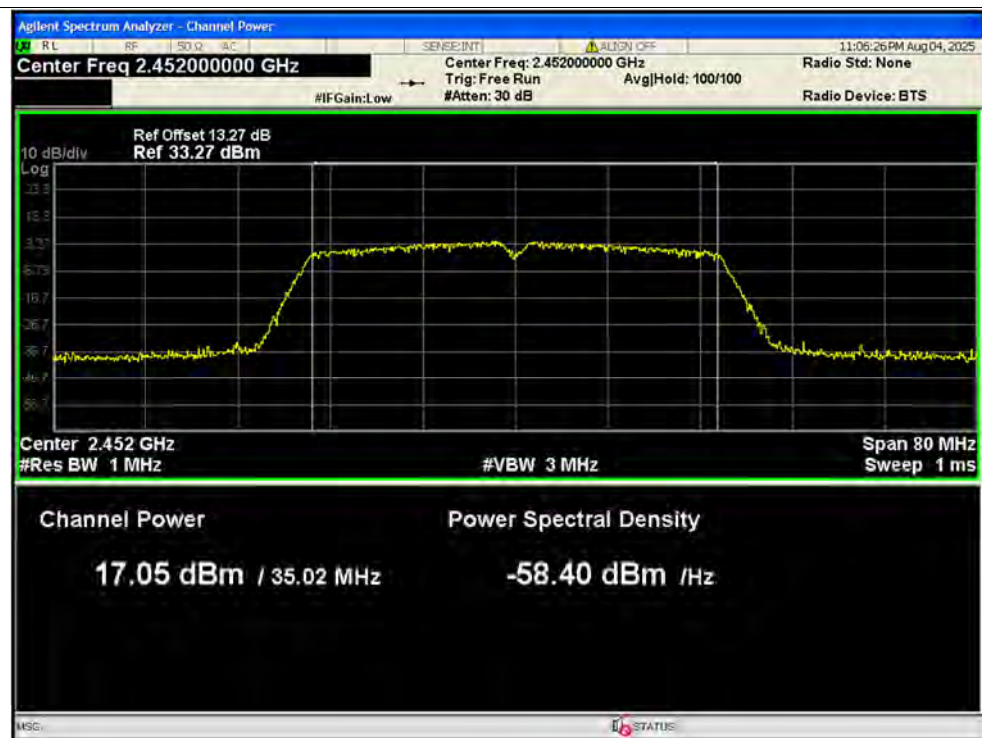
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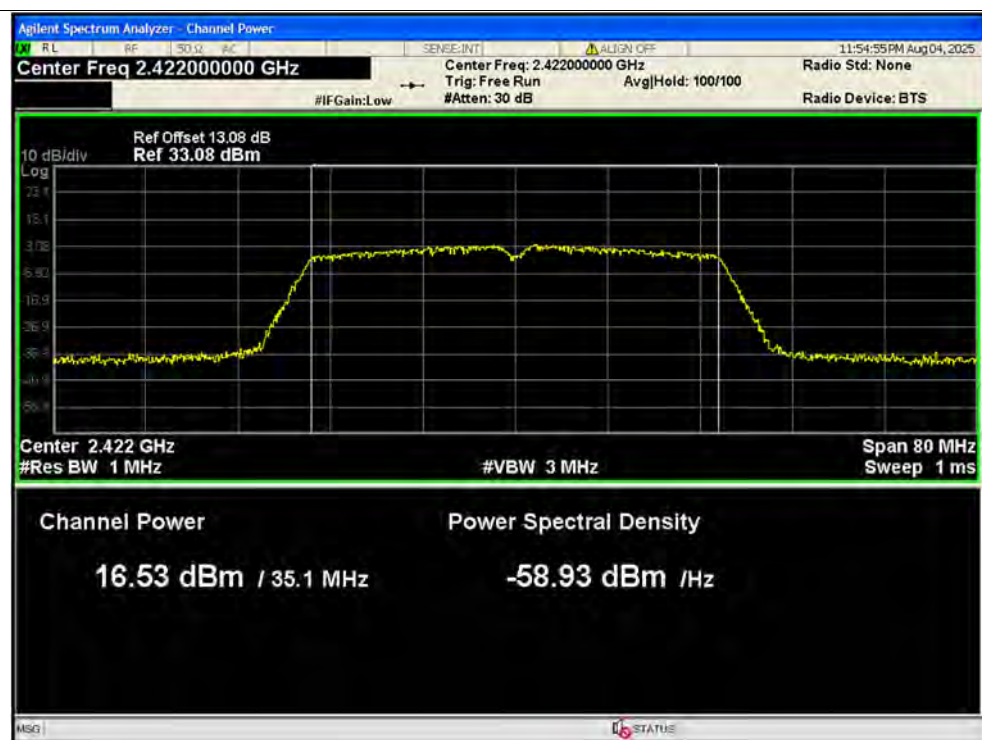
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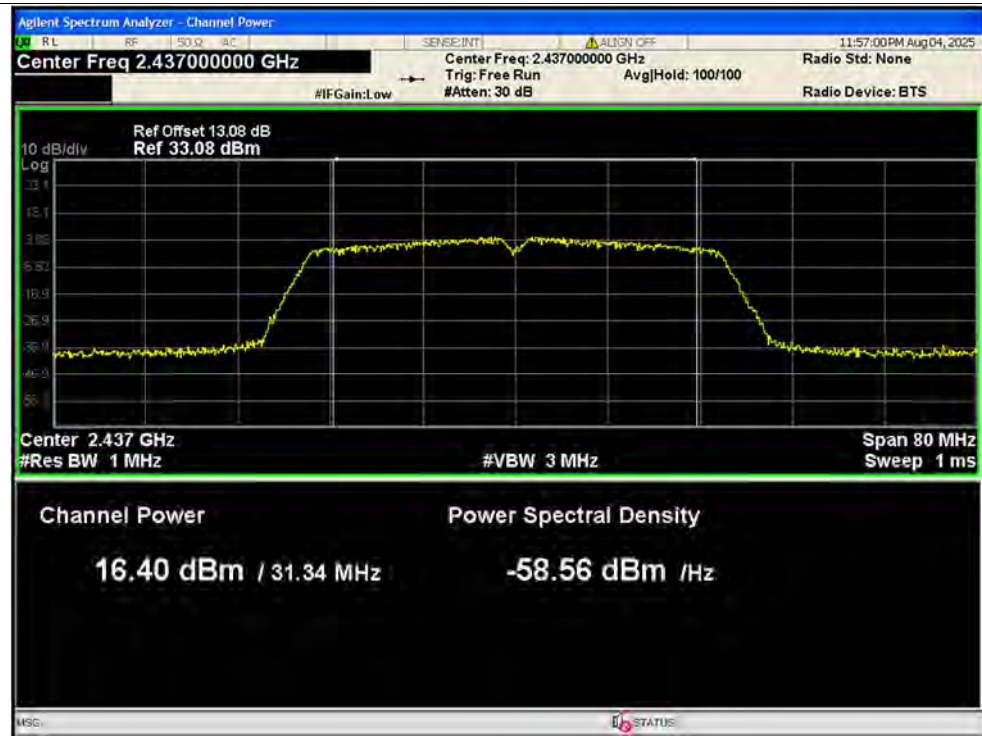
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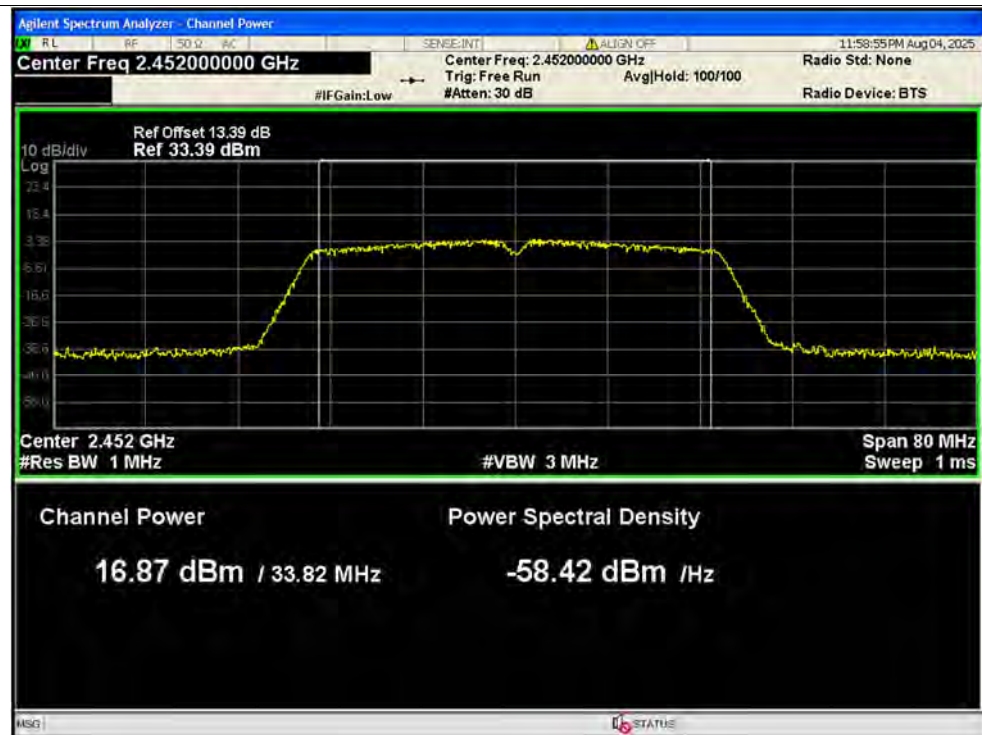
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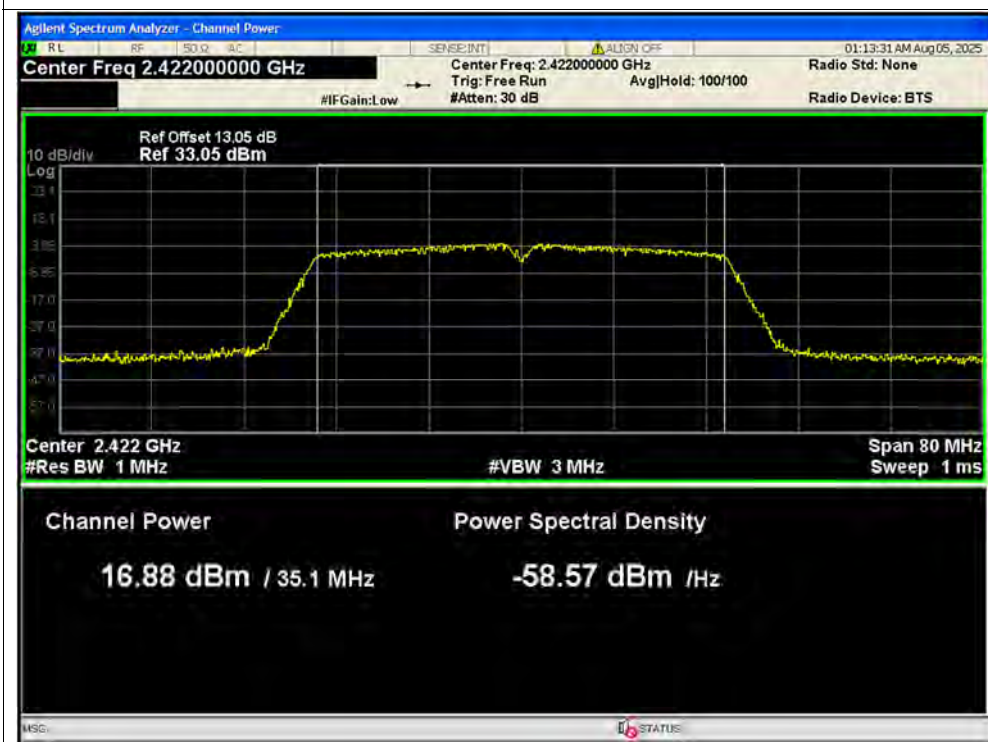
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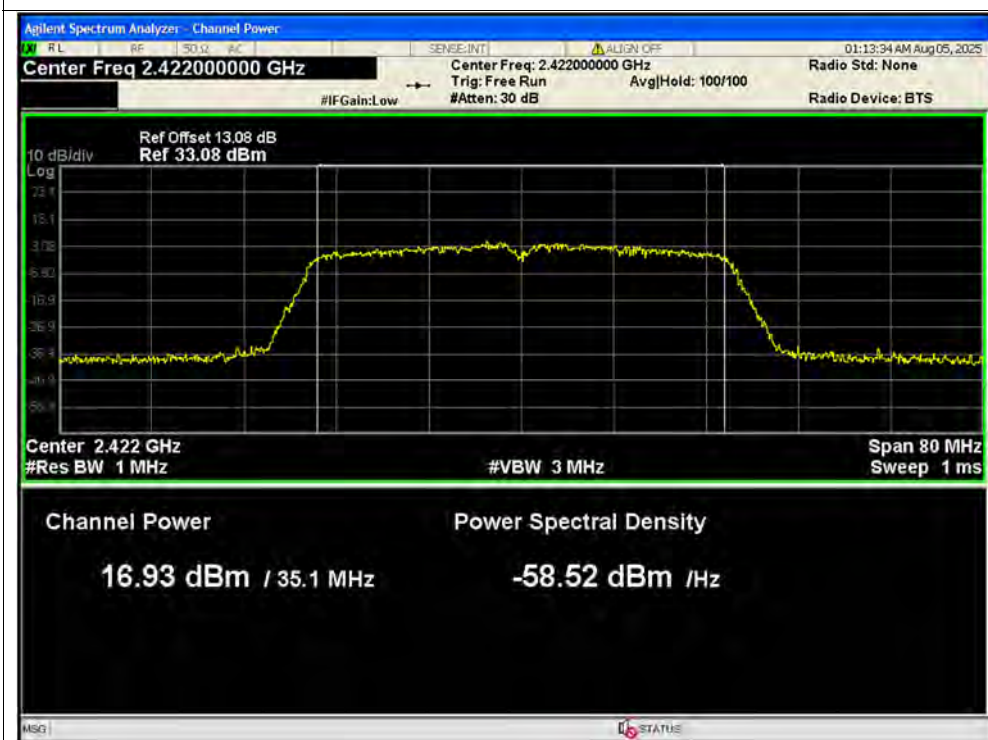
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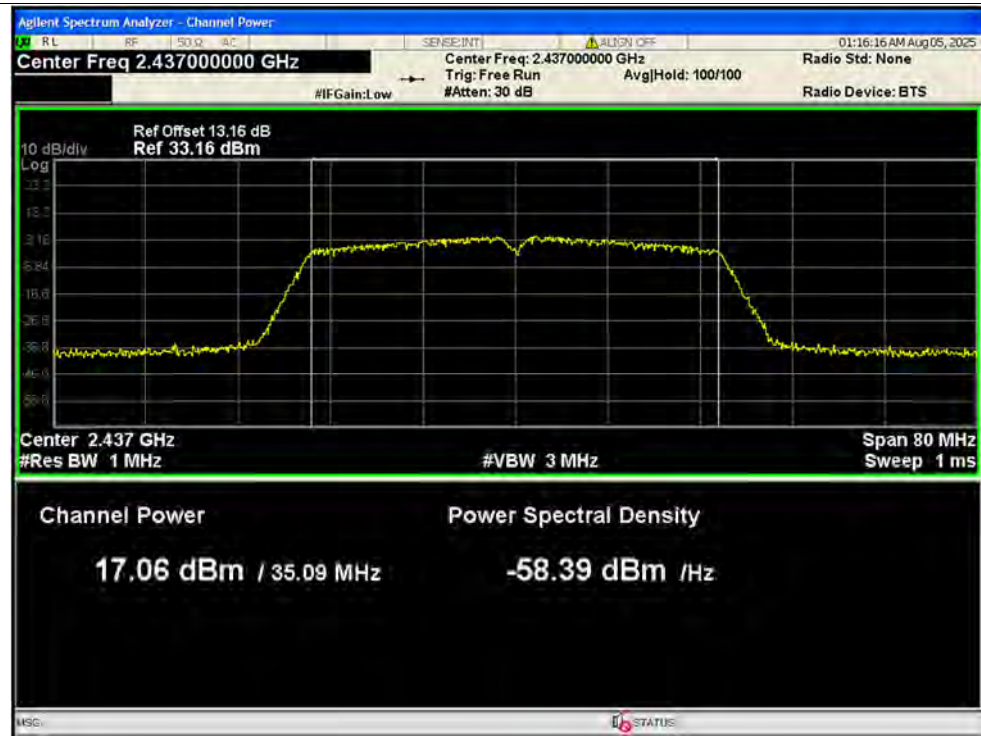
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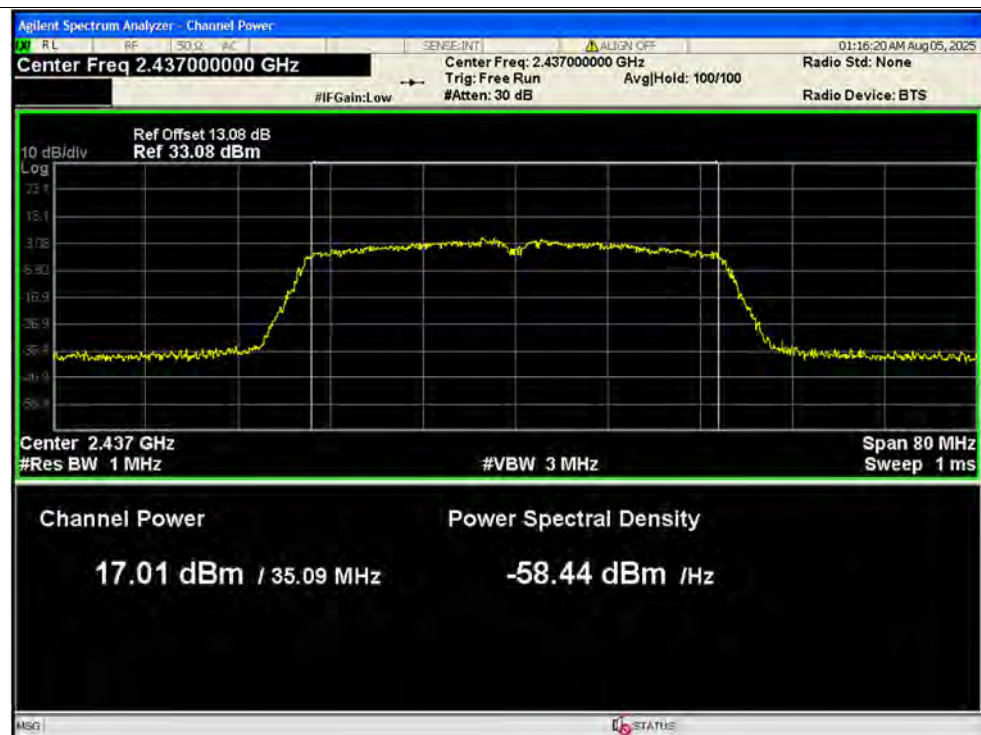
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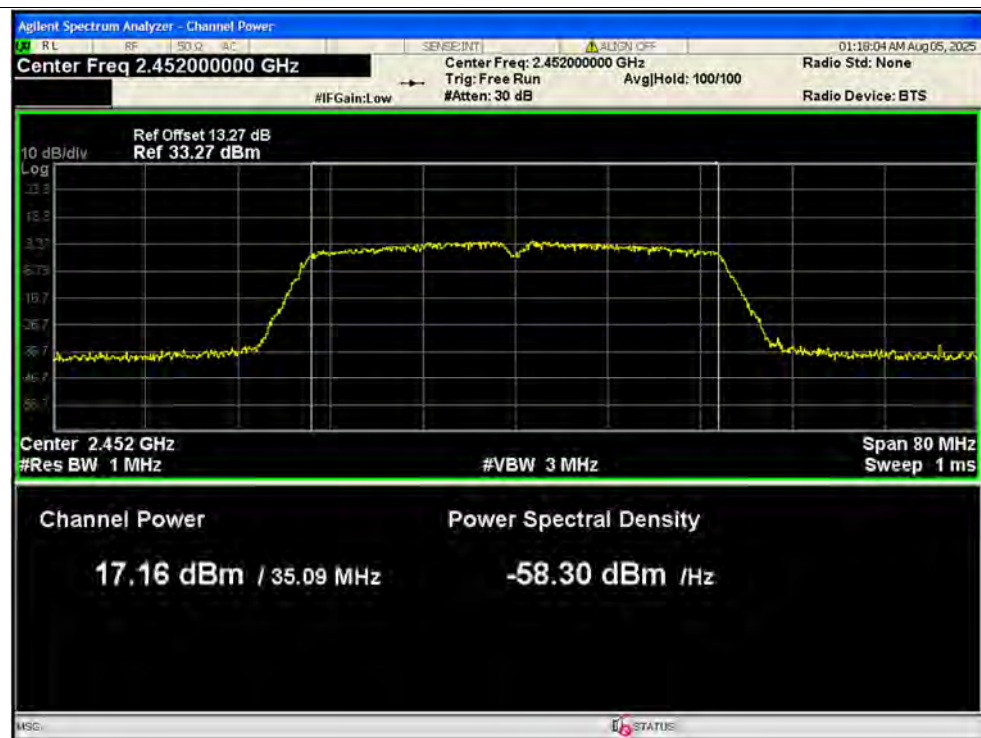
Peak Power NVNT n40 2437MHz Ant1 MIMO



Peak Power NVNT n40 2437MHz Ant2 MIMO



Peak Power NVNT n40 2452MHz Ant1 MIMO



Peak Power NVNT n40 2452MHz Ant2 MIMO



**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	12.14	0.02	12.16	0.01644	30	Pass
b SISO	2437	Ant1	12.53	0.02	12.55	0.01799	30	Pass
b SISO	2462	Ant1	12.33	0.02	12.35	0.01718	30	Pass
b SISO	2412	Ant2	12.79	0.02	12.81	0.0191	30	Pass
b SISO	2437	Ant2	13.13	0.02	13.15	0.02065	30	Pass
b SISO	2462	Ant2	13.18	0.02	13.2	0.02089	30	Pass
g SISO	2412	Ant1	11.2	0.16	11.36	0.01368	30	Pass
g SISO	2437	Ant1	11.26	0.16	11.42	0.01387	30	Pass
g SISO	2462	Ant1	11.42	0.16	11.58	0.01439	30	Pass
g SISO	2412	Ant2	12.02	0.16	12.18	0.01652	30	Pass
g SISO	2437	Ant2	12.19	0.17	12.36	0.01722	30	Pass
g SISO	2462	Ant2	12.34	0.16	12.5	0.01778	30	Pass
n20 SISO	2412	Ant1	10.26	0.17	10.43	0.01104	30	Pass
n20 SISO	2437	Ant1	10.45	0.18	10.63	0.01156	30	Pass
n20 SISO	2462	Ant1	10.53	0.18	10.71	0.01178	30	Pass
n20 SISO	2412	Ant2	10.99	0.18	11.17	0.01309	30	Pass
n20 SISO	2437	Ant2	10.96	0.17	11.13	0.01297	30	Pass
n20 SISO	2462	Ant2	11.18	0.18	11.36	0.01368	30	Pass
n20 MIMO	2412	Ant1	10.49	0.18	10.67	0.01167	30	Pass
n20 MIMO	2412	Ant2	10.42	0.18	10.6	0.01148	30	Pass
n20 MIMO	2412	Sum	NaN	NaN	13.65	0.02315	27.94	Pass
n20 MIMO	2437	Ant1	10.5	0.17	10.67	0.01167	30	Pass
n20 MIMO	2437	Ant2	10.29	0.17	10.46	0.01112	30	Pass
n20 MIMO	2437	Sum	NaN	NaN	13.58	0.02279	27.94	Pass
n20 MIMO	2462	Ant1	10.72	0.16	10.88	0.01225	30	Pass
n20 MIMO	2462	Ant2	10.63	0.16	10.79	0.01199	30	Pass
n20 MIMO	2462	Sum	NaN	NaN	13.85	0.02424	27.94	Pass
n40 SISO	2422	Ant1	9.5	0.34	9.84	0.00964	30	Pass
n40 SISO	2437	Ant1	9.67	0.34	10.01	0.01002	30	Pass
n40 SISO	2452	Ant1	9.62	0.34	9.96	0.00991	30	Pass
n40 SISO	2422	Ant2	9.08	0.34	9.42	0.00875	30	Pass
n40 SISO	2437	Ant2	9.32	0.34	9.66	0.00925	30	Pass
n40 SISO	2452	Ant2	9.57	0.34	9.91	0.00979	30	Pass



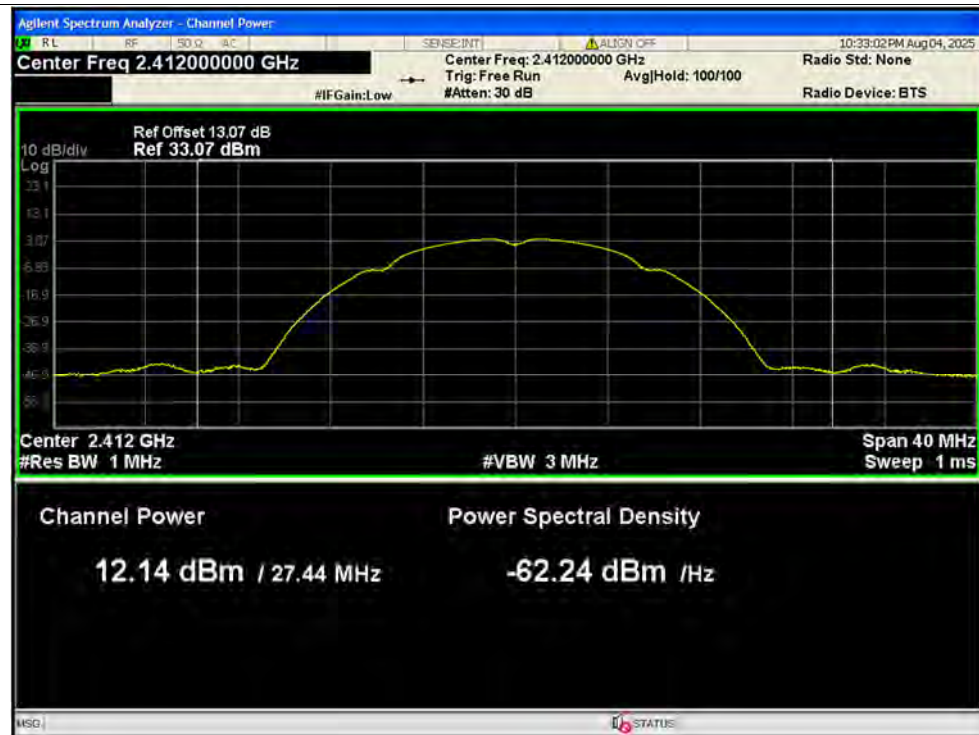
n40 MIMO	2422	Ant1	9.42	0.35	9.77	0.00948	30	Pass
n40 MIMO	2422	Ant2	9.18	0.35	9.53	0.00897	30	Pass
n40 MIMO	2422	Sum	NaN	NaN	12.66	0.01846	27.94	Pass
n40 MIMO	2437	Ant1	9.66	0.33	9.99	0.00998	30	Pass
n40 MIMO	2437	Ant2	9.2	0.33	9.53	0.00897	30	Pass
n40 MIMO	2437	Sum	NaN	NaN	12.78	0.01895	27.94	Pass
n40 MIMO	2452	Ant1	9.78	0.34	10.12	0.01028	30	Pass
n40 MIMO	2452	Ant2	9.56	0.34	9.9	0.00977	30	Pass
n40 MIMO	2452	Sum	NaN	NaN	13.02	0.02005	27.94	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 8.06\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to 30-(8.06-6) = 27.94dBm.

