



REPORT No.: SZ24080224W02

TEST REPORT

APPLICANT : Horizon Powered USA Inc.

PRODUCT NAME : 5MF500

MODEL NAME : MH500C

BRAND NAME : Horizon

FCC ID : 2BE94MH500C

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2024-08-23

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DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	5
1.2. Test Equipment List	6
1.3. Measurement Uncertainty	7
1.4. Testing Laboratory	8
2. General Description	9
2.1. Information of Applicant and Manufacturer	9
2.2. Information of EUT	9
2.3. Channel List of EUT	11
2.4. Test Configuration of EUT	12
2.5. Test Conditions	13
2.6. Test Setup Layout Diagram	14
3. Test Results	17
3.1. Antenna Requirement	17
3.2. Duty Cycle of Test Signal	18
3.3. Maximum Conducted Output Power	19
3.4. Emission Bandwidth	20
3.5. Peak Power Spectral Density	22
3.6. Frequency Stability	23
3.7. Dynamic Frequency Selection	24
3.8. Conducted Emission	29
3.9. Restricted Frequency Bands	30
3.10. Radiated Emission	32
Annex A Test Data and Result	34



REPORT No.: SZ24080224W02

Change History		
Version	Date	Reason for change
1.0	2024-11-26	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	ANSI C63.10	Duty Cycle of the Test Signal	Sep. 09&10, 2024	Li Zikai	PASS	No deviation
3	15.407(a)	Maximum Conducted Output Power	Sep. 09&10, 2024	Li Zikai	PASS	No deviation
4	15.407(a)(e)	Emission Bandwidth	Sep. 09, 2024 Oct. 17, 2024	Li Zikai	PASS	No deviation
5	15.407(a)	Peak Power Spectral Density	Sep. 09, 2024 Oct. 17, 2024	Li Zikai	PASS	No deviation
6	15.407(g)	Frequency Stability	Oct. 29, 2024	Li Zikai	PASS	No deviation
7	15.407(h)	DFS	Oct. 06, 2024	Li Zikai	PASS	No deviation
8	15.207	Conducted Emission	Sep. 06, 2024	Fan Shengquan	PASS	No deviation
9	15.407(b)	Restricted Frequency Bands	Oct. 01, 2024	Li Hanbin	PASS	No deviation
10	15.407(b)	Radiated Emission	Oct. 01, 2024	Li Hanbin	PASS	No deviation

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 789033 D02 v02r01.

Note 3: These RF tests were performed according to the method of measurements prescribed in KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

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



1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart E 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	MY5347083 6	N9010A	Agilent	2024.02.19	2025.02.18
Power Sensor	MY5418000 8	U2021XA	Agilent	2024.09.11	2025.09.10
Temperature Chamber	12108015	DTL-003S101	YOMA	2024.09.11	2025.09.10
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Attenuator	MTJ6004-10	10dB	MTJ cooperation	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%
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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Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Horizon Powered USA Inc.
Applicant Address	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States
Manufacturer	Horizon Powered USA Inc.
Manufacturer Address	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States

2.2. Information of EUT

Product Name:	5MF500	
Sample No.:	2#	
Hardware Version:	A1	
Software Version:	1.10.20	
Modulation Technology:	OFDM, OFDMA	
Modulation Mode:	802.11a, 802.11n (HT20), 802.11n (HT40) 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ac (VHT160) 802.11ax (HEW20), 802.11ax (HEW40), 802.11ax (HEW80), 802.11ax (HEW160)	
Operating Frequency Range:	5180MHz-5240MHz; 5260MHz-5320MHz; 5745MHz-5825MHz	
DFS Function:	☐ Slave without radar detection ☐ Slave with radar detection ☒ Master	
Antenna Type:	Fixed FPC Internal Antenna	
Antenna Gain:	ANT0: 2.3dBi; ANT1: -0.4dBi;	
Directional Gain:	4.06 ^{Note 2}	
Accessory Information:	Battery	
	Brand Name:	Donpguan Lisheng
	Model No.:	BL5060
	Serial No.:	N/A
	Rated Capacity:	5000mAh



	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Donpguan Lisheng
	AC Adapter	
	Brand Name:	DONGGUAN GUANGSHU
	Model No.:	P050W3000LU
	Serial No.:	N/A
	Rated Output:	5V $\pm$ 3A, 9V $\pm$ 2A, 12V $\pm$ 1.5A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5maxA
	Manufacturer:	DONGGUAN GUANGSHU

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

Modulation Mode:	TX Function
802.11a	1TX
802.11n	2TX
802.11ac	2TX
802.11ax	2TX

Note 2: According to KDB 662911 D01, the directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2]$.

Note 3: All radiation test items for 802.11n, 802.11ac and 802.11ax modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result(ANT 1) in this report.

Note 4: We use the dedicated software to control the EUT continuous transmission.

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



2.3.Channel List of EUT

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
160MHz	40	5250		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5755	159	5795
80MHz	155	5775		

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

2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11a	20	OFDM	BPSK	6/9/12/18/24/36/48/54Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ac	20/40/80 (VHT20/40/80/160)	OFDM	BPSK	MCS0~MCS9	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		
802.11ax	20/40/80/160 (HEW20/40/80/160)	OFDM/ OFDMA	BPSK	MCS0~MCS11	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		
			1024QAM		

Note1: The RU allocation of 802.11ax mode, only full ru is supported.

Note2: 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.

Note3: 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.



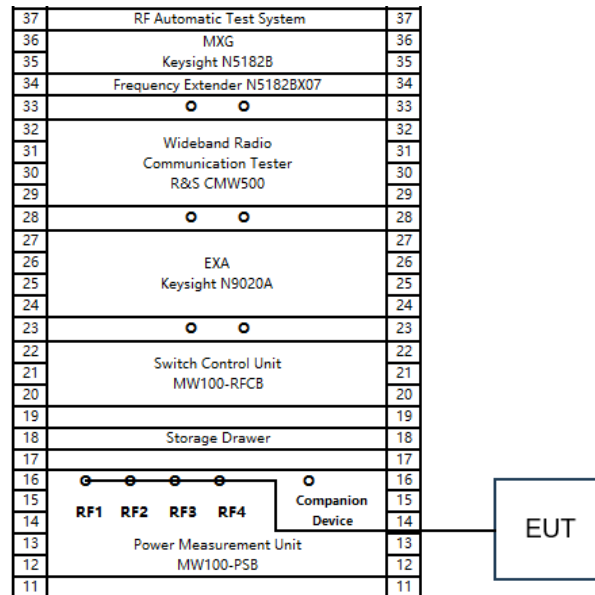
REPORT No.: SZ24080224W02

2.5. Test Conditions

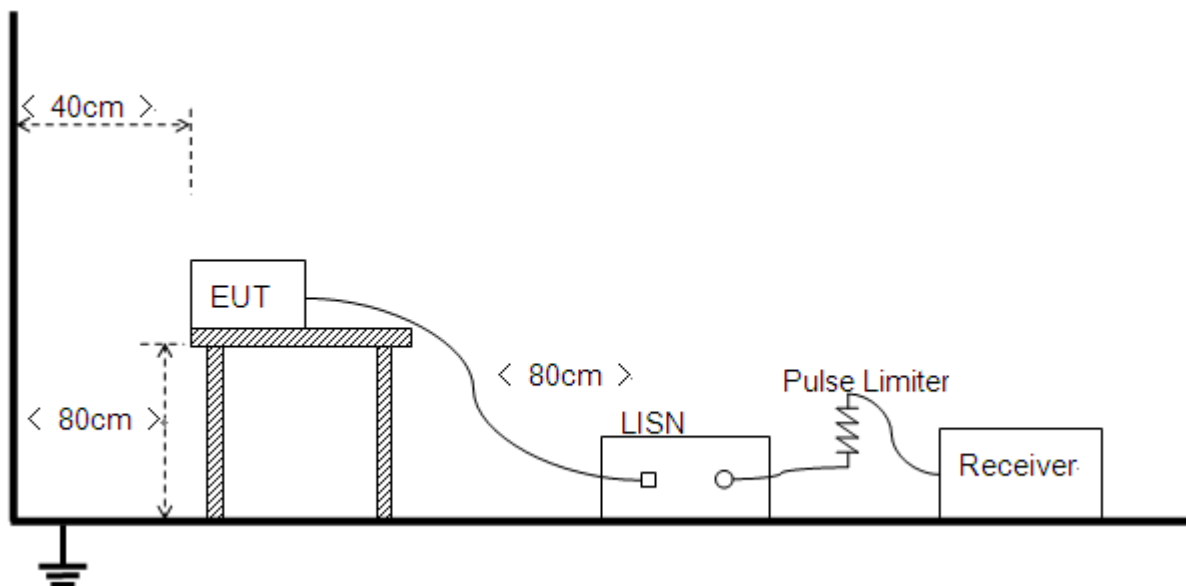
Temperature (°C)	15–35
Relative Humidity (%)	30–60
Atmospheric Pressure (kPa)	86–106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

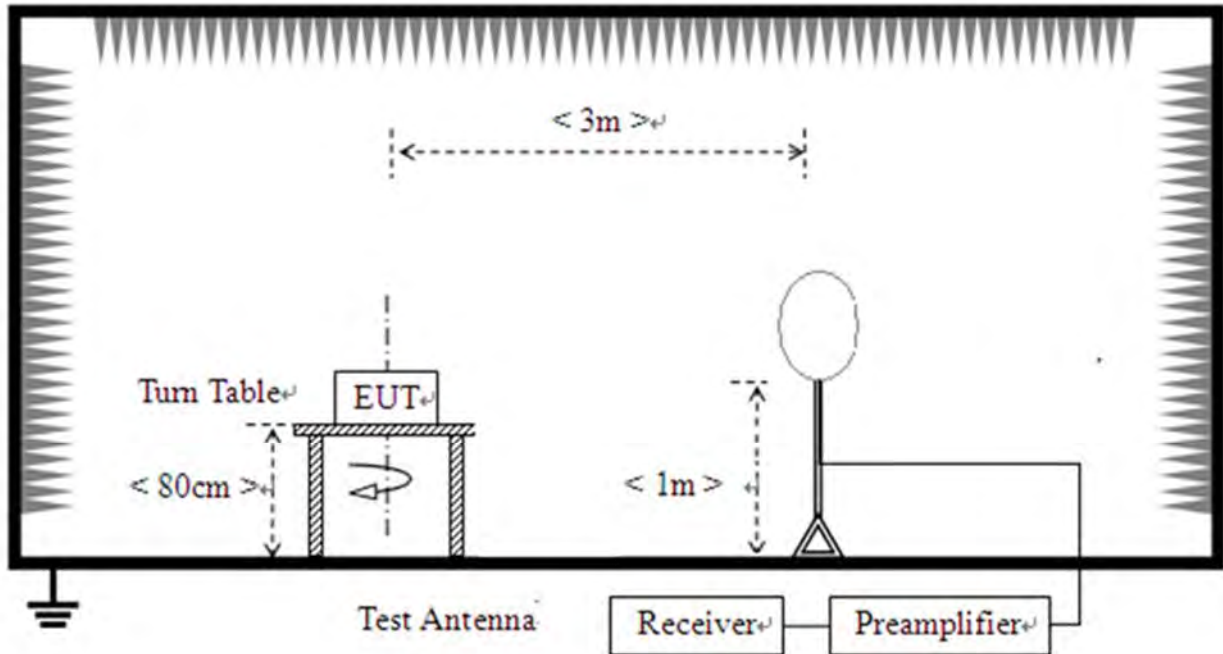


2.6.2. Conducted Emission Measurement

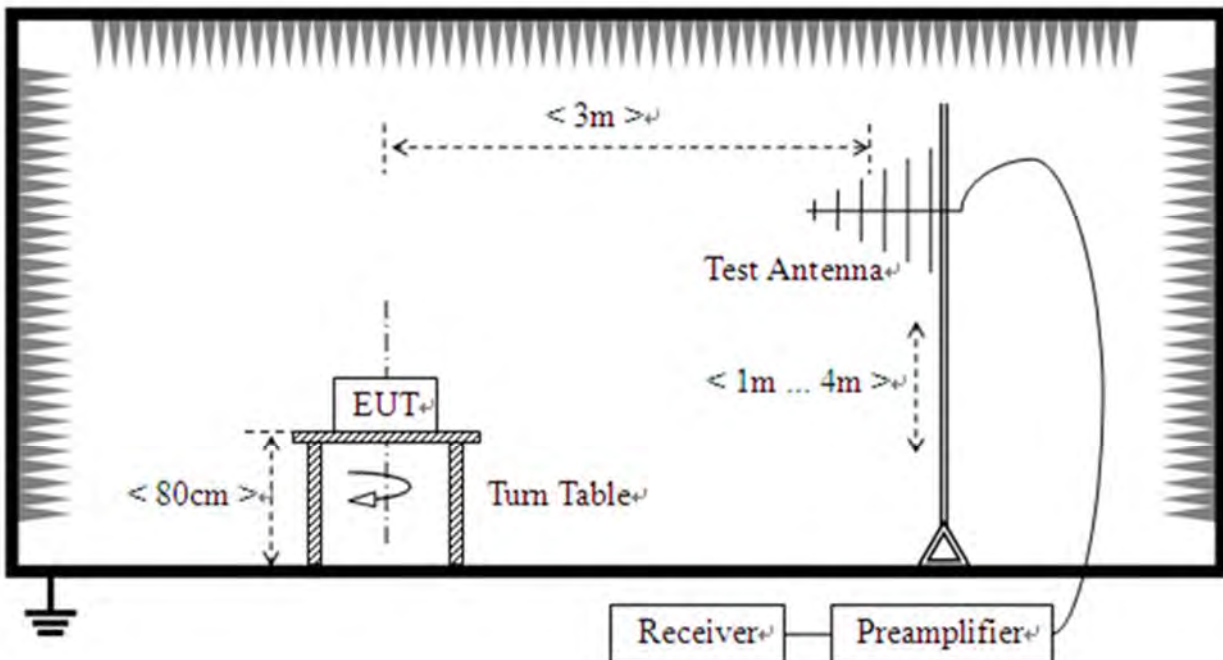


2.6.3.Radiation Measurement

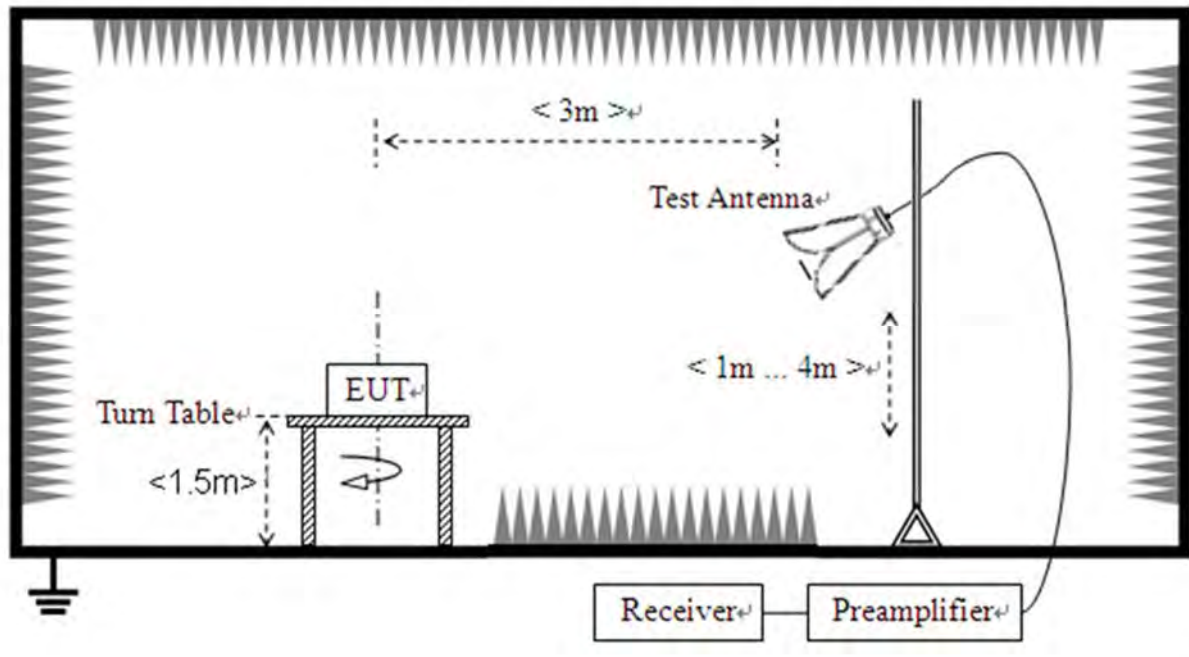
1) For radiated emissions from 9kHz to 30MHz



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 ☒ Fixed Internal Antenna	☒ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☐ Metal Shrapnel



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 Conducted Output Power

3.3.1. Requirement

(1) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(4) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.

(5) According to KDB 662911 D01, the directional gain = $G_{\text{ANT}} + 10\log(N_{\text{ANT}})\text{dBi}$, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

3.3.2. Test Procedures

Based on method PM-G in Section II.E.3.b) of KDB 789033 D02.

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 in this report.



3.4. Emission Bandwidth

3.4.1. Requirement

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement. Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.4.1. Test Procedures

1. KDB 789033 Section C) 1) Emission Bandwidth was used in order to prove compliance
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
2. KDB 789033 Section C) 2) minimum emission bandwidth for the band 5.725-5.85GHz was used in order to prove compliance.

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

 - a) Set RBW = 100 kHz.
 - b) Set video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



REPORT No.: SZ24080224W02

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.3 in this report.

3.5. Peak Power Spectral Density

3.5.1. Requirement

(1) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30dBm in any 500kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(4) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.

(5) According to KDB 662911 D01, the directional gain = $G_{ANT} + 10\log(N_{ANT})$ dBi, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

3.5.2. Test Procedures

KDB 789033 Section F) Maximum Power Spectral Density (PSD) Method SA-3 was used in order to prove compliance

- 1) Set span to encompass the entire 26-dB emission bandwidth
 - 2) Set RBW = 1MHz. Set VBW $\geq$ 3MHz
 - 3) Number of points in sweep $\geq$ 2 Span / RBW. Sweep time = auto
 - 4) Detector = Average
 - 5) Trace mode=Max hold
- Record the max value

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

Refer to Annex A.4 in this report.



3.6. Frequency Stability

3.6.1. Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2. Test Procedures

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

3.6.3. Test Result

Refer to Annex A.5 in this report.

3.7. Dynamic Frequency Selection

3.7.1. Requirement

According to FCC section 15.407(h), (1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW. (2)

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.¹

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.²

Tables 1 and 2 shown below summarize the information contained in sections 5.1.1 and 5.1.2.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode
-------------	------------------



	Master	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

The operational behavior and individual DFS requirements that are associated with these modes are as follows:

Master Devices

- The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 – 5350 MHz and 5470 – 5725 MHz bands. DFS is not required in the 5150 – 5250 MHz or 5725 – 5825 MHz bands.
- Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period. 3.



g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

Client Devices

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

DFS Detection Thresholds

Table 3 below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 mill watt	-64 dBm
EIRP < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 mill watt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Response Requirements

Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

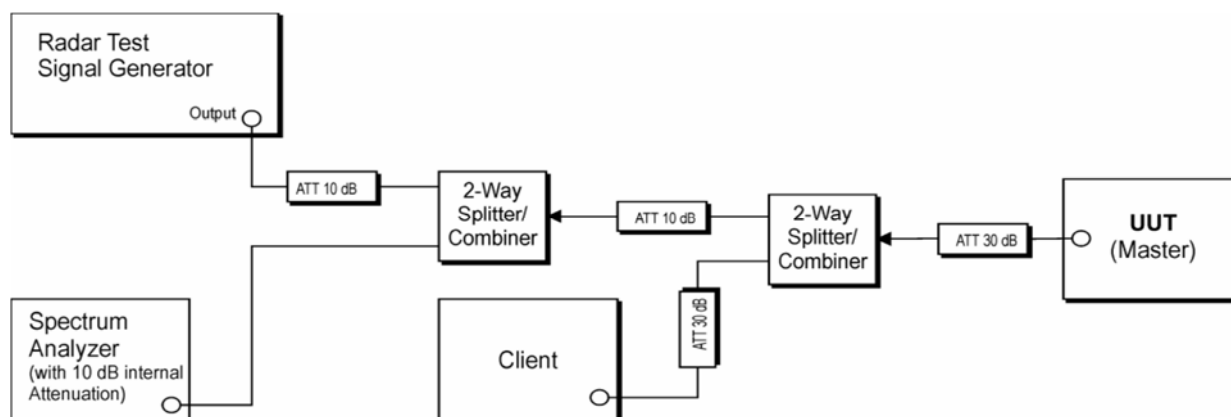
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

3.7.2.Test Description

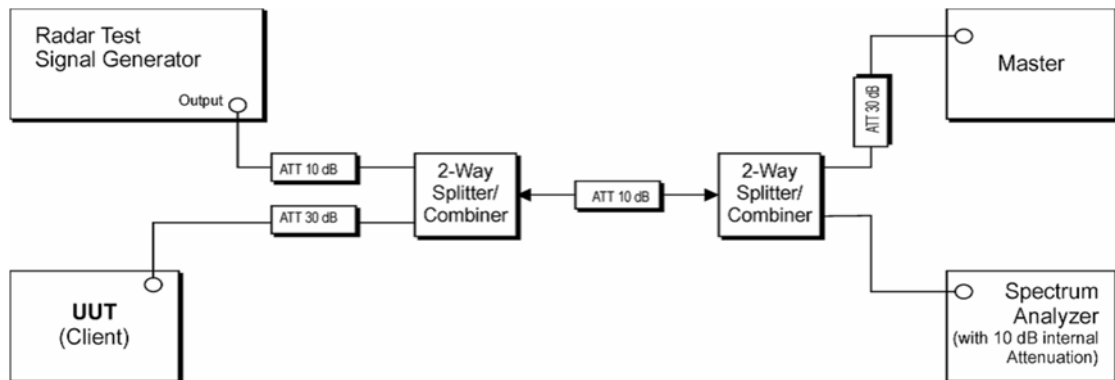
According to Section 7.2 of KDB 905462 D02 V01R01

1. Setup for Master with injection at the Master



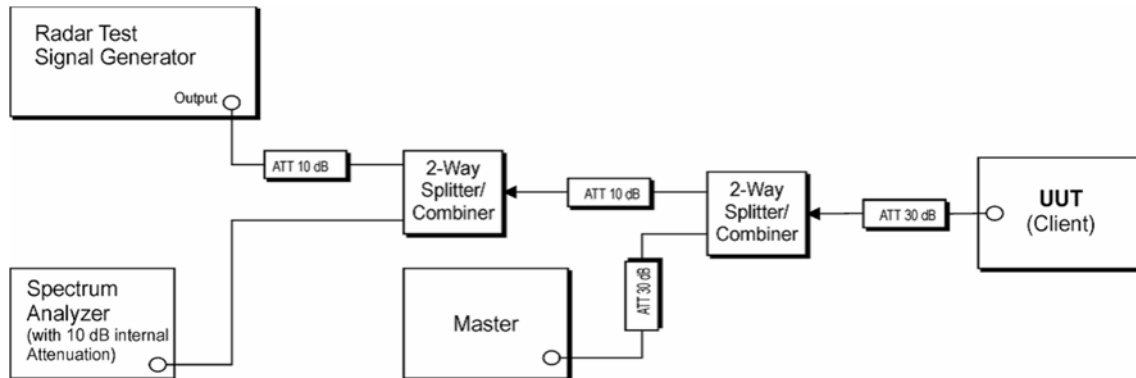
(Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master)

2. Setup for Client with injection at the Master



(Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master)

3. Setup for Client with injection at the Client



(Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client)

3.7.3.Information of Companion Device

Android Phone

3.7.4.Test Result

Refer to Annex A.6 in this report.

3.8. Conducted Emission

3.8.1. 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.

3.8.2. 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.

3.8.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4. Test Result

Refer to Annex A.7 in this report.

3.9. Restricted Frequency Bands

3.9.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m



Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. 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

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. 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 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.

KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance

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.

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A.8 in this report.

3.10. Radiated Emission

3.10.1.Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. 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 (μV/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



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. 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).

3.10.2.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.

3.10.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.10.4.Test Result

Refer to Annex A.9 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	a	5180	Ant0	99.05	0.04	0.48
NVNT	a	5220	Ant0	99.05	0.04	0.48
NVNT	a	5240	Ant0	99.05	0.04	0.48
NVNT	a	5260	Ant0	99.53	0.02	0.24
NVNT	a	5300	Ant0	99.05	0.04	0.48
NVNT	a	5320	Ant0	99.05	0.04	0.48
NVNT	a	5745	Ant0	99.05	0.04	0.48
NVNT	a	5785	Ant0	99.53	0.02	0.24
NVNT	a	5825	Ant0	99.53	0.02	0.24
NVNT	a	5180	Ant1	99.05	0.04	0.48
NVNT	a	5220	Ant1	99.05	0.04	0.48
NVNT	a	5240	Ant1	99.05	0.04	0.48
NVNT	a	5260	Ant1	99.05	0.04	0.48
NVNT	a	5300	Ant1	99.05	0.04	0.48
NVNT	a	5320	Ant1	99.05	0.04	0.48
NVNT	a	5745	Ant1	99.05	0.04	0.48
NVNT	a	5785	Ant1	99.05	0.04	0.48
NVNT	a	5825	Ant1	99.05	0.04	0.48
NVNT	n20	5180	Ant0	99.9	0	0
NVNT	n20	5220	Ant0	99.9	0	0
NVNT	n20	5240	Ant0	99.63	0.02	0.19
NVNT	n20	5260	Ant0	99.63	0.02	0.19
NVNT	n20	5300	Ant0	99.9	0	0
NVNT	n20	5320	Ant0	99.9	0	0
NVNT	n20	5745	Ant0	99.9	0	0
NVNT	n20	5785	Ant0	99.9	0	0
NVNT	n20	5825	Ant0	99.9	0	0
NVNT	n20	5180	Ant1	99.9	0	0
NVNT	n20	5220	Ant1	99.9	0	0
NVNT	n20	5240	Ant1	99.63	0.02	0.19
NVNT	n20	5260	Ant1	99.63	0.02	0.19
NVNT	n20	5300	Ant1	99.9	0	0



NVNT	n20	5320	Ant1	99.9	0	0
NVNT	n20	5745	Ant1	100	0	0
NVNT	n20	5785	Ant1	99.9	0	0
NVNT	n20	5825	Ant1	99.9	0	0
NVNT	n20	5180	Sum	99.9	0	0
NVNT	n20	5220	Sum	99.9	0	0
NVNT	n20	5240	Sum	99.9	0	0
NVNT	n20	5260	Sum	99.9	0	0
NVNT	n20	5300	Sum	99.63	0.02	0.19
NVNT	n20	5320	Sum	99.9	0	0
NVNT	n20	5745	Sum	99.63	0.02	0.19
NVNT	n20	5785	Sum	99.9	0	0
NVNT	n20	5825	Sum	99.9	0	0
NVNT	n40	5190	Ant0	99.9	0	0
NVNT	n40	5230	Ant0	99.62	0.02	0.19
NVNT	n40	5270	Ant0	99.9	0	0
NVNT	n40	5310	Ant0	99.62	0.02	0.19
NVNT	n40	5755	Ant0	99.9	0	0
NVNT	n40	5795	Ant0	99.62	0.02	0.19
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	99.9	0	0
NVNT	n40	5270	Ant1	99.9	0	0
NVNT	n40	5310	Ant1	99.9	0	0
NVNT	n40	5755	Ant1	99.9	0	0
NVNT	n40	5795	Ant1	99.62	0.02	0.19
NVNT	n40	5190	Sum	99.9	0	0
NVNT	n40	5230	Sum	99.9	0	0
NVNT	n40	5270	Sum	99.9	0	0
NVNT	n40	5310	Sum	99.9	0	0
NVNT	n40	5755	Sum	99.62	0.02	0.19
NVNT	n40	5795	Sum	99.9	0	0
NVNT	ac20	5180	Ant0	99.63	0.02	0.19
NVNT	ac20	5220	Ant0	99.9	0	0
NVNT	ac20	5240	Ant0	99.63	0.02	0.19
NVNT	ac20	5260	Ant0	99.9	0	0
NVNT	ac20	5300	Ant0	99.63	0.02	0.19
NVNT	ac20	5320	Ant0	99.9	0	0
NVNT	ac20	5745	Ant0	99.9	0	0