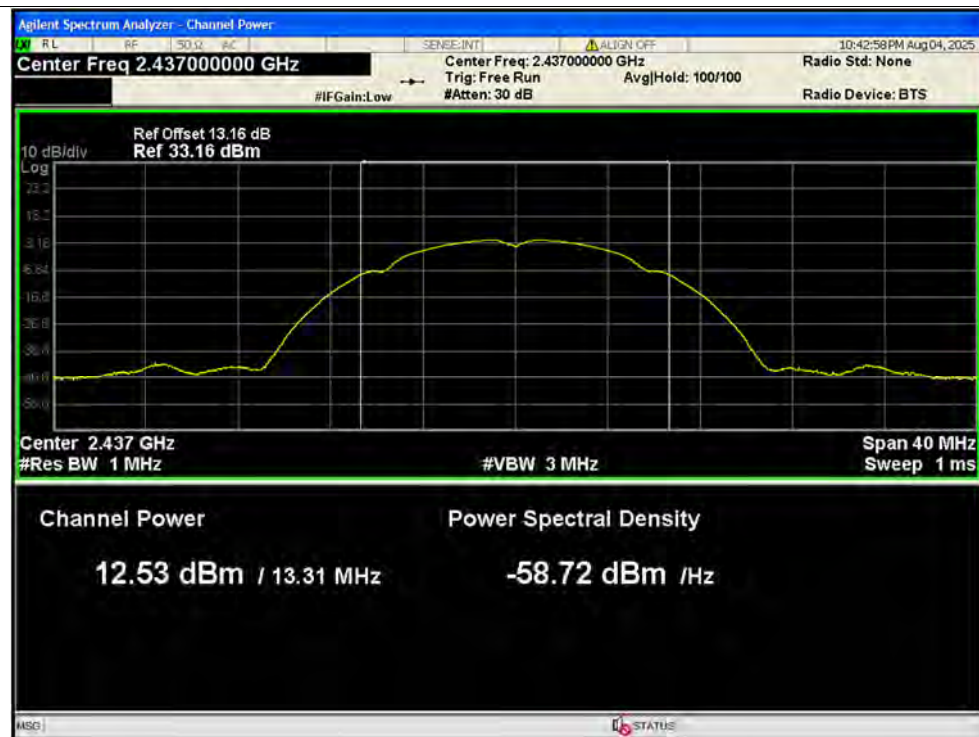


Test Graphs

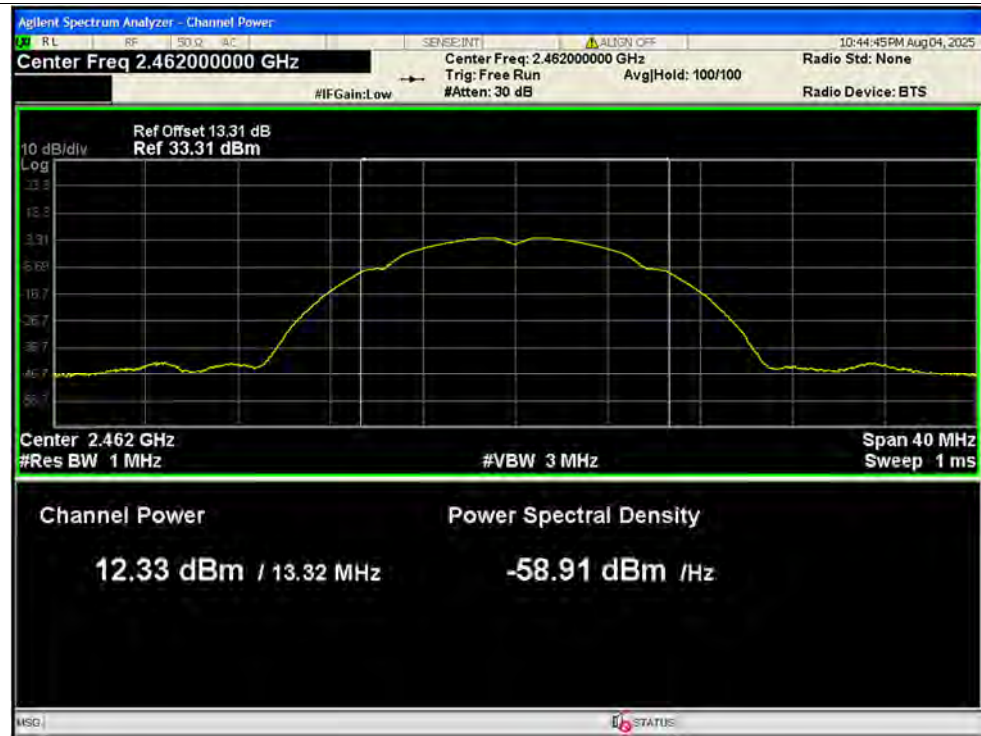
Average Power NVNT b 2412MHz Ant1 SISO



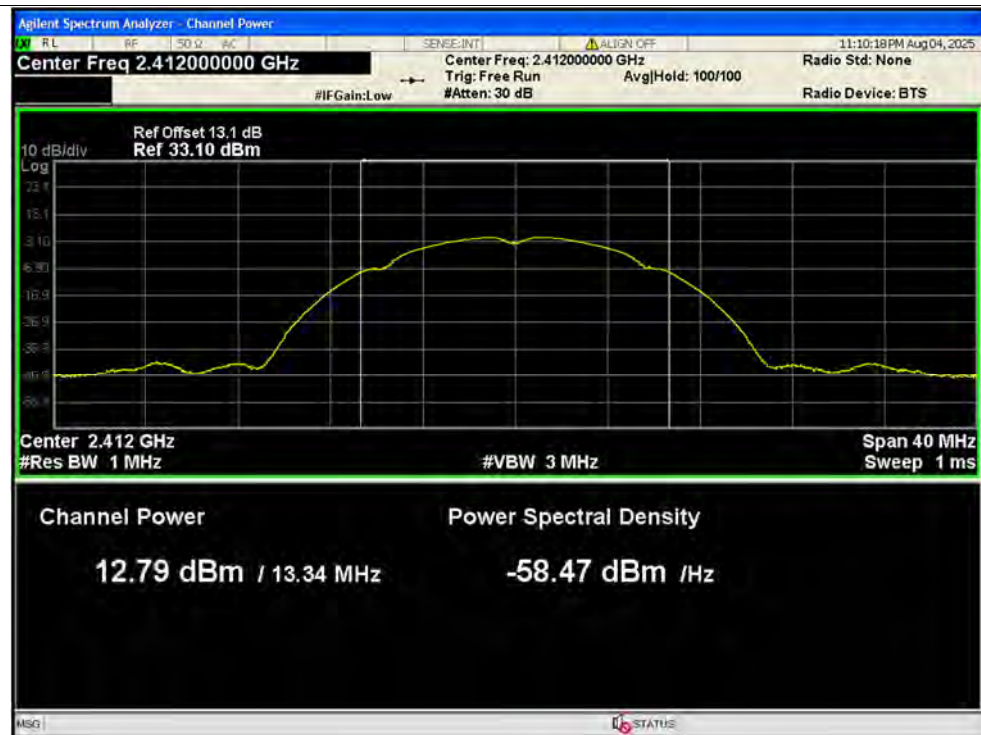
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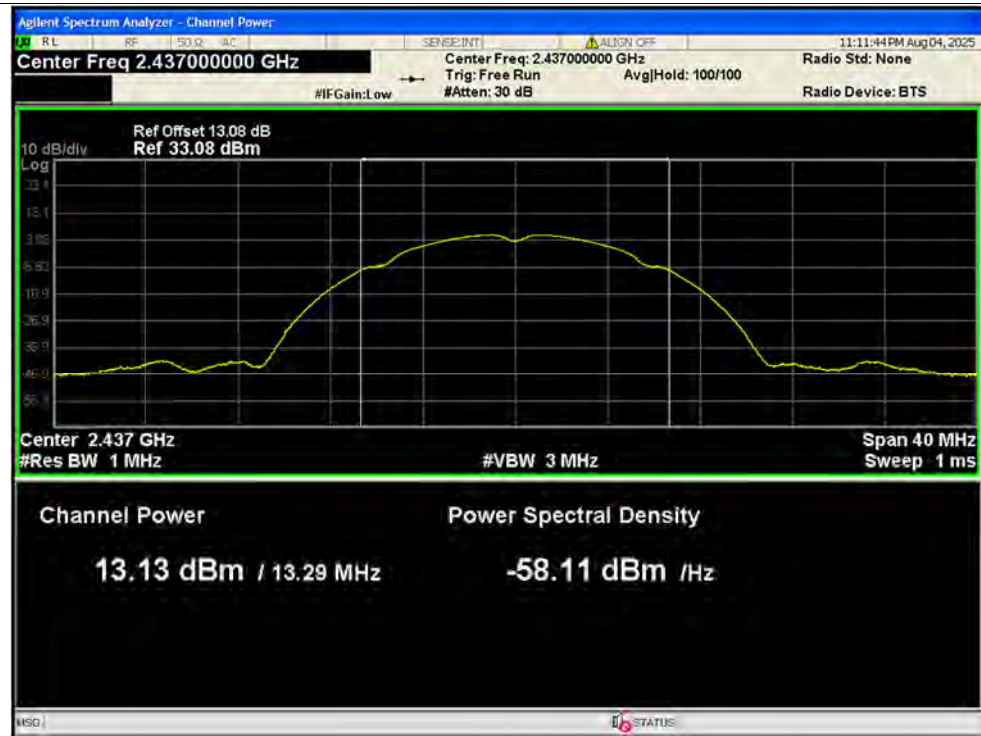
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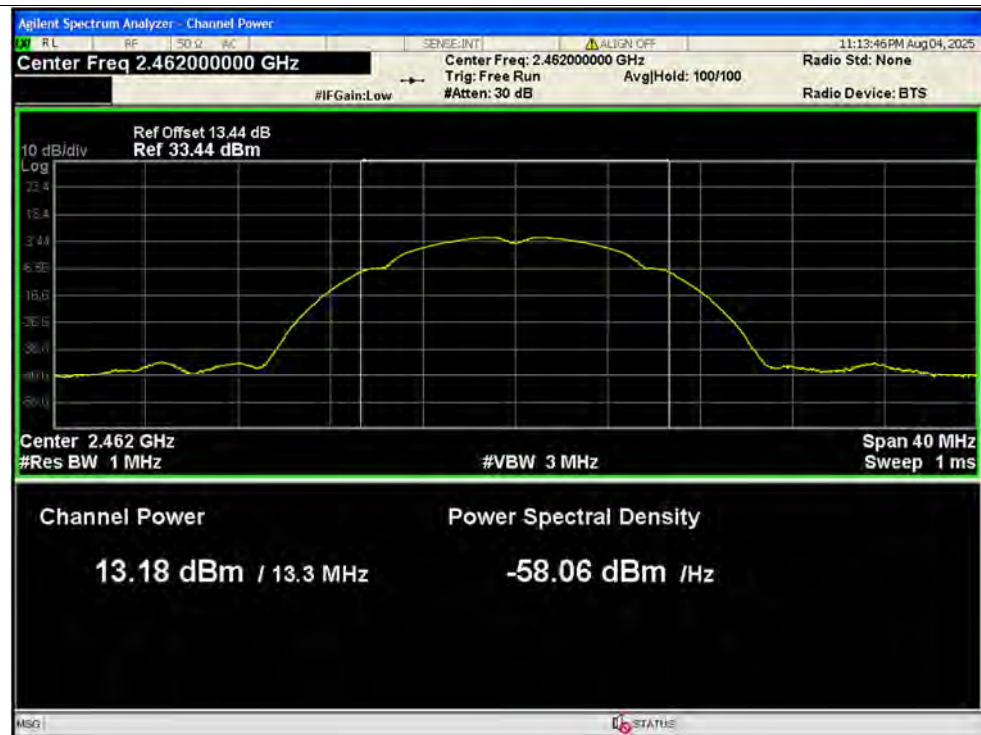
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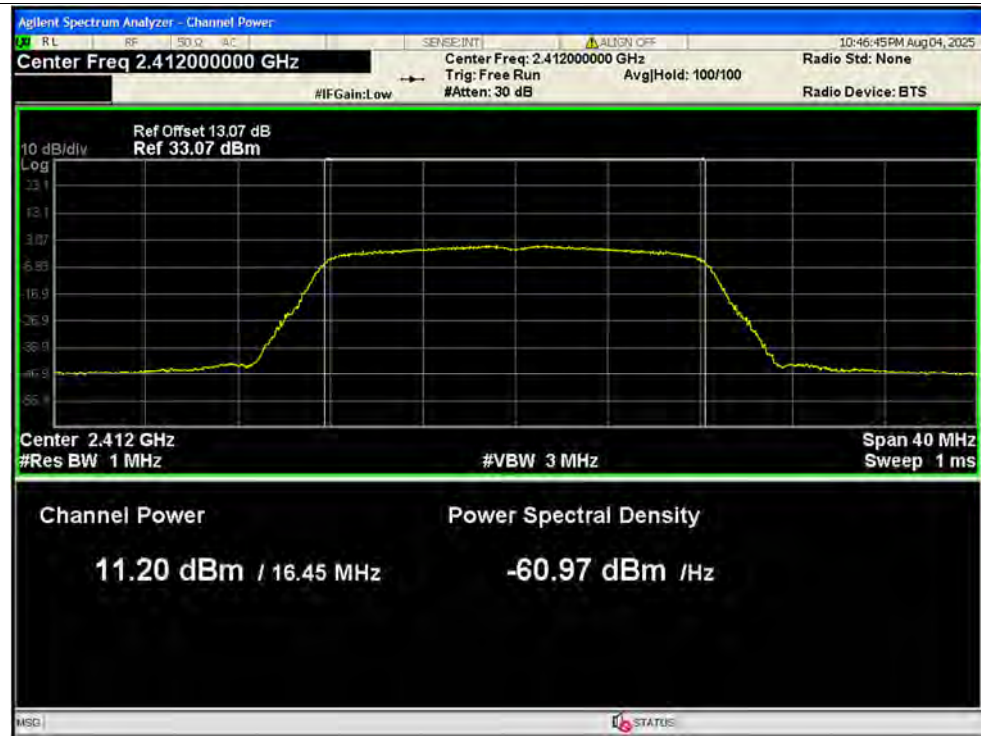
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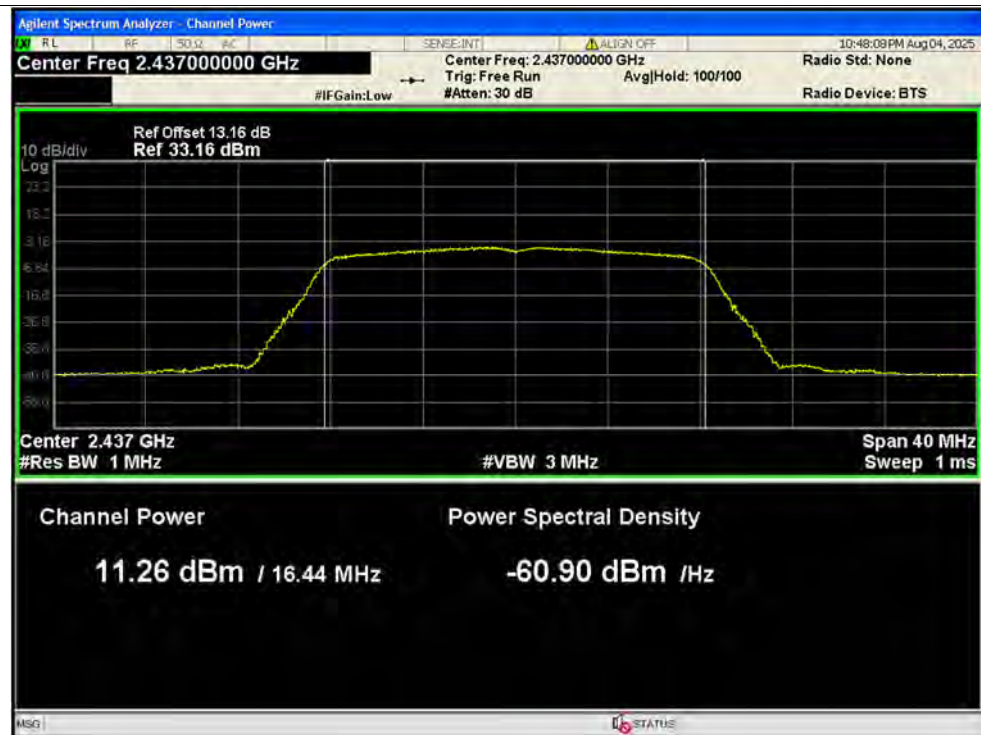
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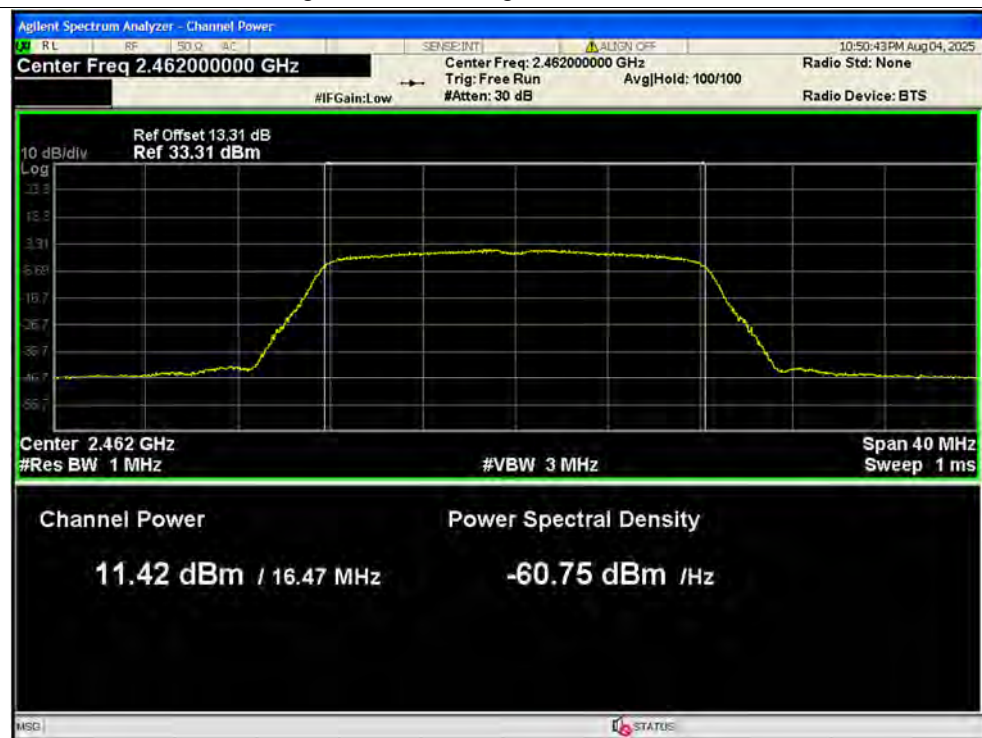


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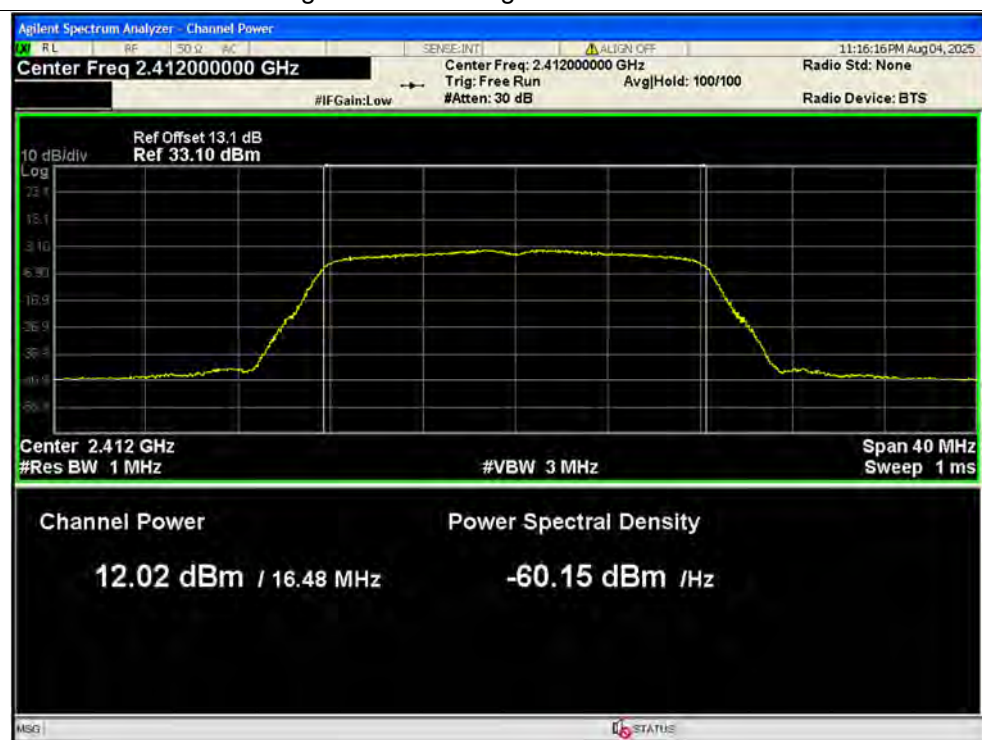




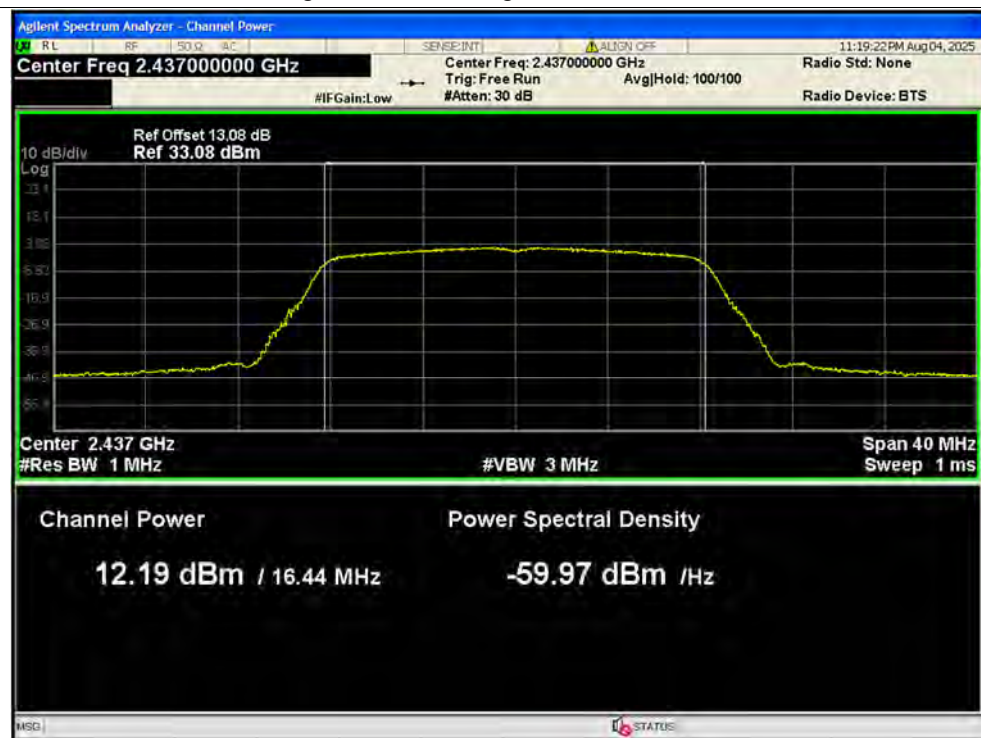
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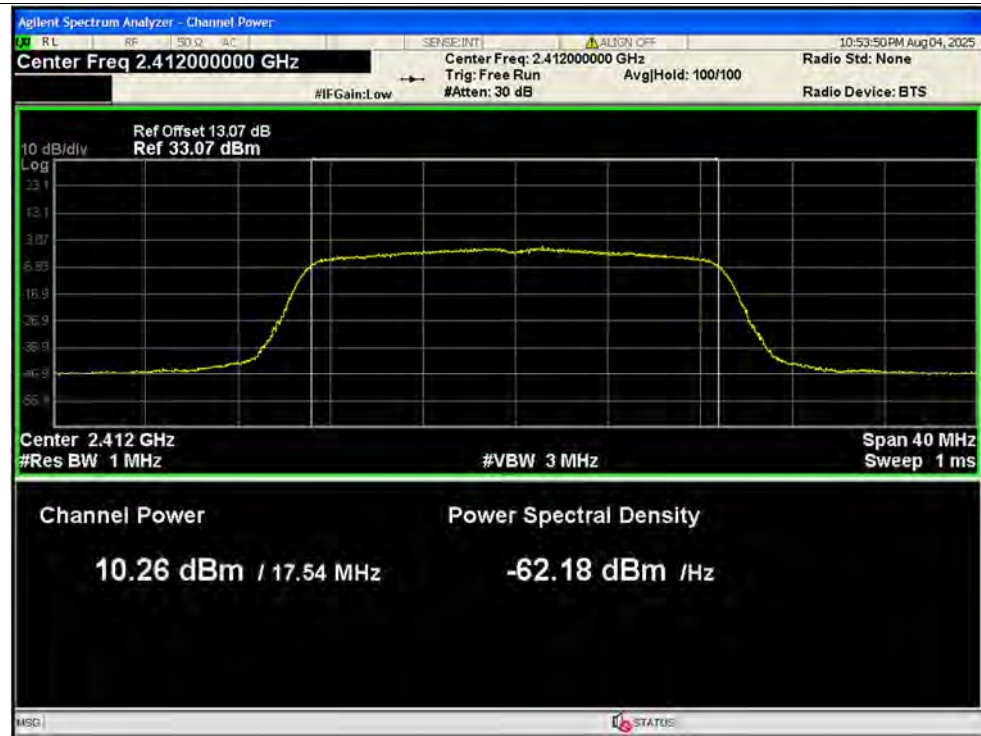
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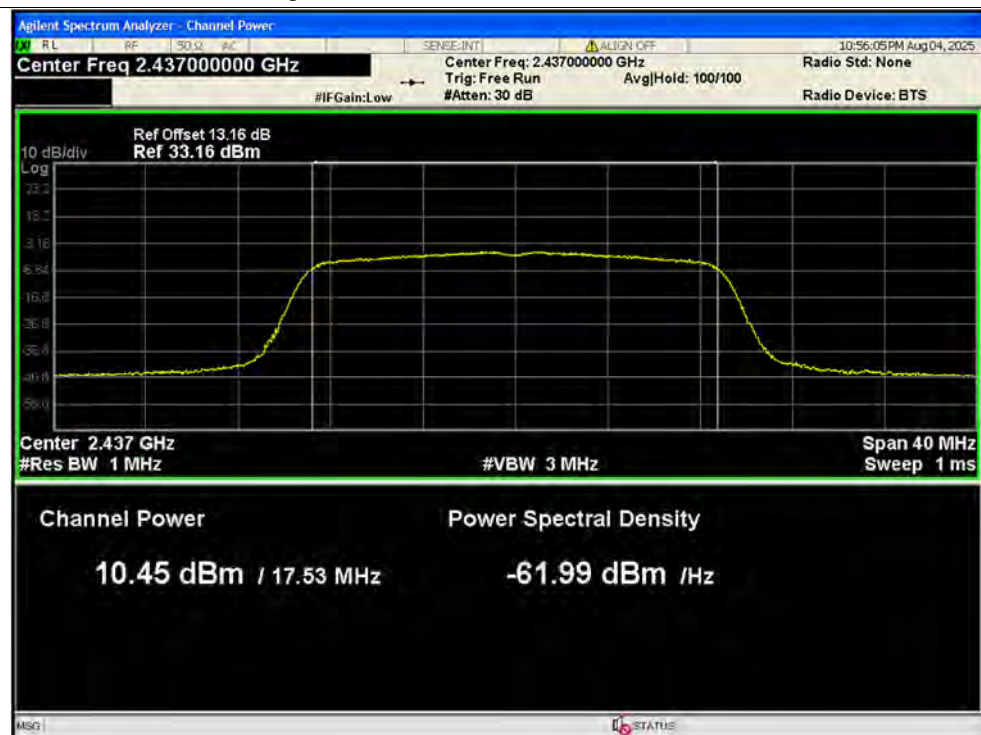
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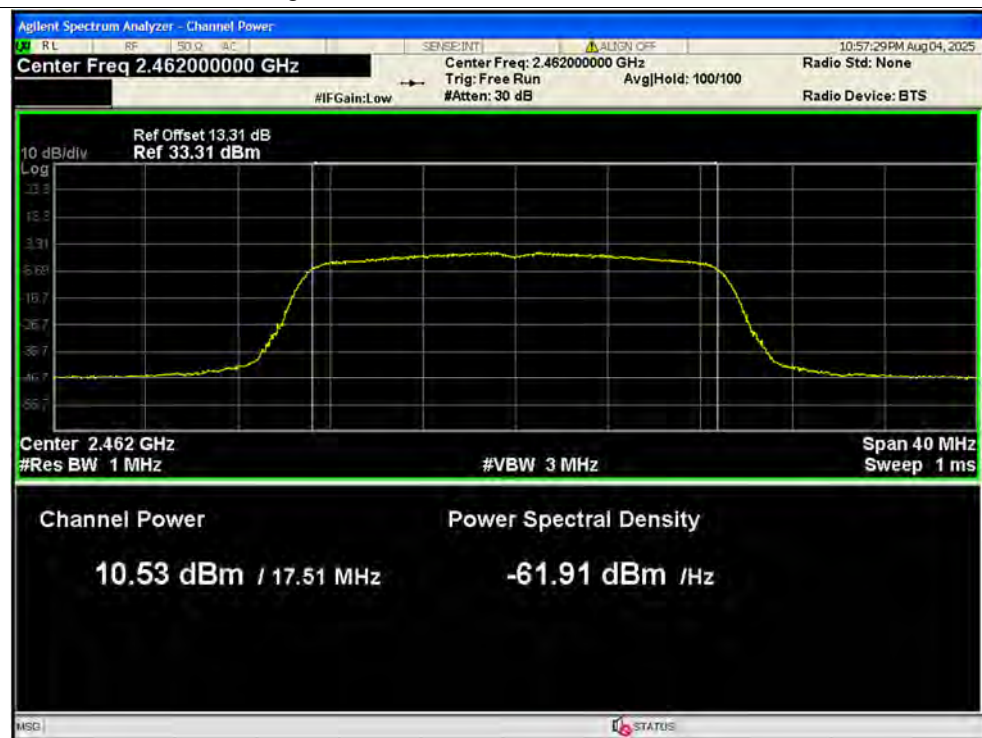
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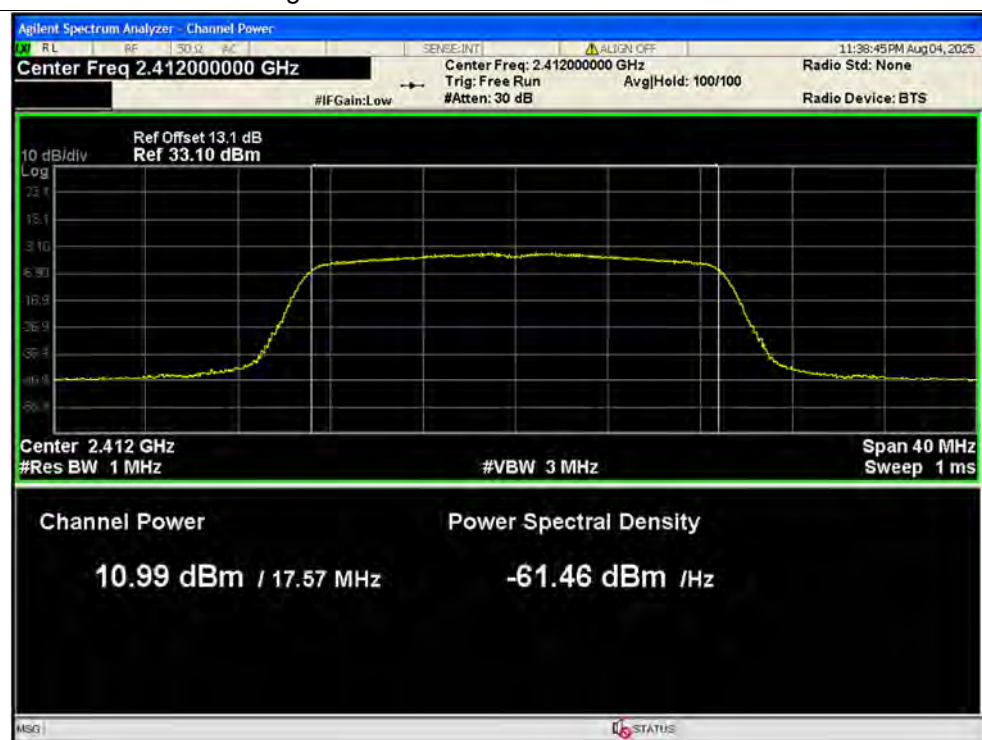
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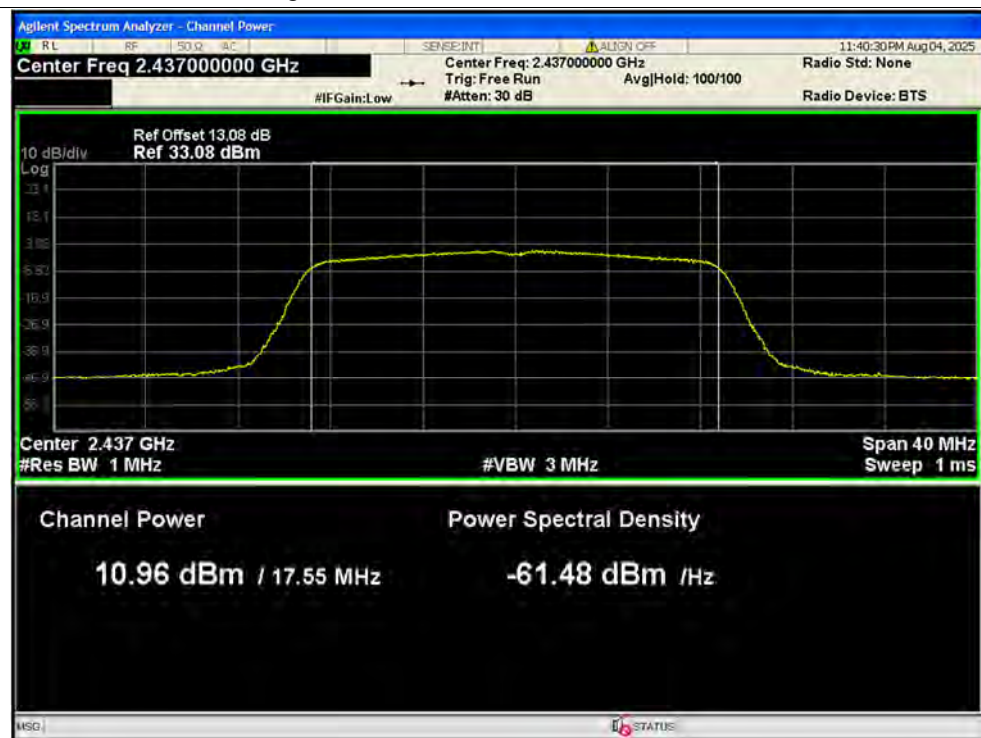
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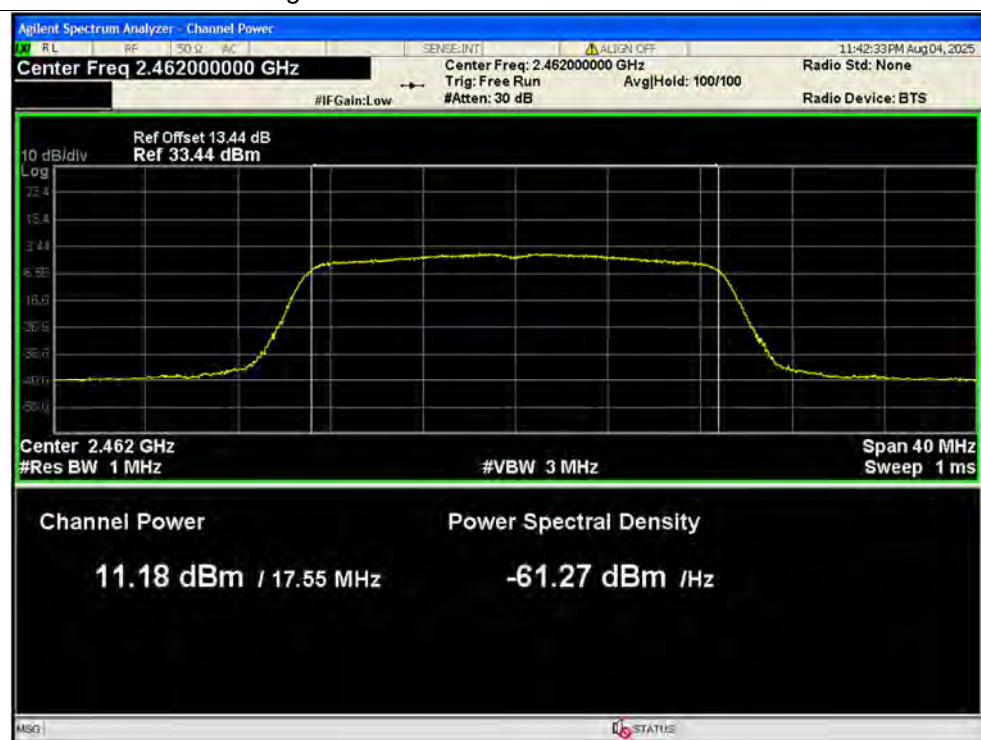
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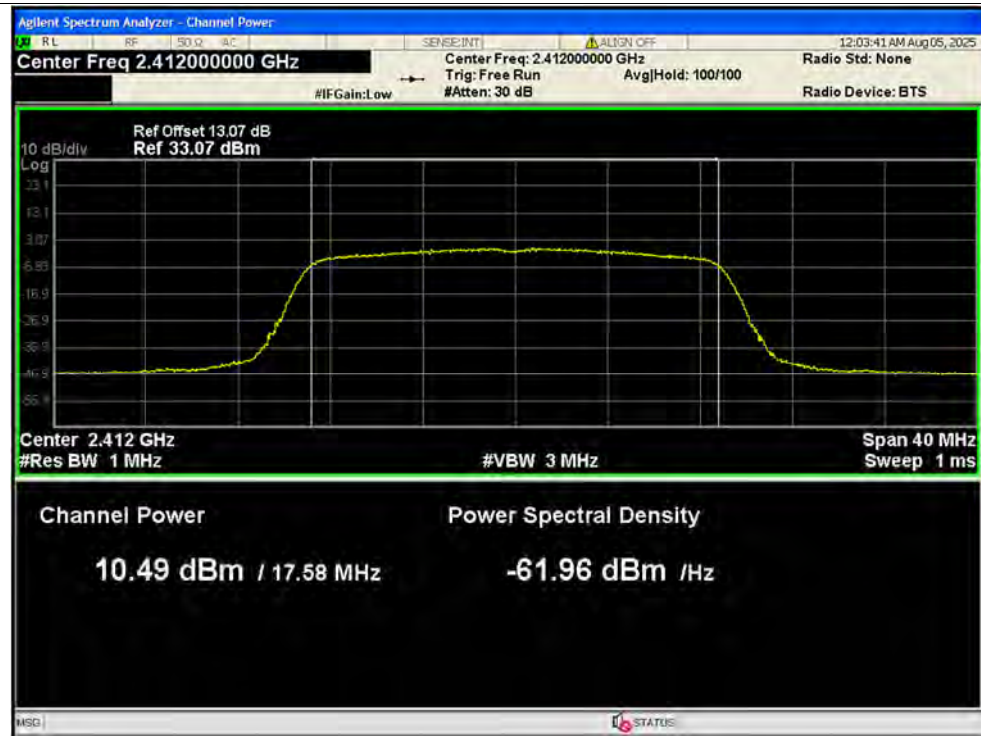
Average Power NVNT n20 2437MHz Ant2 SISO



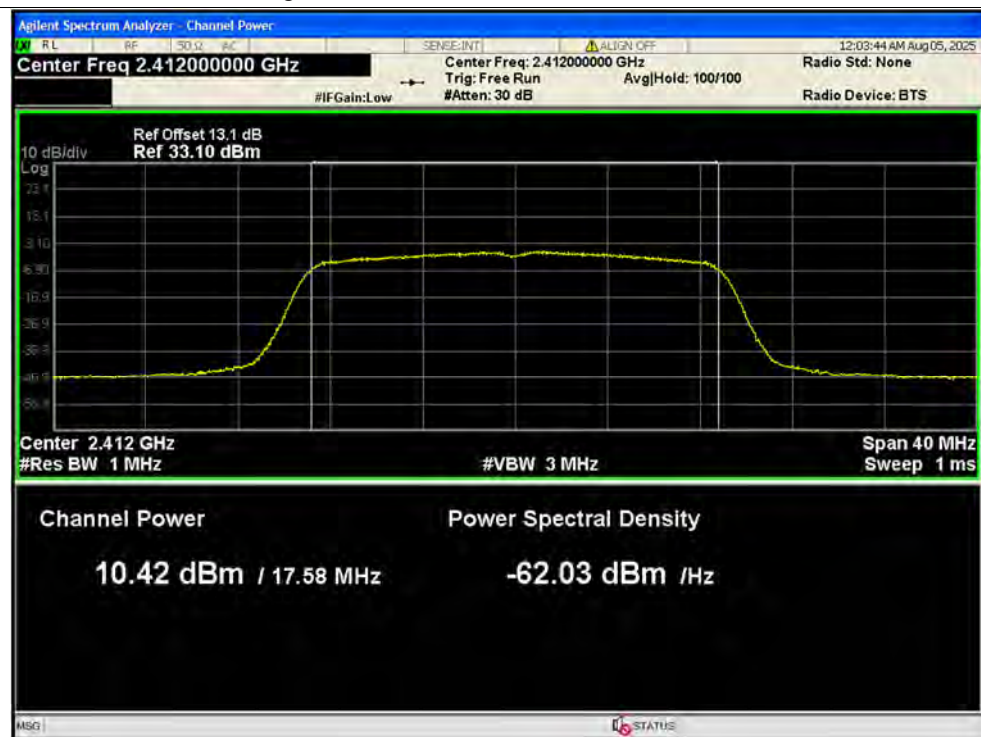
Average Power NVNT n20 2462MHz Ant2 SISO



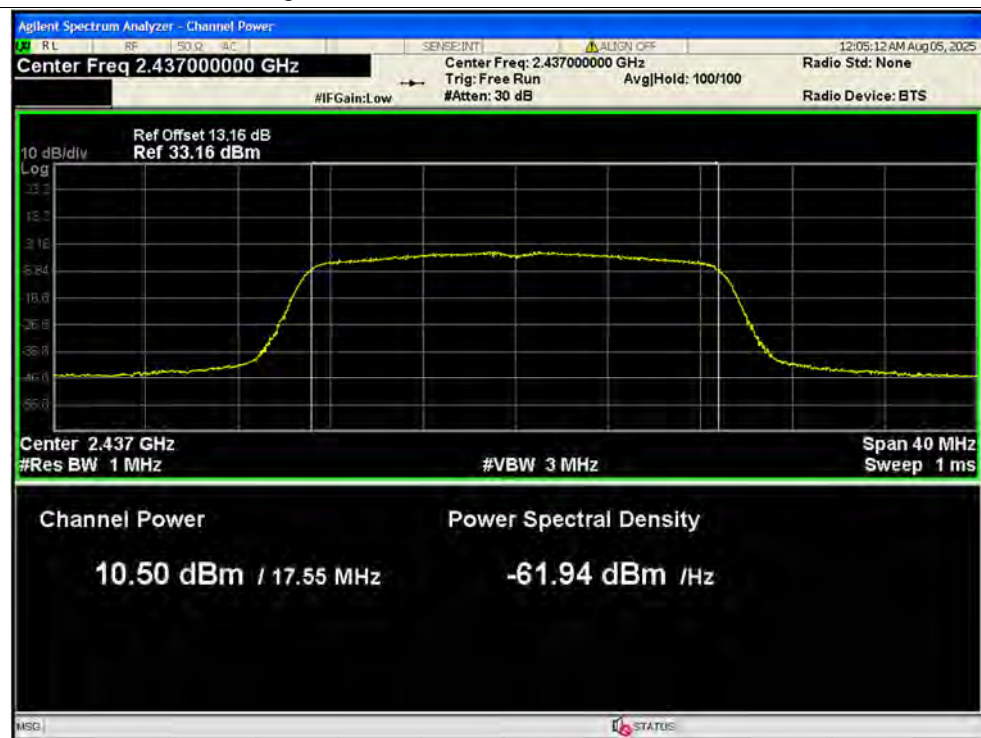
Average Power NVNT n20 2412MHz Ant1 MIMO



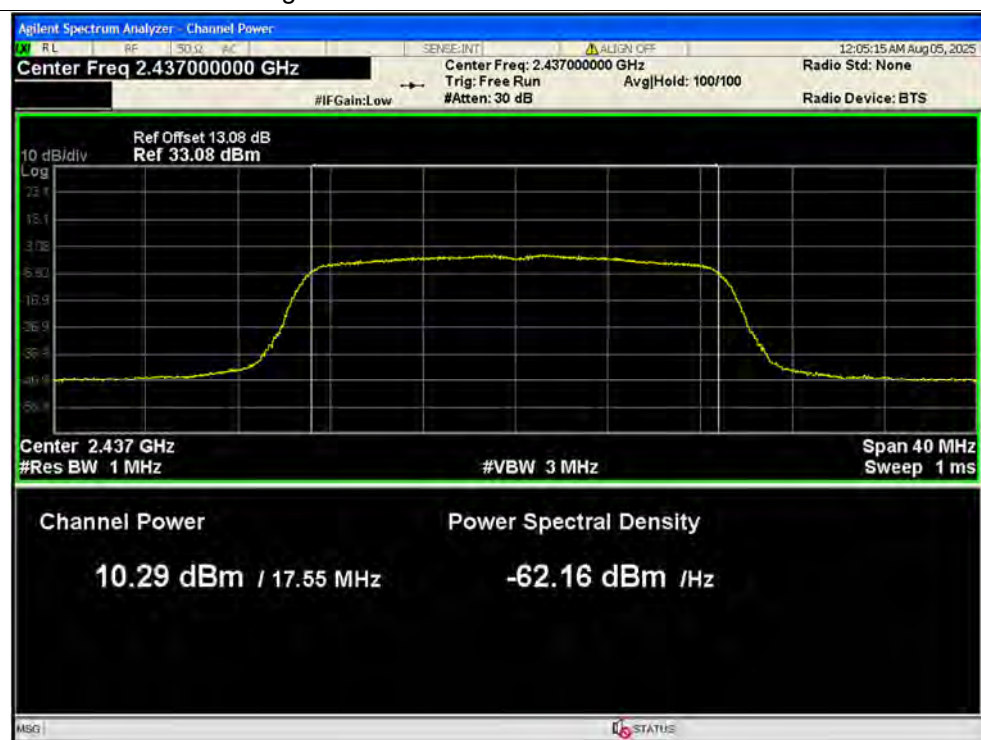
Average Power NVNT n20 2412MHz Ant2 MIMO



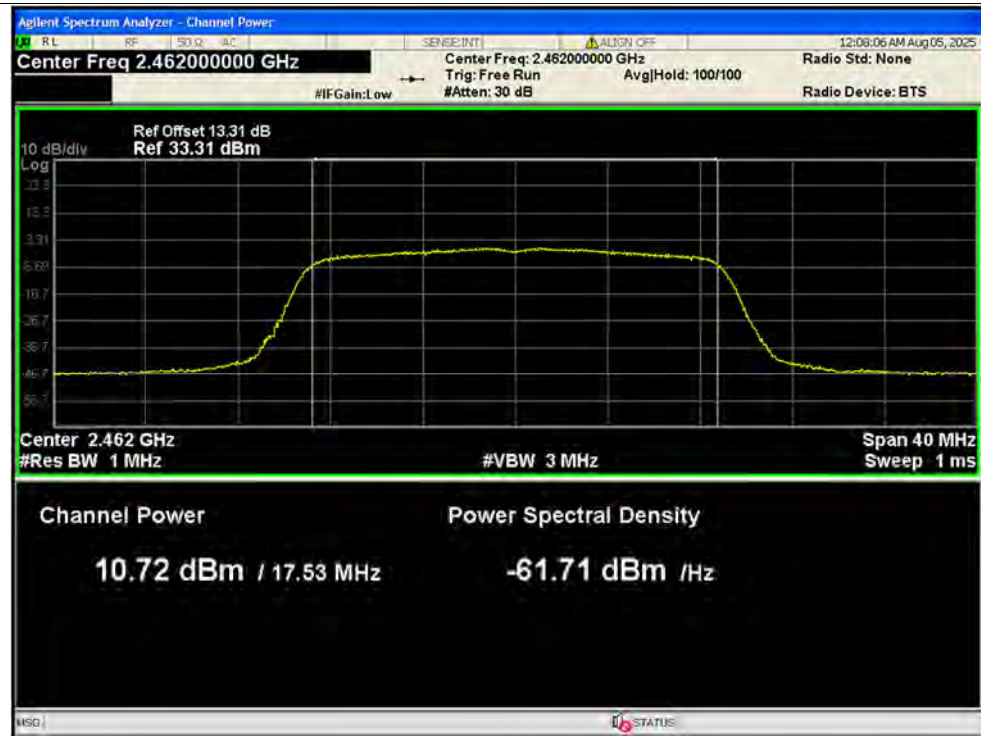
Average Power NVNT n20 2437MHz Ant1 MIMO



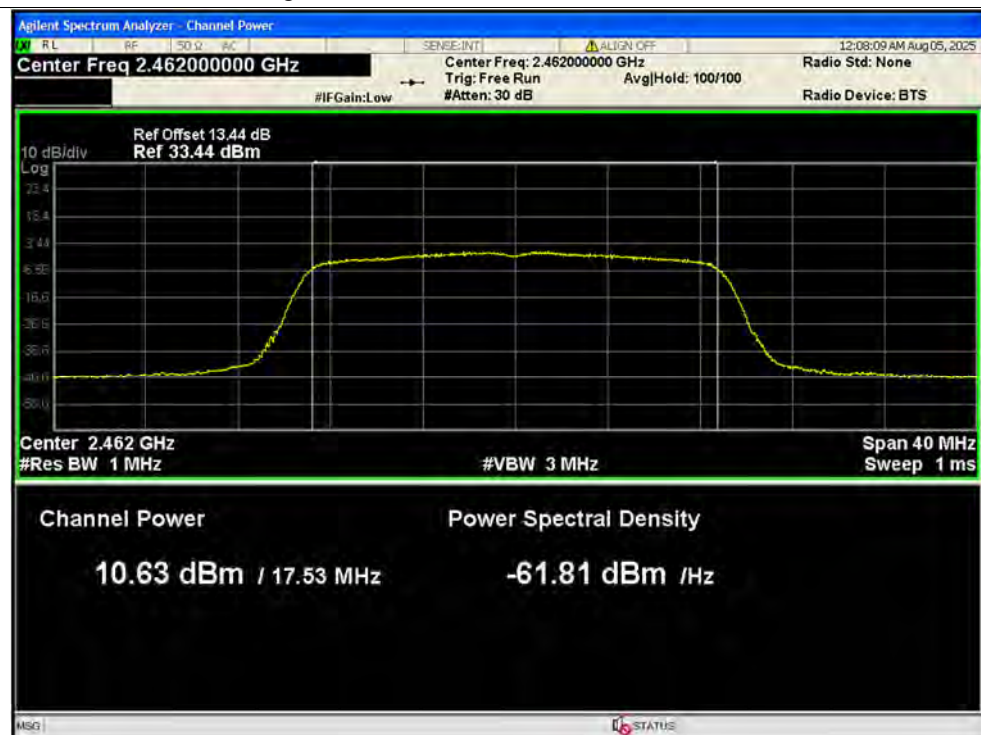
Average Power NVNT n20 2437MHz Ant2 MIMO



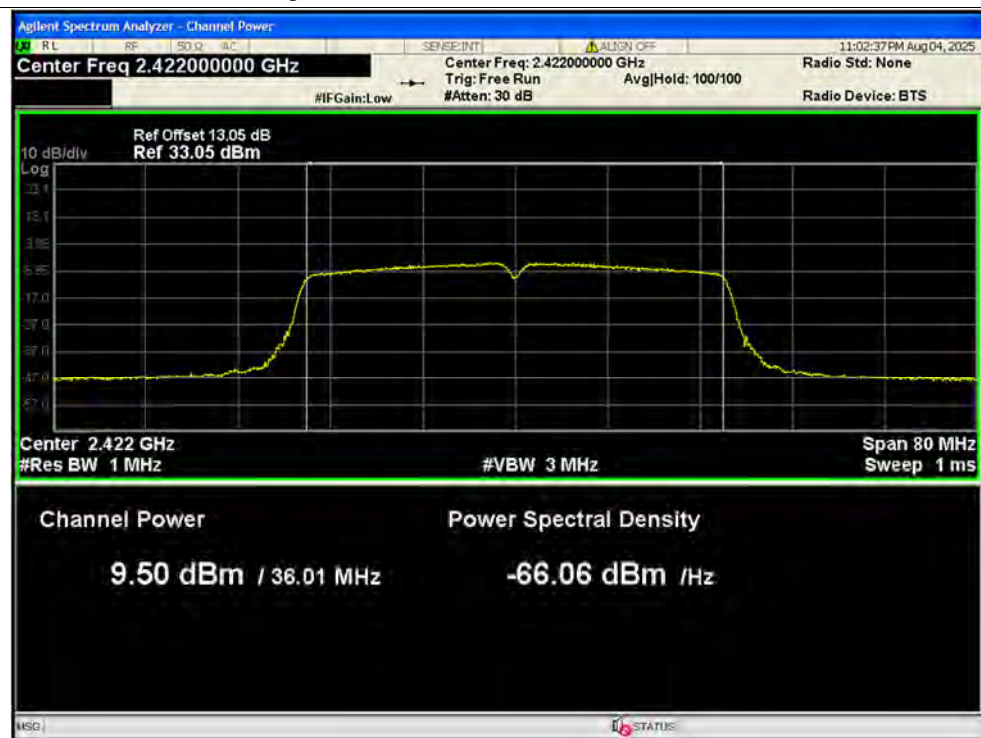
Average Power NVNT n20 2462MHz Ant1 MIMO