NVNT	ac20	5785	Ant0	99.9	0	0
NVNT	ac20	5825	Ant0	99.9	0	0
NVNT	ac20	5180	Ant1	99.9	0	0
NVNT	ac20	5220	Ant1	99.9	0	0
NVNT	ac20	5240	Ant1	99.63	0.02	0.19
NVNT	ac20	5260	Ant1	99.9	0	0
NVNT	ac20	5300	Ant1	99.9	0	0
NVNT	ac20	5320	Ant1	99.9	0	0
NVNT	ac20	5745	Ant1	99.63	0.02	0.19
NVNT	ac20	5785	Ant1	99.9	0	0
NVNT	ac20	5825	Ant1	99.63	0.02	0.19
NVNT	ac20	5180	Sum	99.9	0	0
NVNT	ac20	5220	Sum	99.63	0.02	0.19
NVNT	ac20	5240	Sum	99.9	0	0
NVNT	ac20	5260	Sum	99.9	0	0
NVNT	ac20	5300	Sum	99.9	0	0
NVNT	ac20	5320	Sum	99.9	0	0
NVNT	ac20	5745	Sum	99.63	0.02	0.19
NVNT	ac20	5785	Sum	99.9	0	0
NVNT	ac20	5825	Sum	99.63	0.02	0.19
NVNT	ac40	5190	Ant0	99.9	0	0
NVNT	ac40	5230	Ant0	99.9	0	0
NVNT	ac40	5270	Ant0	99.62	0.02	0.19
NVNT	ac40	5310	Ant0	99.9	0	0
NVNT	ac40	5755	Ant0	99.9	0	0
NVNT	ac40	5795	Ant0	99.62	0.02	0.19
NVNT	ac40	5190	Ant1	99.62	0.02	0.19
NVNT	ac40	5230	Ant1	99.9	0	0
NVNT	ac40	5270	Ant1	99.9	0	0
NVNT	ac40	5310	Ant1	99.9	0	0
NVNT	ac40	5755	Ant1	99.9	0	0
NVNT	ac40	5795	Ant1	99.9	0	0
NVNT	ac40	5190	Sum	100	0	0
NVNT	ac40	5230	Sum	99.9	0	0
NVNT	ac40	5270	Sum	99.9	0	0
NVNT	ac40	5310	Sum	99.9	0	0
NVNT	ac40	5755	Sum	100	0	0
NVNT	ac40	5795	Sum	99.62	0.02	0.19



NVNT	ac80	5210	Ant0	99.55	0.02	0.22
NVNT	ac80	5290	Ant0	99.55	0.02	0.22
NVNT	ac80	5775	Ant0	99.1	0.04	0.45
NVNT	ac80	5210	Ant1	99.55	0.02	0.22
NVNT	ac80	5290	Ant1	99.1	0.04	0.45
NVNT	ac80	5775	Ant1	99.7	0.01	0.15
NVNT	ac80	5210	Sum	99.63	0.02	0.18
NVNT	ac80	5290	Sum	99.63	0.02	0.18
NVNT	ac80	5775	Sum	99.63	0.02	0.18
NVNT	ax20	5180	Ant0	99.9	0	0
NVNT	ax20	5220	Ant0	99.9	0	0
NVNT	ax20	5240	Ant0	99.9	0	0
NVNT	ax20	5260	Ant0	99.63	0.02	0.18
NVNT	ax20	5300	Ant0	99.63	0.02	0.18
NVNT	ax20	5320	Ant0	99.63	0.02	0.18
NVNT	ax20	5745	Ant0	99.9	0	0
NVNT	ax20	5785	Ant0	99.9	0	0
NVNT	ax20	5825	Ant0	99.9	0	0
NVNT	ax20	5180	Ant1	99.9	0	0
NVNT	ax20	5220	Ant1	99.63	0.02	0.18
NVNT	ax20	5240	Ant1	99.9	0	0
NVNT	ax20	5260	Ant1	99.63	0.02	0.18
NVNT	ax20	5300	Ant1	99.9	0	0
NVNT	ax20	5320	Ant1	99.9	0	0
NVNT	ax20	5745	Ant1	99.63	0.02	0.18
NVNT	ax20	5785	Ant1	99.63	0.02	0.18
NVNT	ax20	5825	Ant1	99.9	0	0
NVNT	ax20	5180	Sum	99.9	0	0
NVNT	ax20	5220	Sum	99.63	0.02	0.18
NVNT	ax20	5240	Sum	99.9	0	0
NVNT	ax20	5260	Sum	99.9	0	0
NVNT	ax20	5300	Sum	99.63	0.02	0.18
NVNT	ax20	5320	Sum	99.9	0	0
NVNT	ax20	5745	Sum	99.9	0	0
NVNT	ax20	5785	Sum	99.9	0	0
NVNT	ax20	5825	Sum	99.63	0.02	0.18
NVNT	ax40	5190	Ant0	99.9	0	0
NVNT	ax40	5230	Ant0	99.62	0.02	0.19



REPORT No.: SZ24080224W02

NVNT	ax40	5270	Ant0	99.62	0.02	0.19
NVNT	ax40	5310	Ant0	99.9	0	0
NVNT	ax40	5755	Ant0	100	0	0
NVNT	ax40	5795	Ant0	99.9	0	0
NVNT	ax40	5190	Ant1	100	0	0
NVNT	ax40	5230	Ant1	100	0	0
NVNT	ax40	5270	Ant1	100	0	0
NVNT	ax40	5310	Ant1	100	0	0
NVNT	ax40	5755	Ant1	100	0	0
NVNT	ax40	5795	Ant1	100	0	0
NVNT	ax40	5190	Sum	99.51	0.02	0.24
NVNT	ax40	5230	Sum	99.51	0.02	0.24
NVNT	ax40	5270	Sum	99.51	0.02	0.24
NVNT	ax40	5310	Sum	100	0	0
NVNT	ax40	5755	Sum	100	0	0
NVNT	ax40	5795	Sum	100	0	0
NVNT	ax80	5210	Ant0	99.7	0.01	0.15
NVNT	ax80	5290	Ant0	99.55	0.02	0.22
NVNT	ax80	5775	Ant0	99.55	0.02	0.22
NVNT	ax80	5210	Ant1	99.1	0.04	0.45
NVNT	ax80	5290	Ant1	99.55	0.02	0.22
NVNT	ax80	5775	Ant1	99.9	0	0
NVNT	ax80	5210	Sum	99.55	0.02	0.22
NVNT	ax80	5290	Sum	99.9	0	0
NVNT	ax80	5775	Sum	99.1	0.04	0.45

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

Condition	Mode	Frequency (MHz)	Antenna	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	a	5180	Ant0	12.74	0.01879	30	Pass
NVNT	a	5220	Ant0	12.73	0.01875	30	Pass
NVNT	a	5240	Ant0	12.33	0.0171	30	Pass
NVNT	a	5260	Ant0	12.56	0.01803	24	Pass
NVNT	a	5300	Ant0	12.04	0.016	23.98	Pass
NVNT	a	5320	Ant0	12	0.01585	24	Pass
NVNT	a	5745	Ant0	14.56	0.02858	30	Pass
NVNT	a	5785	Ant0	13.67	0.02328	30	Pass
NVNT	a	5825	Ant0	13.09	0.02037	30	Pass
NVNT	a	5180	Ant1	11.57	0.01435	30	Pass
NVNT	a	5220	Ant1	11.41	0.01384	30	Pass
NVNT	a	5240	Ant1	11.43	0.0139	30	Pass
NVNT	a	5260	Ant1	11.56	0.01432	23.99	Pass
NVNT	a	5300	Ant1	11.38	0.01374	24	Pass
NVNT	a	5320	Ant1	11.63	0.01455	23.99	Pass
NVNT	a	5745	Ant1	15.36	0.03436	30	Pass
NVNT	a	5785	Ant1	13.85	0.02427	30	Pass
NVNT	a	5825	Ant1	13.68	0.02333	30	Pass
NVNT	n20	5180	Ant0	12.45	0.01758	30	Pass
NVNT	n20	5220	Ant0	12.39	0.01734	30	Pass
NVNT	n20	5240	Ant0	12.08	0.01614	30	Pass
NVNT	n20	5260	Ant0	12.3	0.01698	24	Pass
NVNT	n20	5300	Ant0	11.79	0.0151	24	Pass
NVNT	n20	5320	Ant0	11.72	0.01486	24	Pass
NVNT	n20	5745	Ant0	14.27	0.02673	30	Pass
NVNT	n20	5785	Ant0	13.47	0.02223	30	Pass
NVNT	n20	5825	Ant0	12.8	0.01905	30	Pass
NVNT	n20	5180	Ant1	11.27	0.0134	30	Pass
NVNT	n20	5220	Ant1	11.13	0.01297	30	Pass
NVNT	n20	5240	Ant1	11.17	0.01309	30	Pass
NVNT	n20	5260	Ant1	11.21	0.01321	24	Pass
NVNT	n20	5300	Ant1	11.05	0.01274	24	Pass
NVNT	n20	5320	Ant1	11.27	0.0134	24	Pass



REPORT No.: SZ24080224W02

NVNT	n20	5745	Ant1	15.01	0.0317	30	Pass
NVNT	n20	5785	Ant1	13.55	0.02265	30	Pass
NVNT	n20	5825	Ant1	13.4	0.02188	30	Pass
NVNT	n20	5180	Ant0	12.48	0.0177	30	Pass
NVNT	n20	5180	Ant1	11.46	0.014	30	Pass
NVNT	n20	5180	Sum	15.01	0.0317	30	Pass
NVNT	n20	5220	Ant0	12.35	0.01718	30	Pass
NVNT	n20	5220	Ant1	11.31	0.01352	30	Pass
NVNT	n20	5220	Sum	14.87	0.0307	30	Pass
NVNT	n20	5240	Ant0	12.02	0.01592	30	Pass
NVNT	n20	5240	Ant1	11.4	0.0138	30	Pass
NVNT	n20	5240	Sum	14.73	0.02973	30	Pass
NVNT	n20	5260	Ant0	12.27	0.01687	24	Pass
NVNT	n20	5260	Ant1	11.49	0.01409	24	Pass
NVNT	n20	5260	Sum	14.91	0.03096	24	Pass
NVNT	n20	5300	Ant0	11.79	0.0151	24	Pass
NVNT	n20	5300	Ant1	11.31	0.01352	24	Pass
NVNT	n20	5300	Sum	14.57	0.02862	24	Pass
NVNT	n20	5320	Ant0	11.71	0.01483	24	Pass
NVNT	n20	5320	Ant1	11.57	0.01435	24	Pass
NVNT	n20	5320	Sum	14.65	0.02918	24	Pass
NVNT	n20	5745	Ant0	14.17	0.02612	30	Pass
NVNT	n20	5745	Ant1	15.19	0.03304	30	Pass
NVNT	n20	5745	Sum	17.72	0.05916	30	Pass
NVNT	n20	5785	Ant0	13.24	0.02109	30	Pass
NVNT	n20	5785	Ant1	13.72	0.02355	30	Pass
NVNT	n20	5785	Sum	16.5	0.04464	30	Pass
NVNT	n20	5825	Ant0	12.6	0.0182	30	Pass
NVNT	n20	5825	Ant1	13.41	0.02193	30	Pass
NVNT	n20	5825	Sum	16.03	0.04013	30	Pass
NVNT	n40	5190	Ant0	13.33	0.02153	30	Pass
NVNT	n40	5230	Ant0	13	0.01995	30	Pass
NVNT	n40	5270	Ant0	12.62	0.01828	24	Pass
NVNT	n40	5310	Ant0	12.75	0.01884	24	Pass
NVNT	n40	5755	Ant0	15.11	0.03243	30	Pass
NVNT	n40	5795	Ant0	14.19	0.02624	30	Pass
NVNT	n40	5190	Ant1	12.16	0.01644	30	Pass
NVNT	n40	5230	Ant1	12.12	0.01629	30	Pass



NVNT	n40	5270	Ant1	12.54	0.01795	24	Pass
NVNT	n40	5310	Ant1	12.35	0.01718	24	Pass
NVNT	n40	5755	Ant1	15.96	0.03945	30	Pass
NVNT	n40	5795	Ant1	14.52	0.02831	30	Pass
NVNT	n40	5190	Ant0	13.45	0.02213	30	Pass
NVNT	n40	5190	Ant1	12.42	0.01746	30	Pass
NVNT	n40	5190	Sum	15.98	0.03959	30	Pass
NVNT	n40	5230	Ant0	13.11	0.02046	30	Pass
NVNT	n40	5230	Ant1	12.38	0.0173	30	Pass
NVNT	n40	5230	Sum	15.77	0.03776	30	Pass
NVNT	n40	5270	Ant0	12.7	0.01862	24	Pass
NVNT	n40	5270	Ant1	12.81	0.0191	24	Pass
NVNT	n40	5270	Sum	15.77	0.03772	24	Pass
NVNT	n40	5310	Ant0	12.77	0.01892	24	Pass
NVNT	n40	5310	Ant1	12.58	0.01811	24	Pass
NVNT	n40	5310	Sum	15.69	0.03704	24	Pass
NVNT	n40	5755	Ant0	15.14	0.03266	30	Pass
NVNT	n40	5755	Ant1	16.07	0.04046	30	Pass
NVNT	n40	5755	Sum	18.64	0.07312	30	Pass
NVNT	n40	5795	Ant0	14.18	0.02618	30	Pass
NVNT	n40	5795	Ant1	14.68	0.02938	30	Pass
NVNT	n40	5795	Sum	17.45	0.05556	30	Pass
NVNT	ac20	5180	Ant0	12.5	0.01778	30	Pass
NVNT	ac20	5220	Ant0	12.39	0.01734	30	Pass
NVNT	ac20	5240	Ant0	12.05	0.01603	30	Pass
NVNT	ac20	5260	Ant0	12.26	0.01683	24	Pass
NVNT	ac20	5300	Ant0	11.79	0.0151	24	Pass
NVNT	ac20	5320	Ant0	11.72	0.01486	24	Pass
NVNT	ac20	5745	Ant0	14.27	0.02673	30	Pass
NVNT	ac20	5785	Ant0	13.44	0.02208	30	Pass
NVNT	ac20	5825	Ant0	12.83	0.01919	30	Pass
NVNT	ac20	5180	Ant1	11.26	0.01337	30	Pass
NVNT	ac20	5220	Ant1	11.13	0.01297	30	Pass
NVNT	ac20	5240	Ant1	11.16	0.01306	30	Pass
NVNT	ac20	5260	Ant1	11.25	0.01334	24	Pass
NVNT	ac20	5300	Ant1	11	0.01259	24	Pass
NVNT	ac20	5320	Ant1	11.23	0.01327	24	Pass
NVNT	ac20	5745	Ant1	14.97	0.03141	30	Pass



REPORT No.: SZ24080224W02

NVNT	ac20	5785	Ant1	13.51	0.02244	30	Pass
NVNT	ac20	5825	Ant1	13.24	0.02109	30	Pass
NVNT	ac20	5180	Ant0	12.39	0.01734	30	Pass
NVNT	ac20	5180	Ant1	11.41	0.01384	30	Pass
NVNT	ac20	5180	Sum	14.94	0.03117	30	Pass
NVNT	ac20	5220	Ant0	12.37	0.01726	30	Pass
NVNT	ac20	5220	Ant1	11.32	0.01355	30	Pass
NVNT	ac20	5220	Sum	14.89	0.03081	30	Pass
NVNT	ac20	5240	Ant0	12.03	0.01596	30	Pass
NVNT	ac20	5240	Ant1	11.39	0.01377	30	Pass
NVNT	ac20	5240	Sum	14.73	0.02973	30	Pass
NVNT	ac20	5260	Ant0	12.22	0.01667	24	Pass
NVNT	ac20	5260	Ant1	11.55	0.01429	24	Pass
NVNT	ac20	5260	Sum	14.91	0.03096	24	Pass
NVNT	ac20	5300	Ant0	11.77	0.01503	24	Pass
NVNT	ac20	5300	Ant1	11.34	0.01361	24	Pass
NVNT	ac20	5300	Sum	14.57	0.02865	24	Pass
NVNT	ac20	5320	Ant0	11.7	0.01479	24	Pass
NVNT	ac20	5320	Ant1	11.61	0.01449	24	Pass
NVNT	ac20	5320	Sum	14.67	0.02928	24	Pass
NVNT	ac20	5745	Ant0	14.15	0.026	30	Pass
NVNT	ac20	5745	Ant1	15.19	0.03304	30	Pass
NVNT	ac20	5745	Sum	17.71	0.05904	30	Pass
NVNT	ac20	5785	Ant0	13.25	0.02113	30	Pass
NVNT	ac20	5785	Ant1	13.77	0.02382	30	Pass
NVNT	ac20	5785	Sum	16.53	0.04496	30	Pass
NVNT	ac20	5825	Ant0	12.62	0.01828	30	Pass
NVNT	ac20	5825	Ant1	13.48	0.02228	30	Pass
NVNT	ac20	5825	Sum	16.08	0.04057	30	Pass
NVNT	ac40	5190	Ant0	13.39	0.02183	30	Pass
NVNT	ac40	5230	Ant0	13.01	0.02	30	Pass
NVNT	ac40	5270	Ant0	12.69	0.01858	24	Pass
NVNT	ac40	5310	Ant0	12.75	0.01884	24	Pass
NVNT	ac40	5755	Ant0	15.14	0.03266	30	Pass
NVNT	ac40	5795	Ant0	14.24	0.02655	30	Pass
NVNT	ac40	5190	Ant1	12.22	0.01667	30	Pass
NVNT	ac40	5230	Ant1	12.14	0.01637	30	Pass
NVNT	ac40	5270	Ant1	12.54	0.01795	24	Pass



REPORT No.: SZ24080224W02

NVNT	ac40	5310	Ant1	12.37	0.01726	24	Pass
NVNT	ac40	5755	Ant1	16.03	0.04009	30	Pass
NVNT	ac40	5795	Ant1	14.57	0.02864	30	Pass
NVNT	ac40	5190	Ant0	13.36	0.02168	30	Pass
NVNT	ac40	5190	Ant1	12.45	0.01758	30	Pass
NVNT	ac40	5190	Sum	15.94	0.03926	30	Pass
NVNT	ac40	5230	Ant0	13.01	0.02	30	Pass
NVNT	ac40	5230	Ant1	12.42	0.01746	30	Pass
NVNT	ac40	5230	Sum	15.74	0.03746	30	Pass
NVNT	ac40	5270	Ant0	12.66	0.01845	24	Pass
NVNT	ac40	5270	Ant1	12.83	0.01919	24	Pass
NVNT	ac40	5270	Sum	15.76	0.03764	24	Pass
NVNT	ac40	5310	Ant0	12.75	0.01884	24	Pass
NVNT	ac40	5310	Ant1	12.64	0.01837	24	Pass
NVNT	ac40	5310	Sum	15.71	0.0372	24	Pass
NVNT	ac40	5755	Ant0	15.05	0.03199	30	Pass
NVNT	ac40	5755	Ant1	16.09	0.04064	30	Pass
NVNT	ac40	5755	Sum	18.61	0.07263	30	Pass
NVNT	ac40	5795	Ant0	14.14	0.02594	30	Pass
NVNT	ac40	5795	Ant1	14.68	0.02938	30	Pass
NVNT	ac40	5795	Sum	17.43	0.05532	30	Pass
NVNT	ac80	5210	Ant0	12.65	0.01841	30	Pass
NVNT	ac80	5290	Ant0	12.09	0.01618	24	Pass
NVNT	ac80	5775	Ant0	13.72	0.02355	30	Pass
NVNT	ac80	5210	Ant1	11.41	0.01384	30	Pass
NVNT	ac80	5290	Ant1	11.52	0.01419	24	Pass
NVNT	ac80	5775	Ant1	13.78	0.02388	30	Pass
NVNT	ac80	5210	Ant0	12.92	0.01959	30	Pass
NVNT	ac80	5210	Ant1	11.94	0.01563	30	Pass
NVNT	ac80	5210	Sum	15.47	0.03522	30	Pass
NVNT	ac80	5290	Ant0	12.29	0.01694	24	Pass
NVNT	ac80	5290	Ant1	12	0.01585	24	Pass
NVNT	ac80	5290	Sum	15.16	0.03279	24	Pass
NVNT	ac80	5775	Ant0	13.95	0.02483	30	Pass
NVNT	ac80	5775	Ant1	14.24	0.02655	30	Pass
NVNT	ac80	5775	Sum	17.11	0.05138	30	Pass
NVNT	ax20	5180	Ant0	12.65	0.01841	30	Pass
NVNT	ax20	5220	Ant0	12.62	0.01828	30	Pass



REPORT No.: SZ24080224W02

NVNT	ax20	5240	Ant0	12.23	0.01671	30	Pass
NVNT	ax20	5260	Ant0	12.45	0.01758	24	Pass
NVNT	ax20	5300	Ant0	11.98	0.01578	24	Pass
NVNT	ax20	5320	Ant0	11.91	0.01552	24	Pass
NVNT	ax20	5745	Ant0	14.4	0.02754	30	Pass
NVNT	ax20	5785	Ant0	13.65	0.02317	30	Pass
NVNT	ax20	5825	Ant0	13.02	0.02004	30	Pass
NVNT	ax20	5180	Ant1	11.35	0.01365	30	Pass
NVNT	ax20	5220	Ant1	11.26	0.01337	30	Pass
NVNT	ax20	5240	Ant1	11.26	0.01337	30	Pass
NVNT	ax20	5260	Ant1	11.4	0.0138	24	Pass
NVNT	ax20	5300	Ant1	11.17	0.01309	24	Pass
NVNT	ax20	5320	Ant1	11.41	0.01384	24	Pass
NVNT	ax20	5745	Ant1	15.15	0.03273	30	Pass
NVNT	ax20	5785	Ant1	13.65	0.02317	30	Pass
NVNT	ax20	5825	Ant1	13.44	0.02208	30	Pass
NVNT	ax20	5180	Ant0	12.63	0.01832	30	Pass
NVNT	ax20	5180	Ant1	11.68	0.01472	30	Pass
NVNT	ax20	5180	Sum	15.19	0.03305	30	Pass
NVNT	ax20	5220	Ant0	12.56	0.01803	30	Pass
NVNT	ax20	5220	Ant1	11.57	0.01435	30	Pass
NVNT	ax20	5220	Sum	15.1	0.03239	30	Pass
NVNT	ax20	5240	Ant0	12.26	0.01683	30	Pass
NVNT	ax20	5240	Ant1	11.62	0.01452	30	Pass
NVNT	ax20	5240	Sum	14.96	0.03135	30	Pass
NVNT	ax20	5260	Ant0	12.46	0.01762	24	Pass
NVNT	ax20	5260	Ant1	11.8	0.01514	24	Pass
NVNT	ax20	5260	Sum	15.15	0.03276	24	Pass
NVNT	ax20	5300	Ant0	11.97	0.01574	24	Pass
NVNT	ax20	5300	Ant1	11.58	0.01439	24	Pass
NVNT	ax20	5300	Sum	14.79	0.03013	24	Pass
NVNT	ax20	5320	Ant0	11.92	0.01556	24	Pass
NVNT	ax20	5320	Ant1	11.81	0.01517	24	Pass
NVNT	ax20	5320	Sum	14.88	0.03073	24	Pass
NVNT	ax20	5745	Ant0	14.37	0.02735	30	Pass
NVNT	ax20	5745	Ant1	15.45	0.03508	30	Pass
NVNT	ax20	5745	Sum	17.95	0.06243	30	Pass
NVNT	ax20	5785	Ant0	13.5	0.02239	30	Pass



REPORT No.: SZ24080224W02

NVNT	ax20	5785	Ant1	13.99	0.02506	30	Pass
NVNT	ax20	5785	Sum	16.76	0.04745	30	Pass
NVNT	ax20	5825	Ant0	12.9	0.0195	30	Pass
NVNT	ax20	5825	Ant1	13.78	0.02388	30	Pass
NVNT	ax20	5825	Sum	16.37	0.04338	30	Pass
NVNT	ax40	5190	Ant0	13.42	0.02198	30	Pass
NVNT	ax40	5230	Ant0	13.07	0.02028	30	Pass
NVNT	ax40	5270	Ant0	12.67	0.01849	24	Pass
NVNT	ax40	5310	Ant0	12.77	0.01892	24	Pass
NVNT	ax40	5755	Ant0	15.19	0.03304	30	Pass
NVNT	ax40	5795	Ant0	14.29	0.02685	30	Pass
NVNT	ax40	5190	Ant1	11.76	0.015	30	Pass
NVNT	ax40	5230	Ant1	11.72	0.01486	30	Pass
NVNT	ax40	5270	Ant1	12.16	0.01644	24	Pass
NVNT	ax40	5310	Ant1	11.98	0.01578	24	Pass
NVNT	ax40	5755	Ant1	15.59	0.03622	30	Pass
NVNT	ax40	5795	Ant1	14.13	0.02588	30	Pass
NVNT	ax40	5190	Ant0	12.92	0.01959	30	Pass
NVNT	ax40	5190	Ant1	12	0.01585	30	Pass
NVNT	ax40	5190	Sum	15.49	0.03544	30	Pass
NVNT	ax40	5230	Ant0	12.61	0.01824	30	Pass
NVNT	ax40	5230	Ant1	12.01	0.01589	30	Pass
NVNT	ax40	5230	Sum	15.33	0.03412	30	Pass
NVNT	ax40	5270	Ant0	12.24	0.01675	24	Pass
NVNT	ax40	5270	Ant1	12.41	0.01742	24	Pass
NVNT	ax40	5270	Sum	15.34	0.03417	24	Pass
NVNT	ax40	5310	Ant0	12.39	0.01734	24	Pass
NVNT	ax40	5310	Ant1	12.3	0.01698	24	Pass
NVNT	ax40	5310	Sum	15.36	0.03432	24	Pass
NVNT	ax40	5755	Ant0	14.69	0.02944	30	Pass
NVNT	ax40	5755	Ant1	15.65	0.03673	30	Pass
NVNT	ax40	5755	Sum	18.21	0.06617	30	Pass
NVNT	ax40	5795	Ant0	13.71	0.0235	30	Pass
NVNT	ax40	5795	Ant1	14.25	0.02661	30	Pass
NVNT	ax40	5795	Sum	17	0.0501	30	Pass
NVNT	ax80	5210	Ant0	12.62	0.01828	30	Pass
NVNT	ax80	5290	Ant0	12.08	0.01614	24	Pass
NVNT	ax80	5775	Ant0	13.76	0.02377	30	Pass



REPORT No.: SZ24080224W02

NVNT	ax80	5210	Ant1	11.43	0.0139	30	Pass
NVNT	ax80	5290	Ant1	11.52	0.01419	24	Pass
NVNT	ax80	5775	Ant1	13.76	0.02377	30	Pass
NVNT	ax80	5210	Ant0	12.72	0.01871	30	Pass
NVNT	ax80	5210	Ant1	11.81	0.01517	30	Pass
NVNT	ax80	5210	Sum	15.3	0.03388	30	Pass
NVNT	ax80	5290	Ant0	12.1	0.01622	24	Pass
NVNT	ax80	5290	Ant1	11.9	0.01549	24	Pass
NVNT	ax80	5290	Sum	15.01	0.03171	24	Pass
NVNT	ax80	5775	Ant0	12.72	0.01871	30	Pass
NVNT	ax80	5775	Ant1	12.32	0.01706	30	Pass
NVNT	ax80	5775	Sum	15.54	0.03577	30	Pass

**A.3. Emission Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	20.078	Pass
NVNT	a	5220	Ant0	19.961	Pass
NVNT	a	5240	Ant0	20.229	Pass
NVNT	a	5260	Ant0	20.167	Pass
NVNT	a	5300	Ant0	19.858	Pass
NVNT	a	5320	Ant0	20.329	Pass
NVNT	a	5180	Ant1	20.24	Pass
NVNT	a	5220	Ant1	20.114	Pass
NVNT	a	5240	Ant1	20.086	Pass
NVNT	a	5260	Ant1	19.9	Pass
NVNT	a	5300	Ant1	20.312	Pass
NVNT	a	5320	Ant1	19.887	Pass
NVNT	n20	5180	Ant0	20.808	Pass
NVNT	n20	5220	Ant0	21.402	Pass
NVNT	n20	5240	Ant0	20.655	Pass
NVNT	n20	5260	Ant0	20.981	Pass
NVNT	n20	5300	Ant0	20.901	Pass
NVNT	n20	5320	Ant0	21.142	Pass
NVNT	n20	5180	Ant1	21.253	Pass
NVNT	n20	5220	Ant1	20.783	Pass
NVNT	n20	5240	Ant1	20.957	Pass
NVNT	n20	5260	Ant1	20.712	Pass
NVNT	n20	5300	Ant1	21.147	Pass
NVNT	n20	5320	Ant1	20.86	Pass
NVNT	n20	5180	Ant0	21.083	Pass
NVNT	n20	5180	Ant1	21.178	Pass
NVNT	n20	5220	Ant0	21.033	Pass
NVNT	n20	5220	Ant1	21.16	Pass
NVNT	n20	5240	Ant0	21.505	Pass
NVNT	n20	5240	Ant1	20.992	Pass
NVNT	n20	5260	Ant0	20.797	Pass
NVNT	n20	5260	Ant1	21.206	Pass
NVNT	n20	5300	Ant0	20.814	Pass
NVNT	n20	5300	Ant1	21.046	Pass
NVNT	n20	5320	Ant0	21.344	Pass