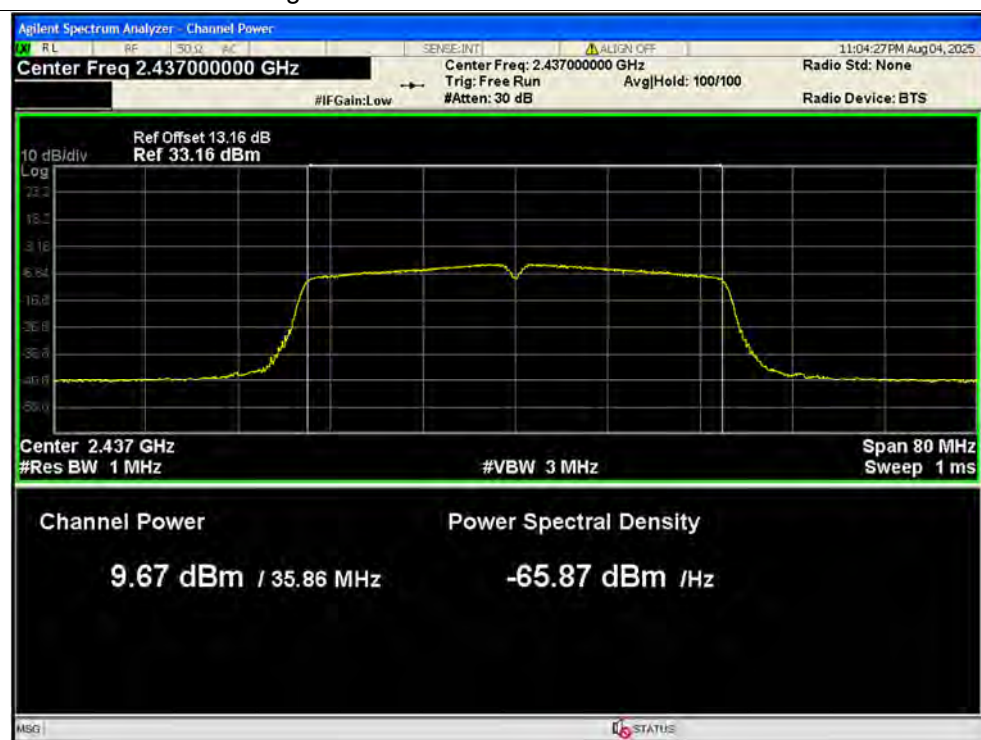
Average Power NVNT n20 2462MHz Ant2 MIMO



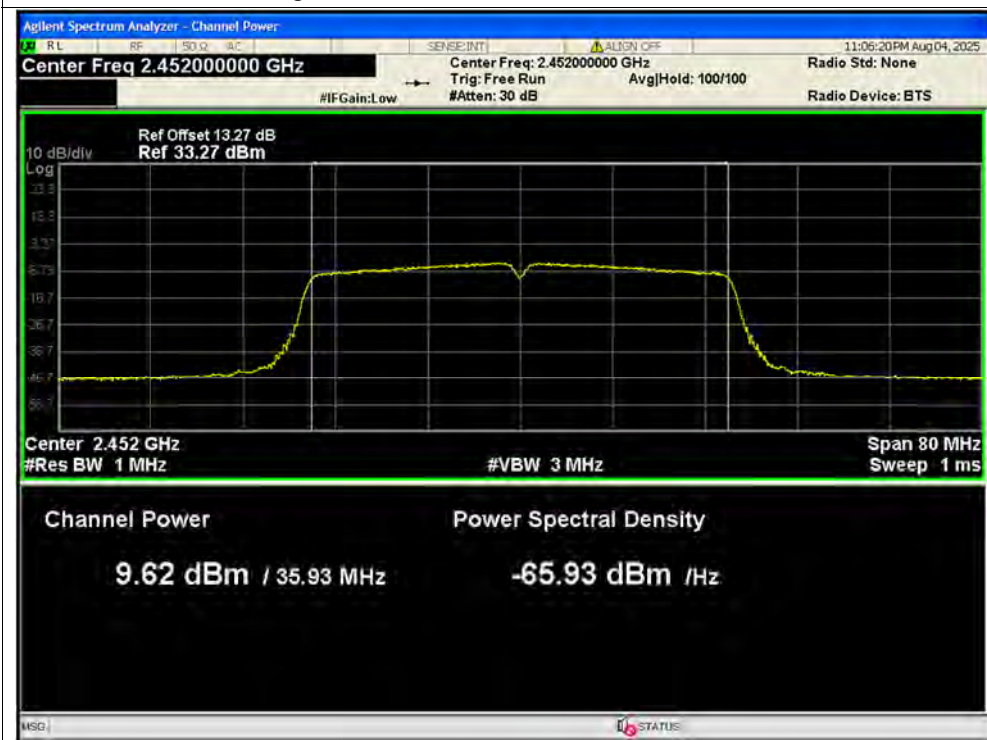
Average Power NVNT n40 2422MHz Ant1 SISO



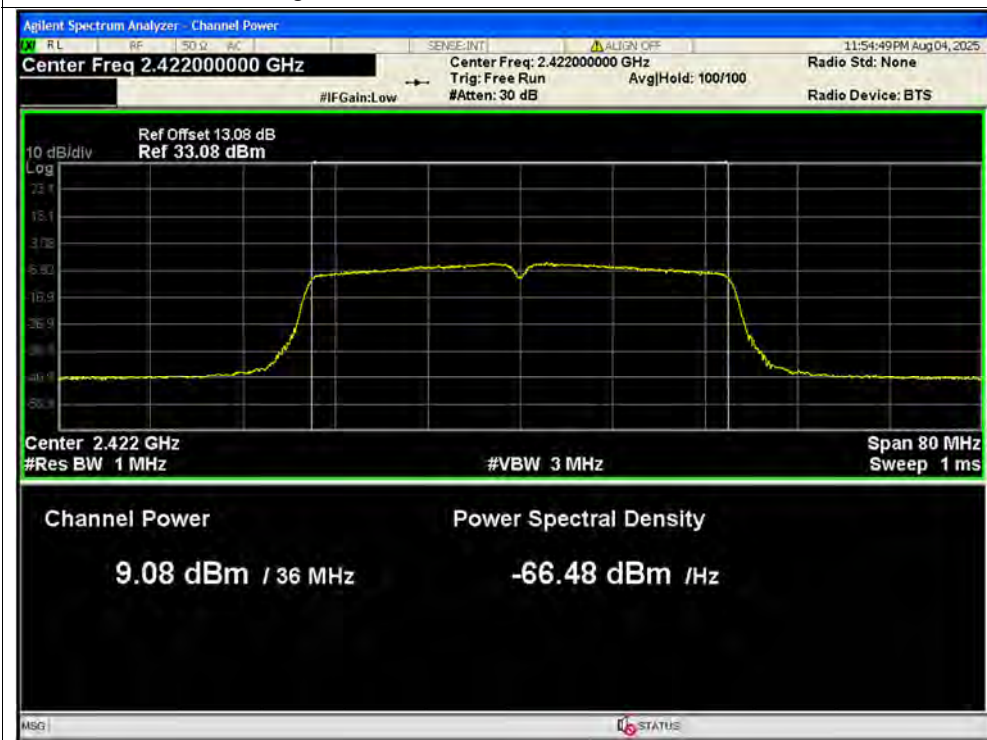
Average Power NVNT n40 2437MHz Ant1 SISO



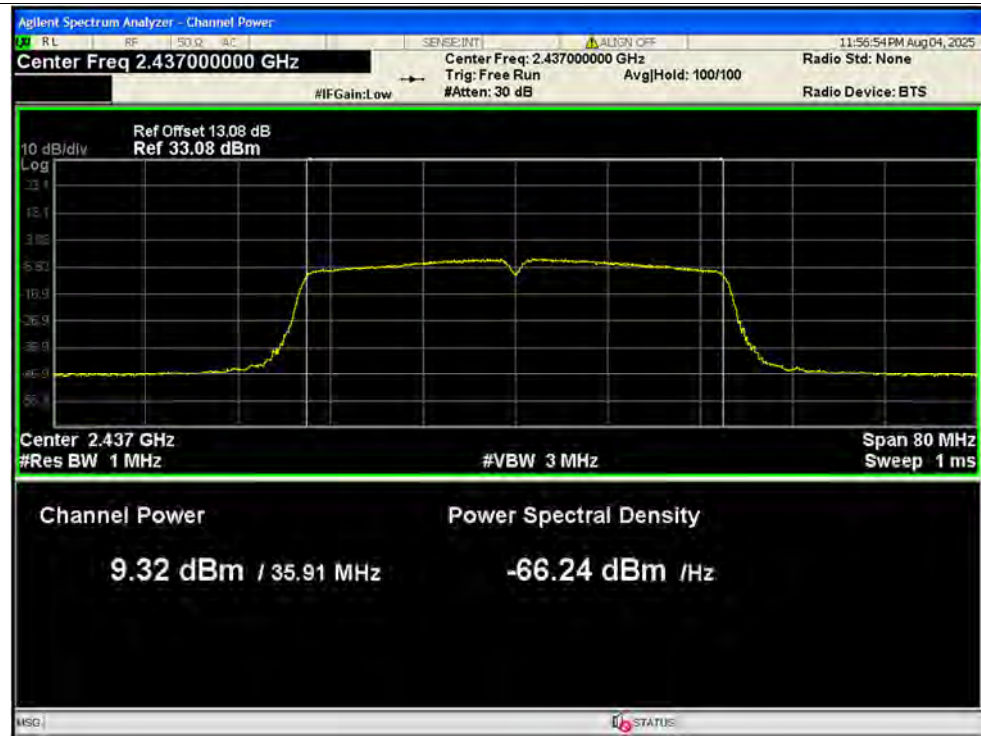
Average Power NVNT n40 2452MHz Ant1 SISO



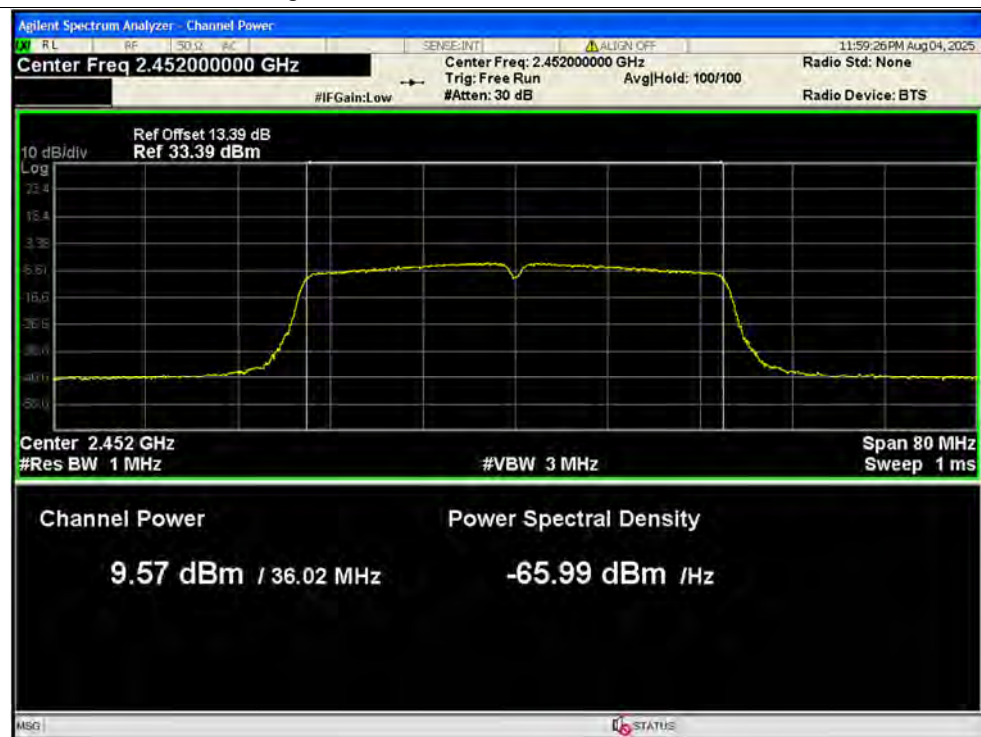
Average Power NVNT n40 2422MHz Ant2 SISO



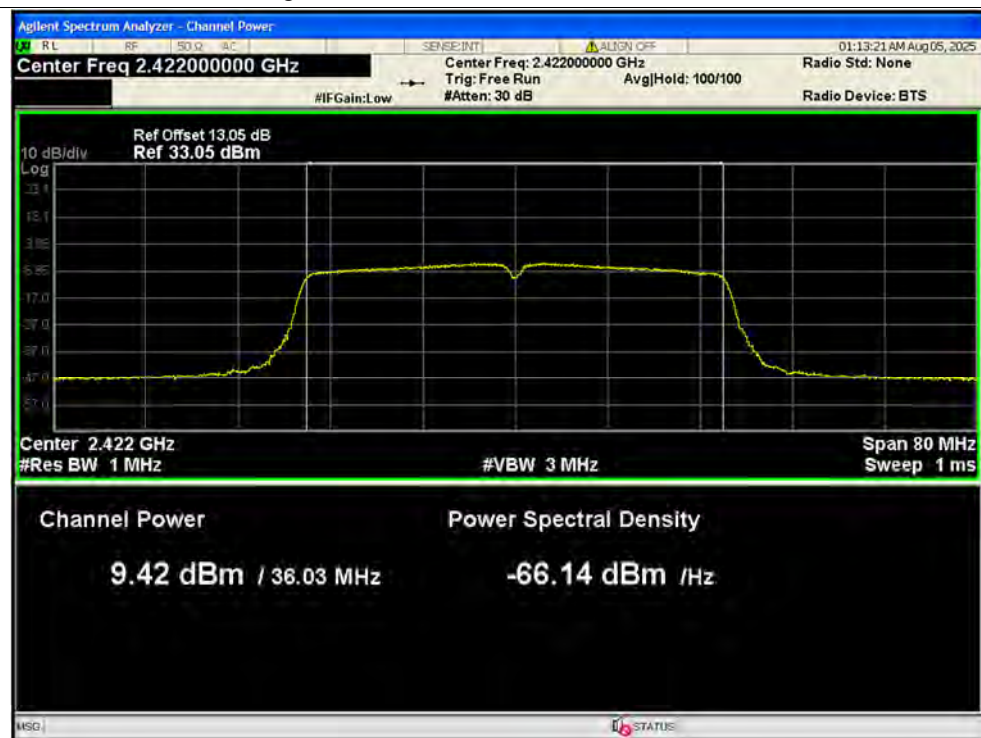
Average Power NVNT n40 2437MHz Ant2 SISO



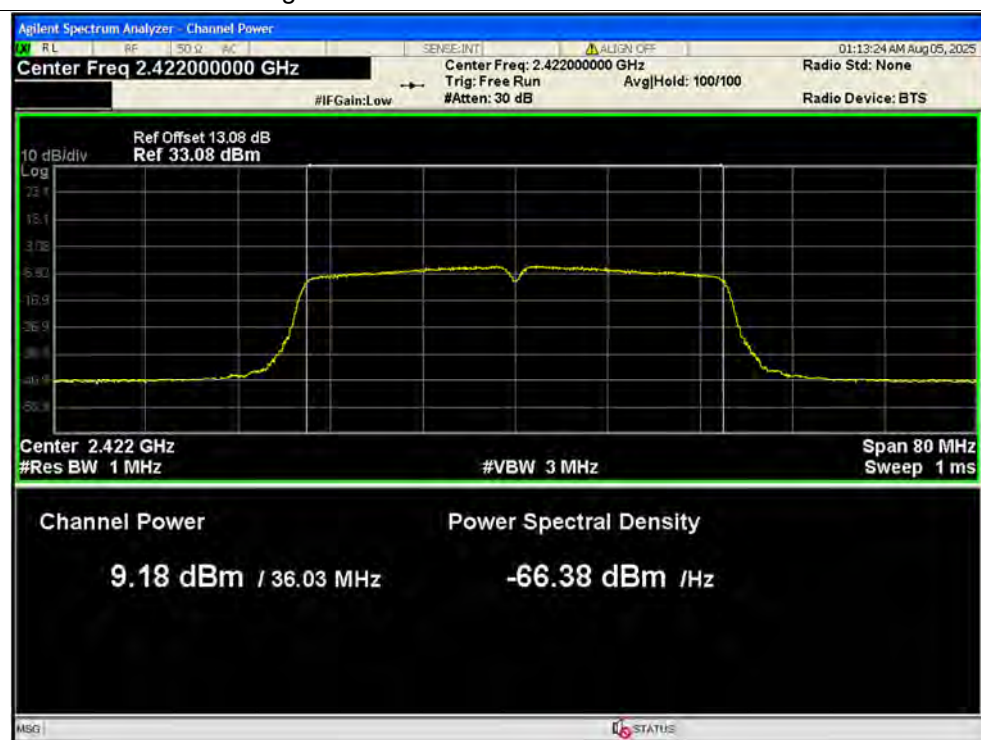
Average Power NVNT n40 2452MHz Ant2 SISO



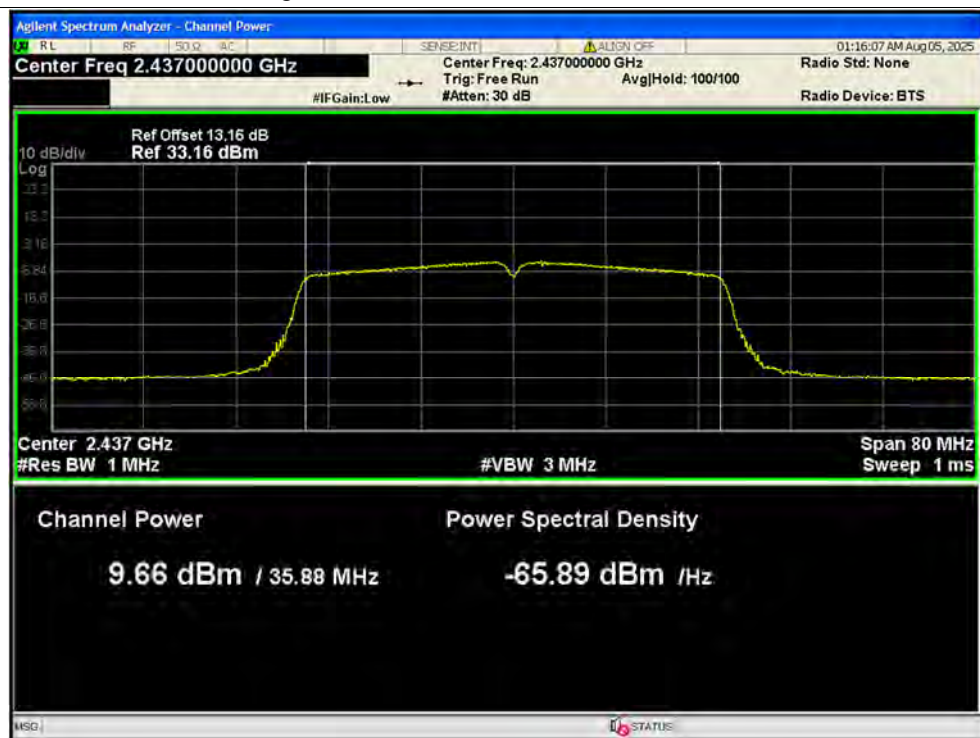
Average Power NVNT n40 2422MHz Ant1 MIMO



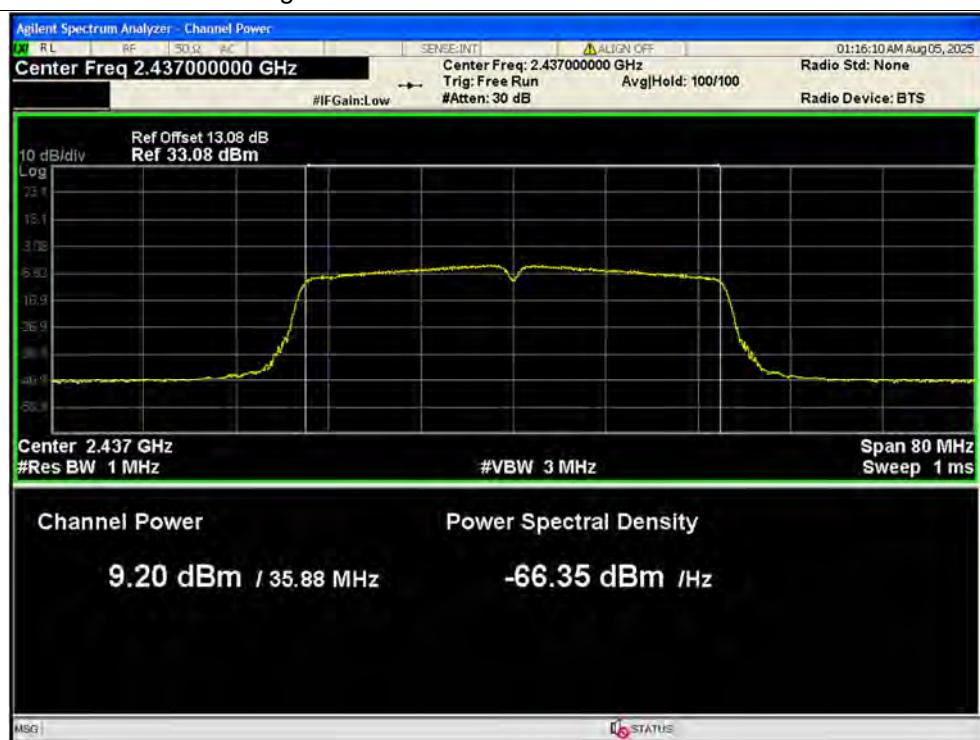
Average Power NVNT n40 2422MHz Ant2 MIMO



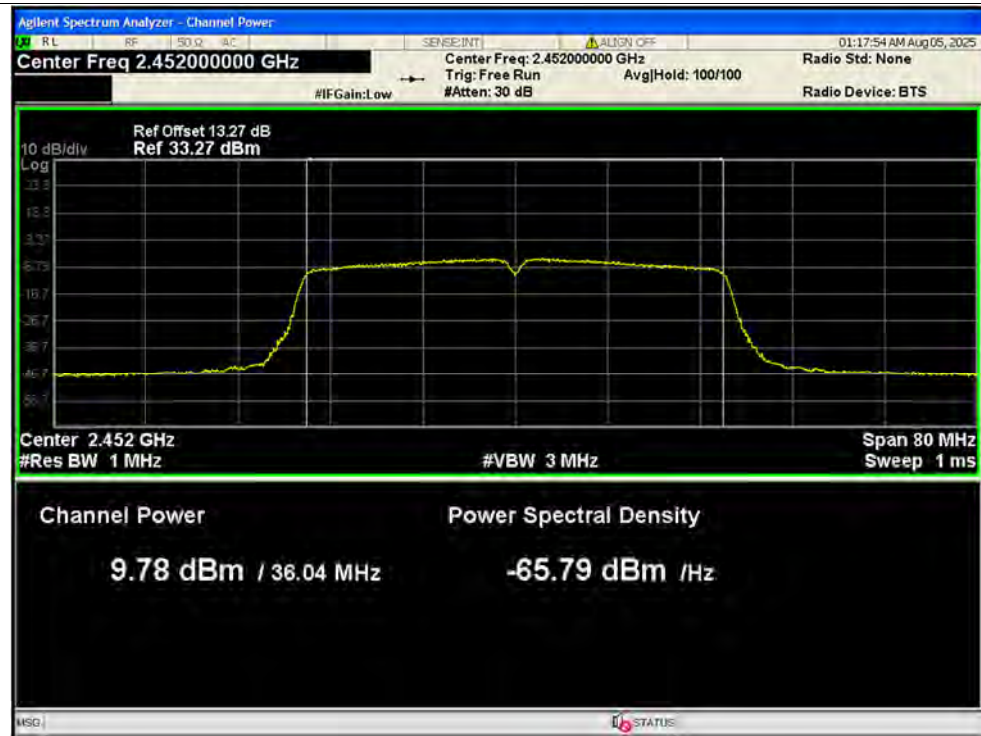
Average Power NVNT n40 2437MHz Ant1 MIMO



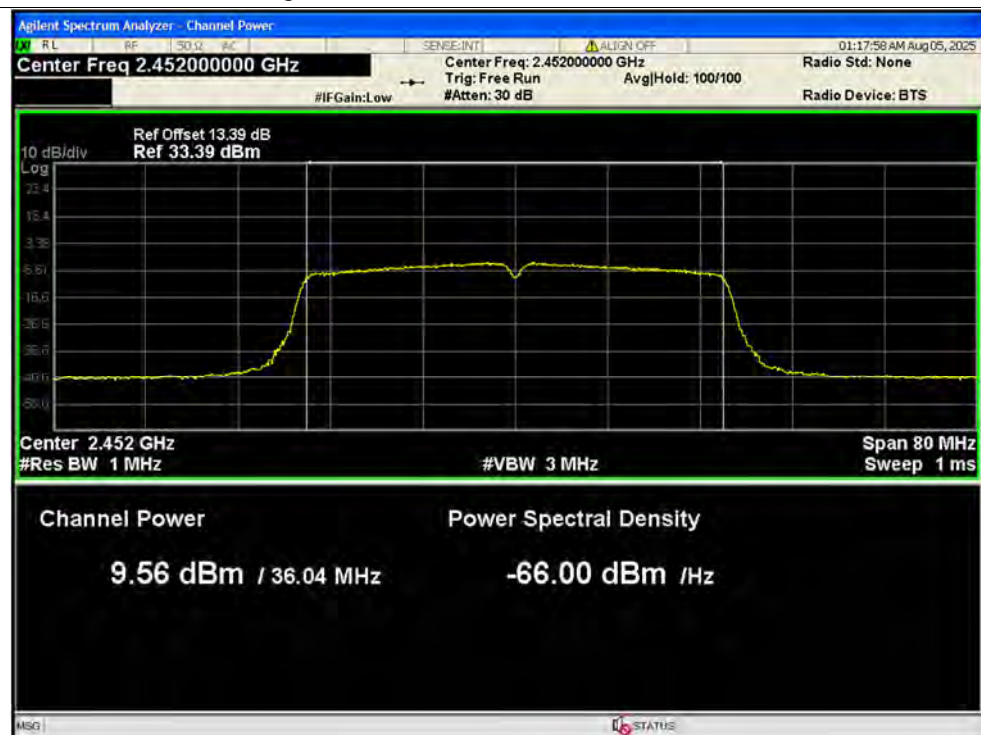
Average Power NVNT n40 2437MHz Ant2 MIMO



Average Power NVNT n40 2452MHz Ant1 MIMO



Average Power NVNT n40 2452MHz Ant2 MIMO



**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	12.55	0.5	Pass
NVNT	b SISO	2437	Ant1	9.048	0.5	Pass
NVNT	b SISO	2462	Ant1	9.038	0.5	Pass
NVNT	b SISO	2412	Ant2	8.573	0.5	Pass
NVNT	b SISO	2437	Ant2	9.016	0.5	Pass
NVNT	b SISO	2462	Ant2	9.053	0.5	Pass
NVNT	g SISO	2412	Ant1	14.4	0.5	Pass
NVNT	g SISO	2437	Ant1	16.03	0.5	Pass
NVNT	g SISO	2462	Ant1	14.16	0.5	Pass
NVNT	g SISO	2412	Ant2	15.05	0.5	Pass
NVNT	g SISO	2437	Ant2	15.04	0.5	Pass
NVNT	g SISO	2462	Ant2	13.83	0.5	Pass
NVNT	n20 SISO	2412	Ant1	15.73	0.5	Pass
NVNT	n20 SISO	2437	Ant1	14.98	0.5	Pass
NVNT	n20 SISO	2462	Ant1	14.96	0.5	Pass
NVNT	n20 SISO	2412	Ant2	15.12	0.5	Pass
NVNT	n20 SISO	2437	Ant2	14.01	0.5	Pass
NVNT	n20 SISO	2462	Ant2	15.12	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	15.03	0.5	Pass
NVNT	n20 MIMO	2412	Ant2	16.93	0.5	Pass
NVNT	n20 MIMO	2437	Ant1	15.1	0.5	Pass
NVNT	n20 MIMO	2437	Ant2	15.11	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	14.98	0.5	Pass
NVNT	n20	2462	Ant2	15.97	0.5	Pass



	MIMO					
NVNT	n40 SISO	2422	Ant1	35.1	0.5	Pass
NVNT	n40 SISO	2437	Ant1	33.82	0.5	Pass
NVNT	n40 SISO	2452	Ant1	35.02	0.5	Pass
NVNT	n40 SISO	2422	Ant2	35.1	0.5	Pass
NVNT	n40 SISO	2437	Ant2	31.34	0.5	Pass
NVNT	n40 SISO	2452	Ant2	33.82	0.5	Pass
NVNT	n40 MIMO	2422	Ant1	35.1	0.5	Pass
NVNT	n40 MIMO	2422	Ant2	35.1	0.5	Pass
NVNT	n40 MIMO	2437	Ant1	35.09	0.5	Pass
NVNT	n40 MIMO	2437	Ant2	32.56	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	35.09	0.5	Pass
NVNT	n40 MIMO	2452	Ant2	35.06	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

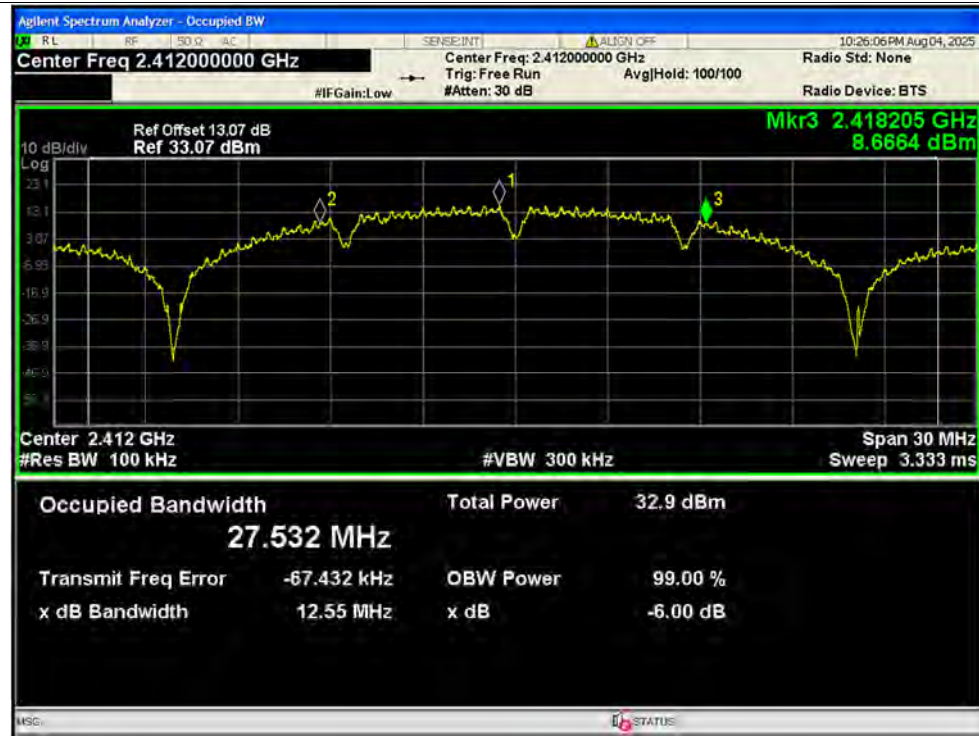


-6dB Bandwidth NVNT b 2437MHz Ant1



Test Graphs

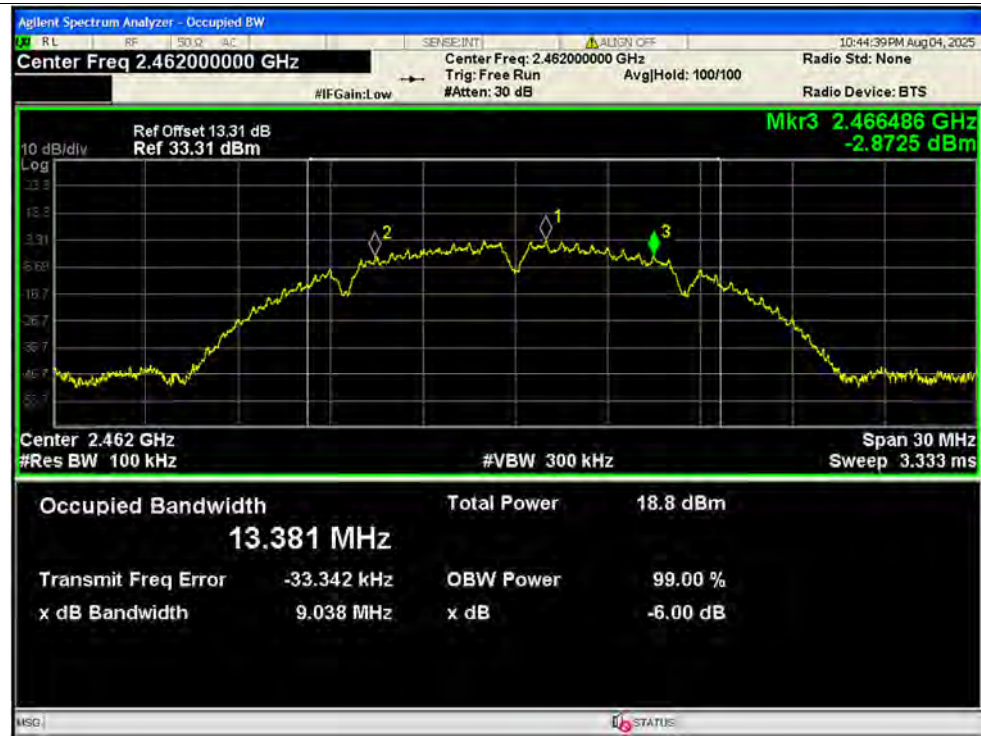
-6dB Bandwidth NVNT b 2412MHz Ant1 SISO



-6dB Bandwidth NVNT b 2437MHz Ant1 SISO



-6dB Bandwidth NVNT b 2462MHz Ant1 SISO



-6dB Bandwidth NVNT b 2412MHz Ant2 SISO



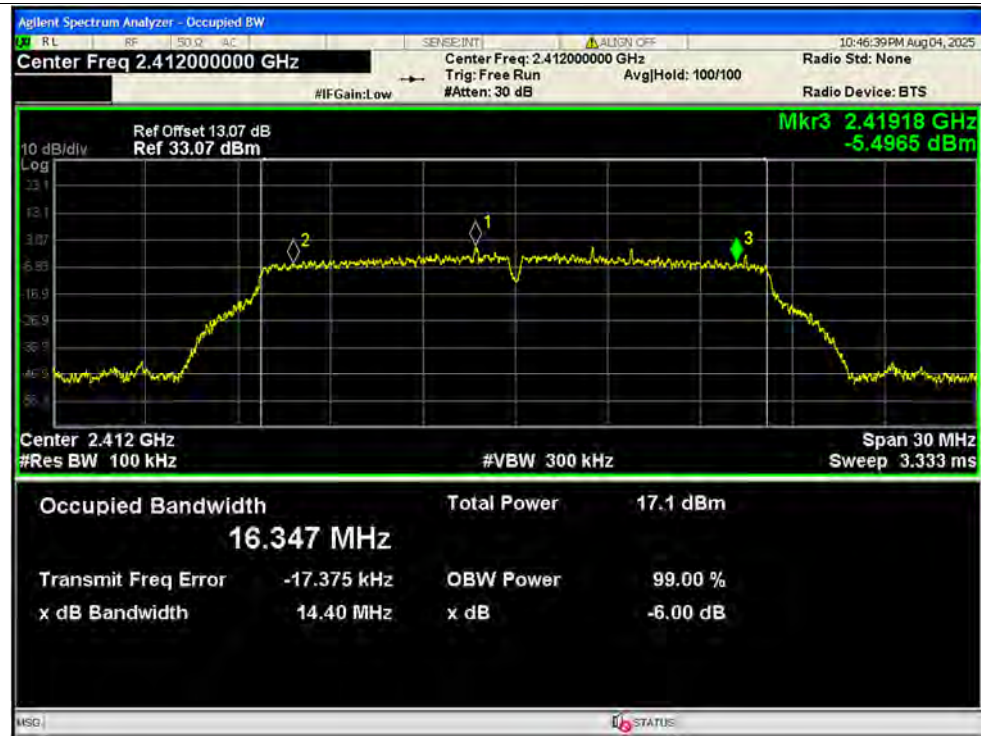
-6dB Bandwidth NVNT b 2437MHz Ant2 SISO



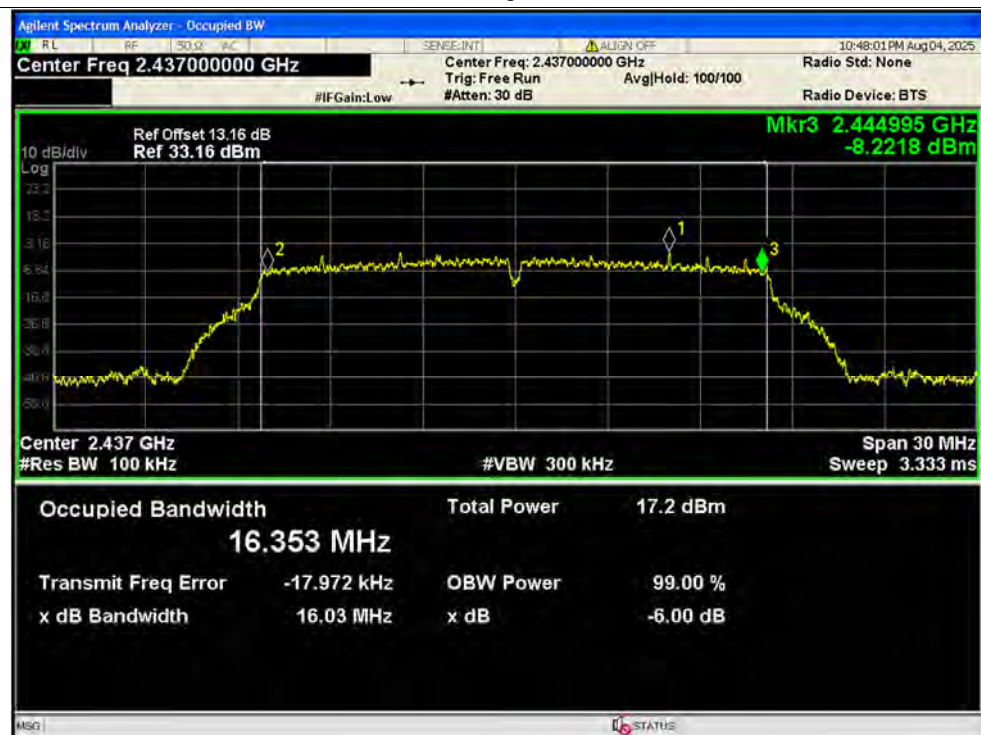
-6dB Bandwidth NVNT b 2462MHz Ant2 SISO



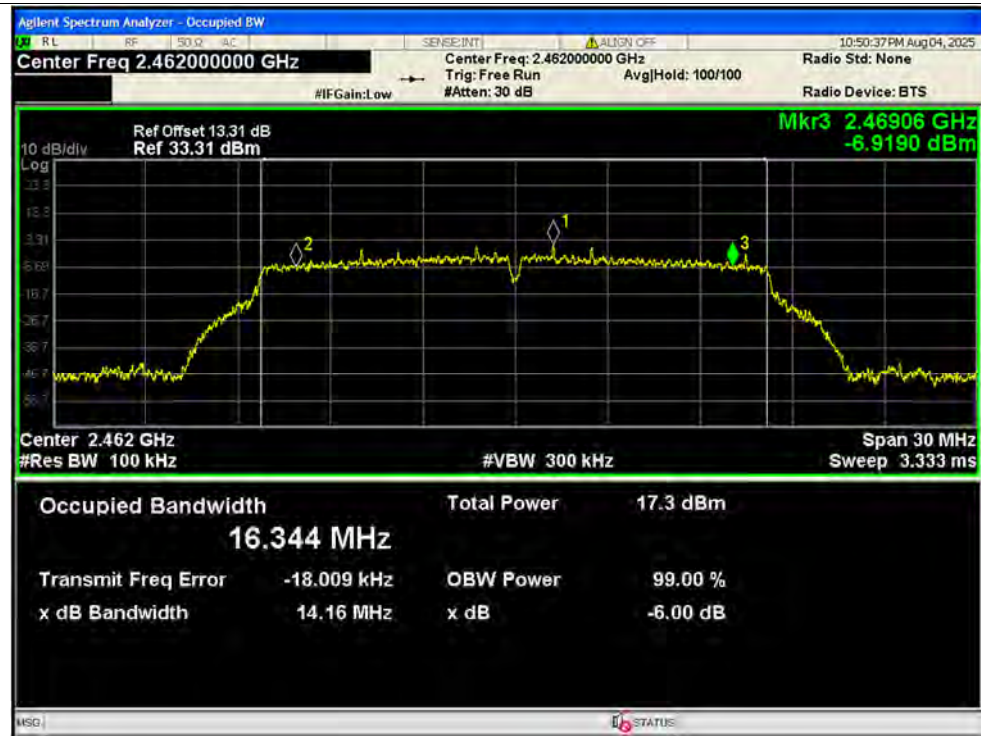
-6dB Bandwidth NVNT g 2412MHz Ant1 SISO



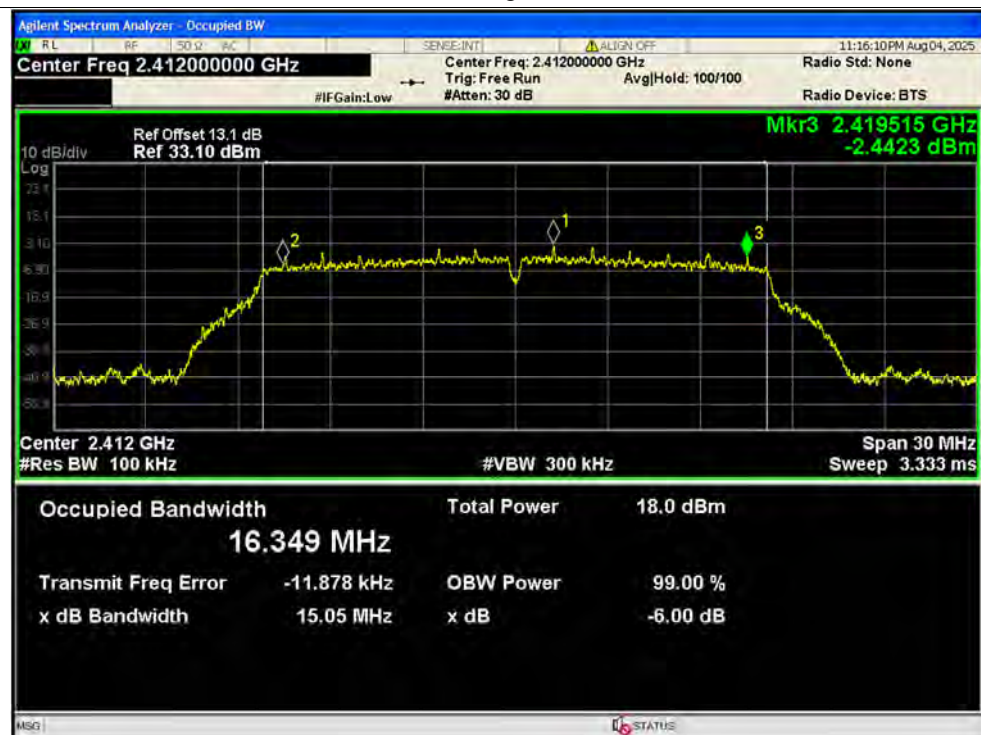
-6dB Bandwidth NVNT g 2437MHz Ant1 SISO



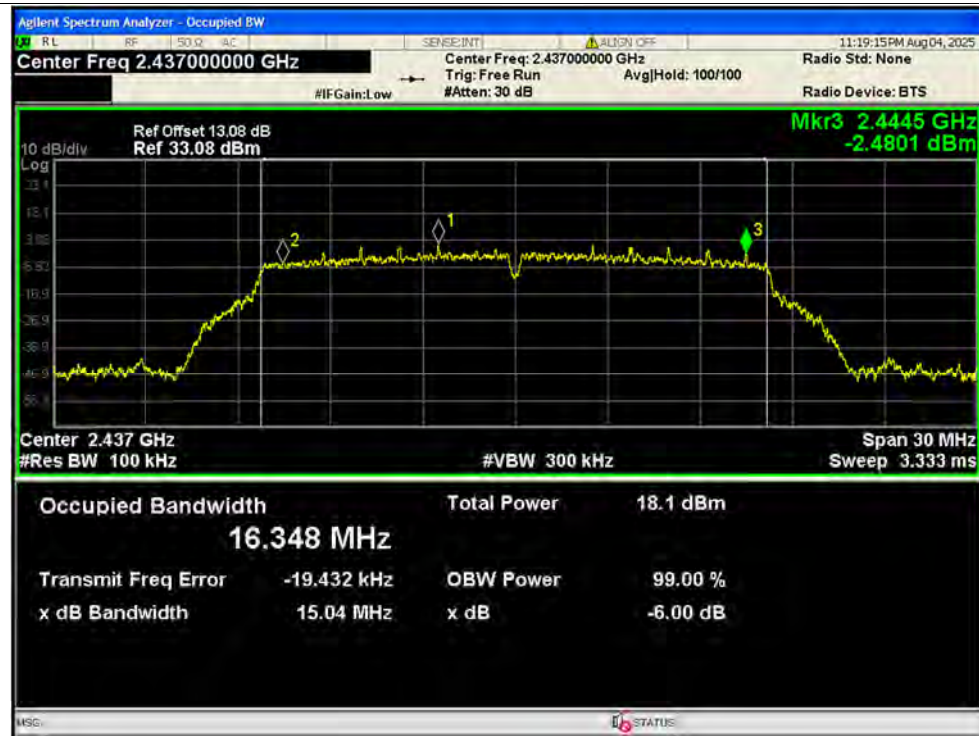
-6dB Bandwidth NVNT g 2462MHz Ant1 SISO



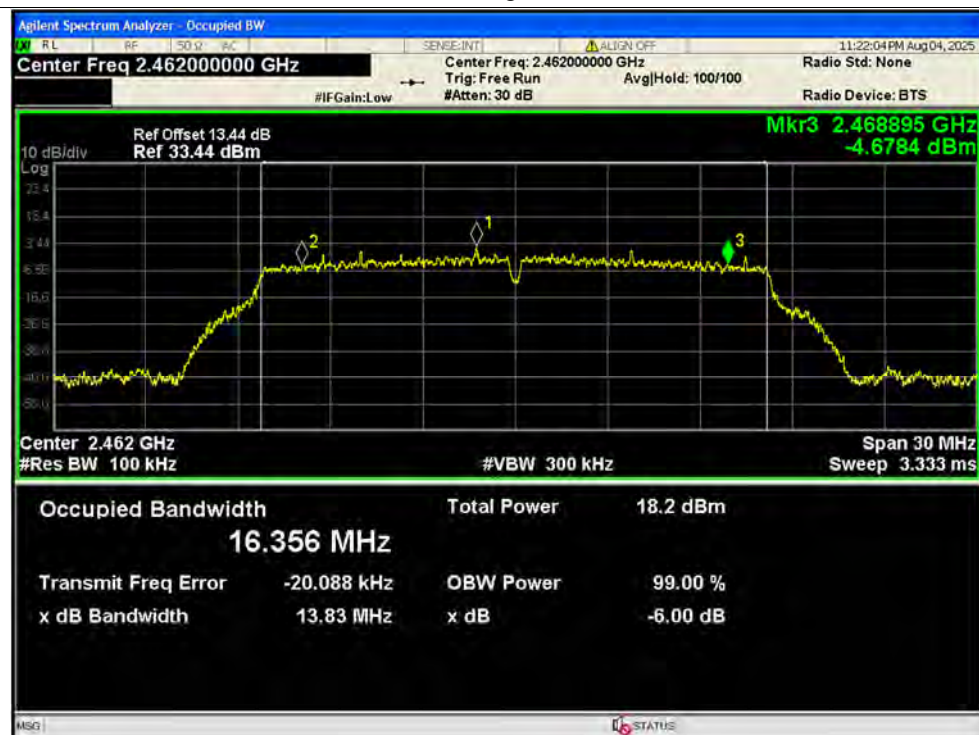
-6dB Bandwidth NVNT g 2412MHz Ant2 SISO



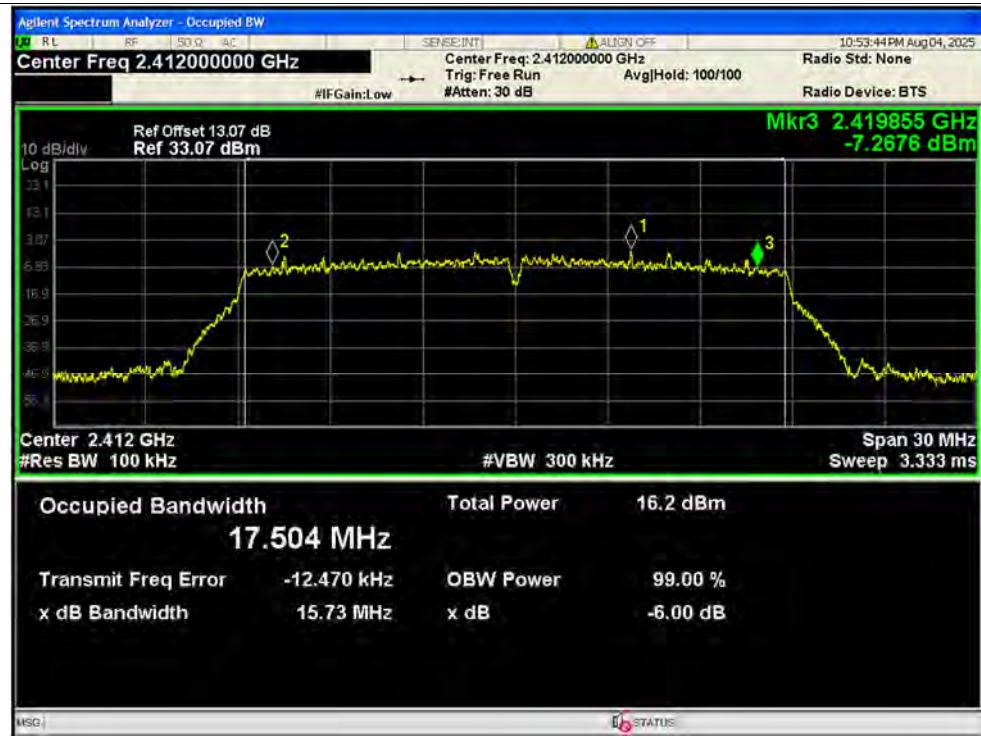
-6dB Bandwidth NVNT g 2437MHz Ant2 SISO



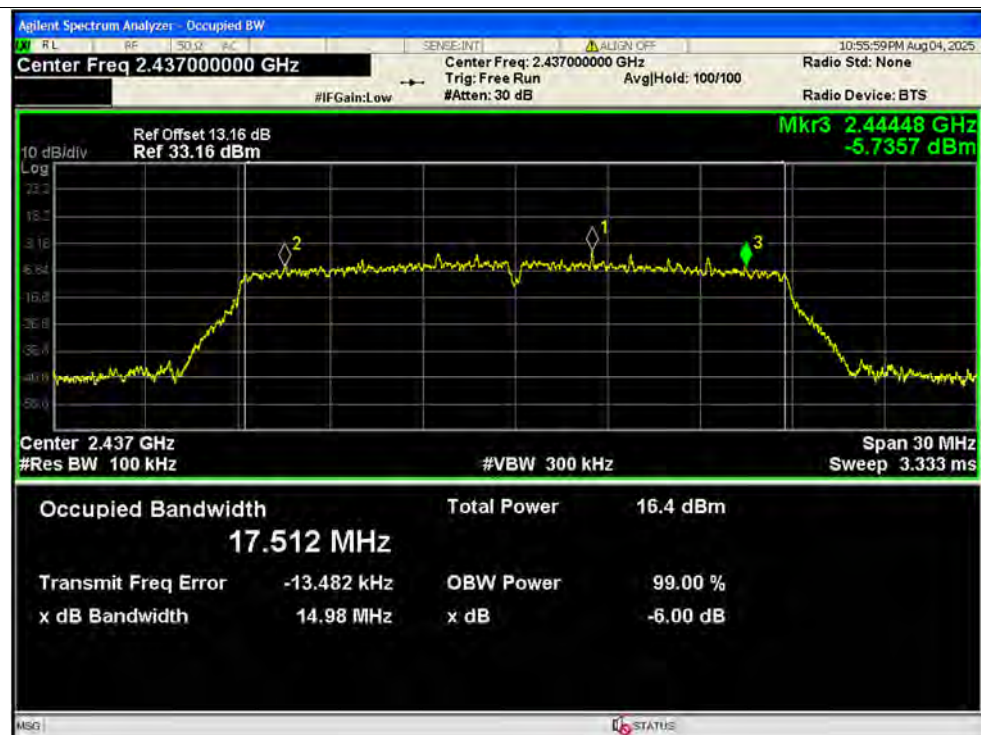
-6dB Bandwidth NVNT g 2462MHz Ant2 SISO



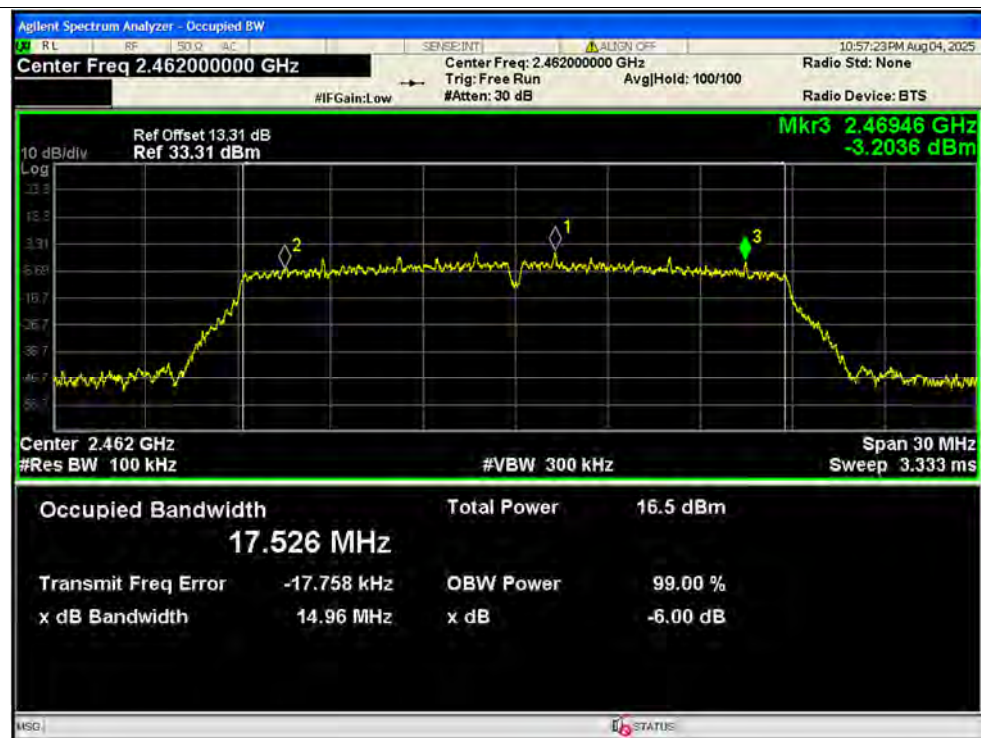
-6dB Bandwidth NVNT n20 2412MHz Ant1 SISO