REPORT No.: SZ24080224W02

NVNT	n20	5320	Ant1	21.004	Pass
NVNT	n40	5190	Ant0	39.975	Pass
NVNT	n40	5230	Ant0	40.627	Pass
NVNT	n40	5270	Ant0	40.404	Pass
NVNT	n40	5310	Ant0	40.737	Pass
NVNT	n40	5190	Ant1	40.547	Pass
NVNT	n40	5230	Ant1	40.51	Pass
NVNT	n40	5270	Ant1	40.251	Pass
NVNT	n40	5310	Ant1	40.324	Pass
NVNT	n40	5190	Ant0	40.485	Pass
NVNT	n40	5190	Ant1	40.345	Pass
NVNT	n40	5230	Ant0	40.188	Pass
NVNT	n40	5230	Ant1	40.479	Pass
NVNT	n40	5270	Ant0	40.211	Pass
NVNT	n40	5270	Ant1	40.113	Pass
NVNT	n40	5310	Ant0	40.712	Pass
NVNT	n40	5310	Ant1	39.959	Pass
NVNT	ac20	5180	Ant0	21.109	Pass
NVNT	ac20	5220	Ant0	20.904	Pass
NVNT	ac20	5240	Ant0	21.039	Pass
NVNT	ac20	5260	Ant0	21.476	Pass
NVNT	ac20	5300	Ant0	20.912	Pass
NVNT	ac20	5320	Ant0	20.812	Pass
NVNT	ac20	5180	Ant1	21.295	Pass
NVNT	ac20	5220	Ant1	21.538	Pass
NVNT	ac20	5240	Ant1	20.802	Pass
NVNT	ac20	5260	Ant1	20.985	Pass
NVNT	ac20	5300	Ant1	21.113	Pass
NVNT	ac20	5320	Ant1	21.208	Pass
NVNT	ac20	5180	Ant0	21.224	Pass
NVNT	ac20	5180	Ant1	20.93	Pass
NVNT	ac20	5220	Ant0	20.644	Pass
NVNT	ac20	5220	Ant1	21.103	Pass
NVNT	ac20	5240	Ant0	20.985	Pass
NVNT	ac20	5240	Ant1	21.153	Pass
NVNT	ac20	5260	Ant0	21.444	Pass
NVNT	ac20	5260	Ant1	21.183	Pass
NVNT	ac20	5300	Ant0	21.005	Pass



REPORT No.: SZ24080224W02

NVNT	ac20	5300	Ant1	21.501	Pass
NVNT	ac20	5320	Ant0	21.237	Pass
NVNT	ac20	5320	Ant1	21.024	Pass
NVNT	ac40	5190	Ant0	40.403	Pass
NVNT	ac40	5230	Ant0	40.479	Pass
NVNT	ac40	5270	Ant0	40.027	Pass
NVNT	ac40	5310	Ant0	40.901	Pass
NVNT	ac40	5190	Ant1	40.669	Pass
NVNT	ac40	5230	Ant1	40.638	Pass
NVNT	ac40	5270	Ant1	40.855	Pass
NVNT	ac40	5310	Ant1	40.441	Pass
NVNT	ac40	5190	Ant0	40.63	Pass
NVNT	ac40	5190	Ant1	40.029	Pass
NVNT	ac40	5230	Ant0	40.42	Pass
NVNT	ac40	5230	Ant1	40.313	Pass
NVNT	ac40	5270	Ant0	40.336	Pass
NVNT	ac40	5270	Ant1	39.783	Pass
NVNT	ac40	5310	Ant0	40.838	Pass
NVNT	ac40	5310	Ant1	40.624	Pass
NVNT	ac80	5210	Ant0	83.202	Pass
NVNT	ac80	5290	Ant0	82.918	Pass
NVNT	ac80	5210	Ant1	83.562	Pass
NVNT	ac80	5290	Ant1	83.376	Pass
NVNT	ac80	5210	Ant0	84.421	Pass
NVNT	ac80	5210	Ant1	83.177	Pass
NVNT	ac80	5290	Ant0	83.637	Pass
NVNT	ac80	5290	Ant1	84.016	Pass
NVNT	ax20	5180	Ant0	21.337	Pass
NVNT	ax20	5220	Ant0	21.416	Pass
NVNT	ax20	5240	Ant0	21.863	Pass
NVNT	ax20	5260	Ant0	21.746	Pass
NVNT	ax20	5300	Ant0	21.868	Pass
NVNT	ax20	5320	Ant0	21.372	Pass
NVNT	ax20	5180	Ant1	21.421	Pass
NVNT	ax20	5220	Ant1	21.553	Pass
NVNT	ax20	5240	Ant1	21.418	Pass
NVNT	ax20	5260	Ant1	21.266	Pass
NVNT	ax20	5300	Ant1	21.434	Pass



REPORT No.: SZ24080224W02

NVNT	ax20	5320	Ant1	20.97	Pass
NVNT	ax20	5180	Ant0	21.136	Pass
NVNT	ax20	5180	Ant1	21.27	Pass
NVNT	ax20	5220	Ant0	21.679	Pass
NVNT	ax20	5220	Ant1	21.192	Pass
NVNT	ax20	5240	Ant0	21.058	Pass
NVNT	ax20	5240	Ant1	21.607	Pass
NVNT	ax20	5260	Ant0	21.495	Pass
NVNT	ax20	5260	Ant1	21.143	Pass
NVNT	ax20	5300	Ant0	21.445	Pass
NVNT	ax20	5300	Ant1	21.35	Pass
NVNT	ax20	5320	Ant0	21.241	Pass
NVNT	ax20	5320	Ant1	21.282	Pass
NVNT	ax40	5190	Ant0	40.523	Pass
NVNT	ax40	5230	Ant0	40.667	Pass
NVNT	ax40	5270	Ant0	40.864	Pass
NVNT	ax40	5310	Ant0	40.792	Pass
NVNT	ax40	5190	Ant1	40.854	Pass
NVNT	ax40	5230	Ant1	40.665	Pass
NVNT	ax40	5270	Ant1	40.641	Pass
NVNT	ax40	5310	Ant1	40.811	Pass
NVNT	ax40	5190	Ant0	40.563	Pass
NVNT	ax40	5190	Ant1	40.574	Pass
NVNT	ax40	5230	Ant0	40.688	Pass
NVNT	ax40	5230	Ant1	40.808	Pass
NVNT	ax40	5270	Ant0	40.709	Pass
NVNT	ax40	5270	Ant1	40.715	Pass
NVNT	ax40	5310	Ant0	40.878	Pass
NVNT	ax40	5310	Ant1	40.496	Pass
NVNT	ax80	5210	Ant0	83.78	Pass
NVNT	ax80	5290	Ant0	83.734	Pass
NVNT	ax80	5210	Ant1	84.231	Pass
NVNT	ax80	5290	Ant1	83.781	Pass
NVNT	ax80	5210	Ant0	84.031	Pass
NVNT	ax80	5210	Ant1	84.036	Pass
NVNT	ax80	5290	Ant0	83.438	Pass
NVNT	ax80	5290	Ant1	83.675	Pass



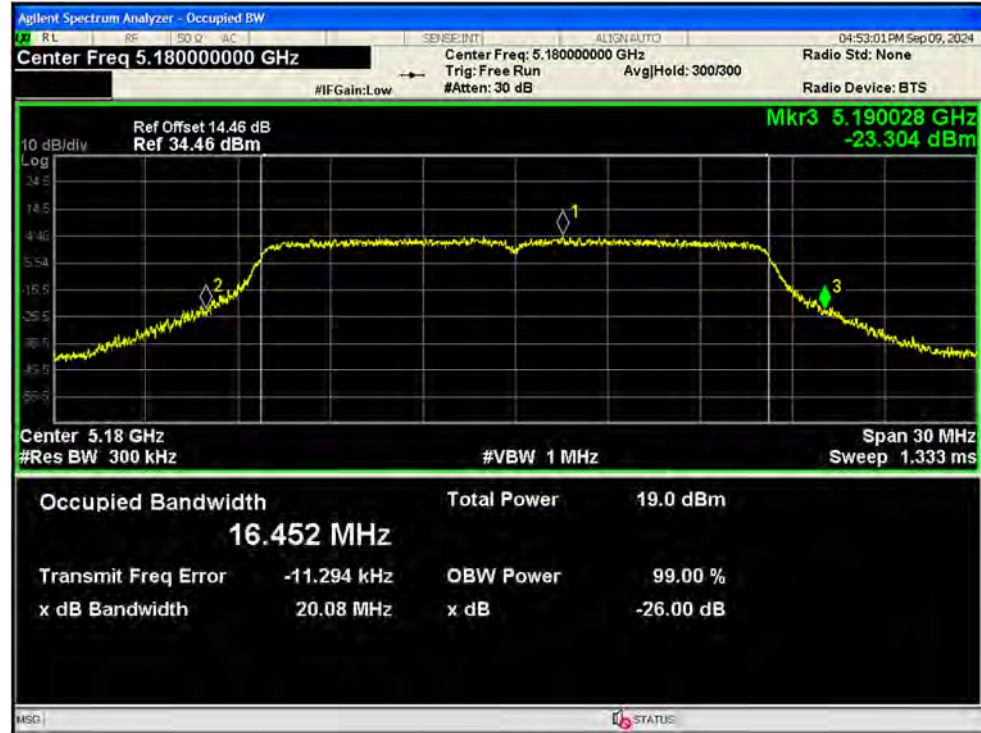
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	16.008	0.5	Pass
NVNT	a	5785	Ant0	16.297	0.5	Pass
NVNT	a	5825	Ant0	16.305	0.5	Pass
NVNT	a	5745	Ant1	16.284	0.5	Pass
NVNT	a	5785	Ant1	16.273	0.5	Pass
NVNT	a	5825	Ant1	16.292	0.5	Pass
NVNT	n20	5745	Ant0	16.892	0.5	Pass
NVNT	n20	5785	Ant0	16.95	0.5	Pass
NVNT	n20	5825	Ant0	17.539	0.5	Pass
NVNT	n20	5745	Ant1	17.268	0.5	Pass
NVNT	n20	5785	Ant1	16.941	0.5	Pass
NVNT	n20	5825	Ant1	17.17	0.5	Pass
NVNT	n20	5745	Ant0	16.281	0.5	Pass
NVNT	n20	5745	Ant1	16.917	0.5	Pass
NVNT	n20	5785	Ant0	16.934	0.5	Pass
NVNT	n20	5785	Ant1	17.549	0.5	Pass
NVNT	n20	5825	Ant0	16.915	0.5	Pass
NVNT	n20	5825	Ant1	17.157	0.5	Pass
NVNT	n40	5755	Ant0	35.438	0.5	Pass
NVNT	n40	5795	Ant0	35.919	0.5	Pass
NVNT	n40	5755	Ant1	36.291	0.5	Pass
NVNT	n40	5795	Ant1	35.911	0.5	Pass
NVNT	n40	5755	Ant0	35.929	0.5	Pass
NVNT	n40	5755	Ant1	35.681	0.5	Pass
NVNT	n40	5795	Ant0	33.268	0.5	Pass
NVNT	n40	5795	Ant1	35.515	0.5	Pass
NVNT	ac20	5745	Ant0	16.808	0.5	Pass
NVNT	ac20	5785	Ant0	16.656	0.5	Pass
NVNT	ac20	5825	Ant0	16.94	0.5	Pass
NVNT	ac20	5745	Ant1	17.039	0.5	Pass
NVNT	ac20	5785	Ant1	17.555	0.5	Pass
NVNT	ac20	5825	Ant1	17.164	0.5	Pass
NVNT	ac20	5745	Ant0	16.634	0.5	Pass
NVNT	ac20	5745	Ant1	17.517	0.5	Pass
NVNT	ac20	5785	Ant0	17.184	0.5	Pass
NVNT	ac20	5785	Ant1	17.514	0.5	Pass



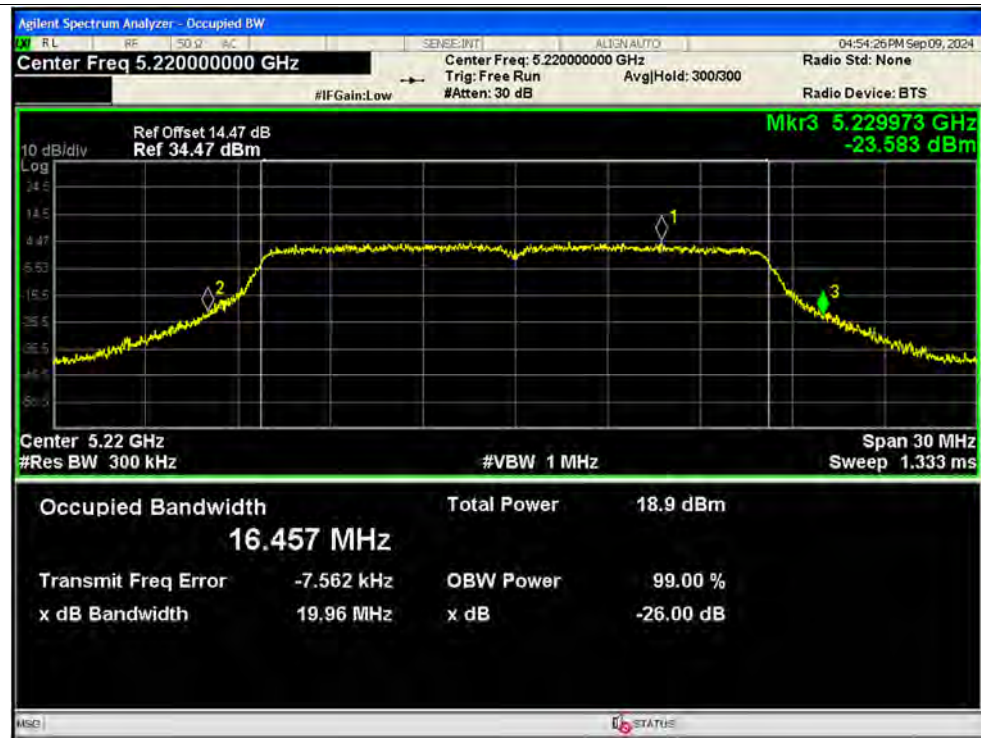
NVNT	ac20	5825	Ant0	17.18	0.5	Pass
NVNT	ac20	5825	Ant1	17.527	0.5	Pass
NVNT	ac40	5755	Ant0	36.286	0.5	Pass
NVNT	ac40	5795	Ant0	35.677	0.5	Pass
NVNT	ac40	5755	Ant1	37.746	0.5	Pass
NVNT	ac40	5795	Ant1	36.315	0.5	Pass
NVNT	ac40	5755	Ant0	36.296	0.5	Pass
NVNT	ac40	5755	Ant1	36.295	0.5	Pass
NVNT	ac40	5795	Ant0	35.908	0.5	Pass
NVNT	ac40	5795	Ant1	36.27	0.5	Pass
NVNT	ac80	5775	Ant0	75.966	0.5	Pass
NVNT	ac80	5775	Ant1	76.045	0.5	Pass
NVNT	ac80	5775	Ant0	75.098	0.5	Pass
NVNT	ac80	5775	Ant1	73.833	0.5	Pass
NVNT	ax20	5745	Ant0	18.576	0.5	Pass
NVNT	ax20	5785	Ant0	18.731	0.5	Pass
NVNT	ax20	5825	Ant0	18.221	0.5	Pass
NVNT	ax20	5745	Ant1	18.707	0.5	Pass
NVNT	ax20	5785	Ant1	18.745	0.5	Pass
NVNT	ax20	5825	Ant1	18.03	0.5	Pass
NVNT	ax20	5745	Ant0	18.882	0.5	Pass
NVNT	ax20	5745	Ant1	18.763	0.5	Pass
NVNT	ax20	5785	Ant0	18.774	0.5	Pass
NVNT	ax20	5785	Ant1	18.451	0.5	Pass
NVNT	ax20	5825	Ant0	18.521	0.5	Pass
NVNT	ax20	5825	Ant1	17.634	0.5	Pass
NVNT	ax40	5755	Ant0	37.708	0.5	Pass
NVNT	ax40	5795	Ant0	37.63	0.5	Pass
NVNT	ax40	5755	Ant1	37.683	0.5	Pass
NVNT	ax40	5795	Ant1	37.796	0.5	Pass
NVNT	ax40	5755	Ant0	37.445	0.5	Pass
NVNT	ax40	5755	Ant1	37.812	0.5	Pass
NVNT	ax40	5795	Ant0	36.824	0.5	Pass
NVNT	ax40	5795	Ant1	37.644	0.5	Pass
NVNT	ax80	5775	Ant0	76.03	0.5	Pass
NVNT	ax80	5775	Ant1	76.381	0.5	Pass
NVNT	ax80	5775	Ant0	76.545	0.5	Pass
NVNT	ax80	5775	Ant1	75.08	0.5	Pass

Test Graphs

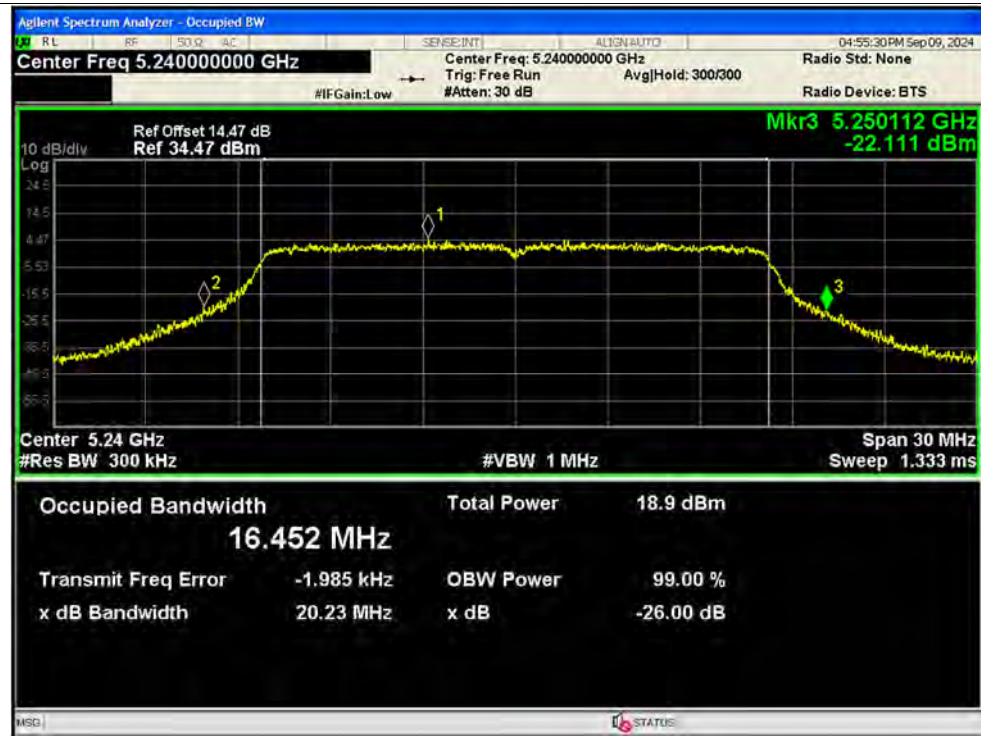
-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5220MHz Ant0



-26dB Bandwidth NVNT a 5240MHz Ant0



-26dB Bandwidth NVNT a 5260MHz Ant0



-26dB Bandwidth NVNT a 5300MHz Ant0



-26dB Bandwidth NVNT a 5320MHz Ant0



-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5220MHz Ant1



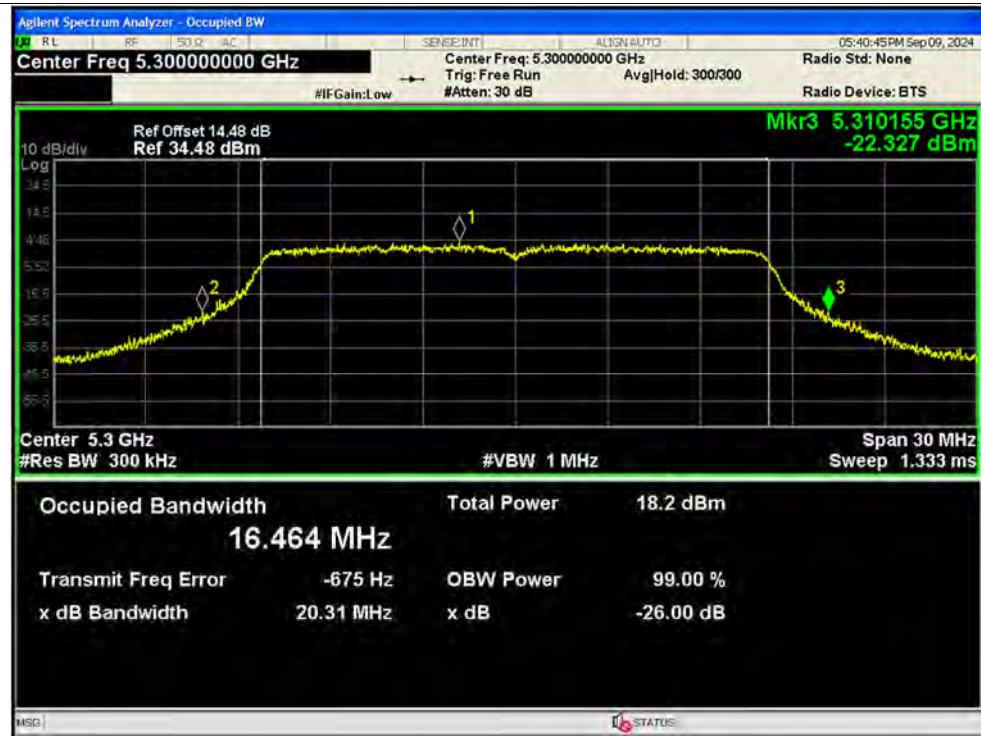
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1

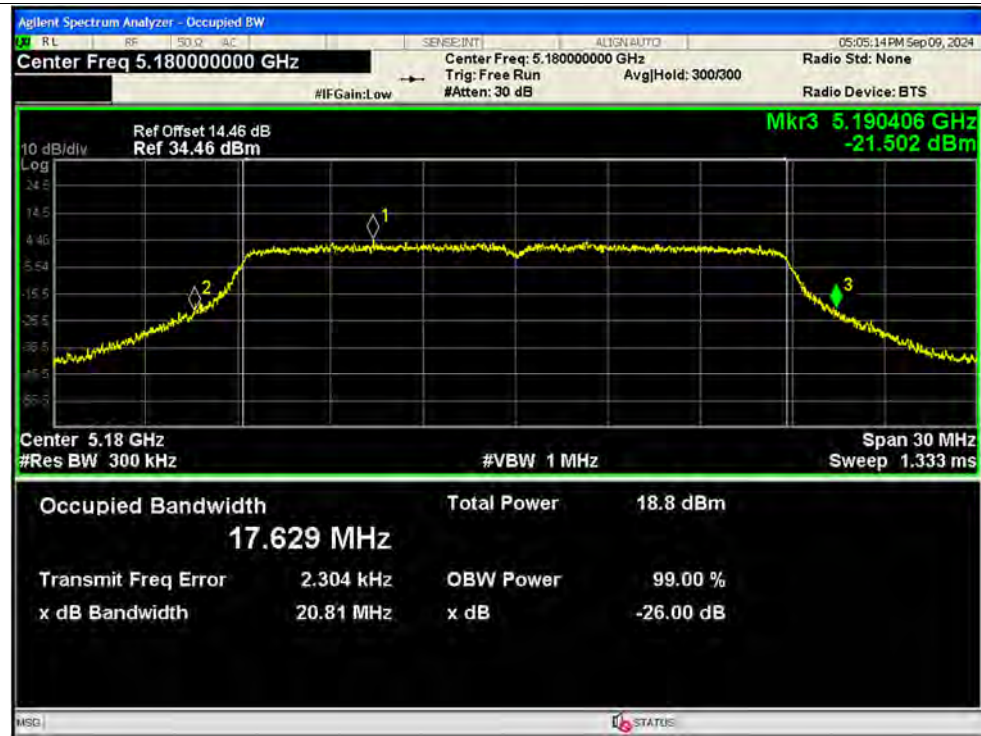


-26dB Bandwidth NVNT a 5320MHz Ant1





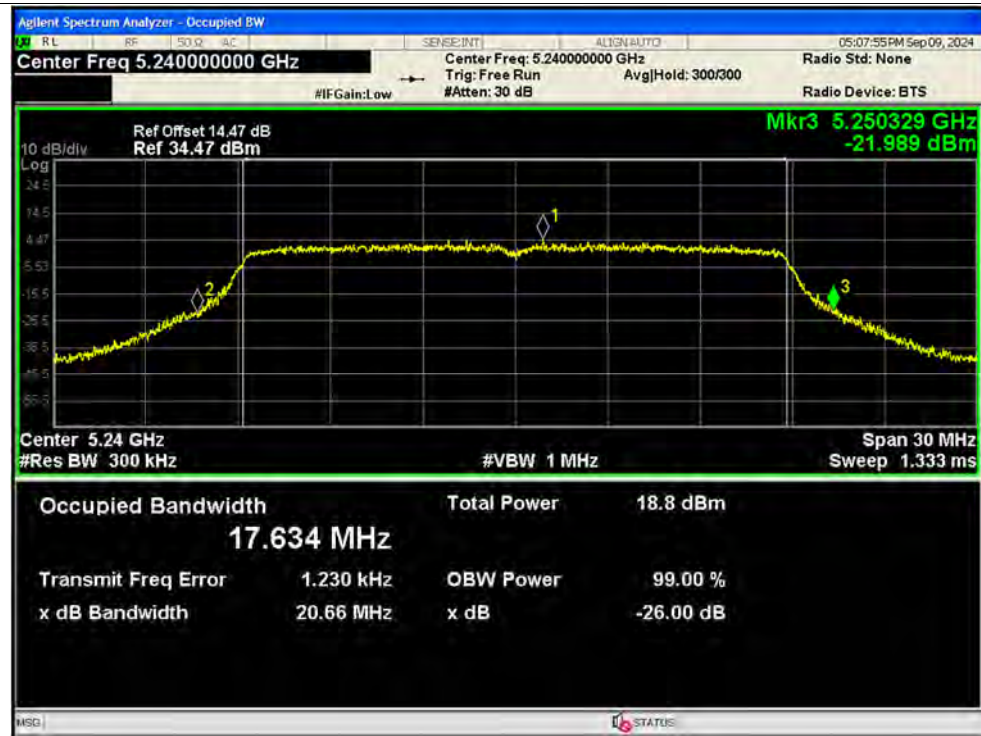
-26dB Bandwidth NVNT n20 5180MHz Ant0



-26dB Bandwidth NVNT n20 5220MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant0