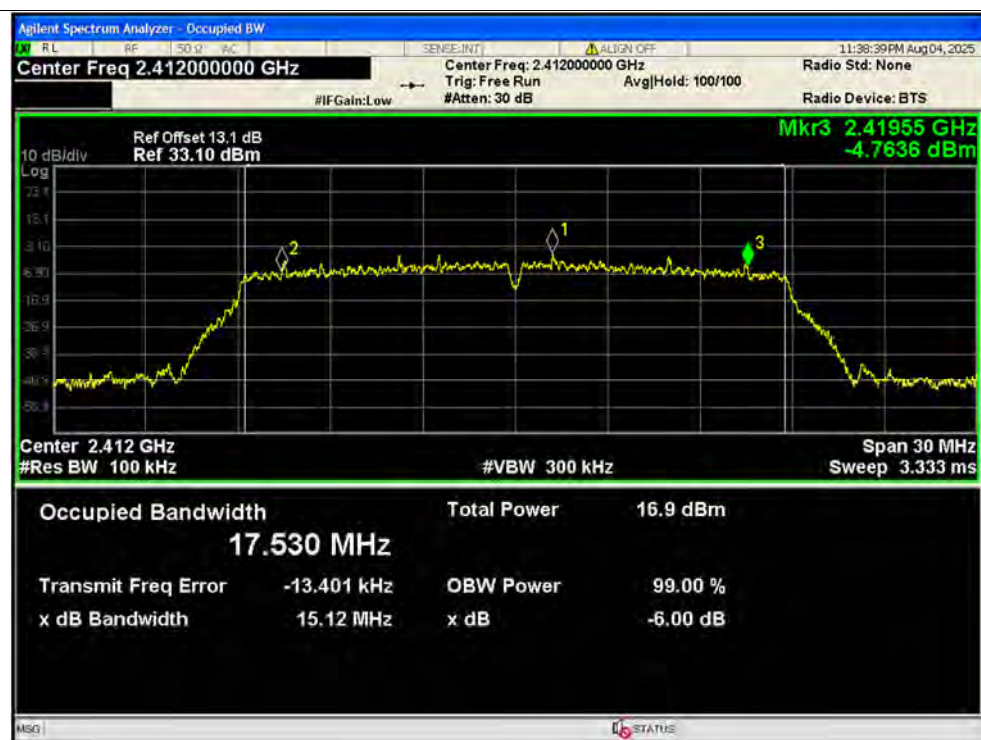
-6dB Bandwidth NVNT n20 2437MHz Ant1 SISO



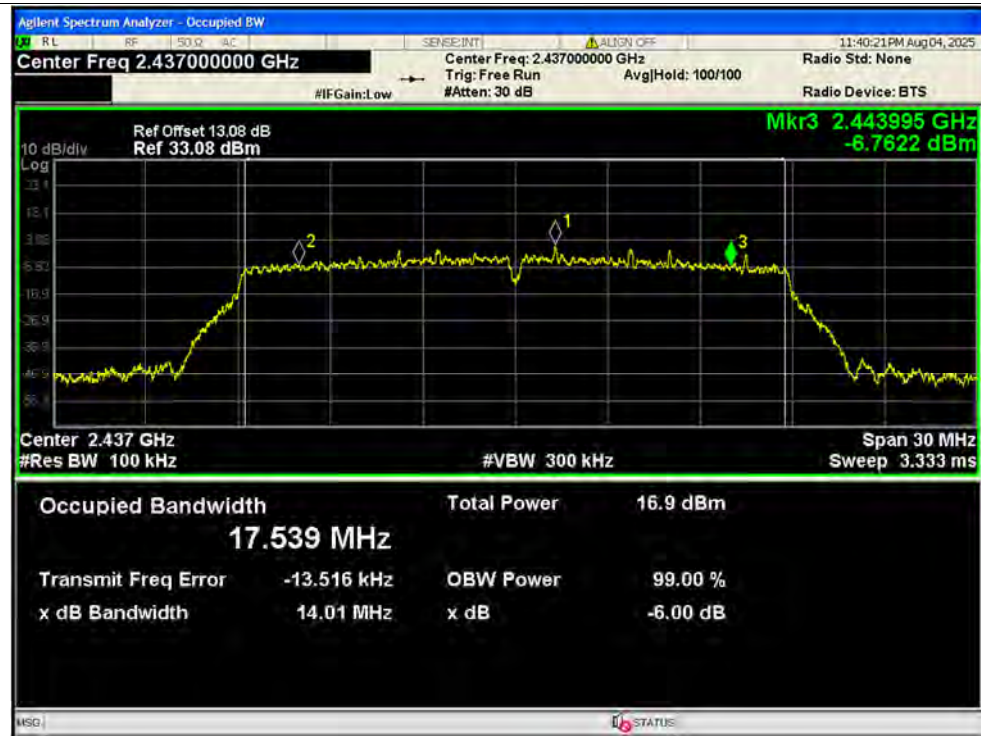
-6dB Bandwidth NVNT n20 2462MHz Ant1 SISO



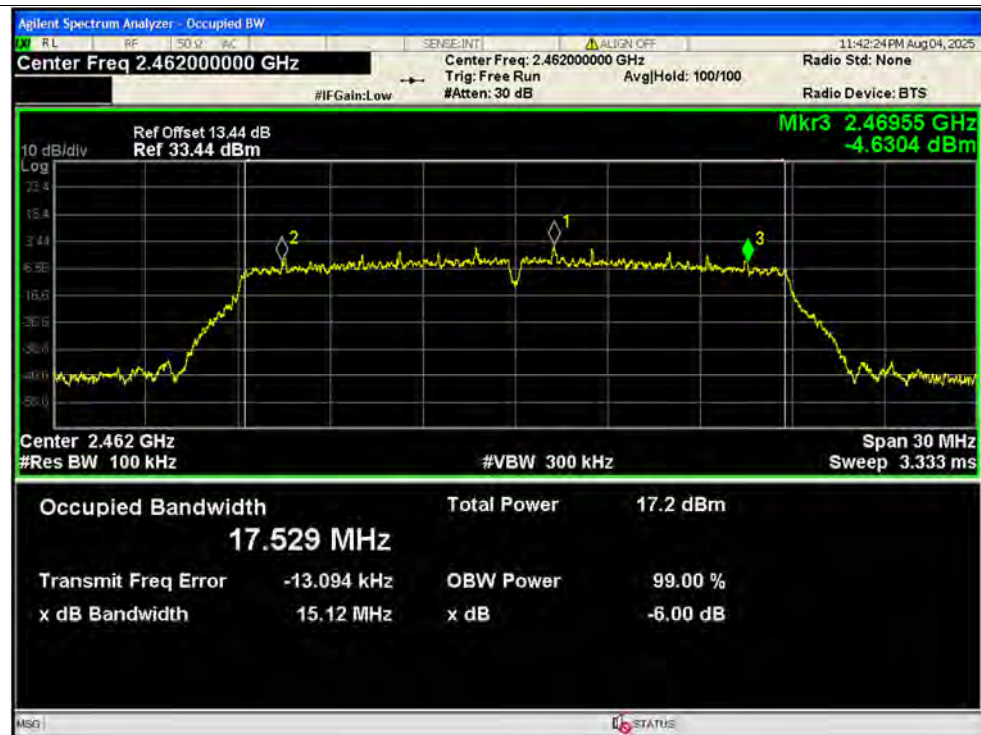
-6dB Bandwidth NVNT n20 2412MHz Ant2 SISO



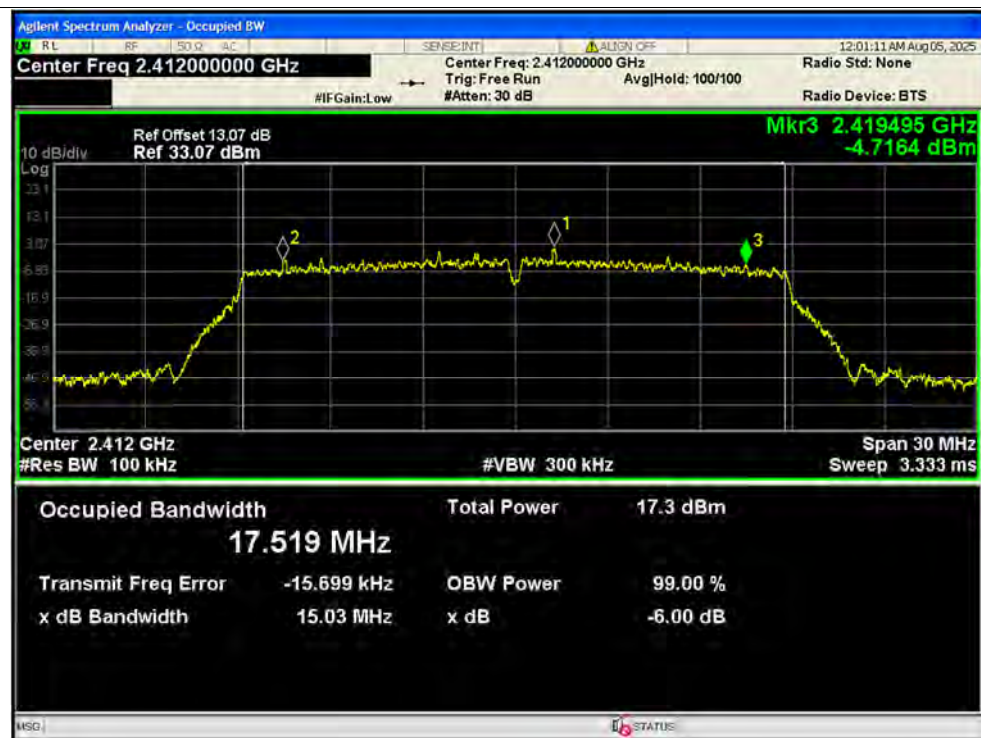
-6dB Bandwidth NVNT n20 2437MHz Ant2 SISO



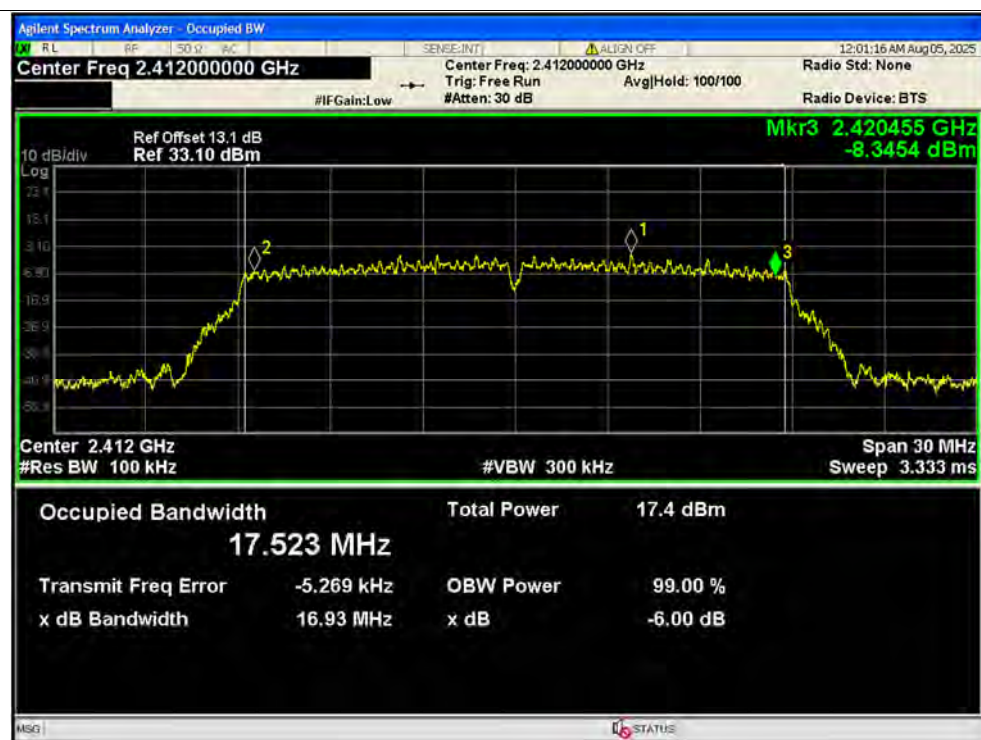
-6dB Bandwidth NVNT n20 2462MHz Ant2 SISO



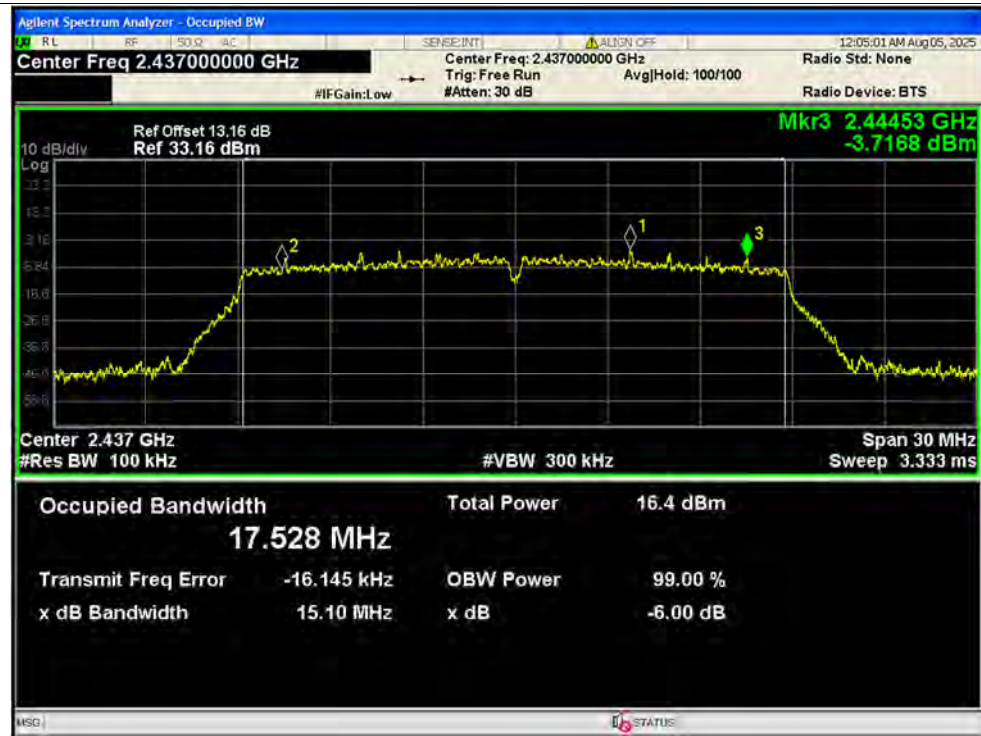
-6dB Bandwidth NVNT n20 2412MHz Ant1 MIMO



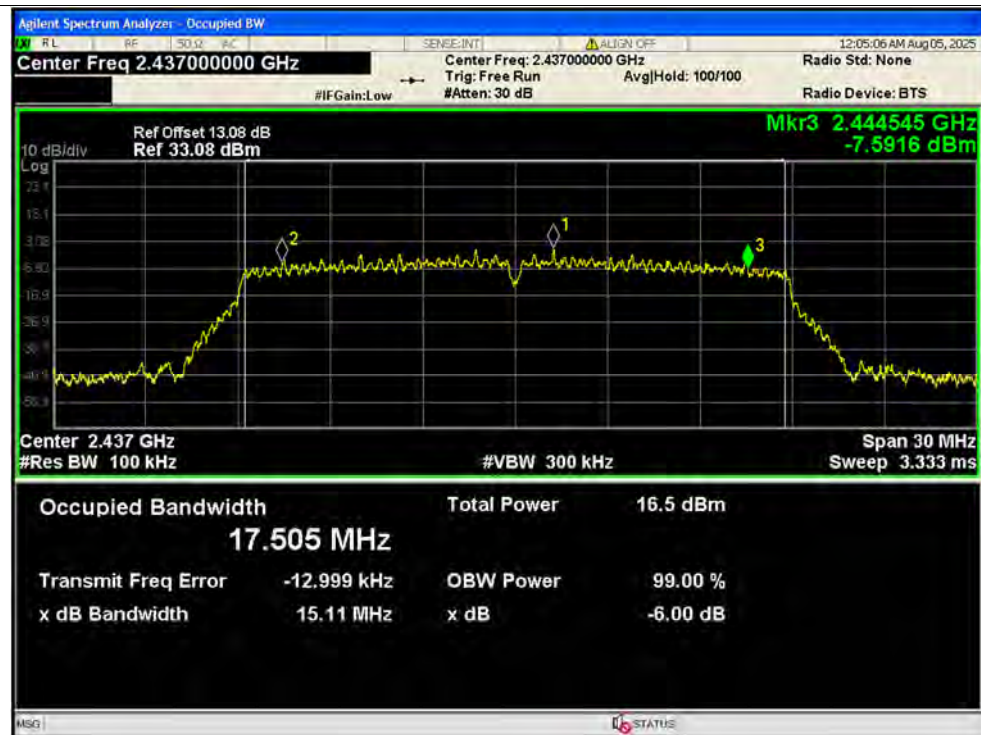
-6dB Bandwidth NVNT n20 2412MHz Ant2 MIMO



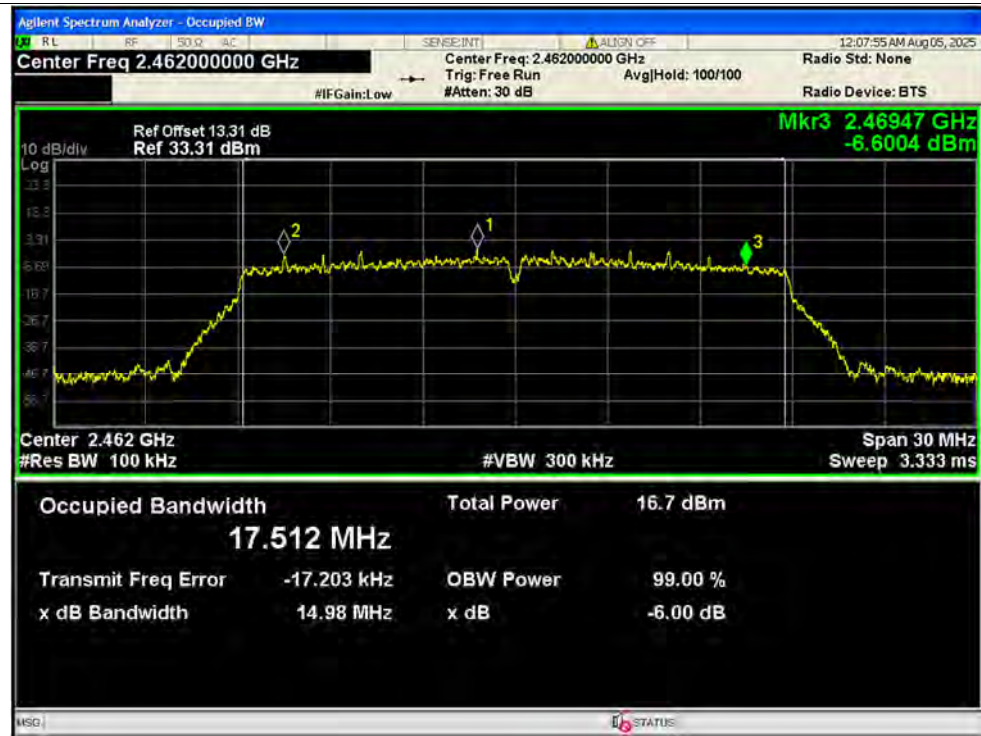
-6dB Bandwidth NVNT n20 2437MHz Ant1 MIMO



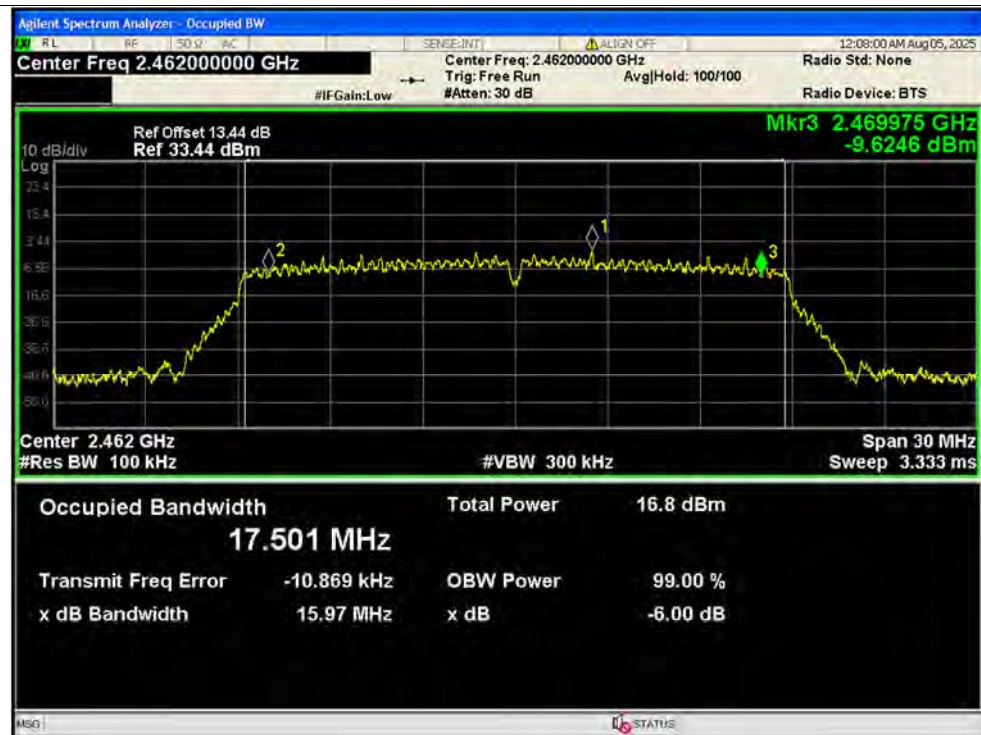
-6dB Bandwidth NVNT n20 2437MHz Ant2 MIMO



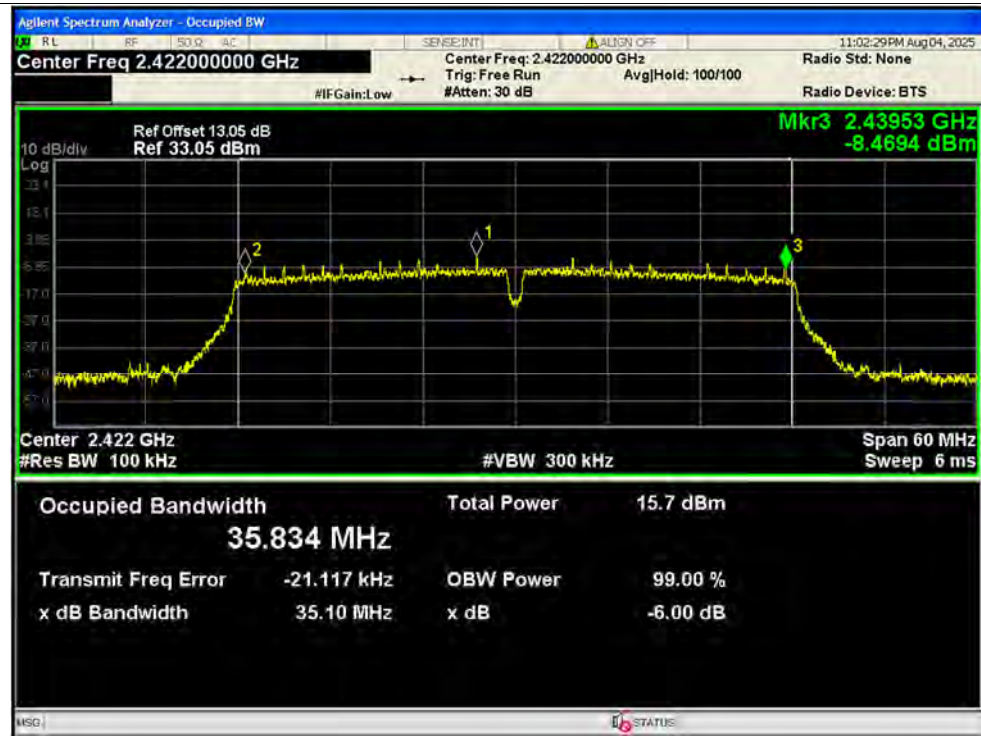
-6dB Bandwidth NVNT n20 2462MHz Ant1 MIMO



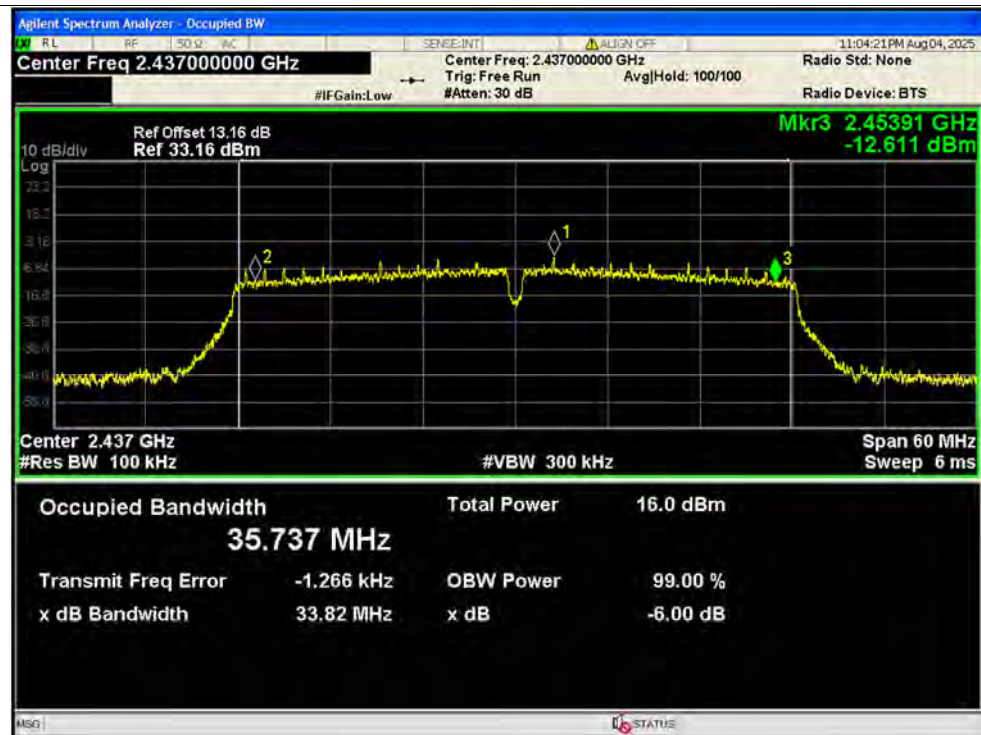
-6dB Bandwidth NVNT n20 2462MHz Ant2 MIMO



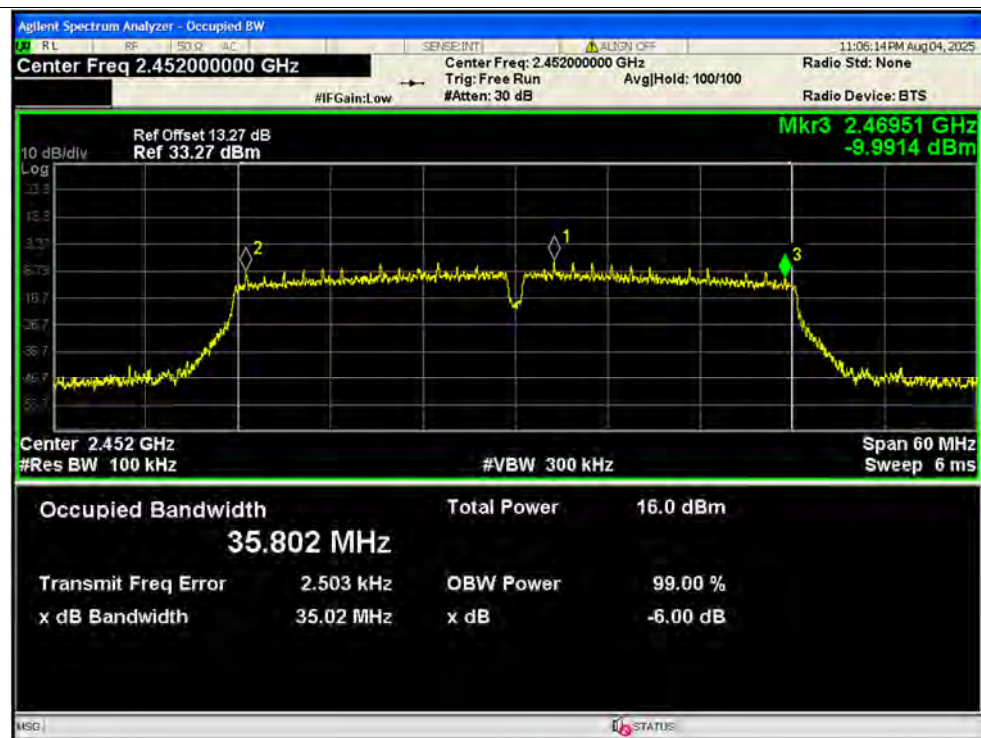
-6dB Bandwidth NVNT n40 2422MHz Ant1 SISO



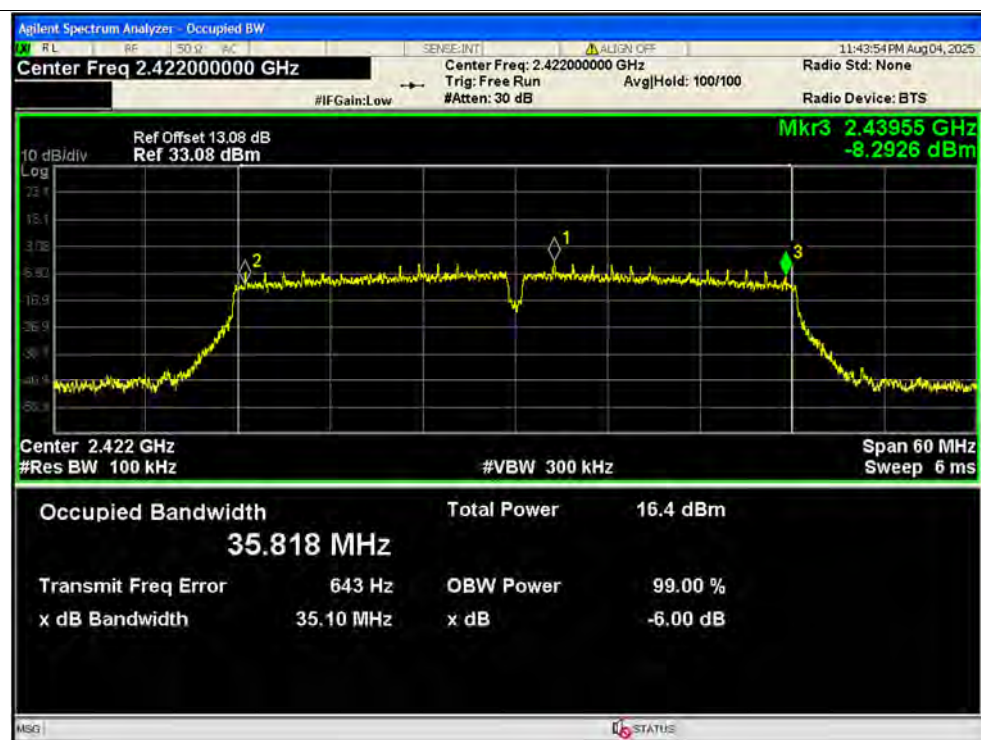
-6dB Bandwidth NVNT n40 2437MHz Ant1 SISO



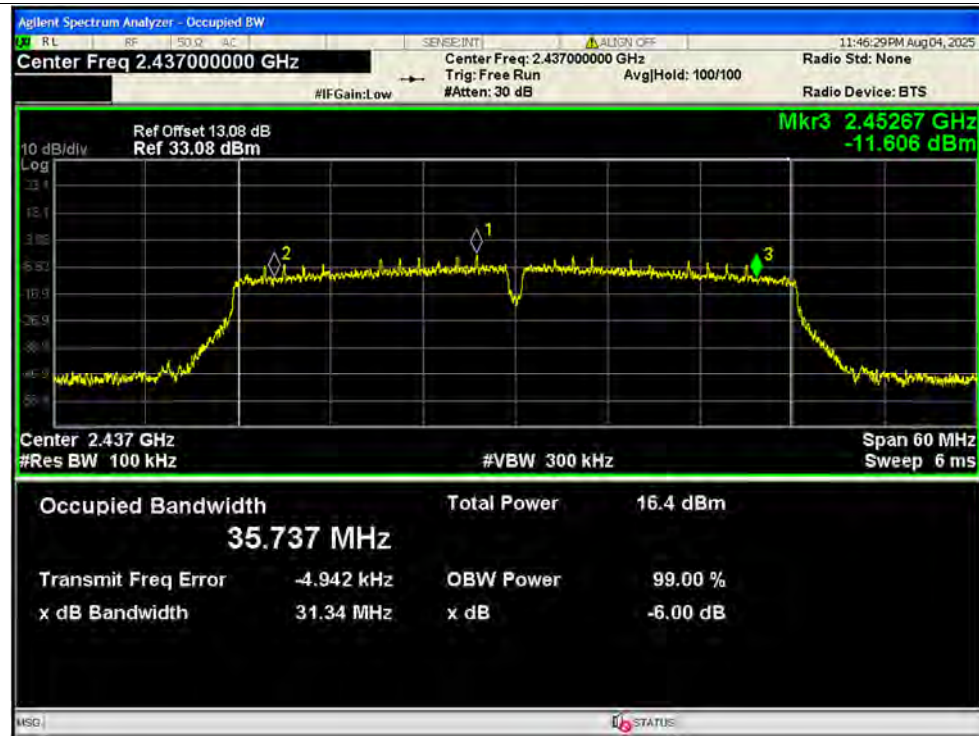
-6dB Bandwidth NVNT n40 2452MHz Ant1 SISO



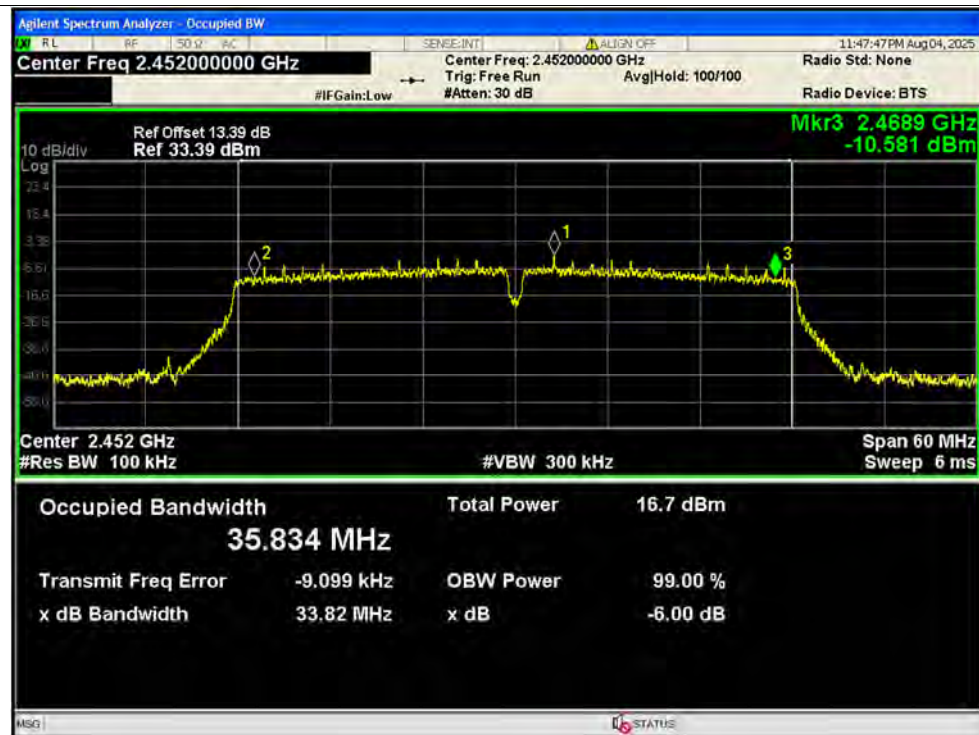
-6dB Bandwidth NVNT n40 2422MHz Ant2 SISO



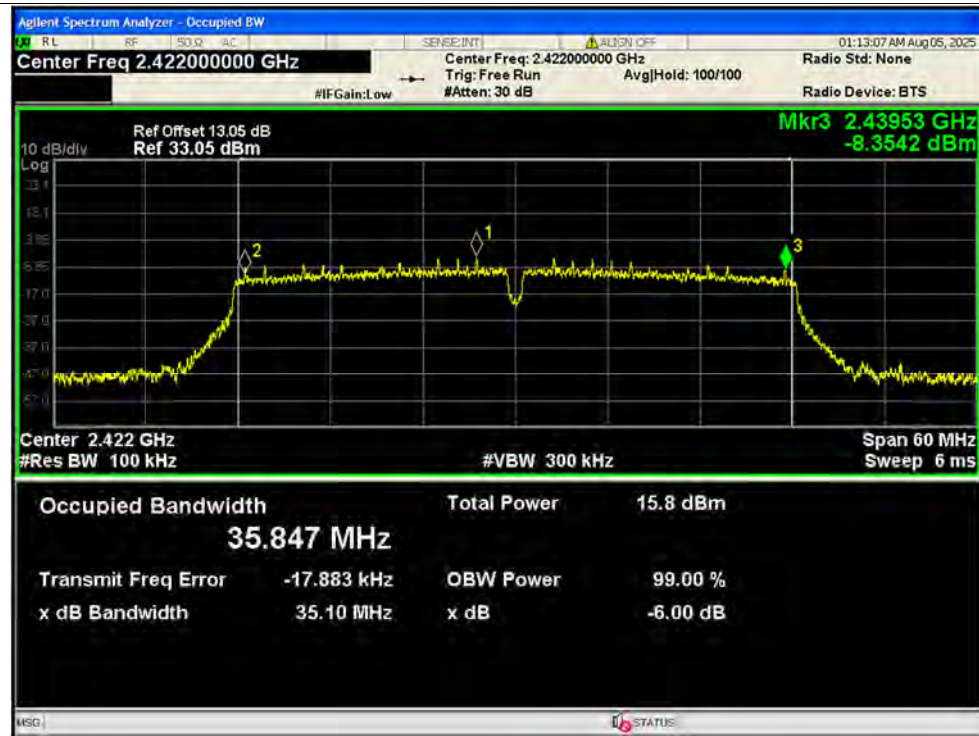
-6dB Bandwidth NVNT n40 2437MHz Ant2 SISO



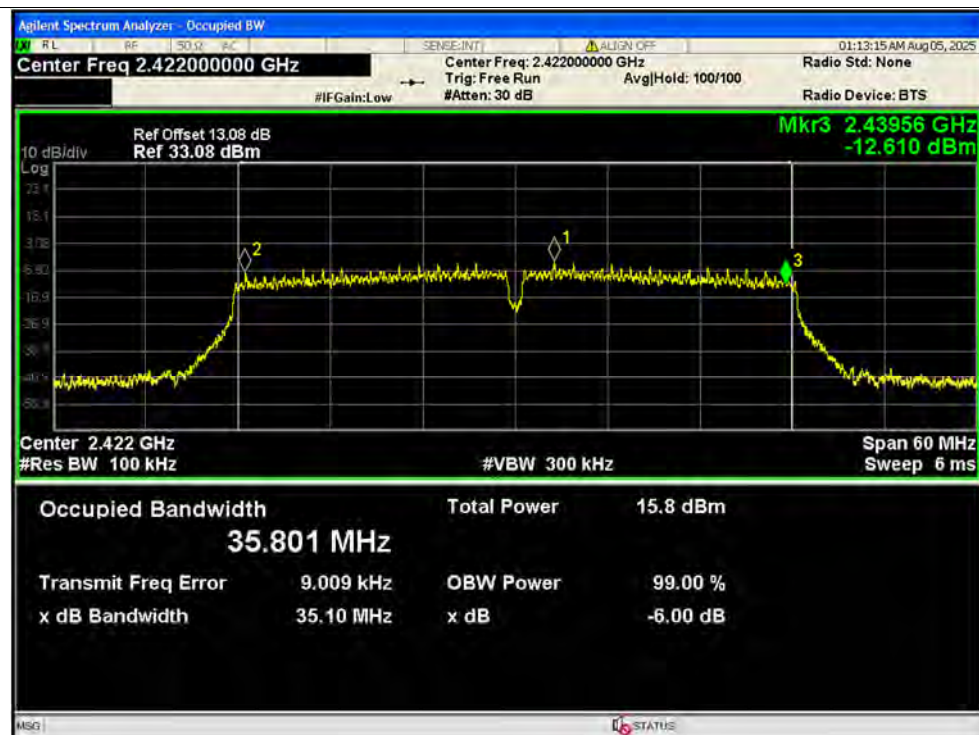
-6dB Bandwidth NVNT n40 2452MHz Ant2 SISO



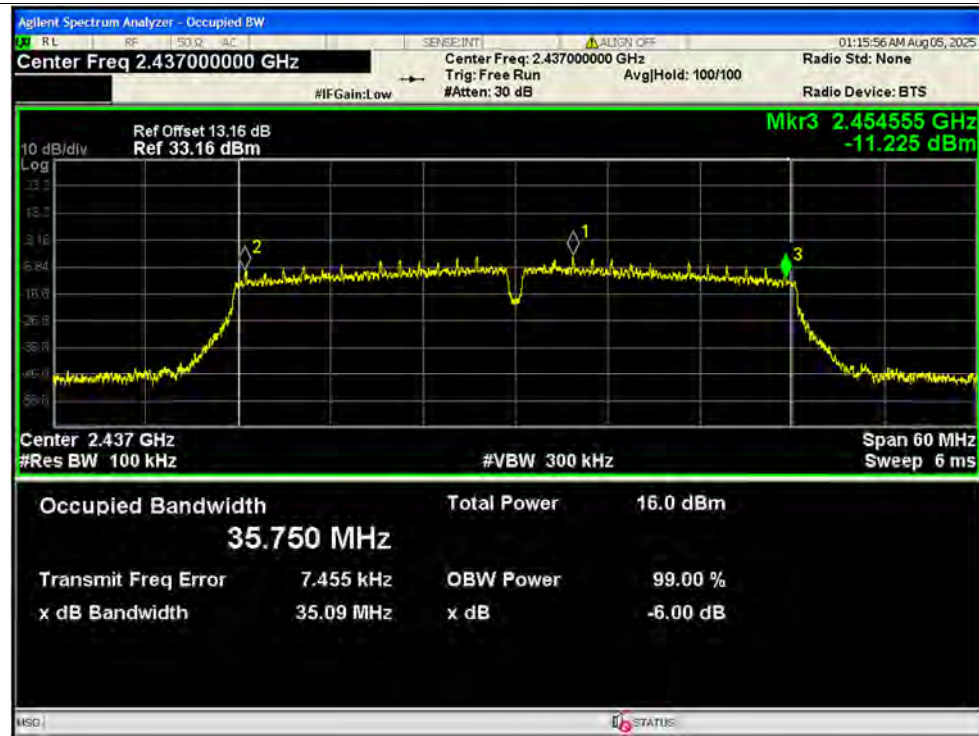
-6dB Bandwidth NVNT n40 2422MHz Ant1 MIMO



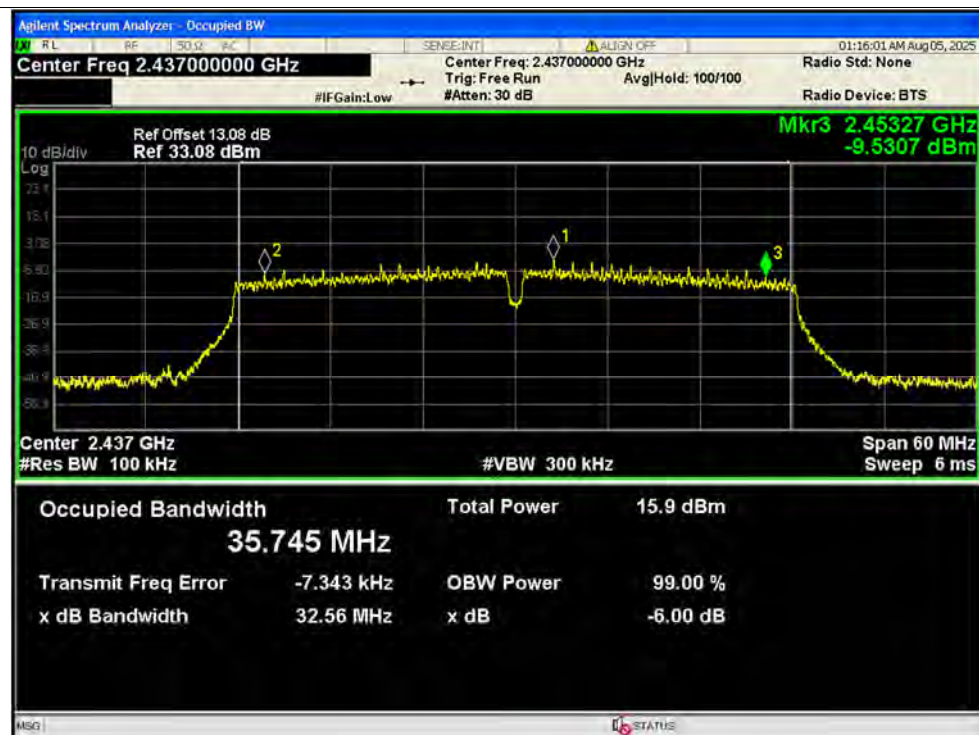
-6dB Bandwidth NVNT n40 2422MHz Ant2 MIMO



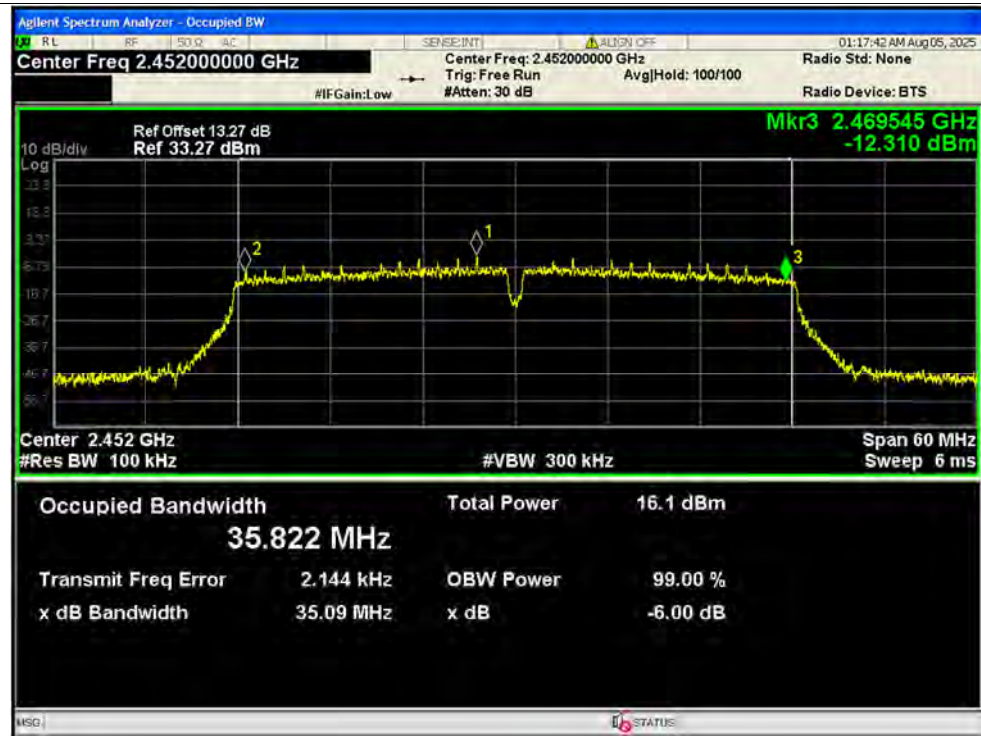
-6dB Bandwidth NVNT n40 2437MHz Ant1 MIMO



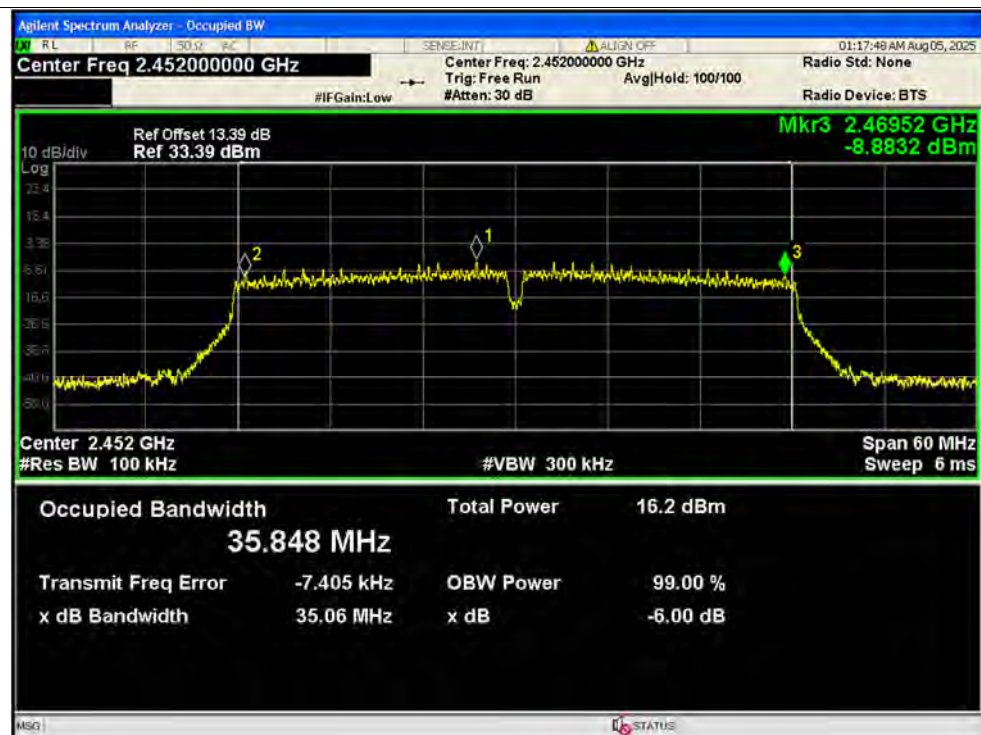
-6dB Bandwidth NVNT n40 2437MHz Ant2 MIMO