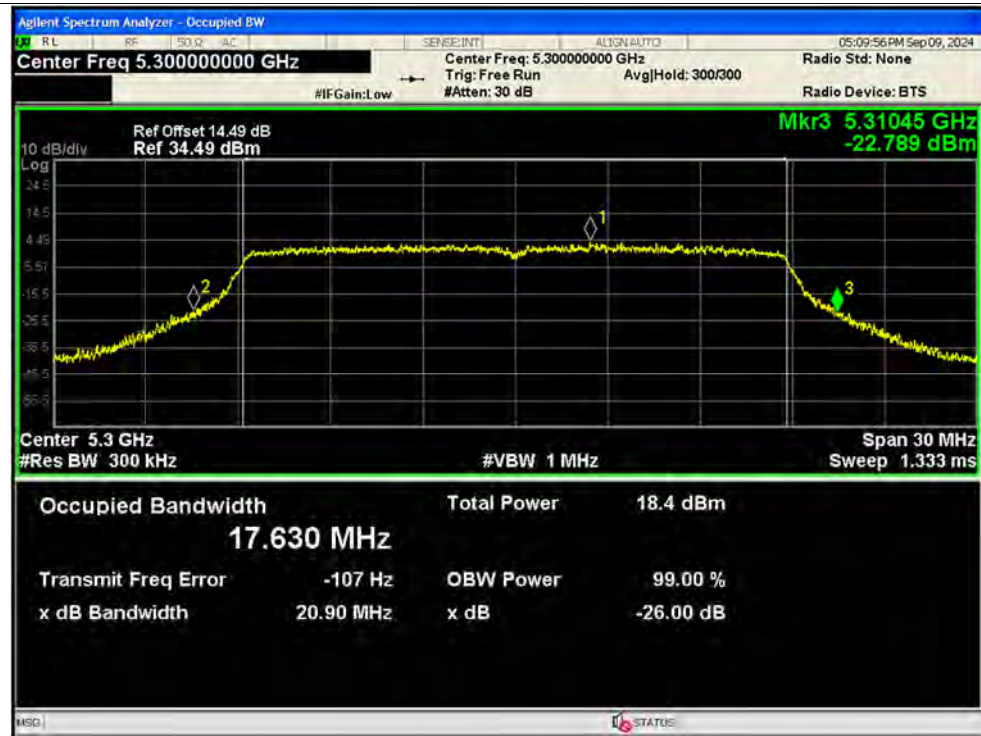


-26dB Bandwidth NVNT n20 5260MHz Ant0

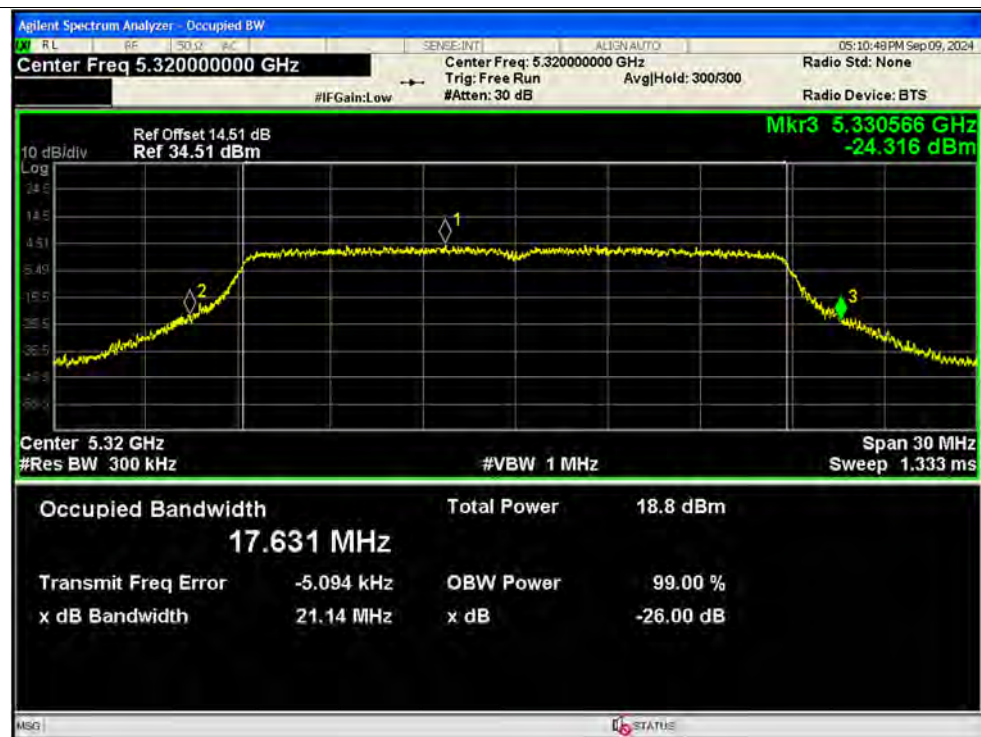




-26dB Bandwidth NVNT n20 5300MHz Ant0



-26dB Bandwidth NVNT n20 5320MHz Ant0



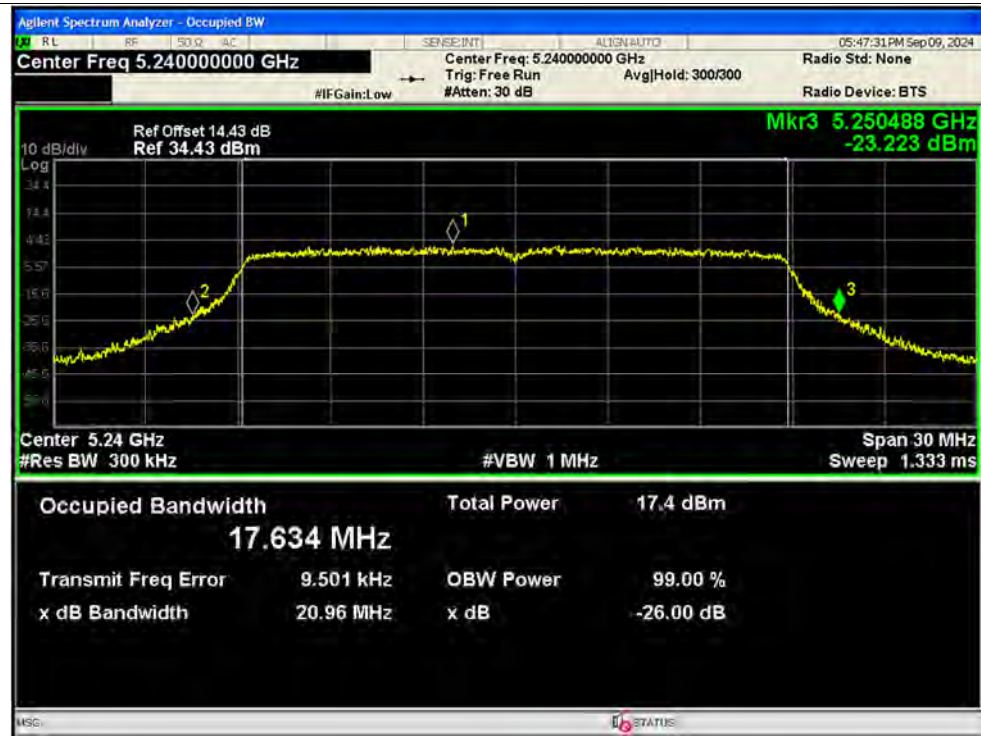
-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5220MHz Ant1



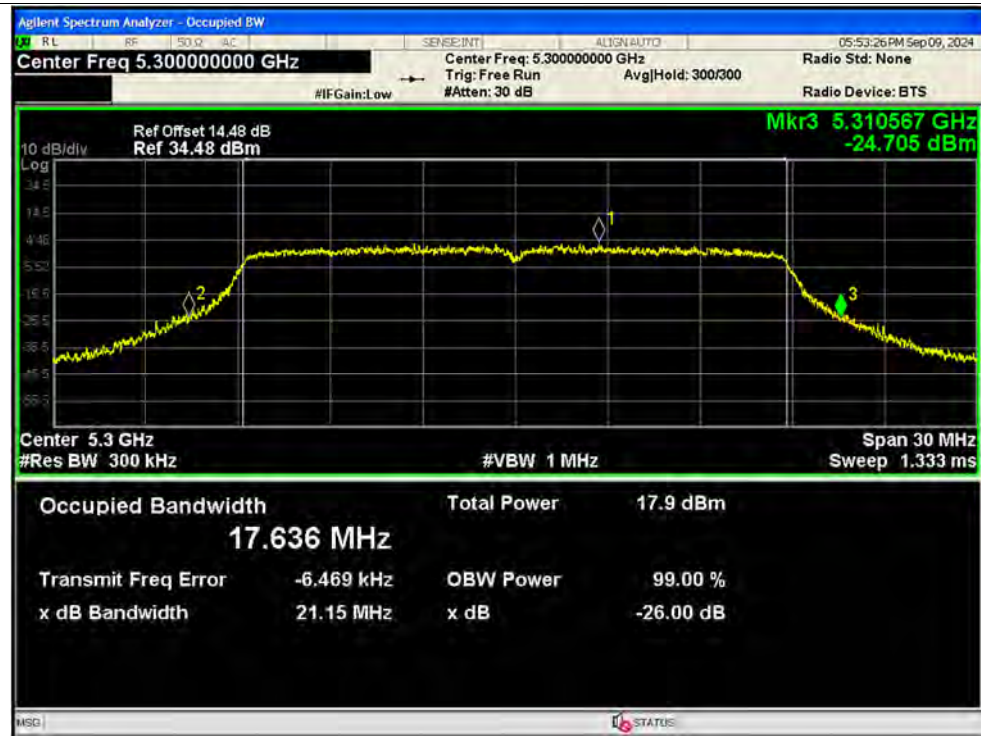
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



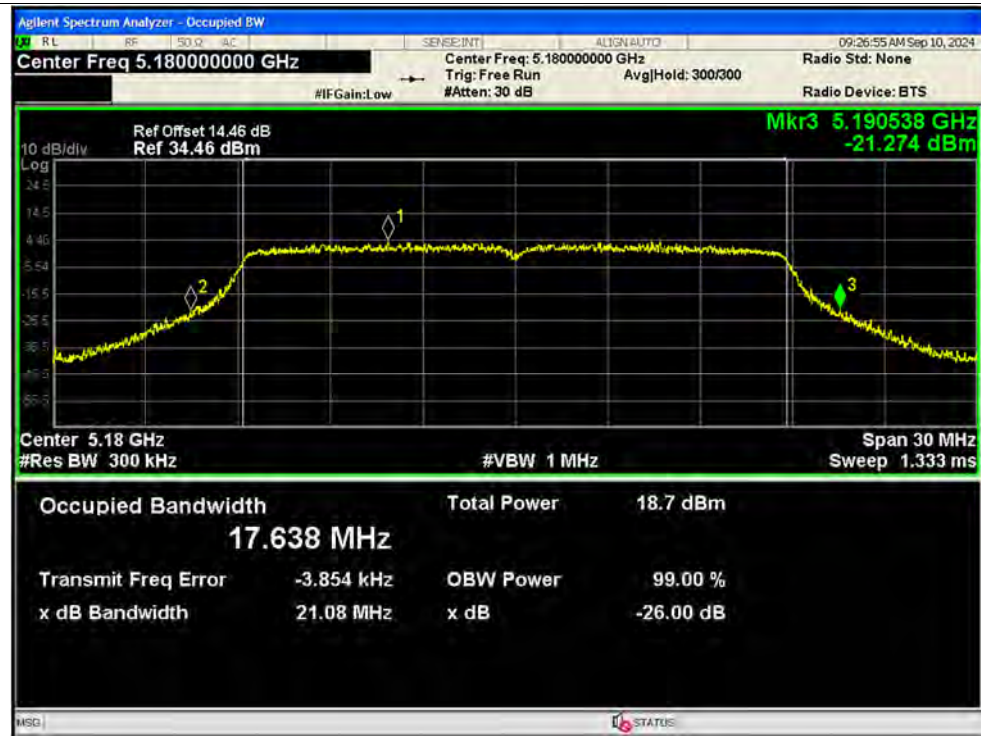
-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



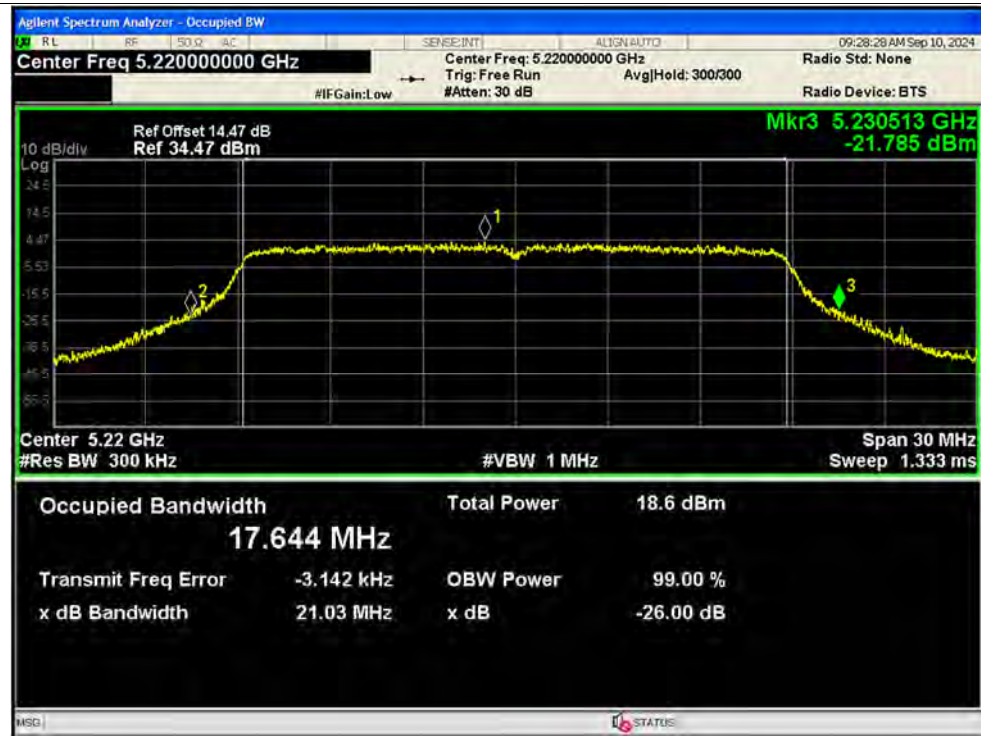
-26dB Bandwidth NVNT n20 5180MHz Ant0



-26dB Bandwidth NVNT n20 5180MHz Ant1



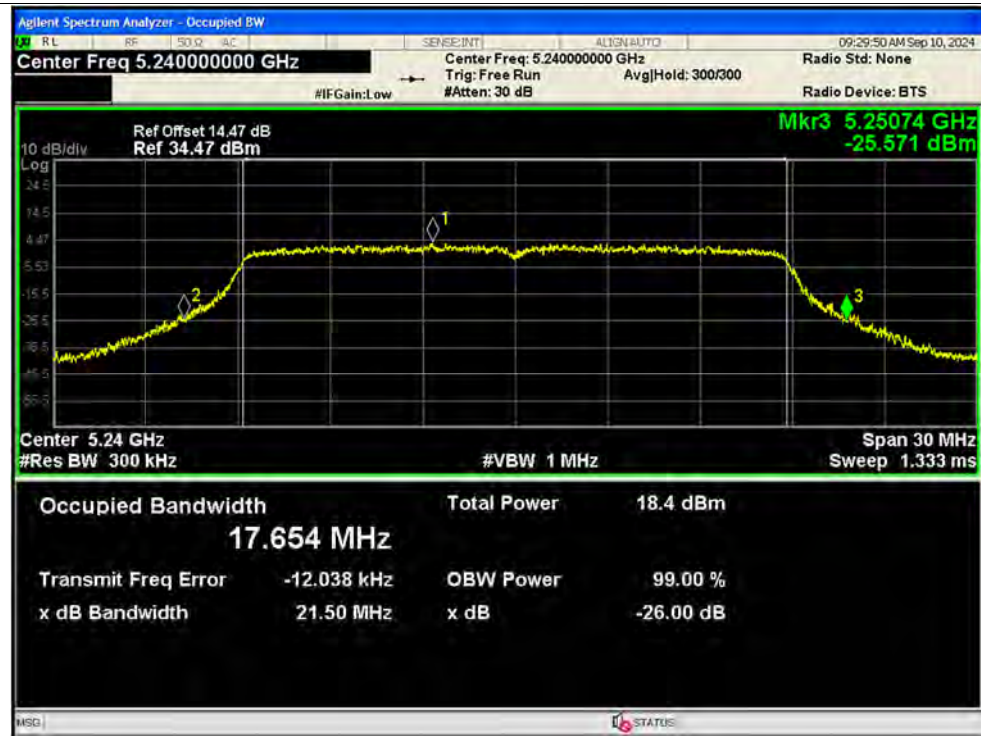
-26dB Bandwidth NVNT n20 5220MHz Ant0



-26dB Bandwidth NVNT n20 5220MHz Ant1



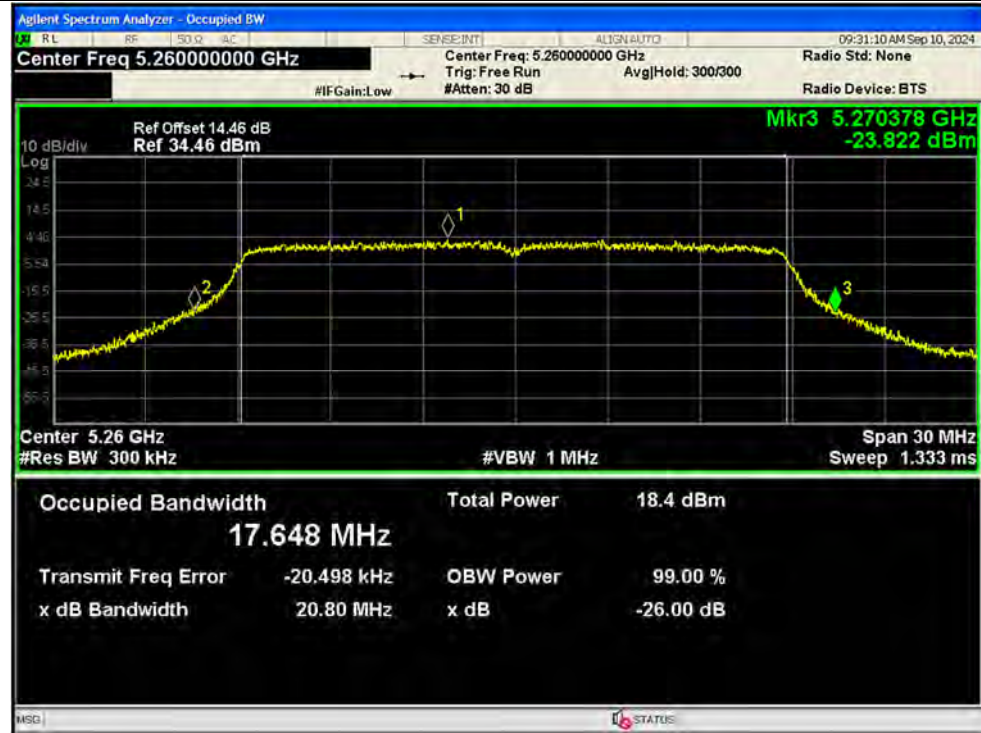
-26dB Bandwidth NVNT n20 5240MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant1