-6dB Bandwidth NVNT n40 2452MHz Ant1 MIMO



-6dB Bandwidth NVNT n40 2452MHz Ant2 MIMO



**A.5. Conducted Spurious Emissions**

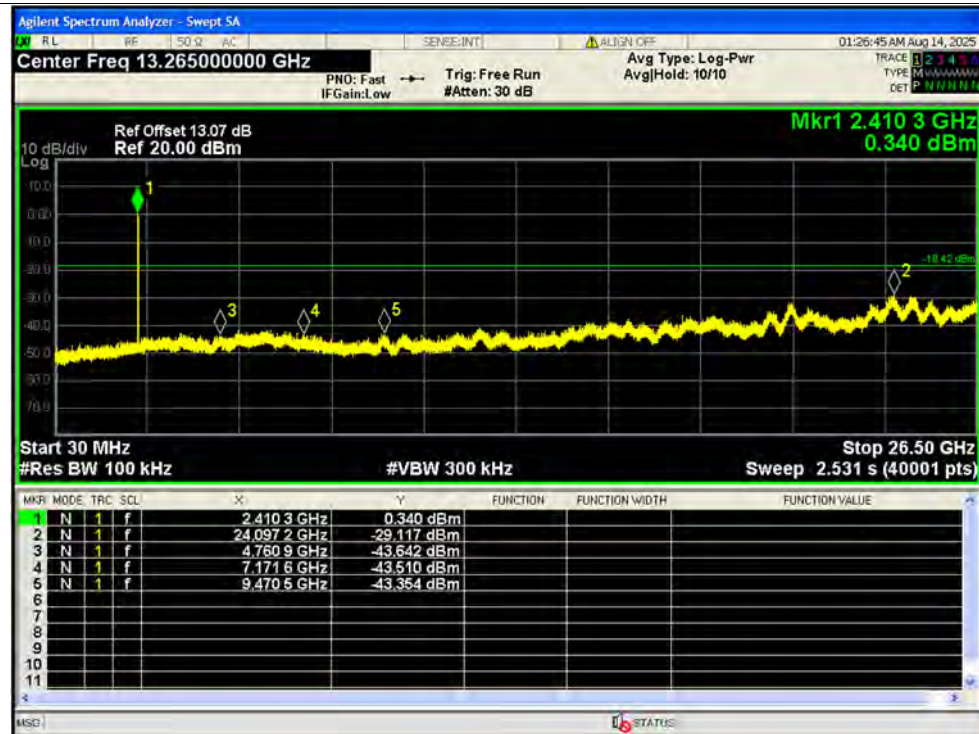
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b SISO	2412	Ant1	-30.69	-20	Pass
NVNT	b SISO	2437	Ant1	-30.89	-20	Pass
NVNT	b SISO	2462	Ant1	-31.76	-20	Pass
NVNT	b SISO	2412	Ant2	-32.06	-20	Pass
NVNT	b SISO	2437	Ant2	-33.18	-20	Pass
NVNT	b SISO	2462	Ant2	-32.21	-20	Pass
NVNT	g SISO	2412	Ant1	-30.77	-20	Pass
NVNT	g SISO	2437	Ant1	-28.32	-20	Pass
NVNT	g SISO	2462	Ant1	-29.19	-20	Pass
NVNT	g SISO	2412	Ant2	-30.69	-20	Pass
NVNT	g SISO	2437	Ant2	-31.52	-20	Pass
NVNT	g SISO	2462	Ant2	-29.67	-20	Pass
NVNT	n20 SISO	2412	Ant1	-29.34	-20	Pass
NVNT	n20 SISO	2437	Ant1	-28.63	-20	Pass
NVNT	n20 SISO	2462	Ant1	-28.31	-20	Pass
NVNT	n20 SISO	2412	Ant2	-30.46	-20	Pass
NVNT	n20 SISO	2437	Ant2	-30.97	-20	Pass
NVNT	n20 SISO	2462	Ant2	-28.43	-20	Pass
NVNT	n40 SISO	2422	Ant1	-24.32	-20	Pass
NVNT	n40 SISO	2437	Ant1	-26.1	-20	Pass
NVNT	n40 SISO	2452	Ant1	-23.84	-20	Pass
NVNT	n40 SISO	2422	Ant2	-24.97	-20	Pass
NVNT	n40 SISO	2437	Ant2	-25.94	-20	Pass
NVNT	n40 SISO	2452	Ant2	-25.75	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref SISO



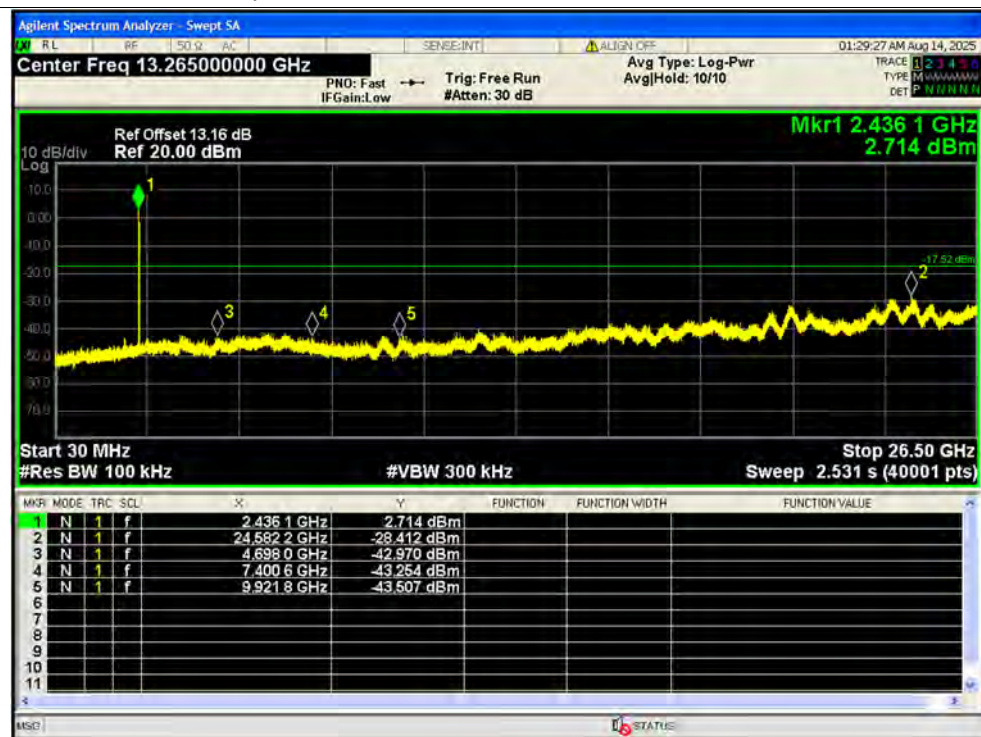
Tx. Spurious NVNT b 2412MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2437MHz Ant1 Ref SISO



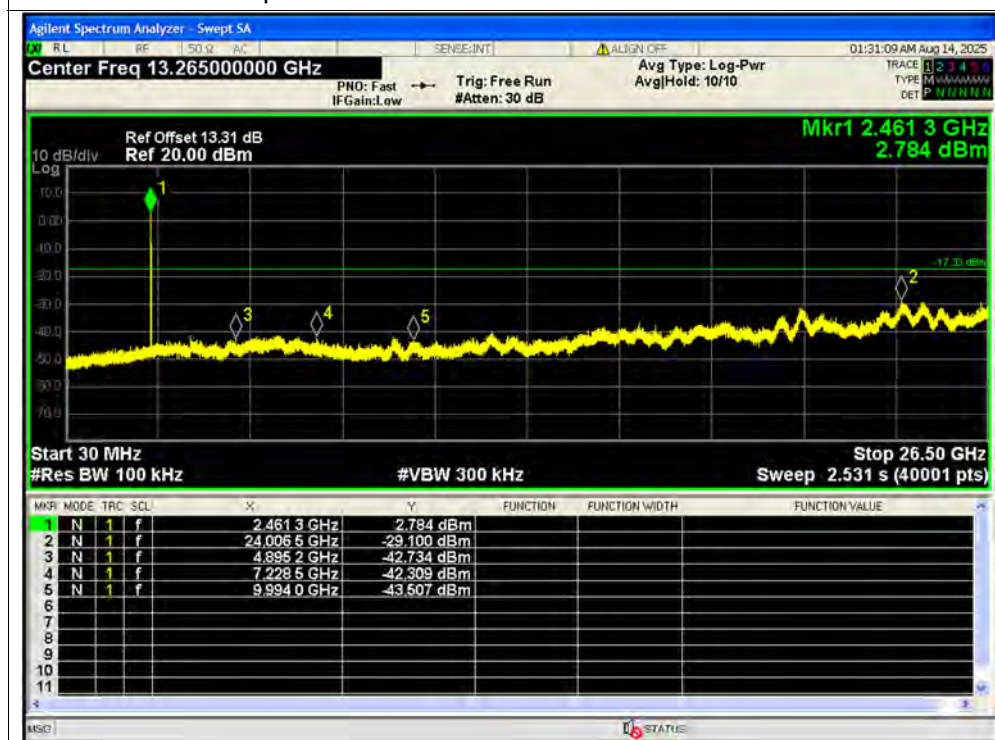
Tx. Spurious NVNT b 2437MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2462MHz Ant1 Ref SISO



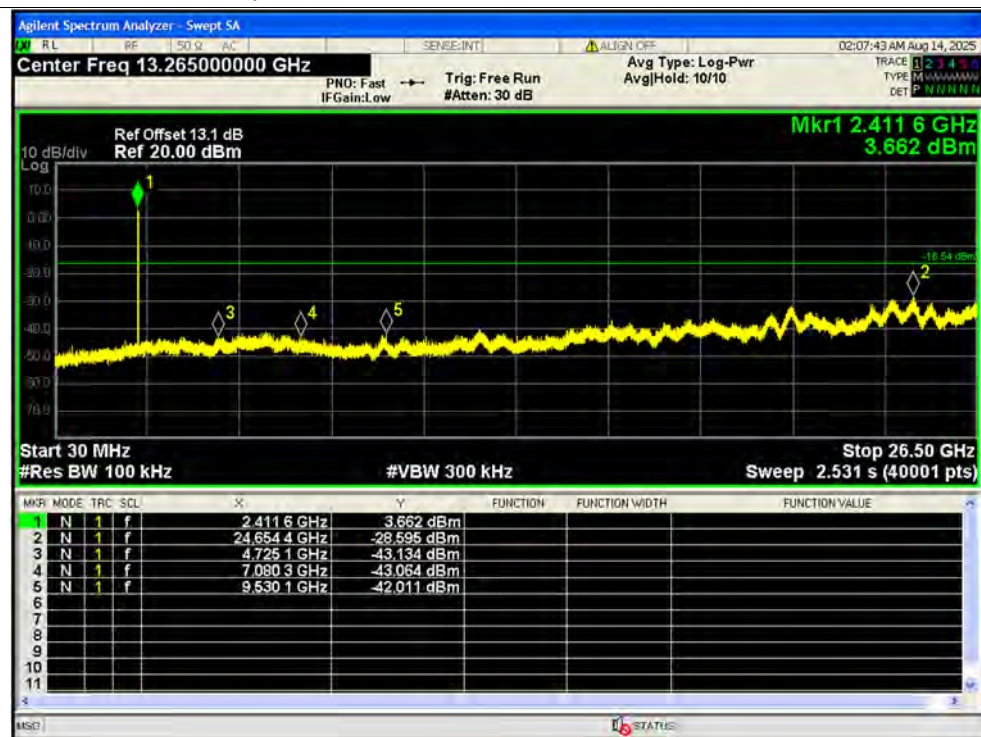
Tx. Spurious NVNT b 2462MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2412MHz Ant2 Ref SISO



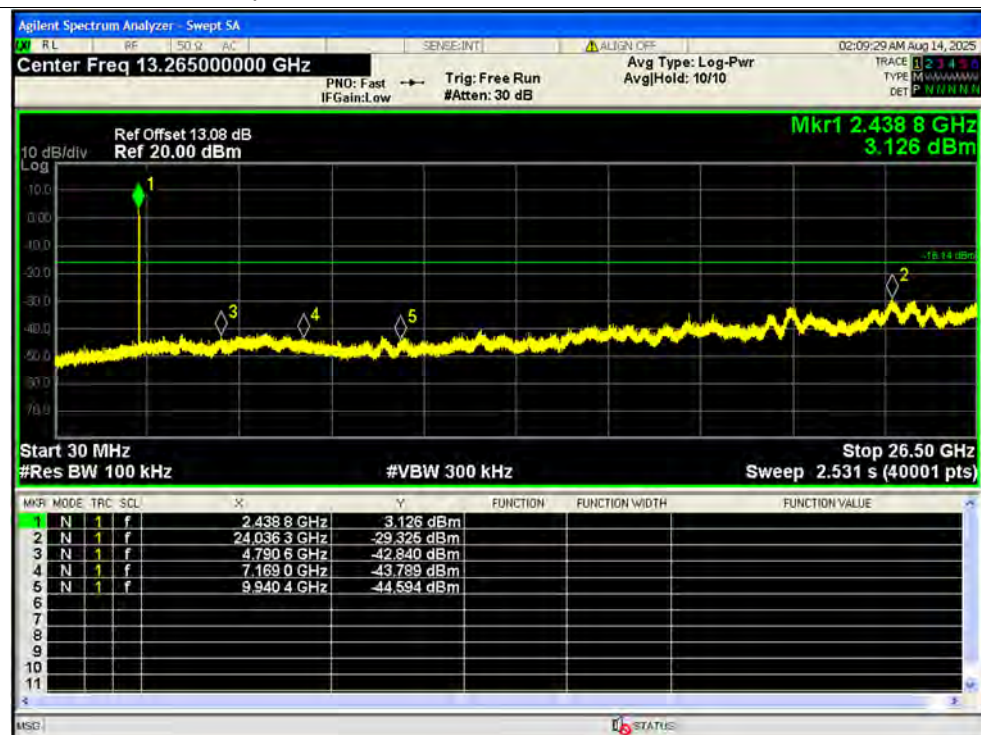
Tx. Spurious NVNT b 2412MHz Ant2 Emission SISO



Tx. Spurious NVNT b 2437MHz Ant2 Ref SISO



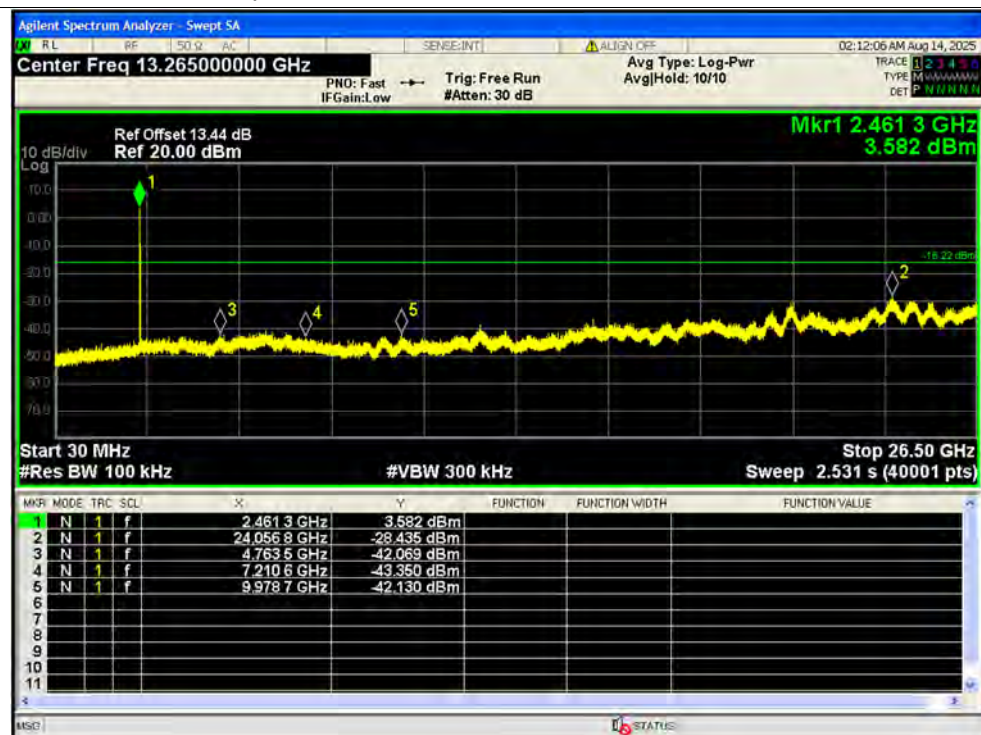
Tx. Spurious NVNT b 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT b 2462MHz Ant2 Ref SISO



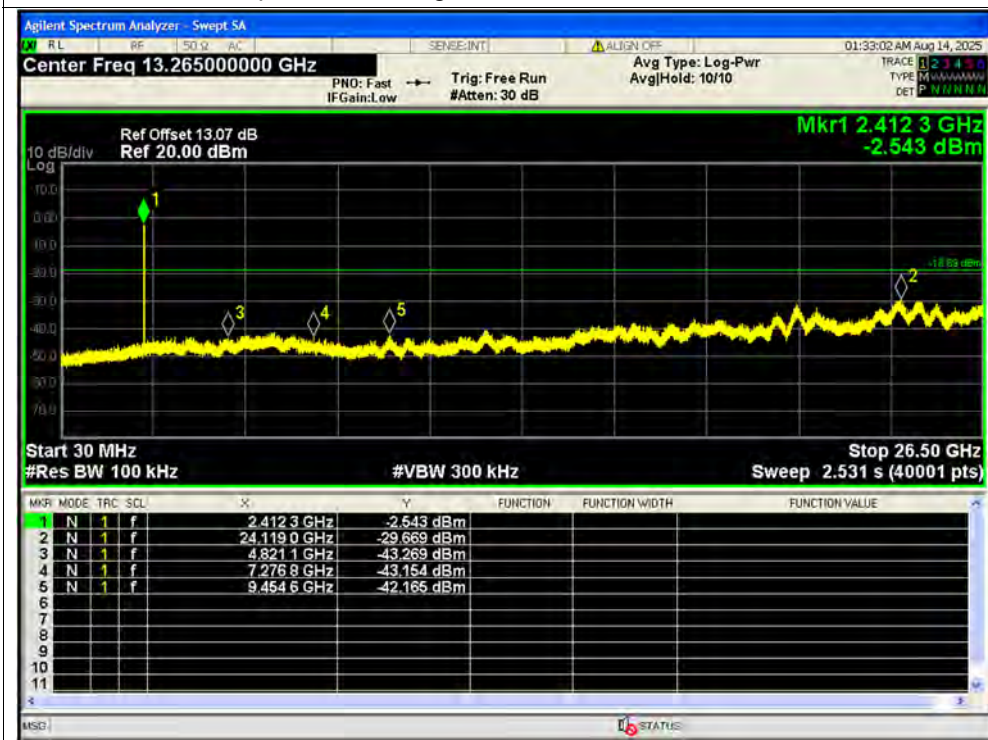
Tx. Spurious NVNT b 2462MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2412MHz Ant1 Ref SISO



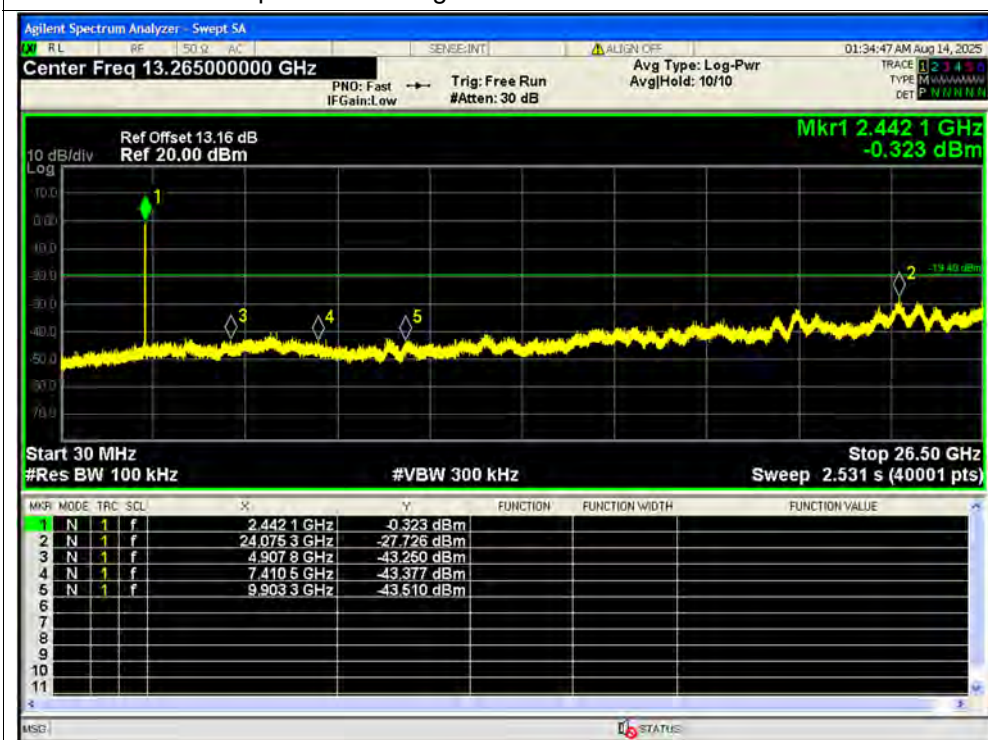
Tx. Spurious NVNT g 2412MHz Ant1 Emission SISO



Tx. Spurious NVNT g 2437MHz Ant1 Ref SISO



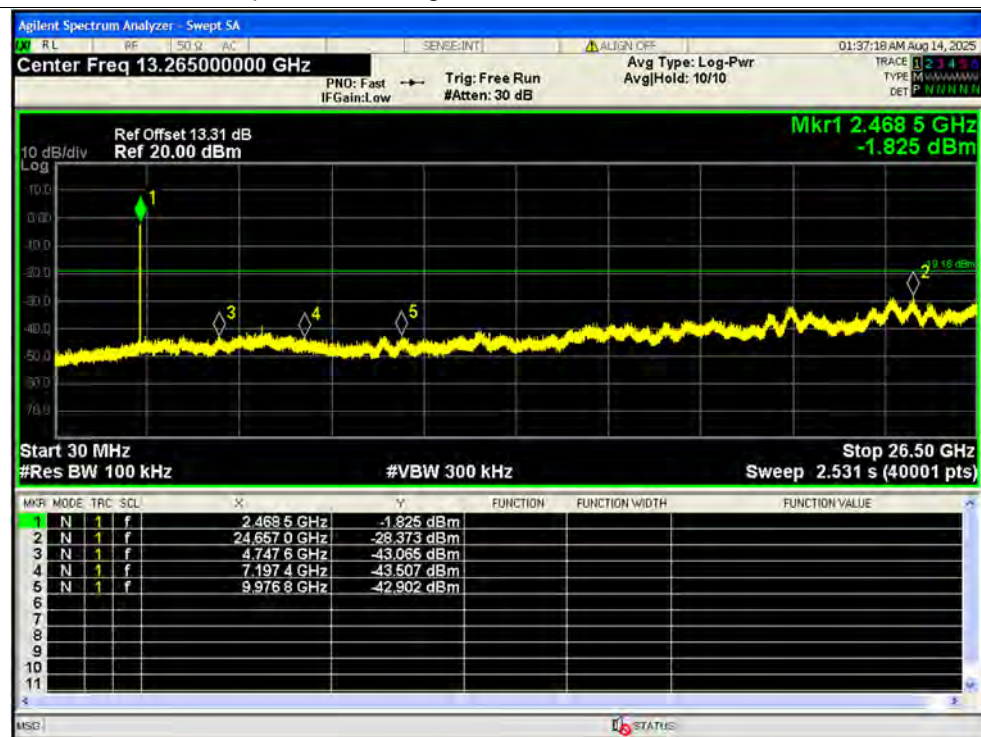
Tx. Spurious NVNT g 2437MHz Ant1 Emission SISO



Tx. Spurious NVNT g 2462MHz Ant1 Ref SISO



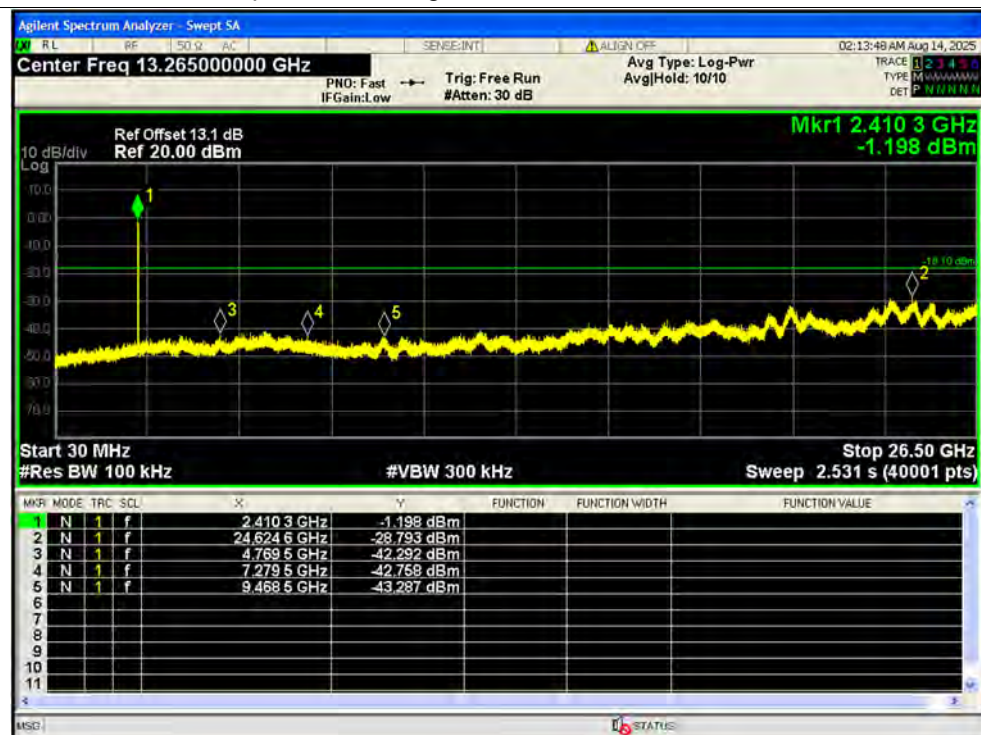
Tx. Spurious NVNT g 2462MHz Ant1 Emission SISO



Tx. Spurious NVNT g 2412MHz Ant2 Ref SISO



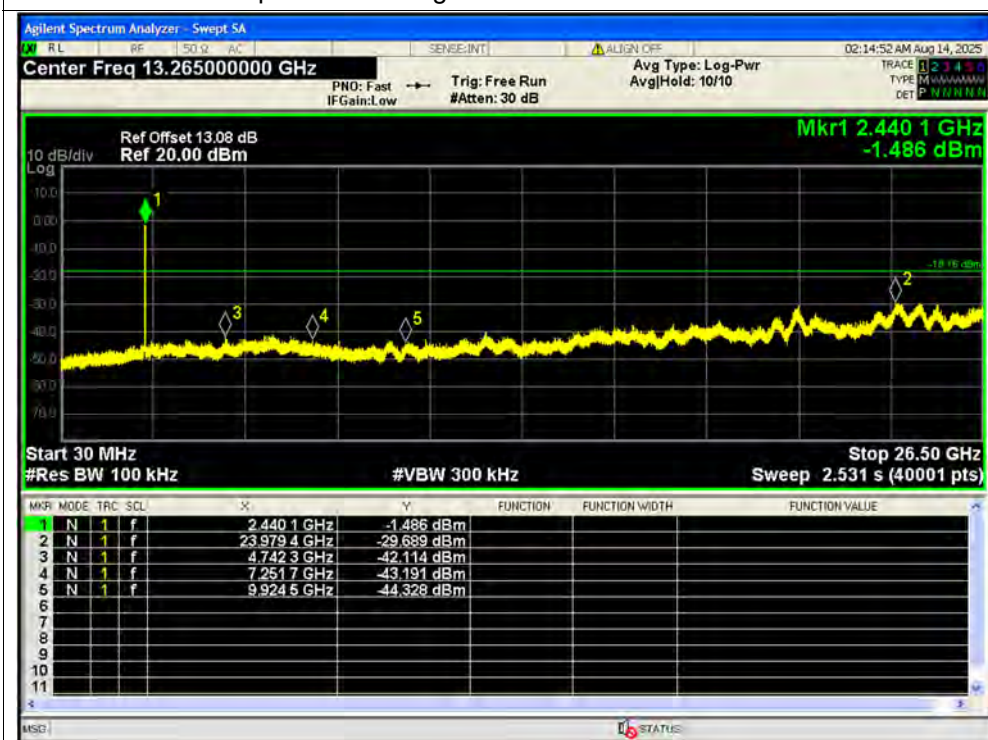
Tx. Spurious NVNT g 2412MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2437MHz Ant2 Ref SISO



Tx. Spurious NVNT g 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2462MHz Ant2 Ref SISO



Tx. Spurious NVNT g 2462MHz Ant2 Emission SISO