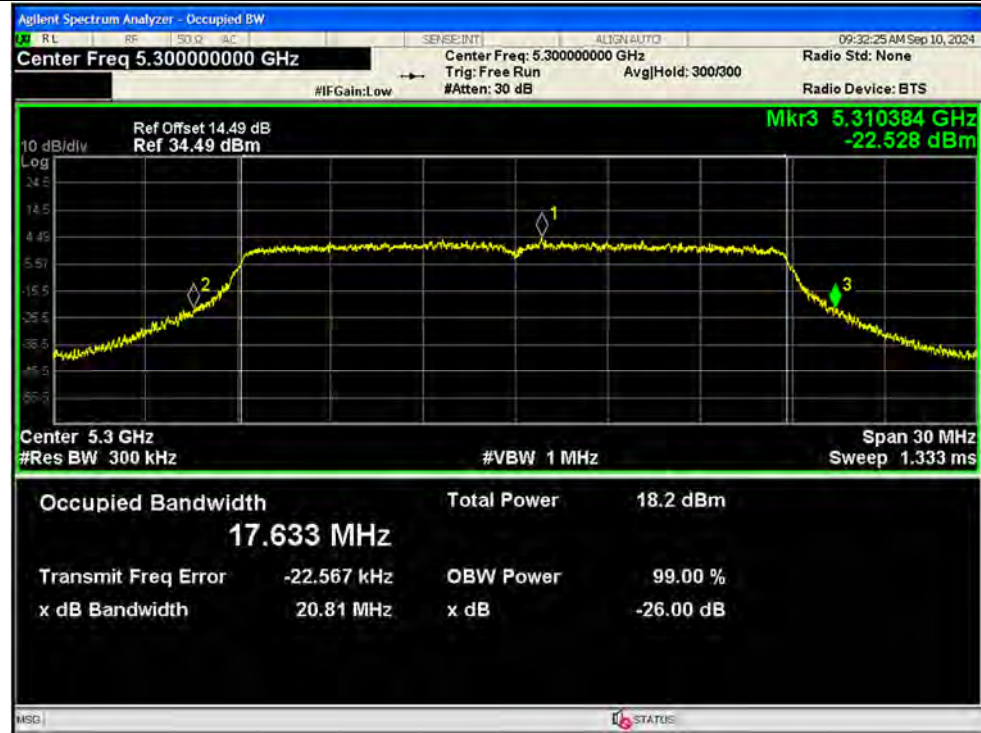
-26dB Bandwidth NVNT n20 5260MHz Ant0



-26dB Bandwidth NVNT n20 5260MHz Ant1



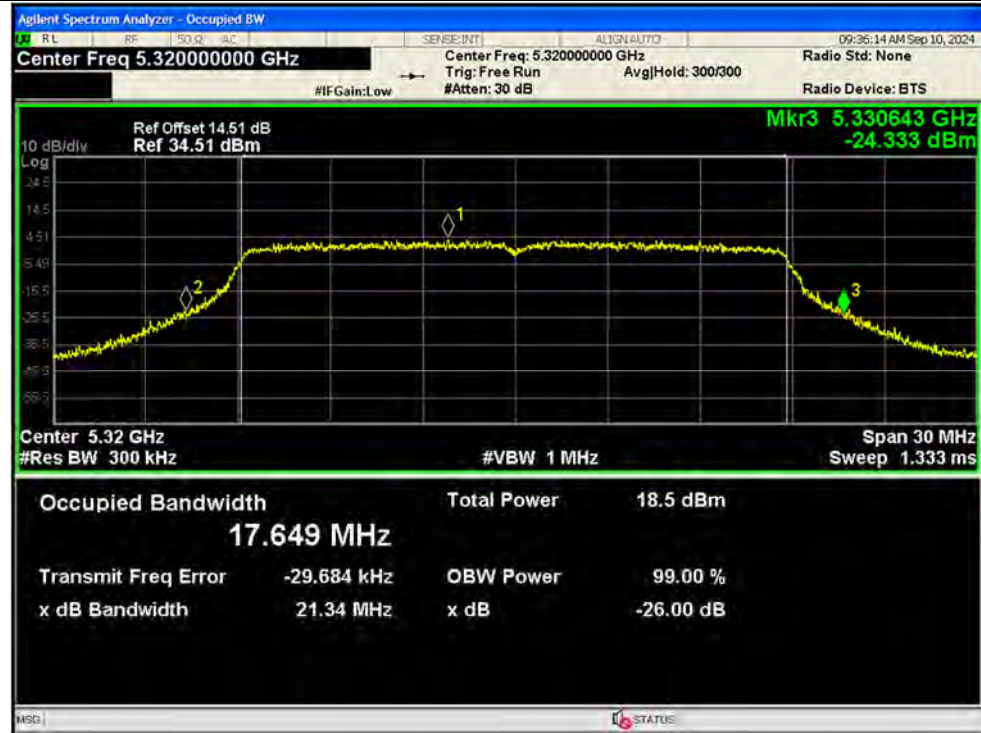
-26dB Bandwidth NVNT n20 5300MHz Ant0



-26dB Bandwidth NVNT n20 5300MHz Ant1



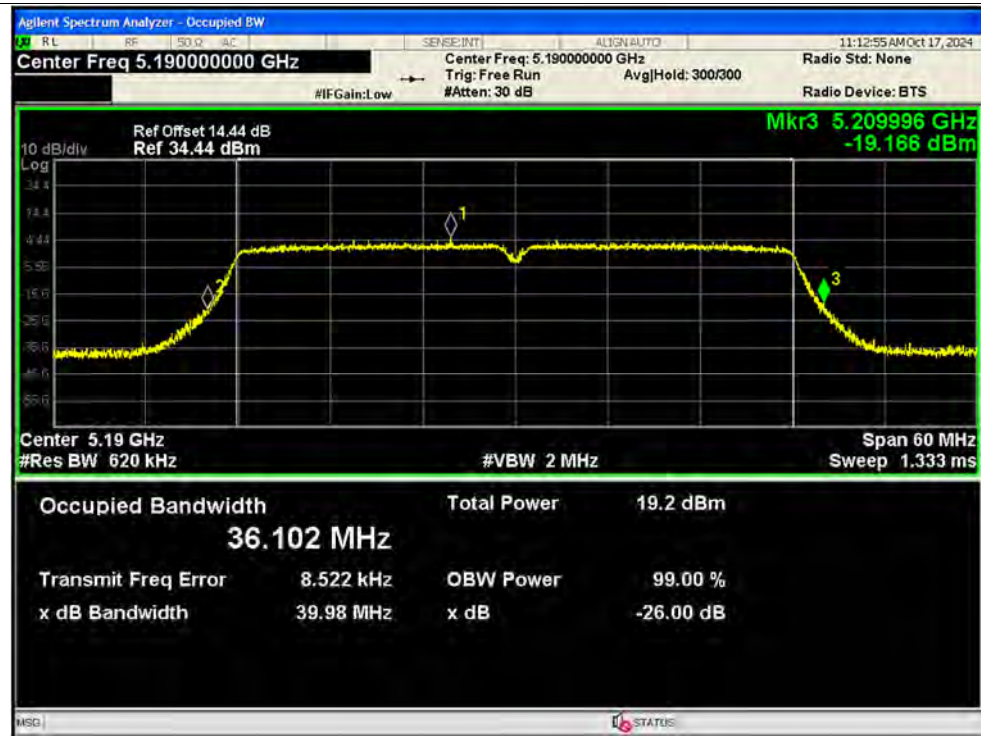
-26dB Bandwidth NVNT n20 5320MHz Ant0



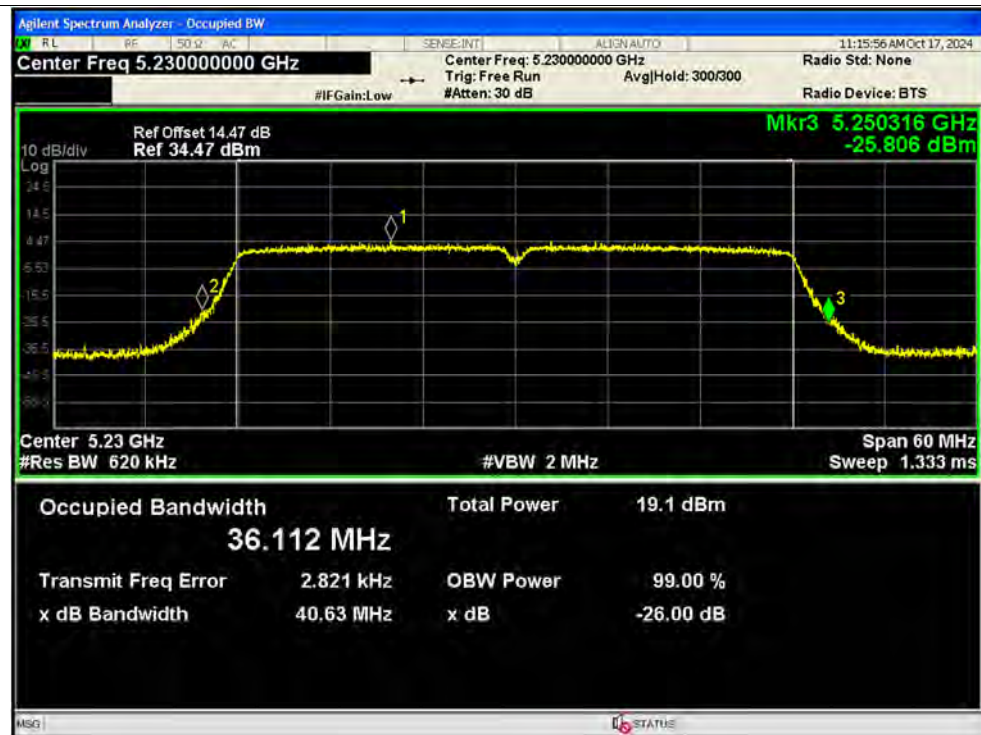
-26dB Bandwidth NVNT n20 5320MHz Ant1



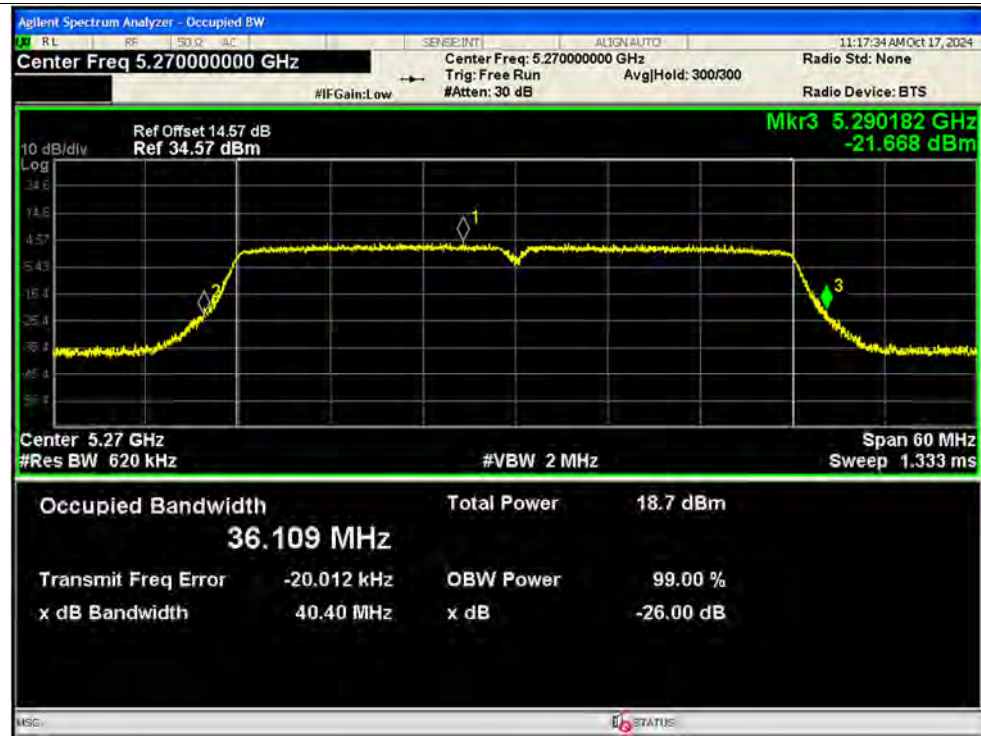
-26dB Bandwidth NVNT n40 5190MHz Ant0



-26dB Bandwidth NVNT n40 5230MHz Ant0



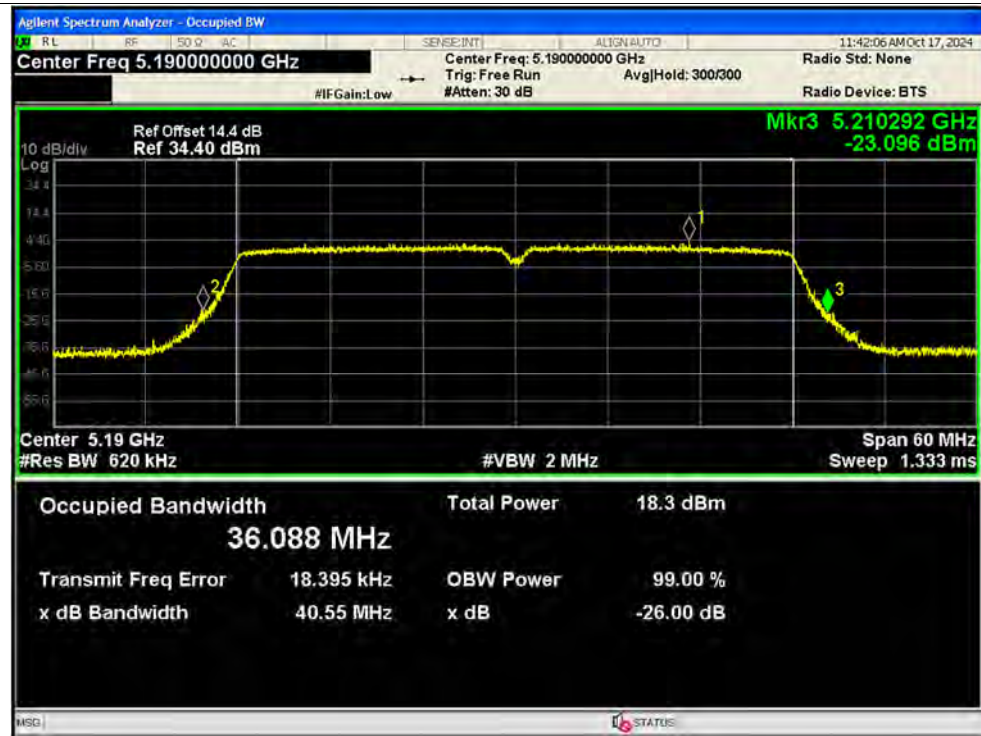
-26dB Bandwidth NVNT n40 5270MHz Ant0



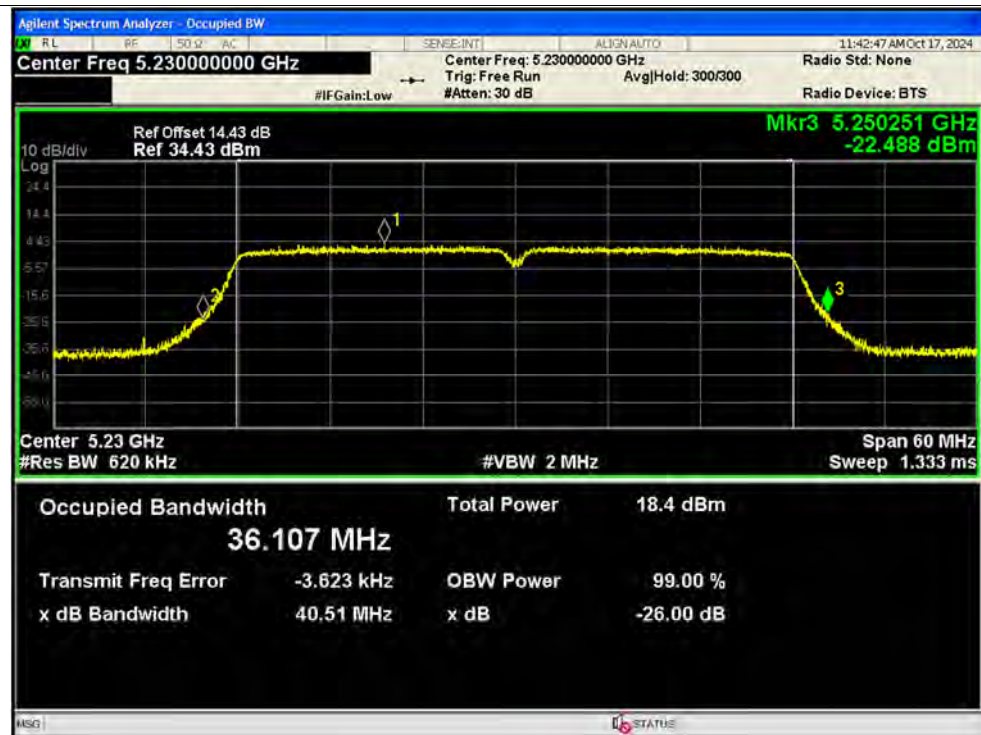
-26dB Bandwidth NVNT n40 5310MHz Ant0



-26dB Bandwidth NVNT n40 5190MHz Ant1

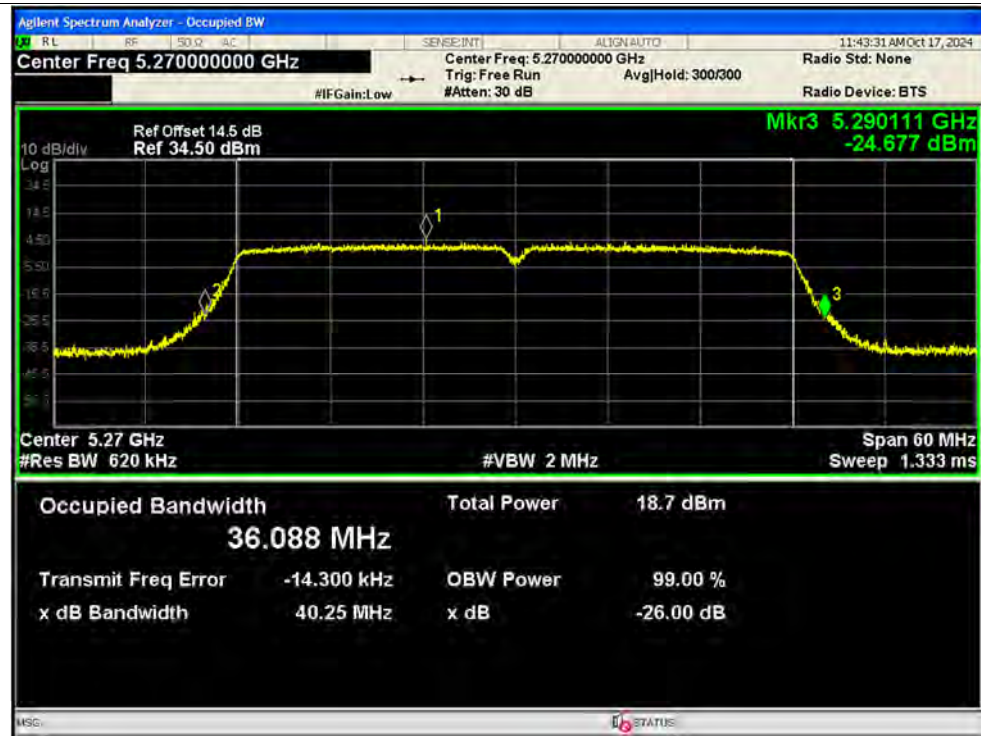


-26dB Bandwidth NVNT n40 5230MHz Ant1

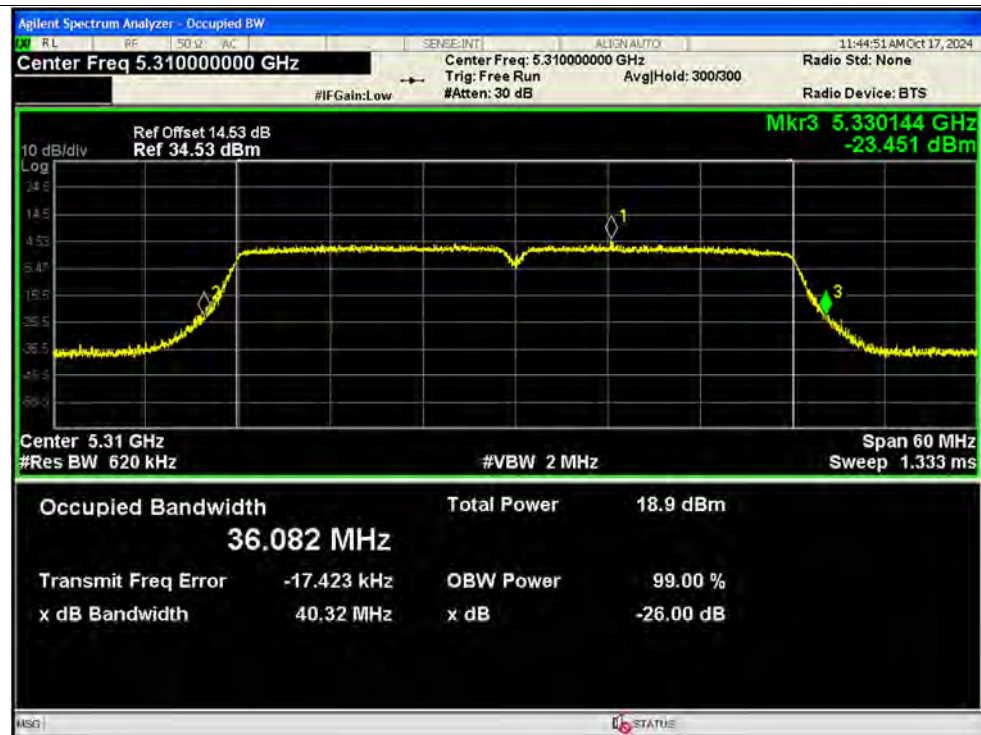




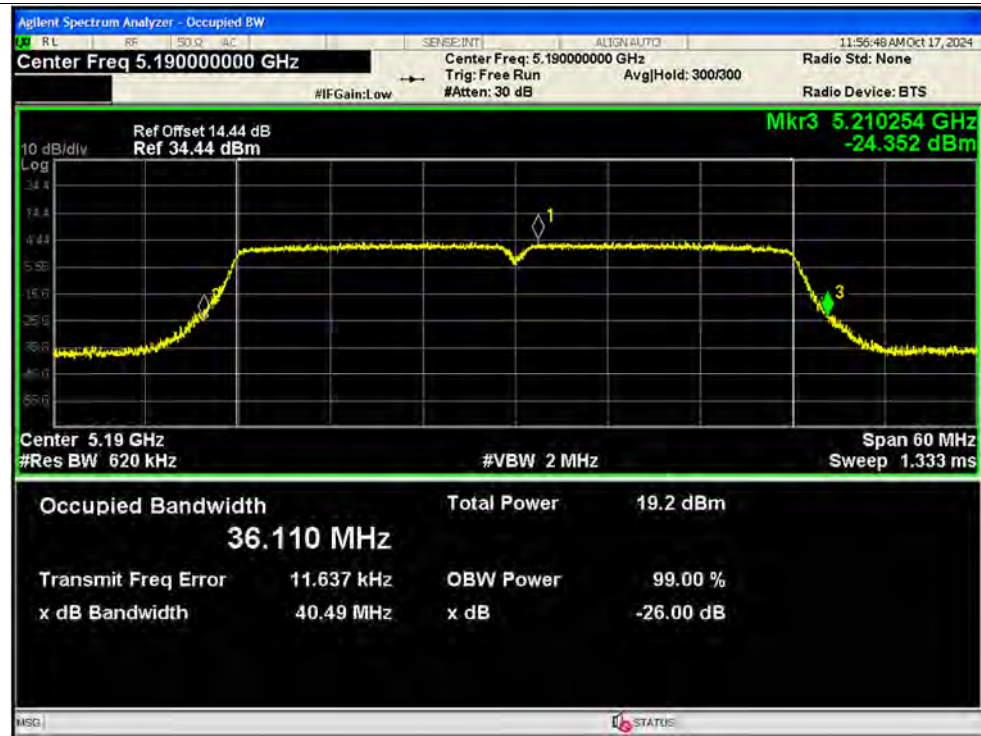
-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



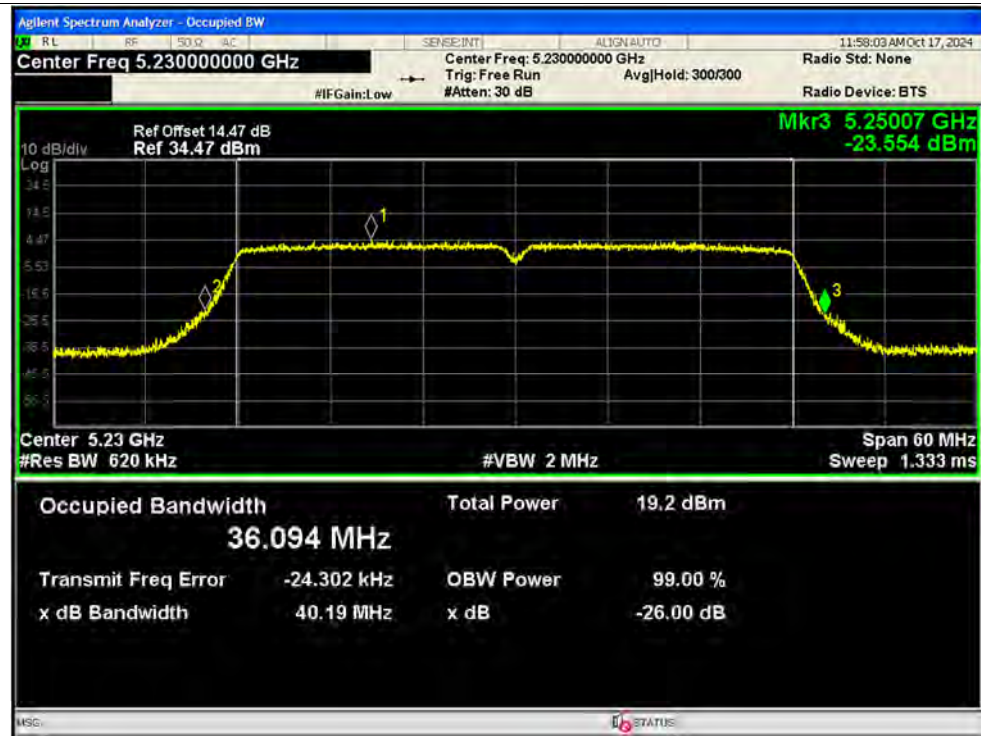
-26dB Bandwidth NVNT n40 5190MHz Ant0



-26dB Bandwidth NVNT n40 5190MHz Ant1



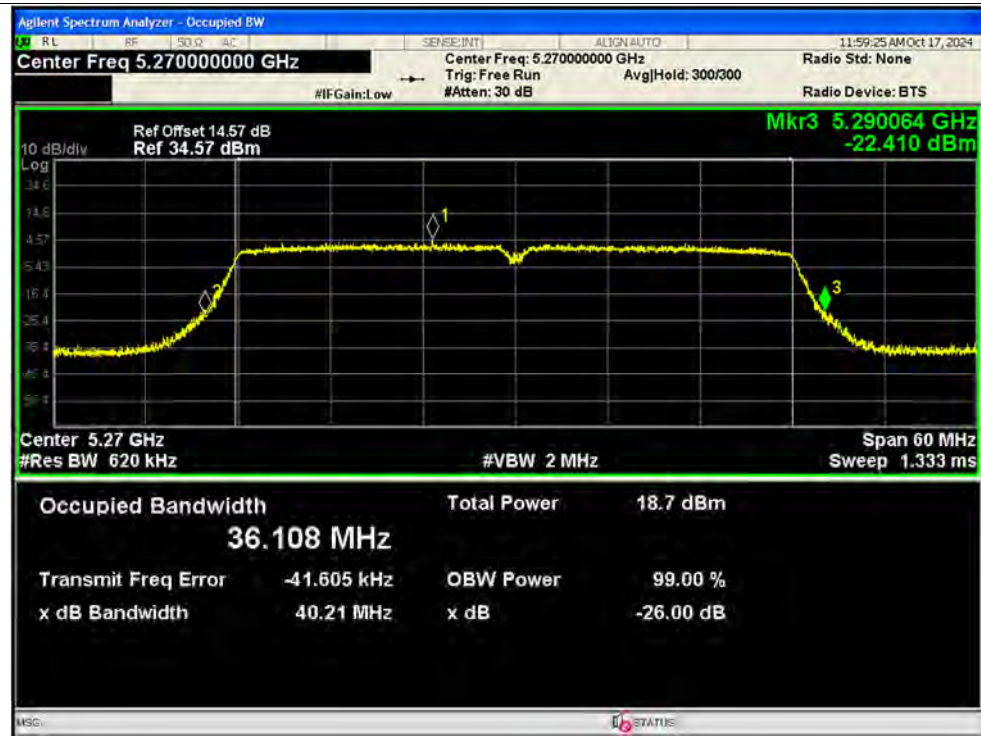
-26dB Bandwidth NVNT n40 5230MHz Ant0



-26dB Bandwidth NVNT n40 5230MHz Ant1



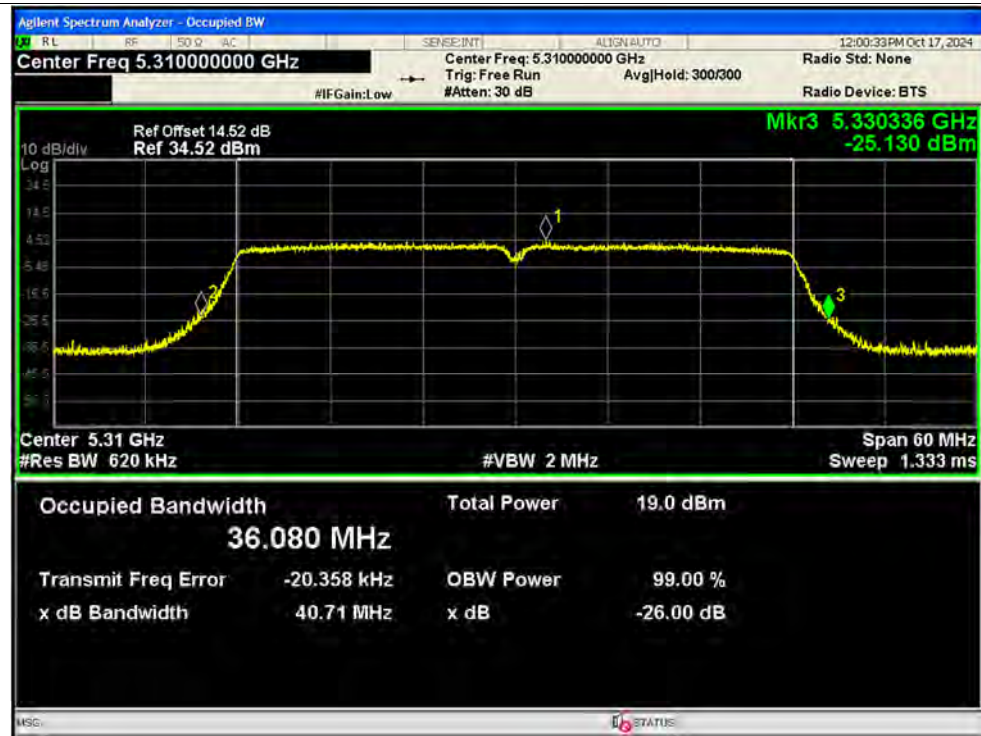
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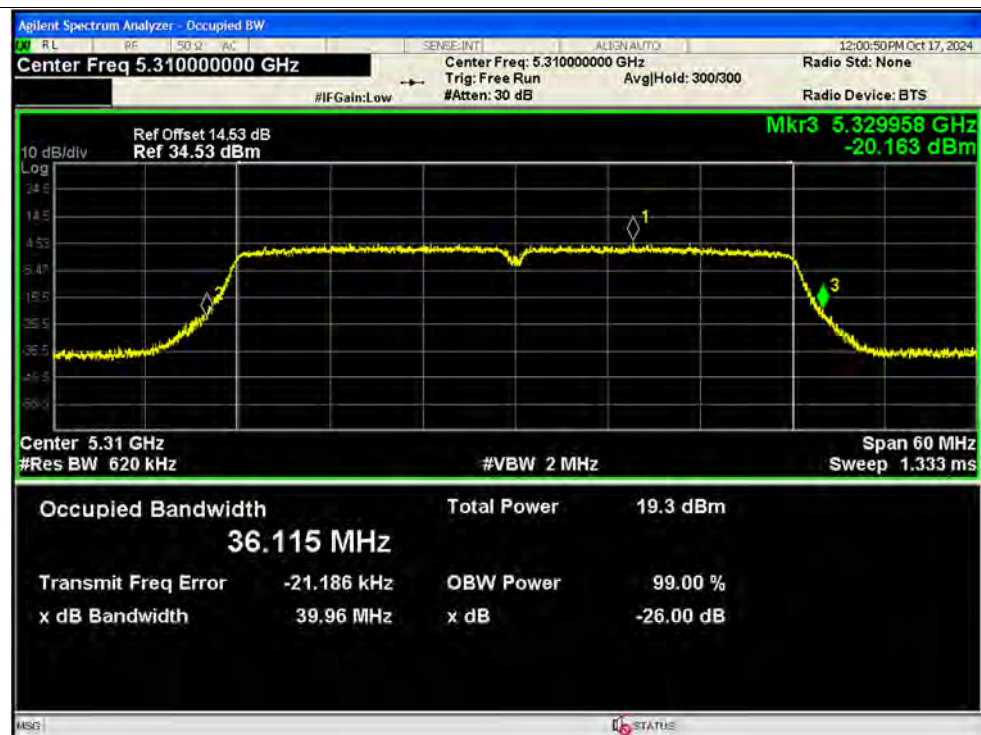
-26dB Bandwidth NVNT n40 5270MHz Ant1



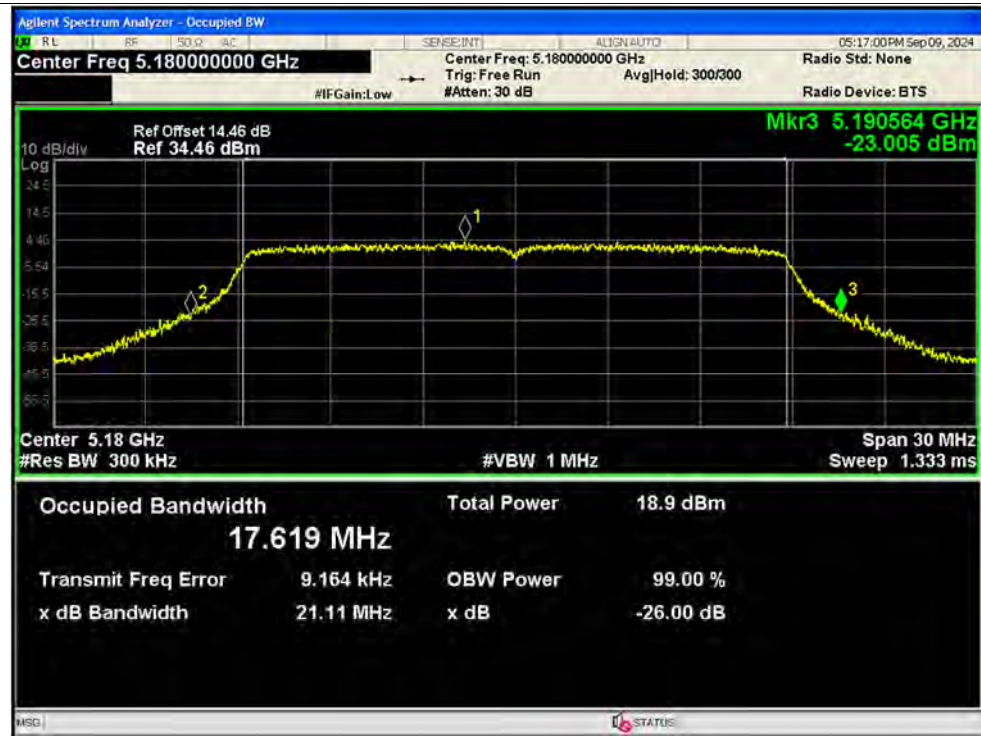
-26dB Bandwidth NVNT n40 5310MHz Ant0



-26dB Bandwidth NVNT n40 5310MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant0

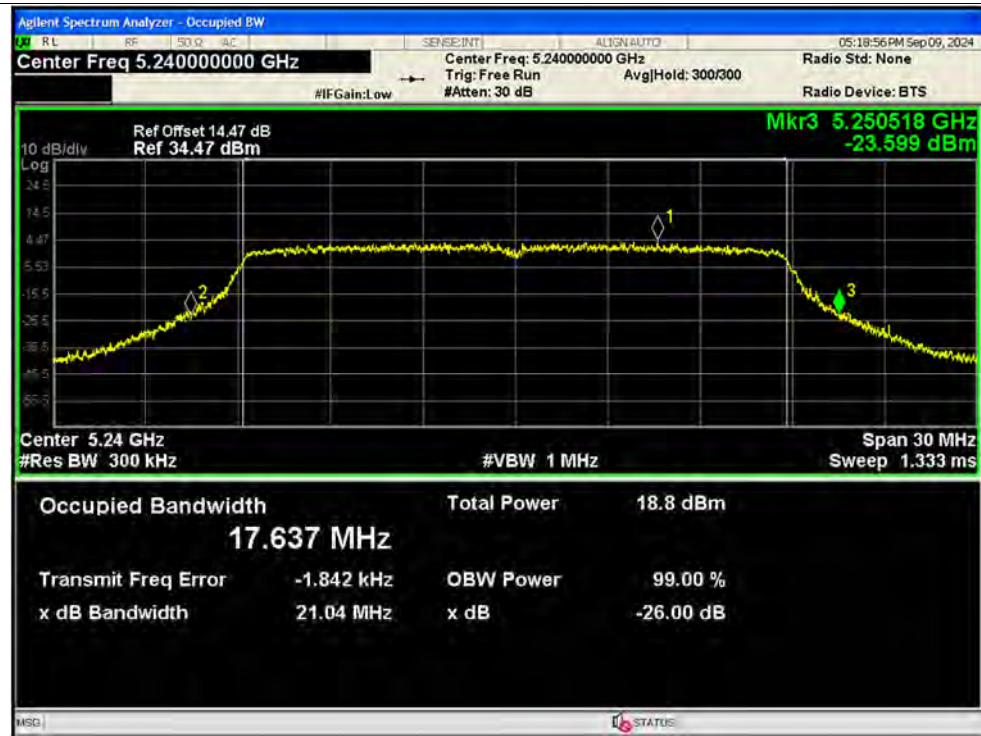


-26dB Bandwidth NVNT ac20 5220MHz Ant0

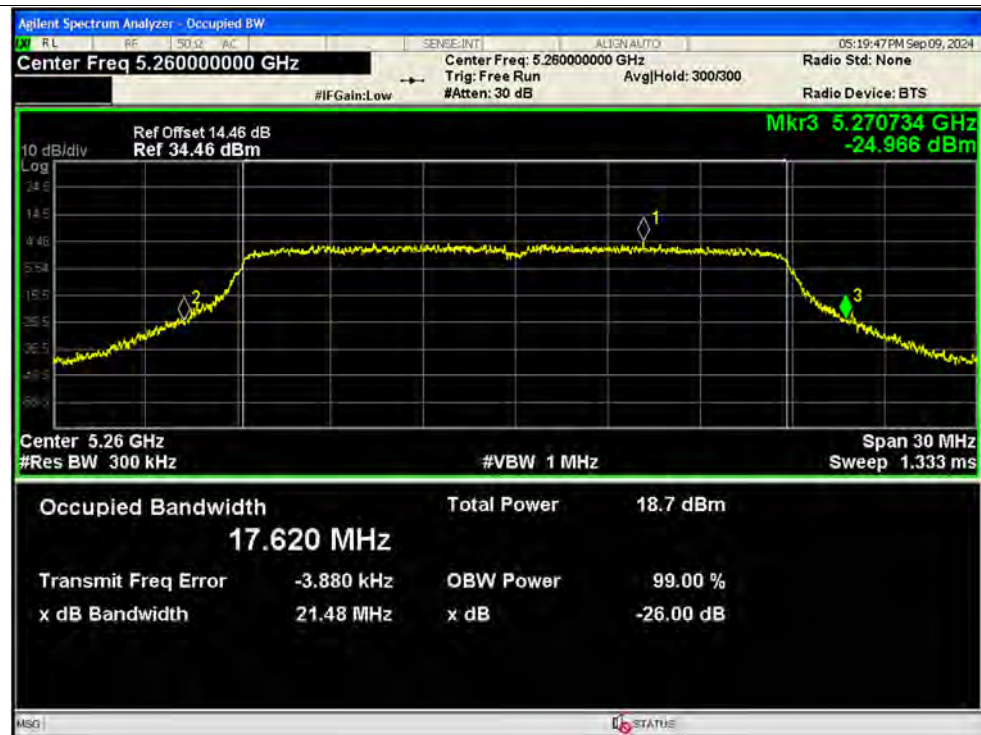




-26dB Bandwidth NVNT ac20 5240MHz Ant0

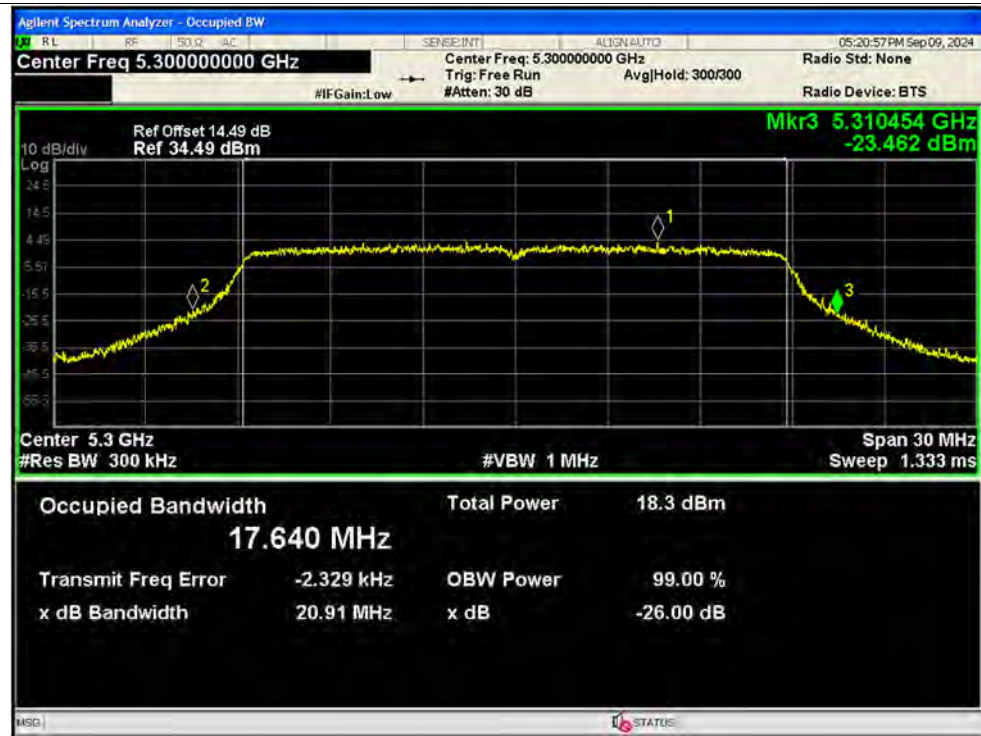


-26dB Bandwidth NVNT ac20 5260MHz Ant0





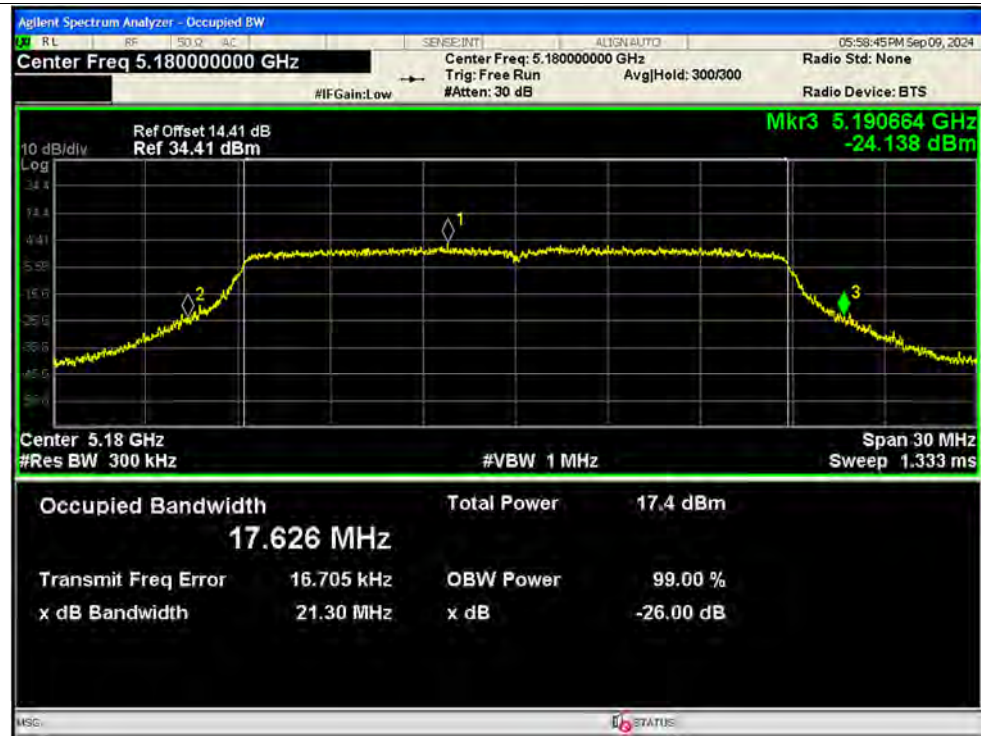
-26dB Bandwidth NVNT ac20 5300MHz Ant0



-26dB Bandwidth NVNT ac20 5320MHz Ant0



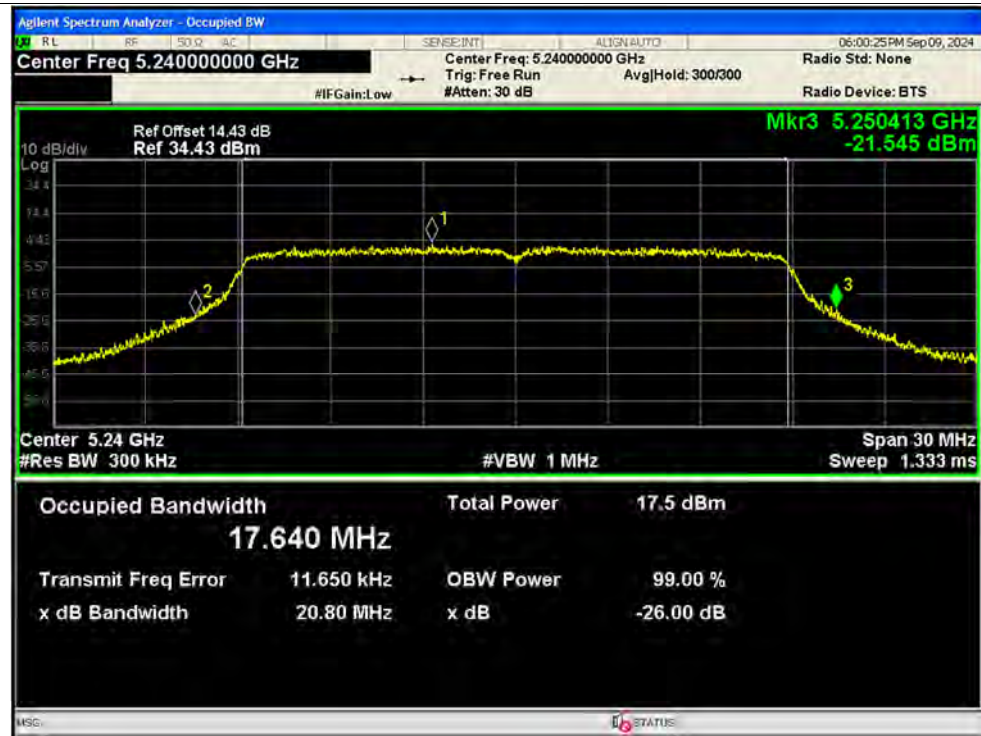
-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5220MHz Ant1



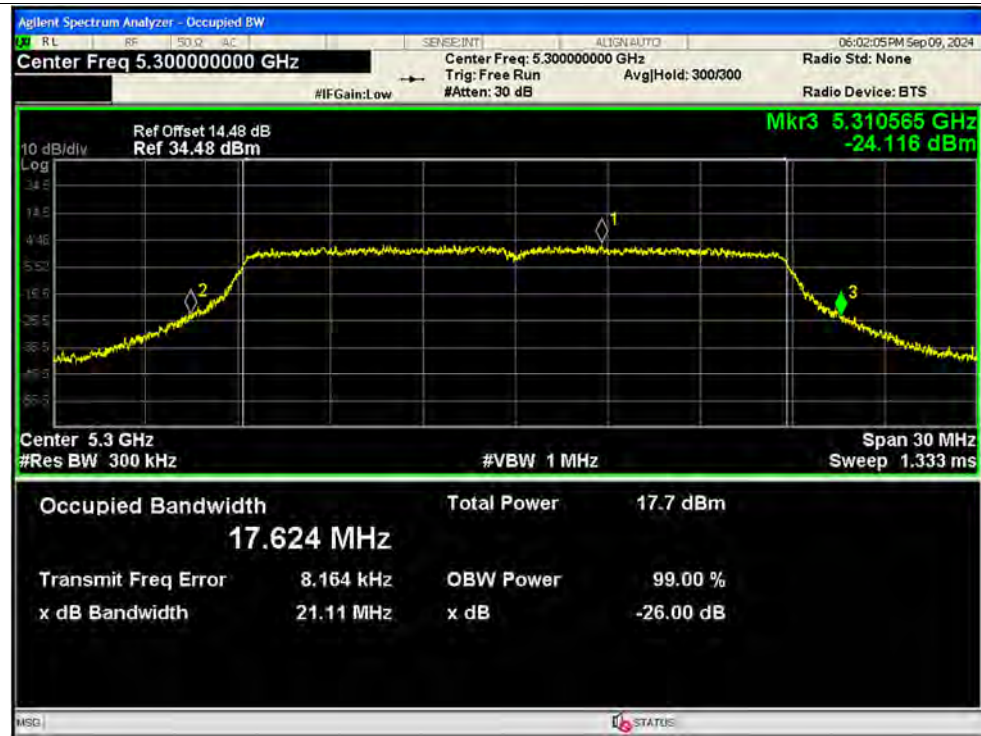
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1

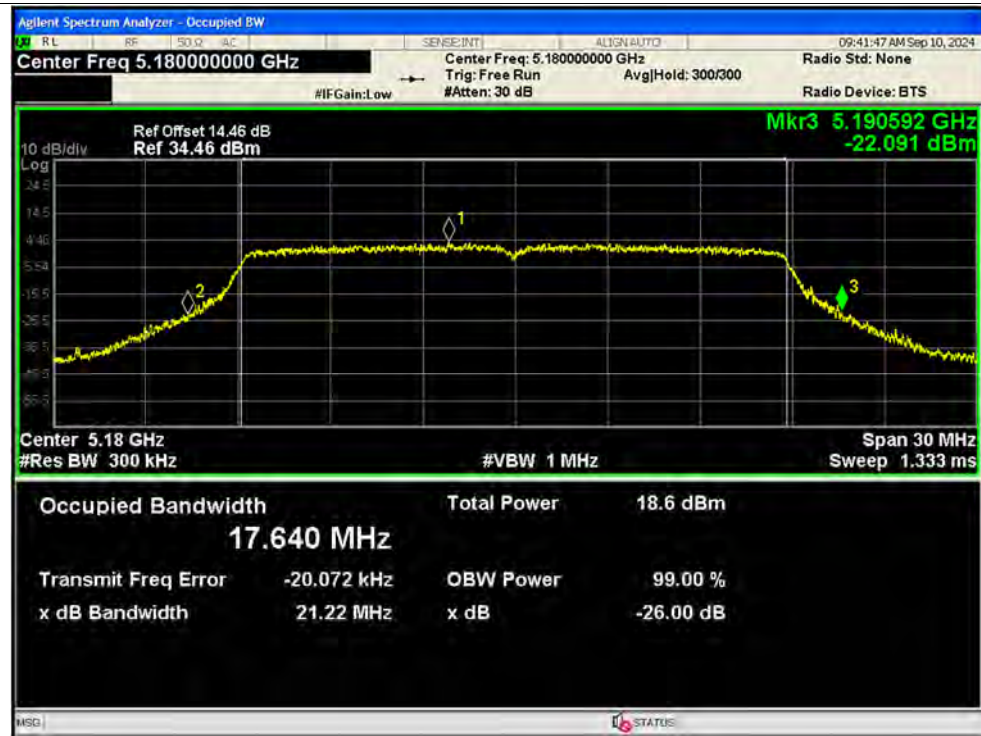


-26dB Bandwidth NVNT ac20 5320MHz Ant1





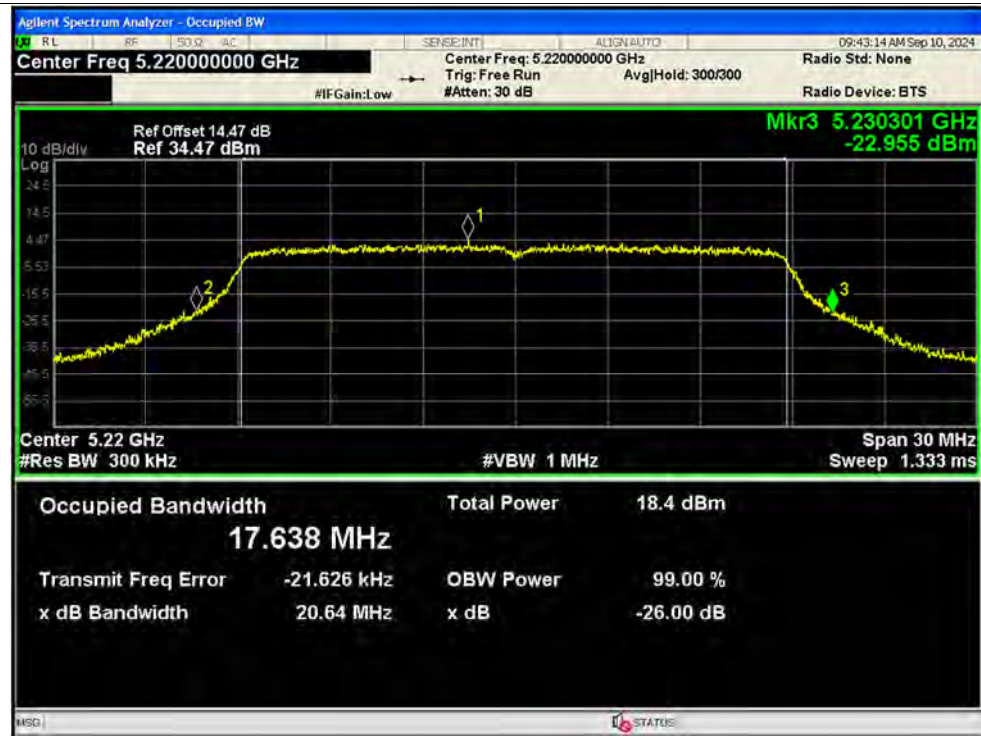
-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5220MHz Ant0

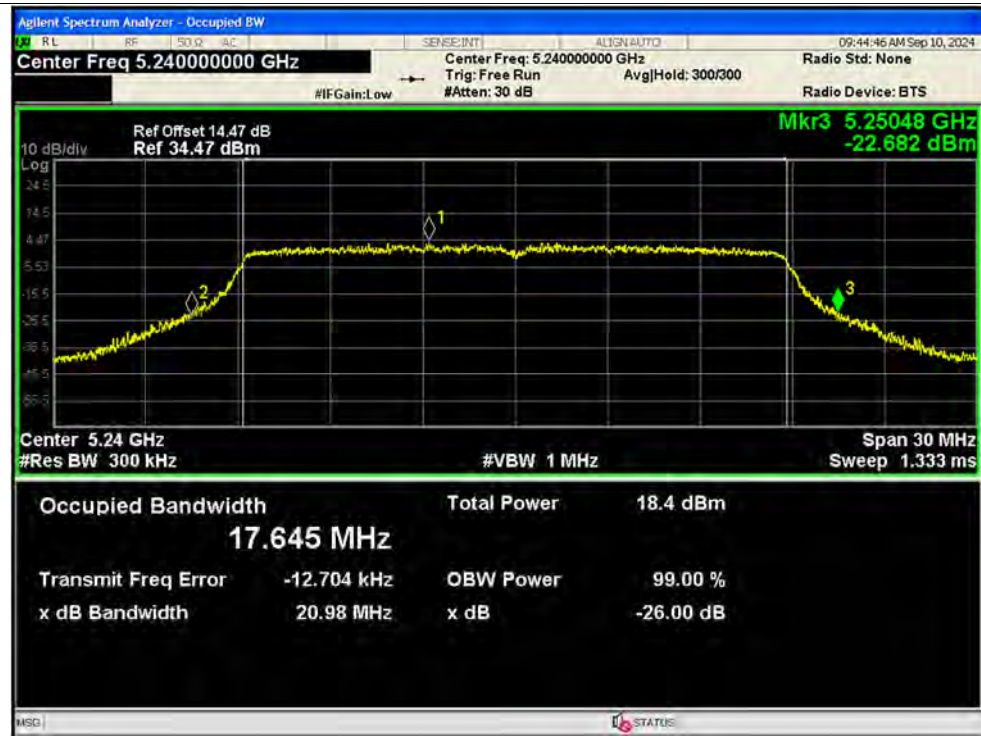


-26dB Bandwidth NVNT ac20 5220MHz Ant1





-26dB Bandwidth NVNT ac20 5240MHz Ant0

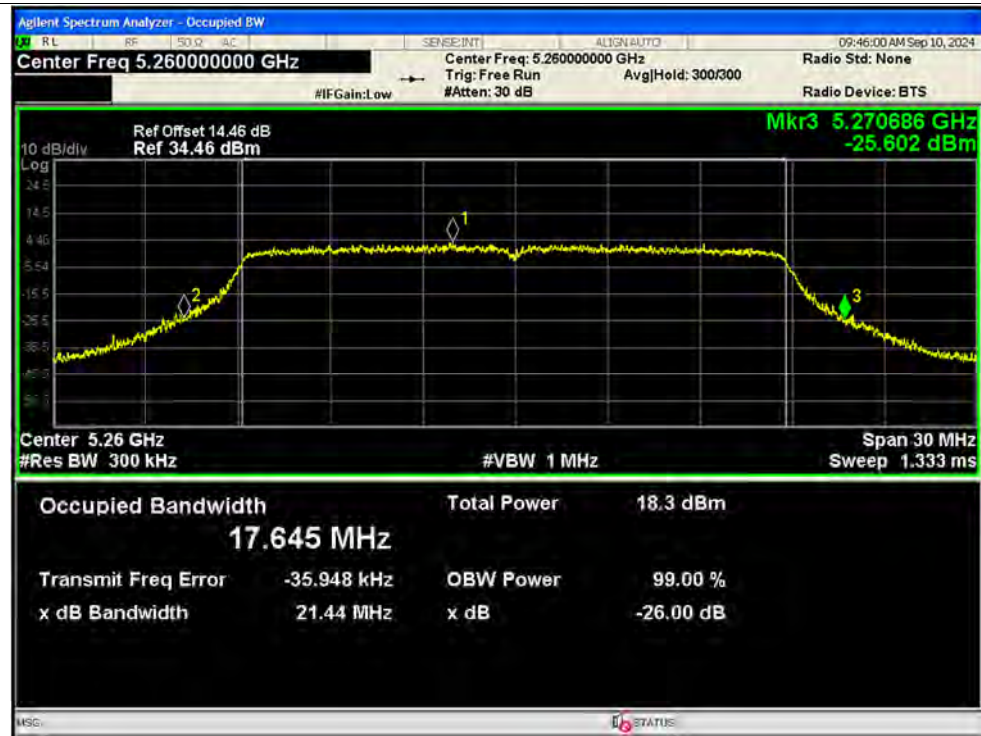


-26dB Bandwidth NVNT ac20 5240MHz Ant1





-26dB Bandwidth NVNT ac20 5260MHz Ant0

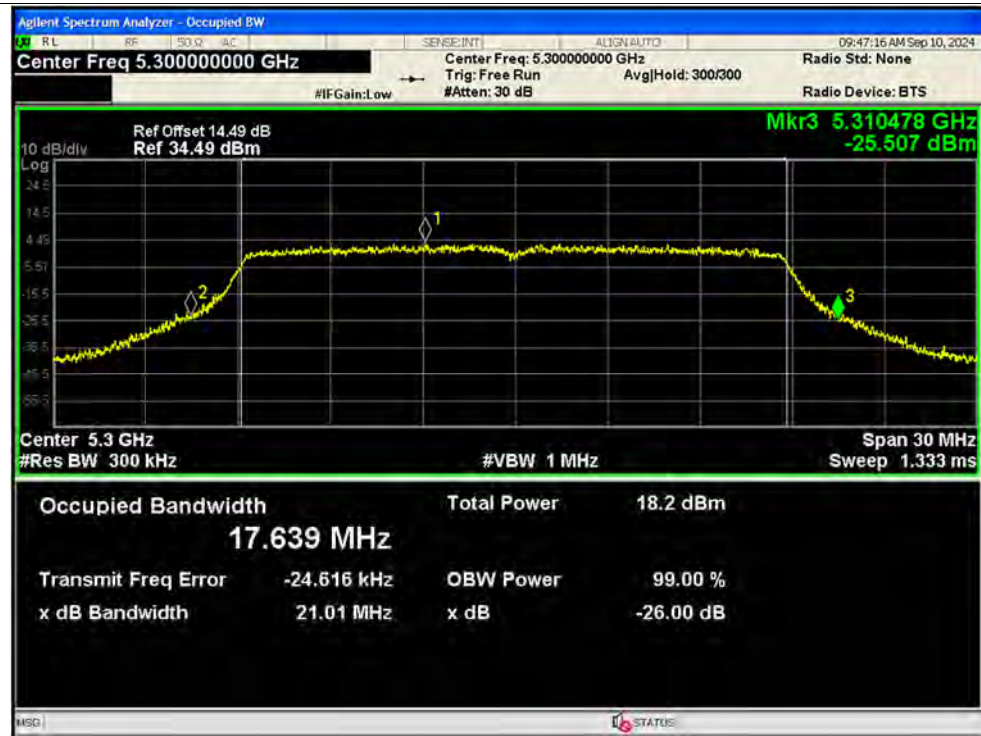


-26dB Bandwidth NVNT ac20 5260MHz Ant1





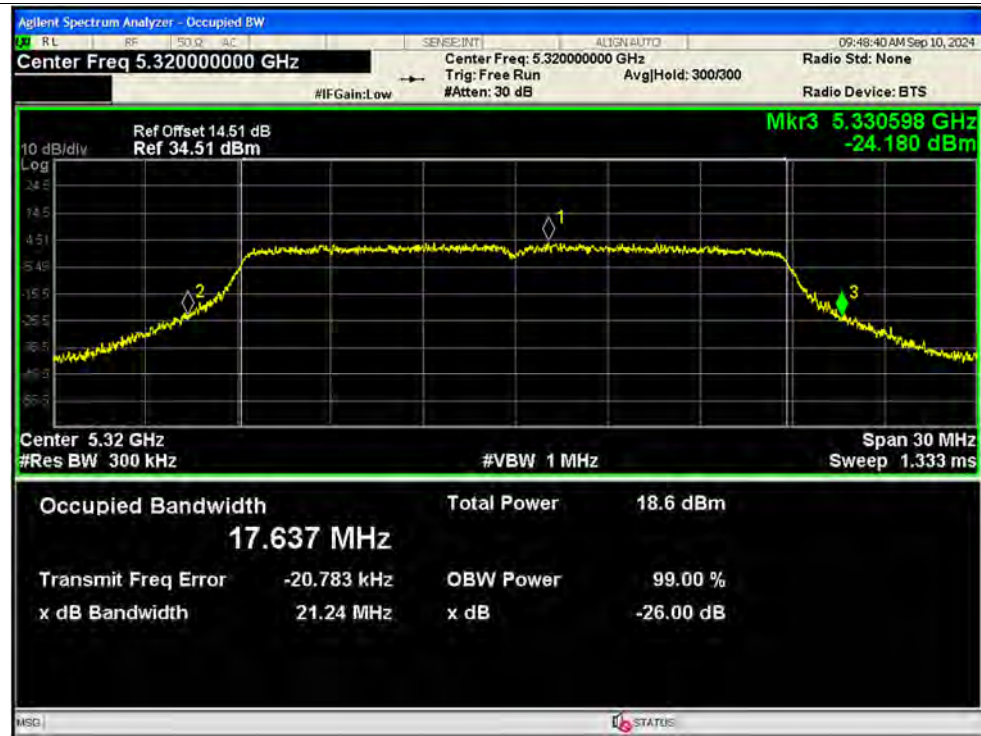
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-26dB Bandwidth NVNT ac20 5300MHz Ant1



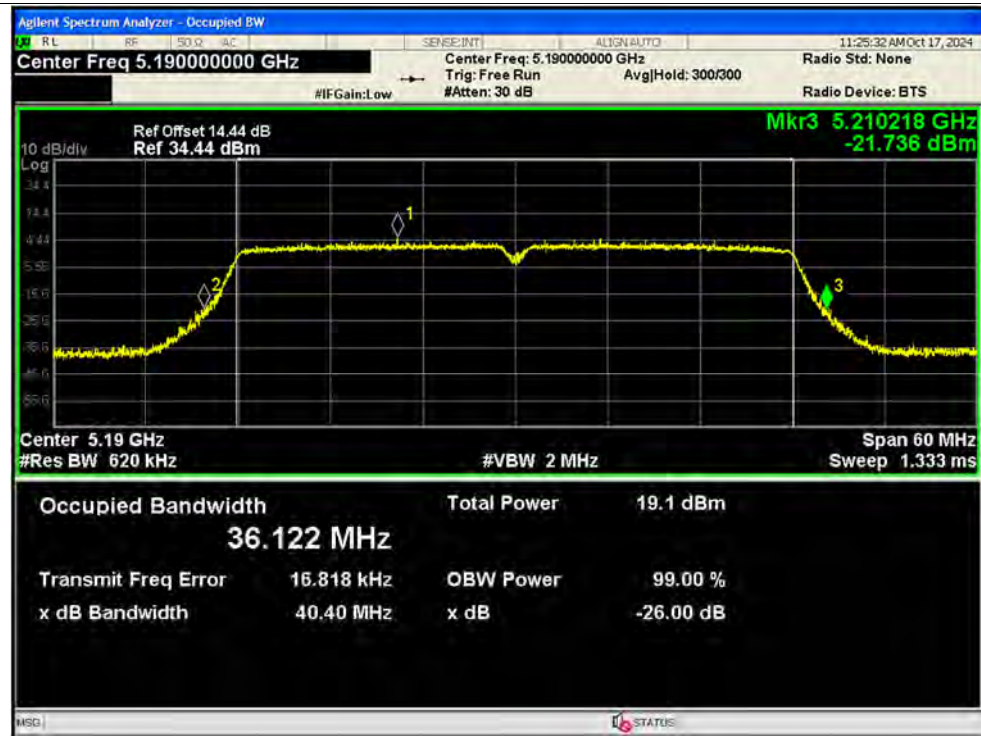
-26dB Bandwidth NVNT ac20 5320MHz Ant0



-26dB Bandwidth NVNT ac20 5320MHz Ant1



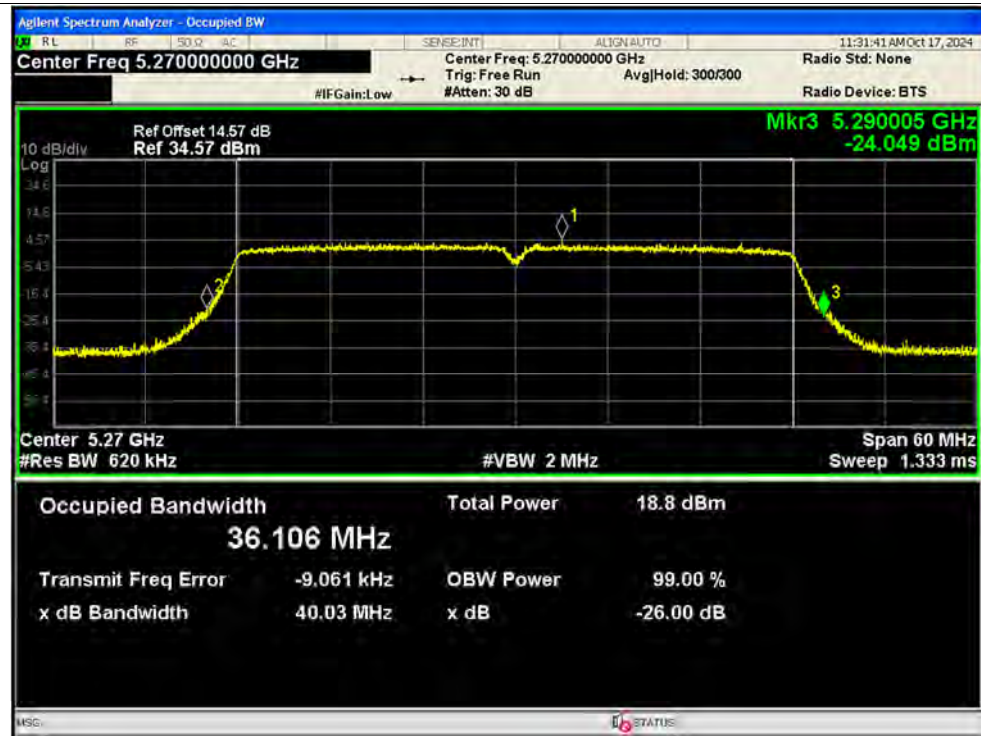
-26dB Bandwidth NVNT ac40 5190MHz Ant0



-26dB Bandwidth NVNT ac40 5230MHz Ant0



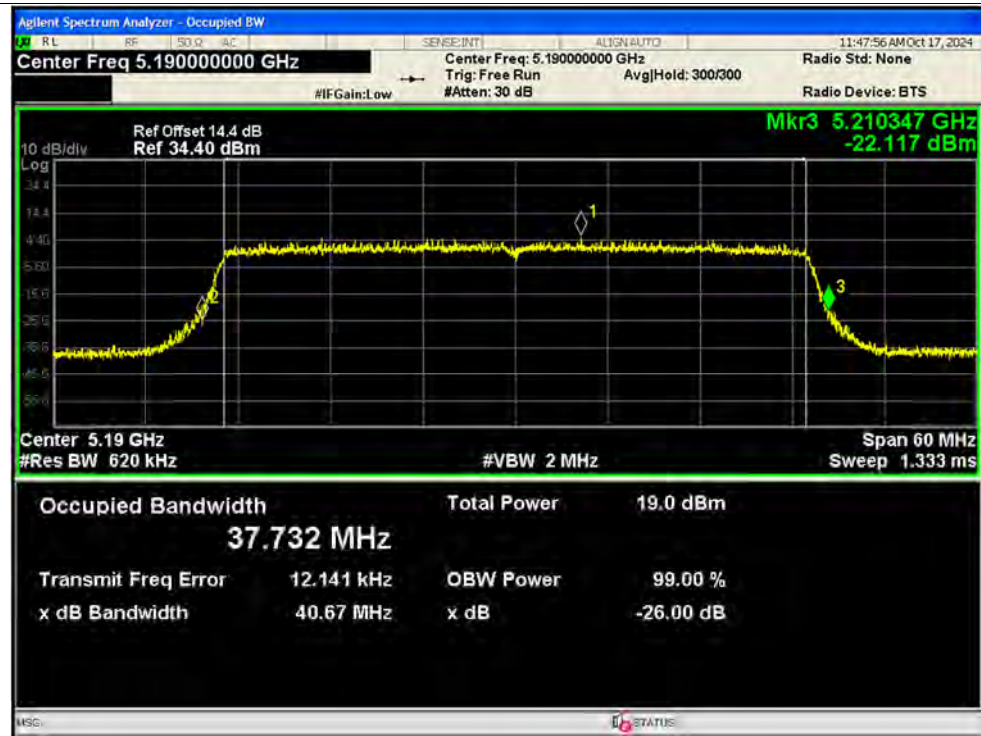
-26dB Bandwidth NVNT ac40 5270MHz Ant0



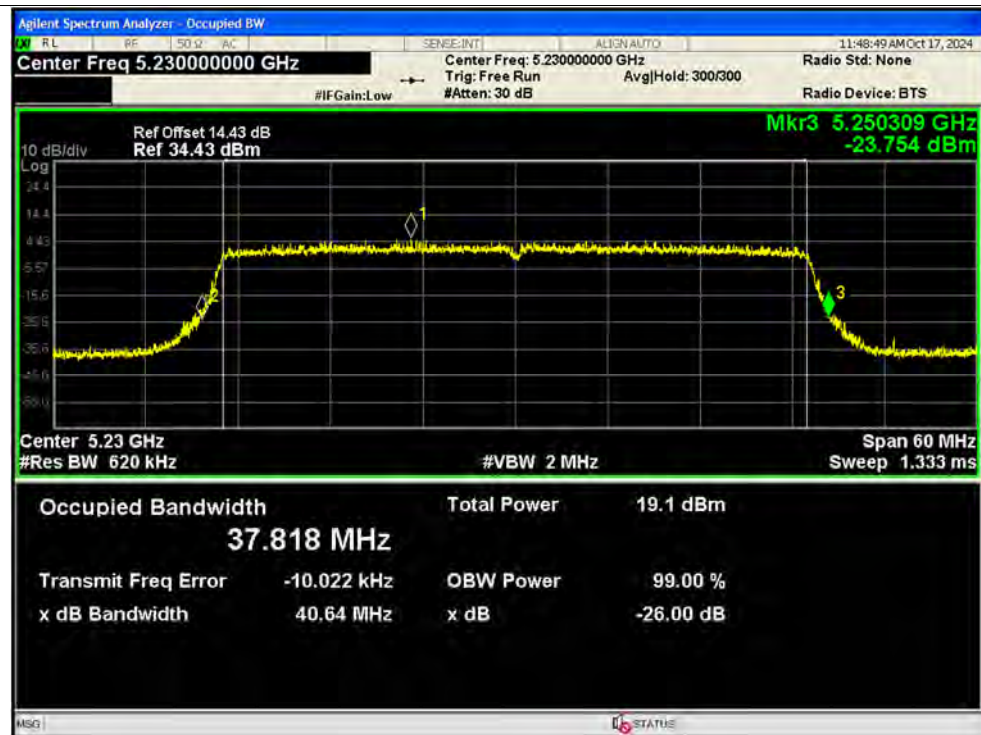
-26dB Bandwidth NVNT ac40 5310MHz Ant0



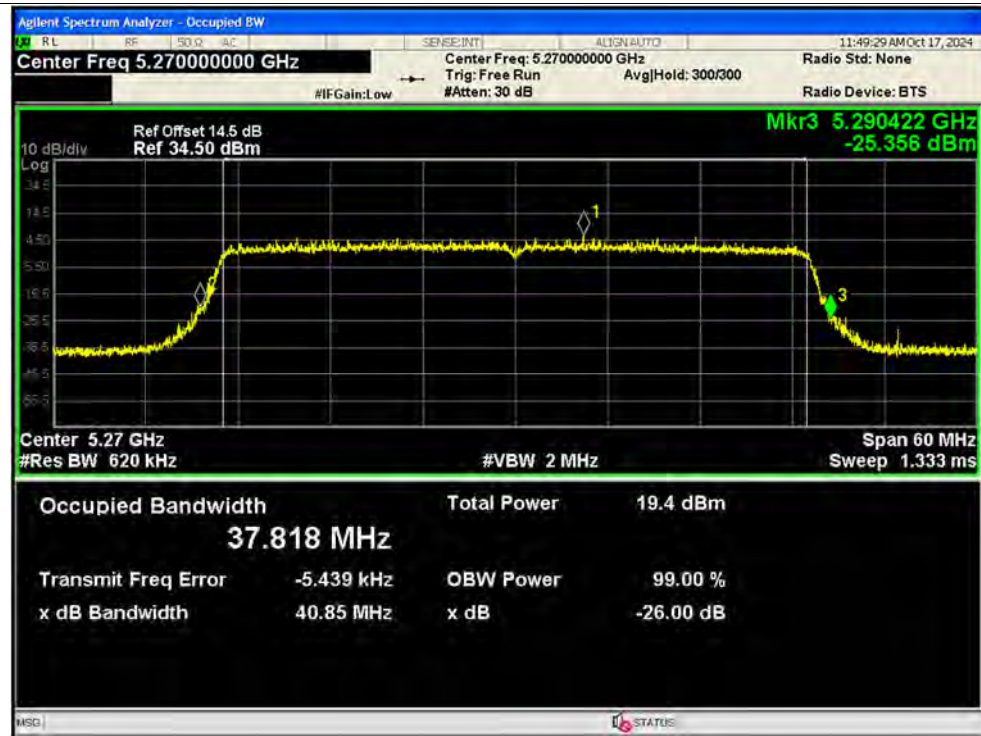
-26dB Bandwidth NVNT ac40 5190MHz Ant1



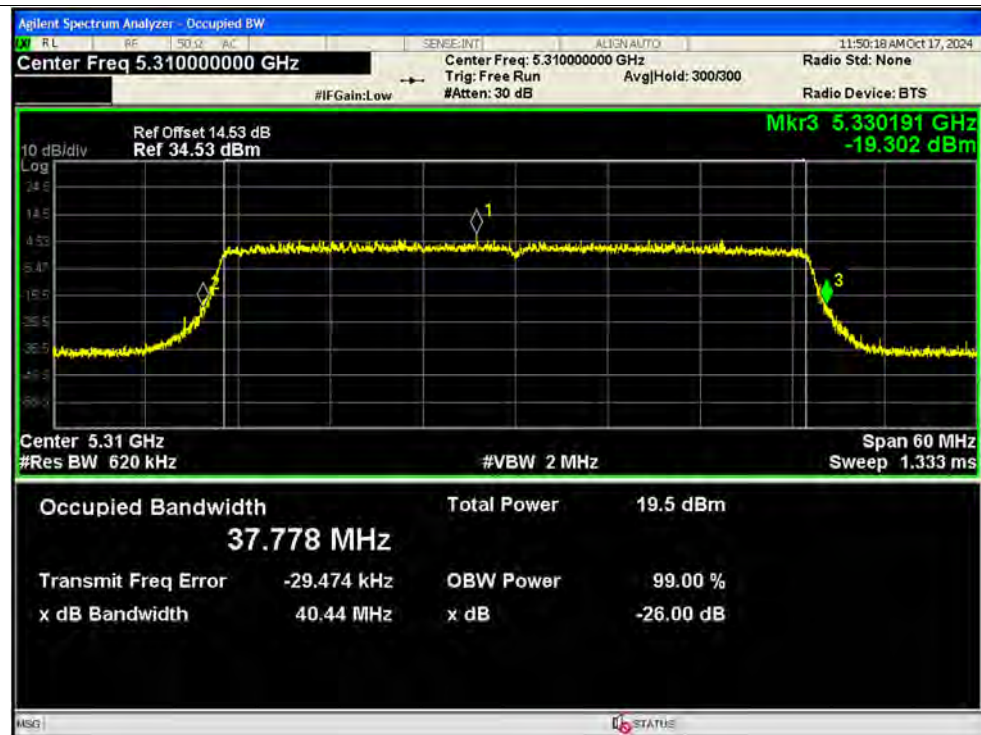
-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1

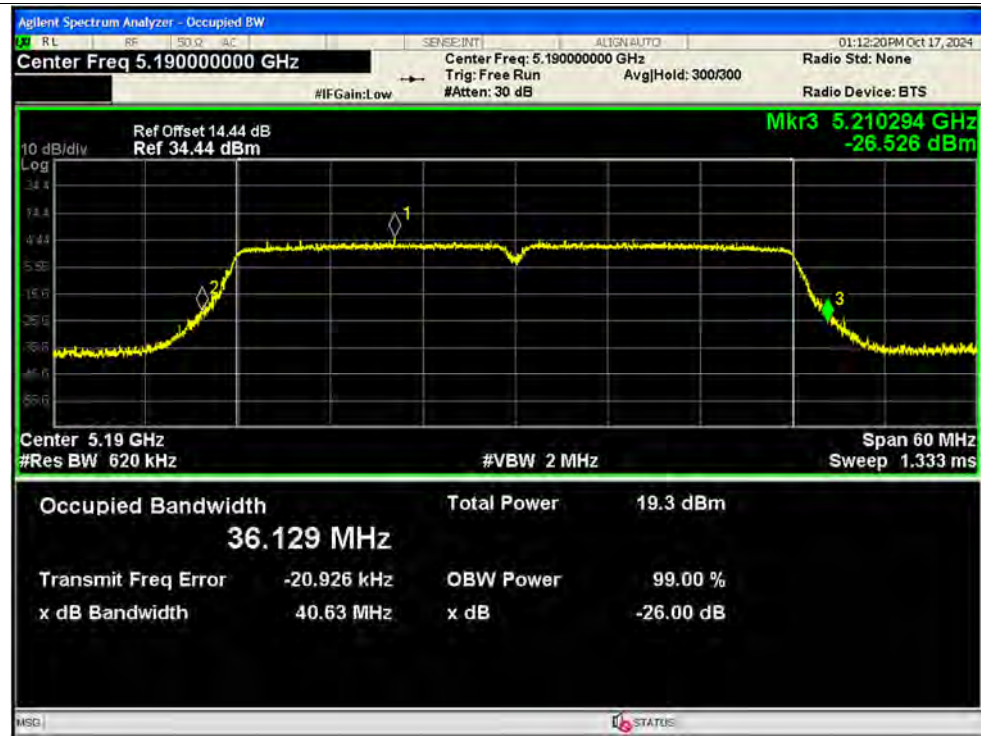


-26dB Bandwidth NVNT ac40 5310MHz Ant1

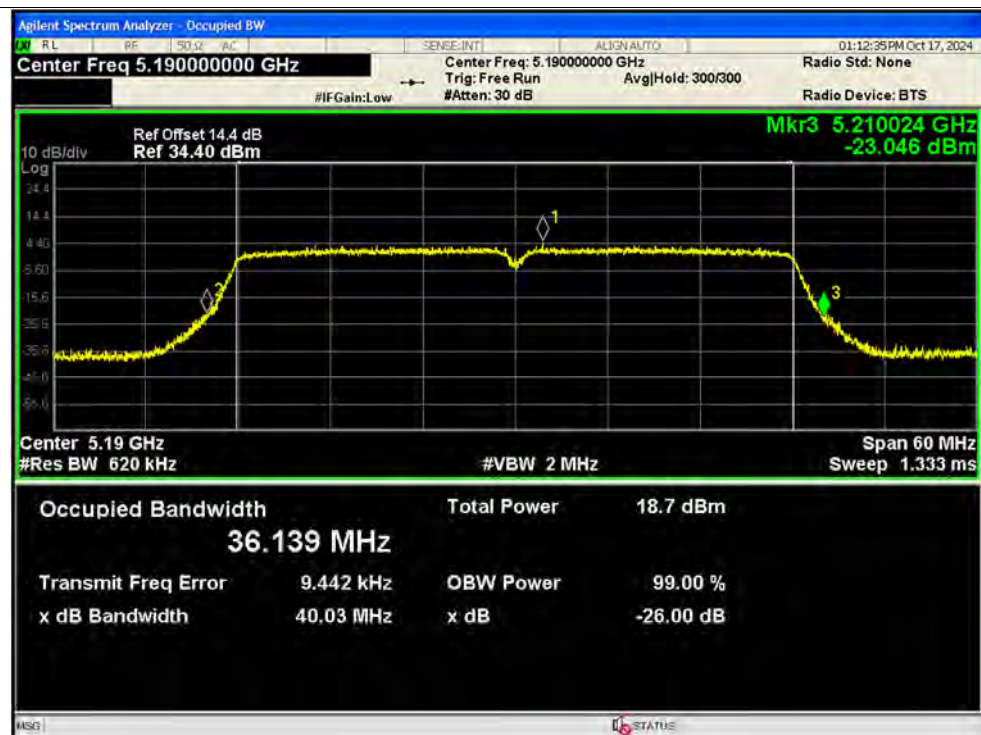




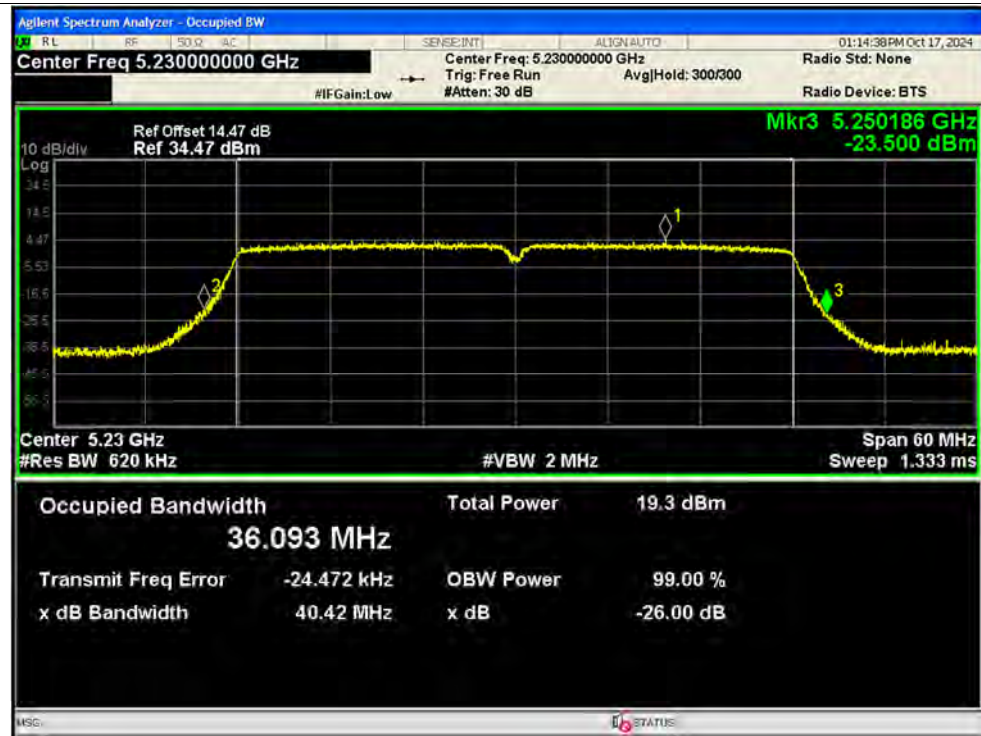
-26dB Bandwidth NVNT ac40 5190MHz Ant0



-26dB Bandwidth NVNT ac40 5190MHz Ant1



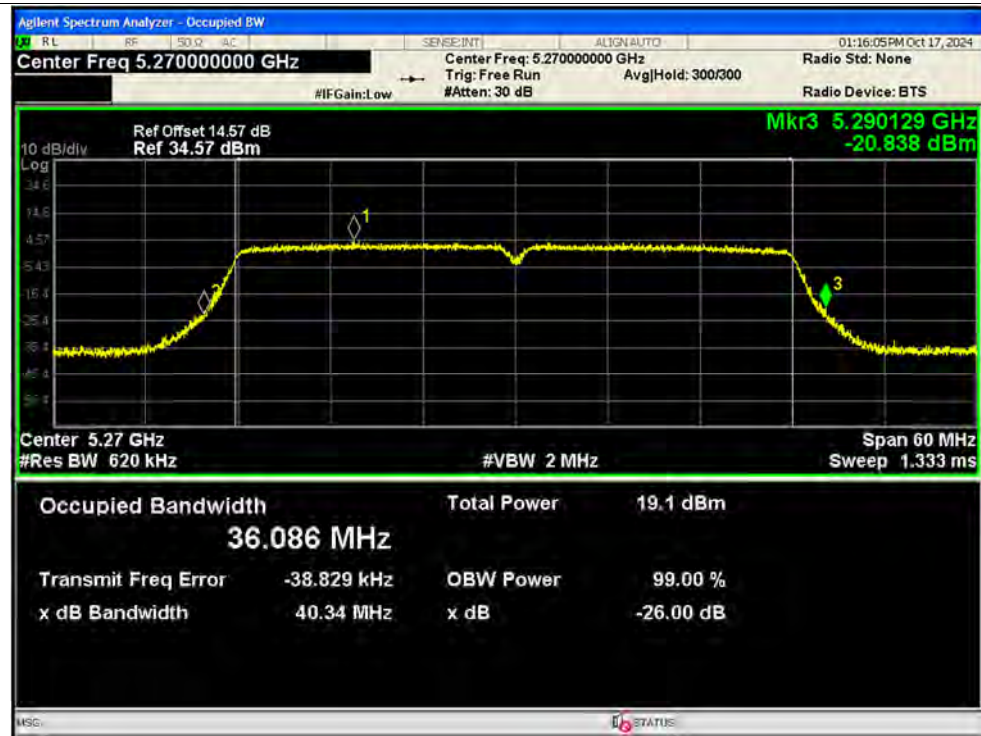
-26dB Bandwidth NVNT ac40 5230MHz Ant0



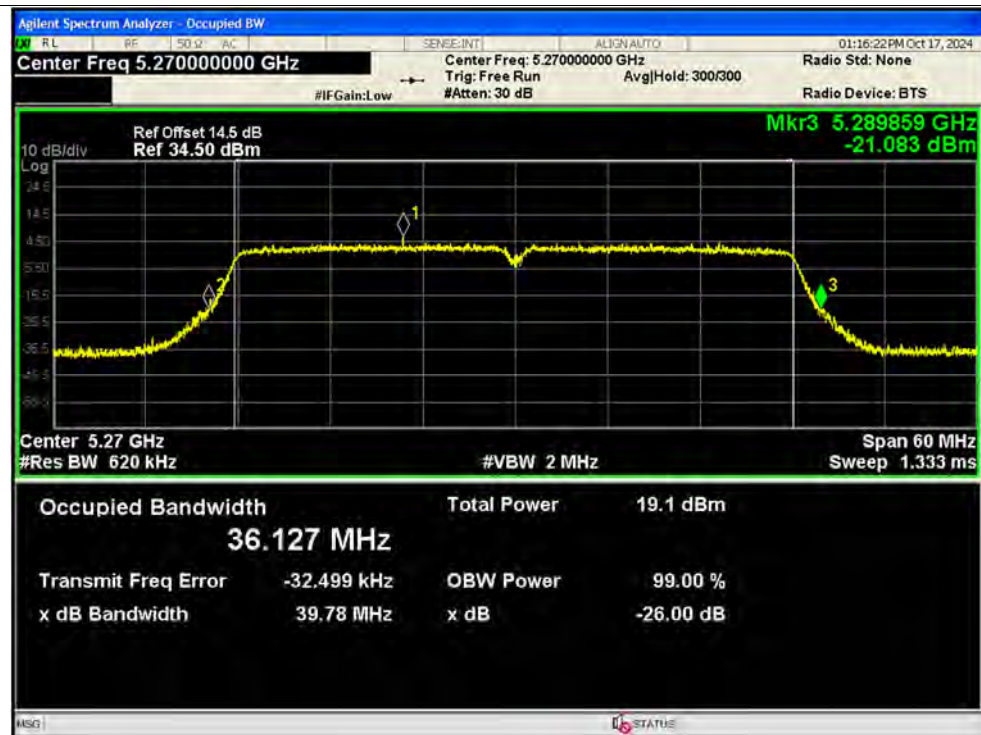
-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant0

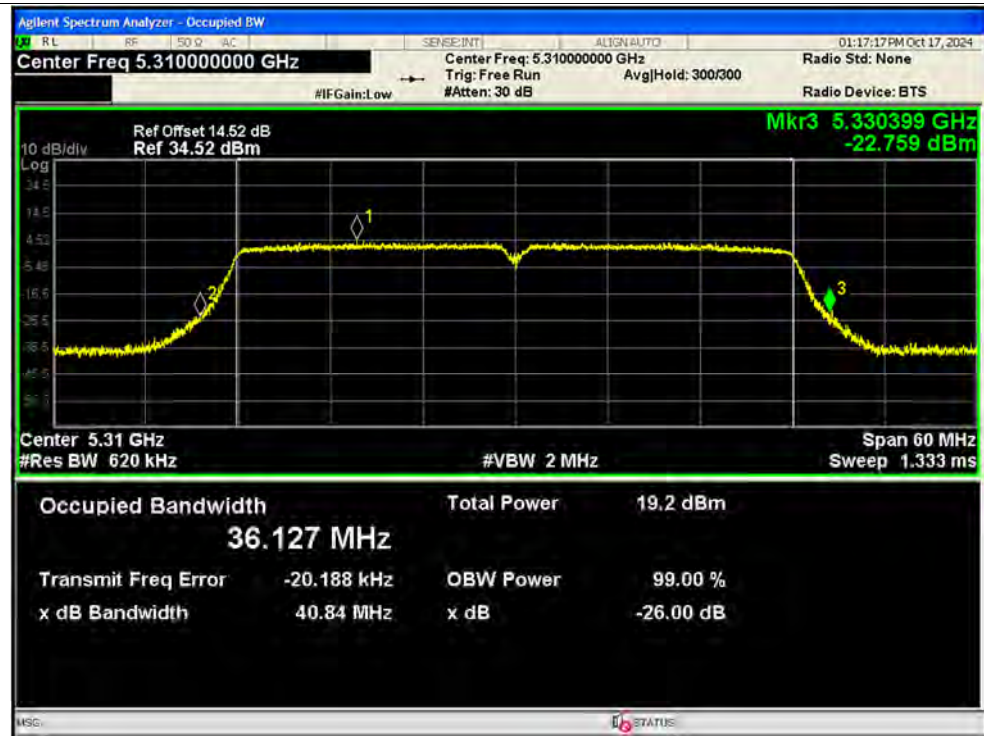


-26dB Bandwidth NVNT ac40 5270MHz Ant1





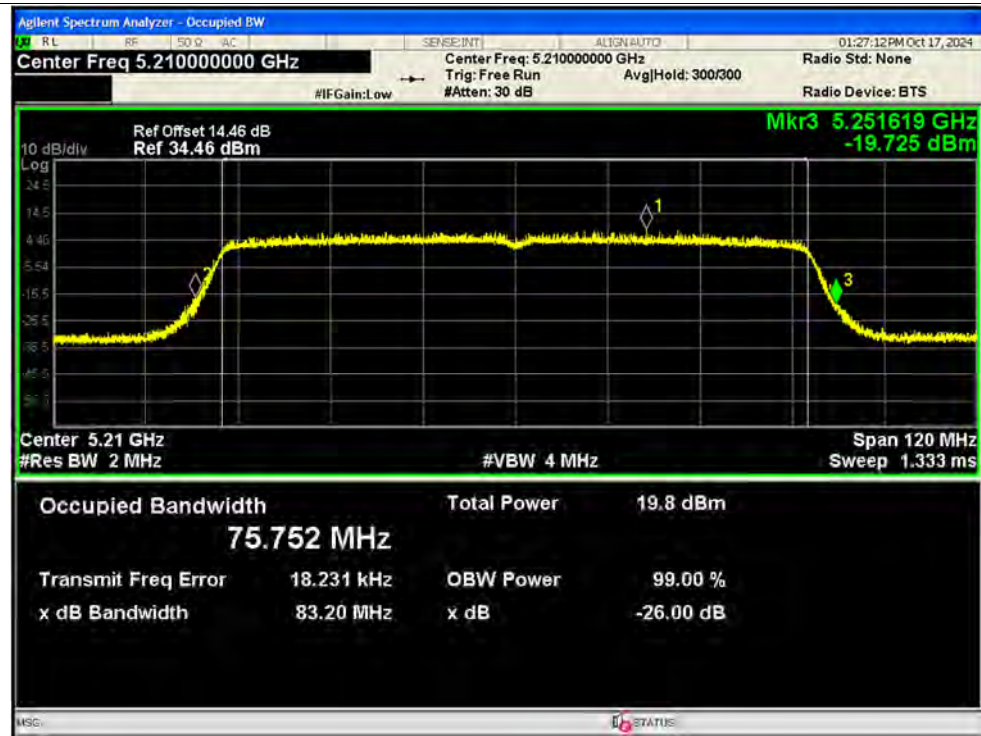
-26dB Bandwidth NVNT ac40 5310MHz Ant0



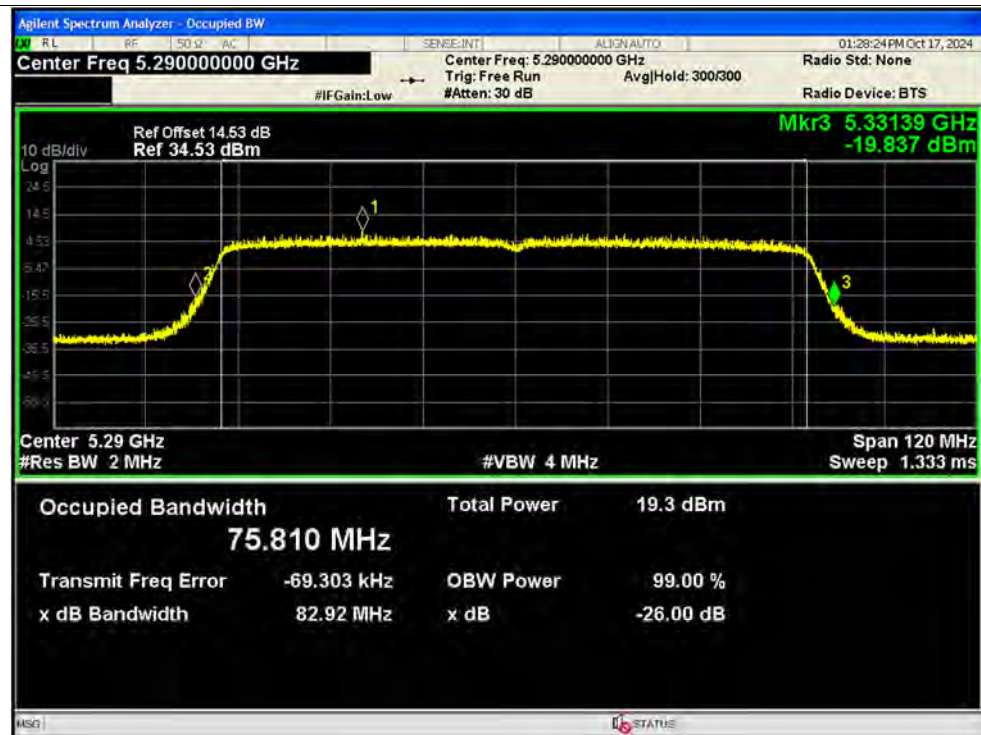
-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant0

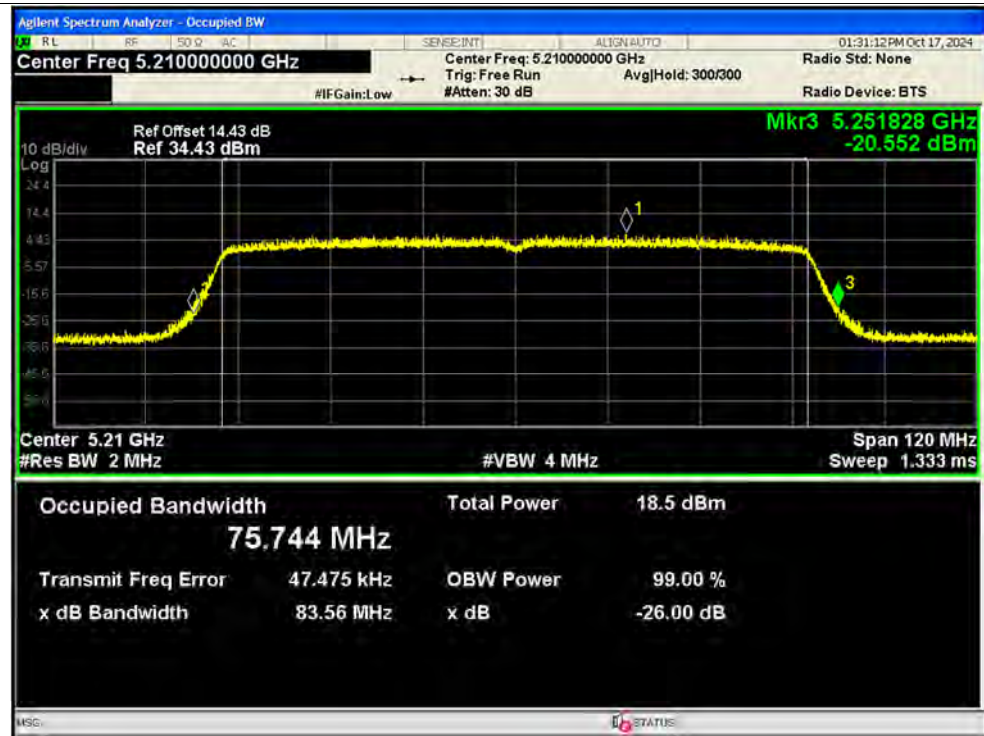


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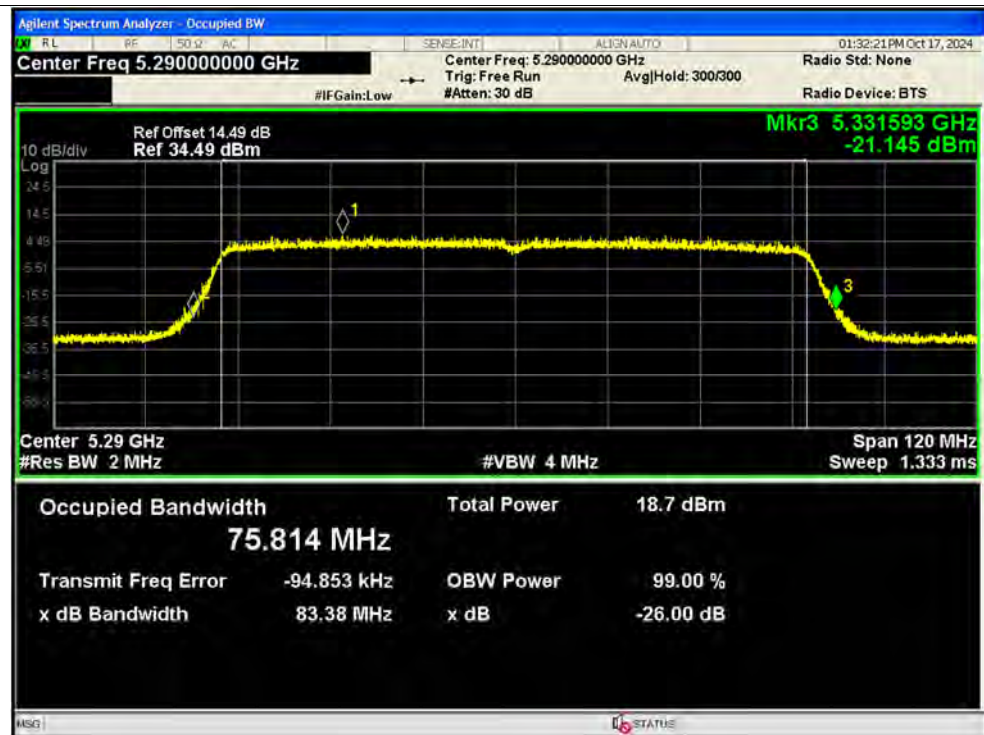




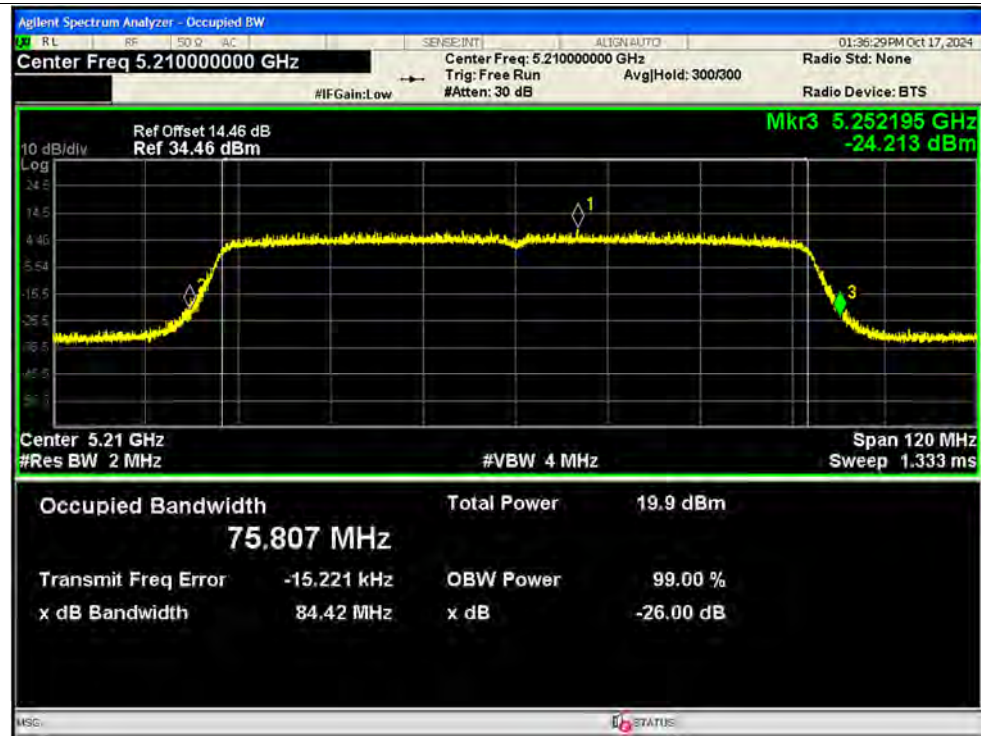
-26dB Bandwidth NVNT ac80 5210MHz Ant1



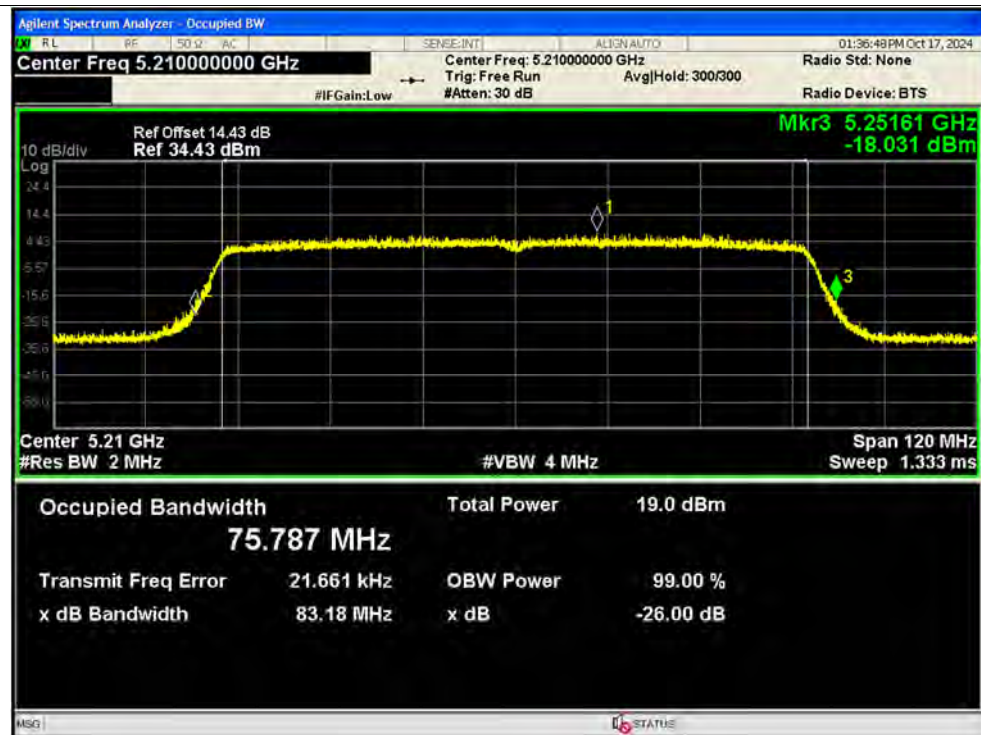
-26dB Bandwidth NVNT ac80 5290MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant0

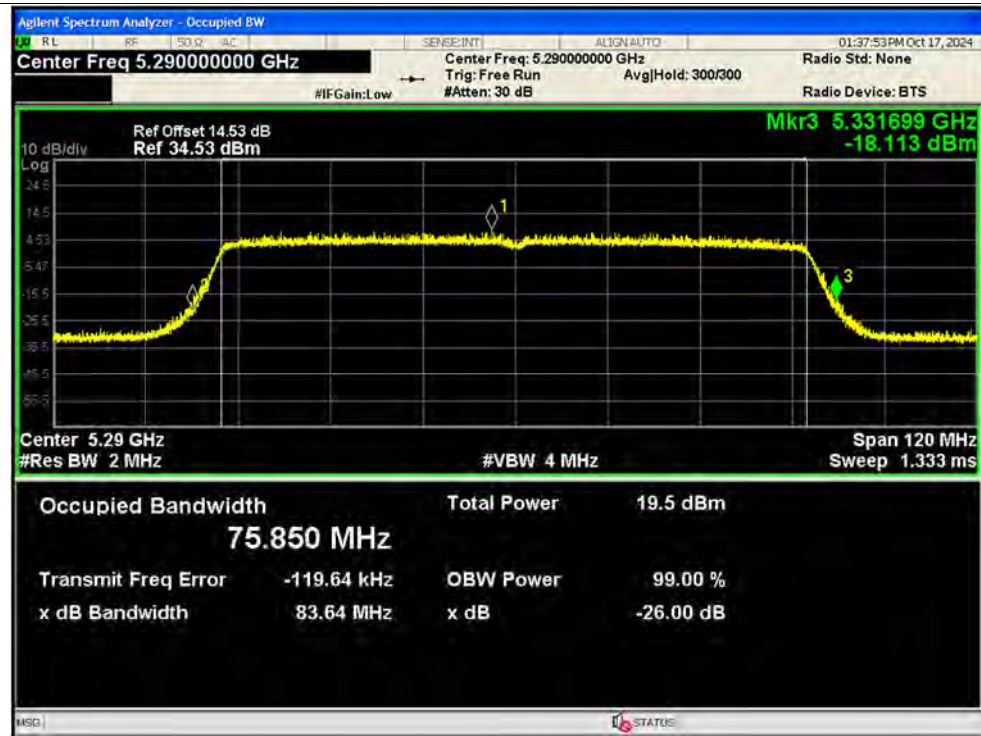


-26dB Bandwidth NVNT ac80 5210MHz Ant1

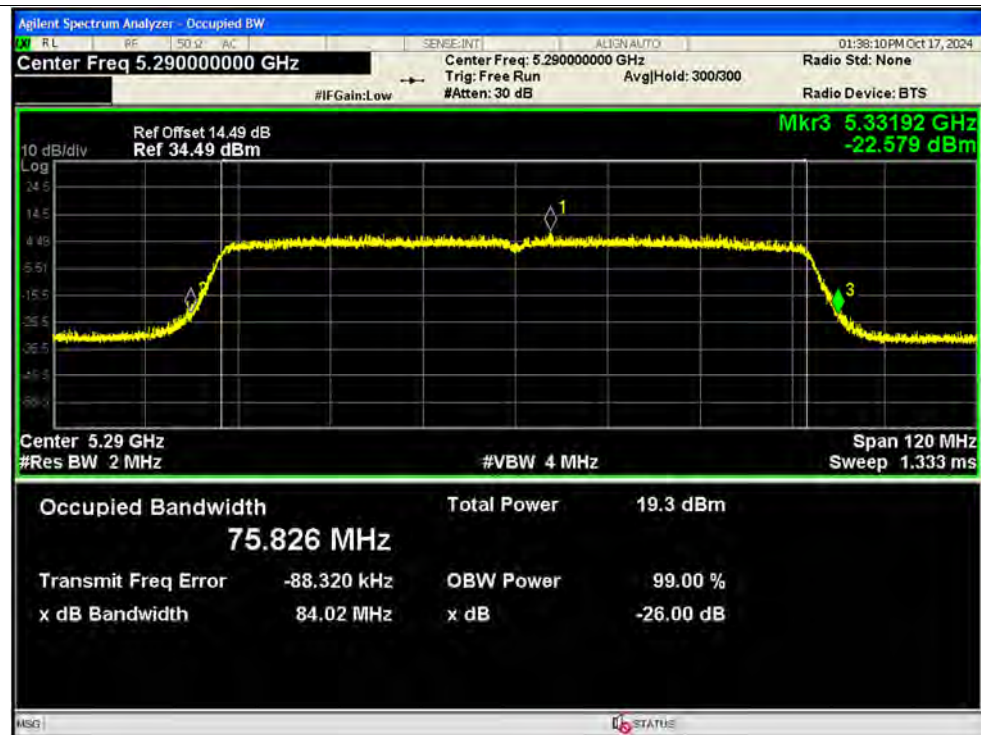




-26dB Bandwidth NVNT ac80 5290MHz Ant0

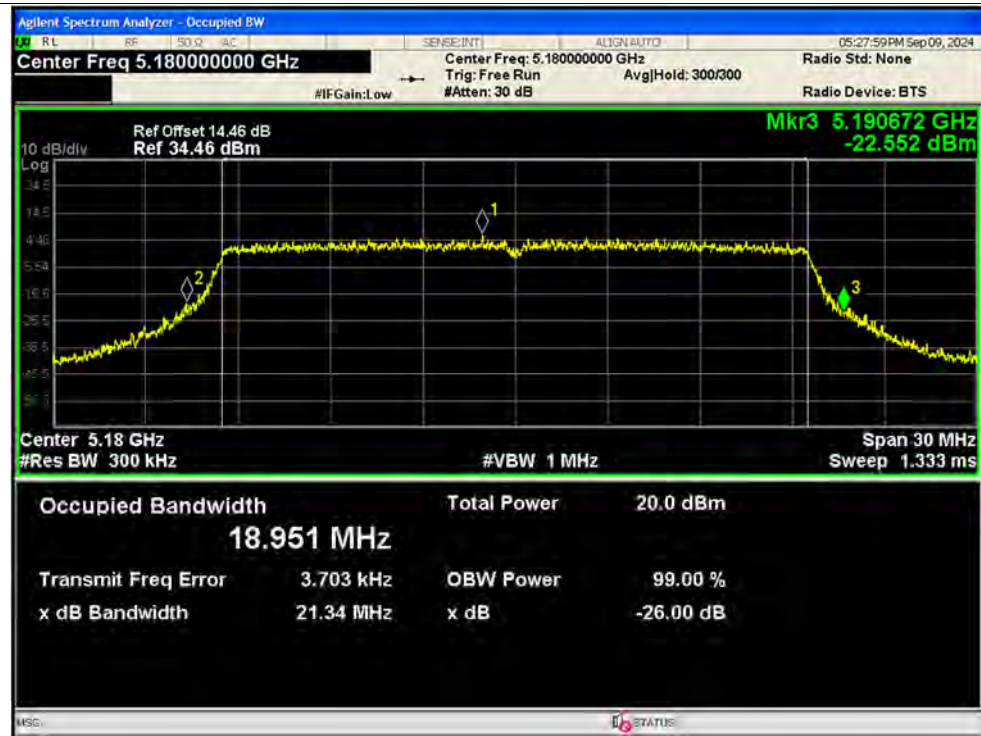


-26dB Bandwidth NVNT ac80 5290MHz Ant1





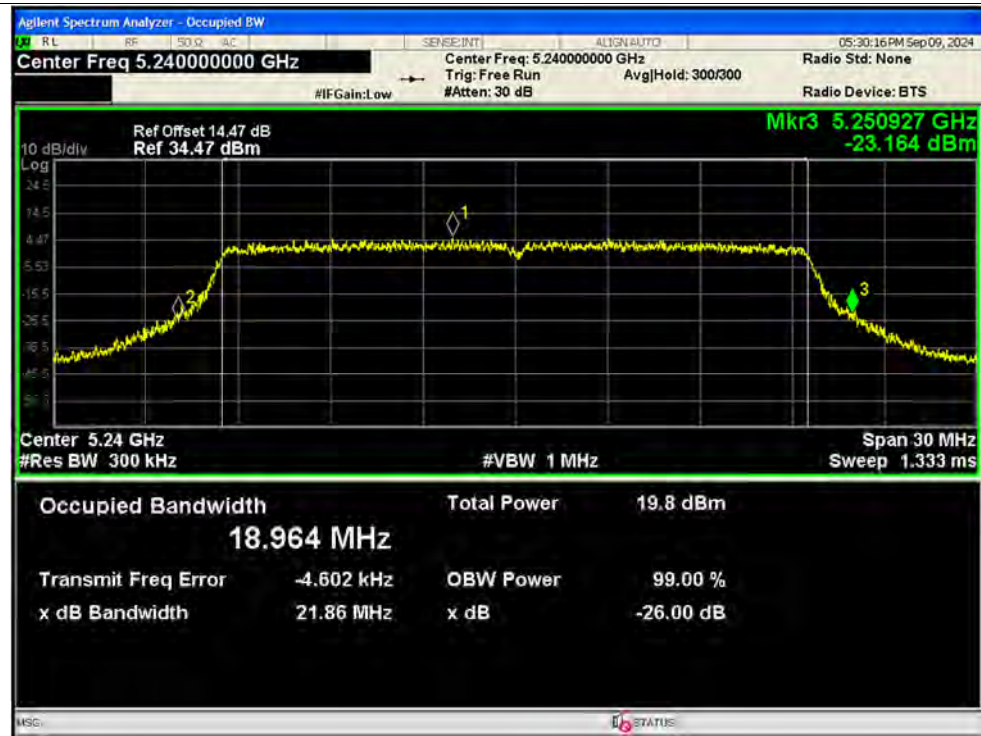
-26dB Bandwidth NVNT ax20 5180MHz Ant0



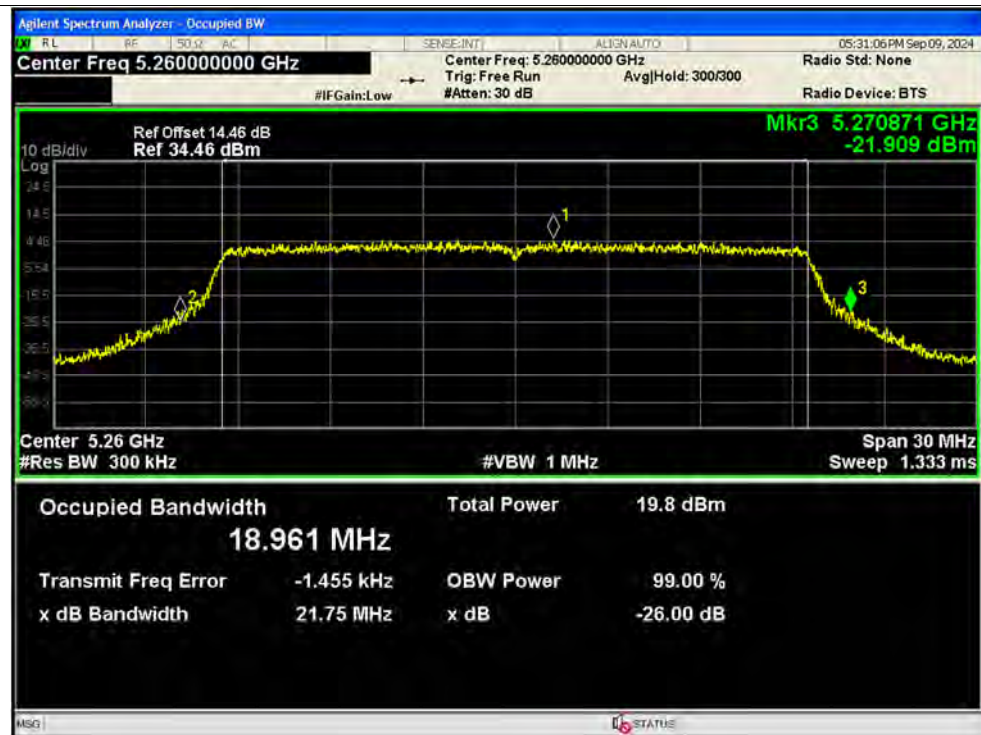
-26dB Bandwidth NVNT ax20 5220MHz Ant0



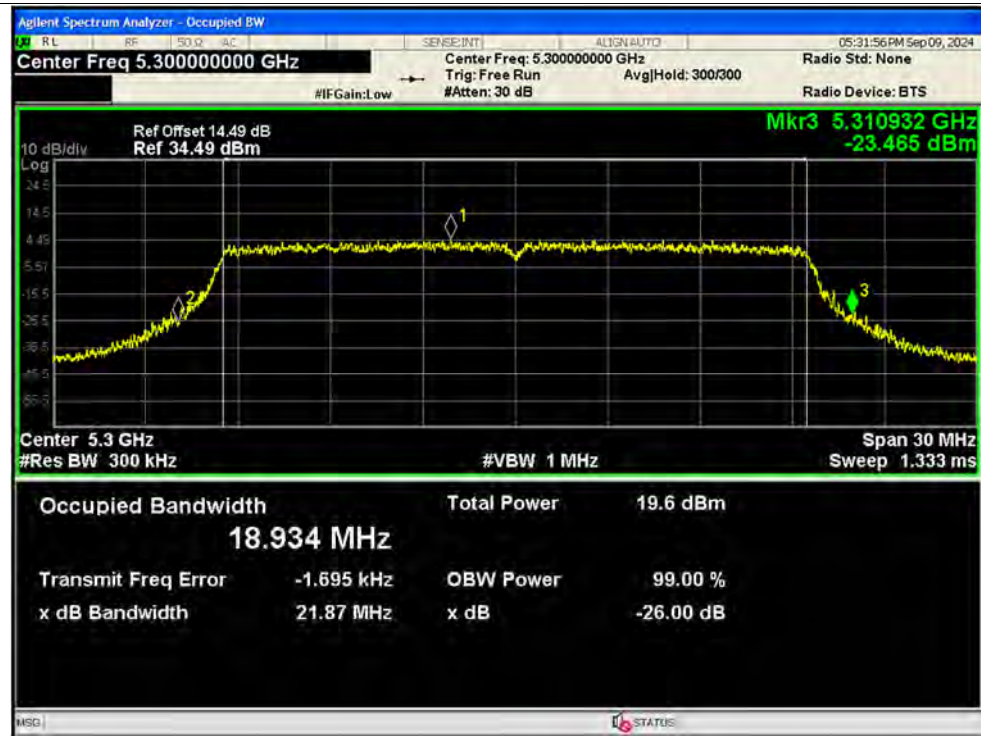
-26dB Bandwidth NVNT ax20 5240MHz Ant0



-26dB Bandwidth NVNT ax20 5260MHz Ant0



-26dB Bandwidth NVNT ax20 5300MHz Ant0



-26dB Bandwidth NVNT ax20 5320MHz Ant0

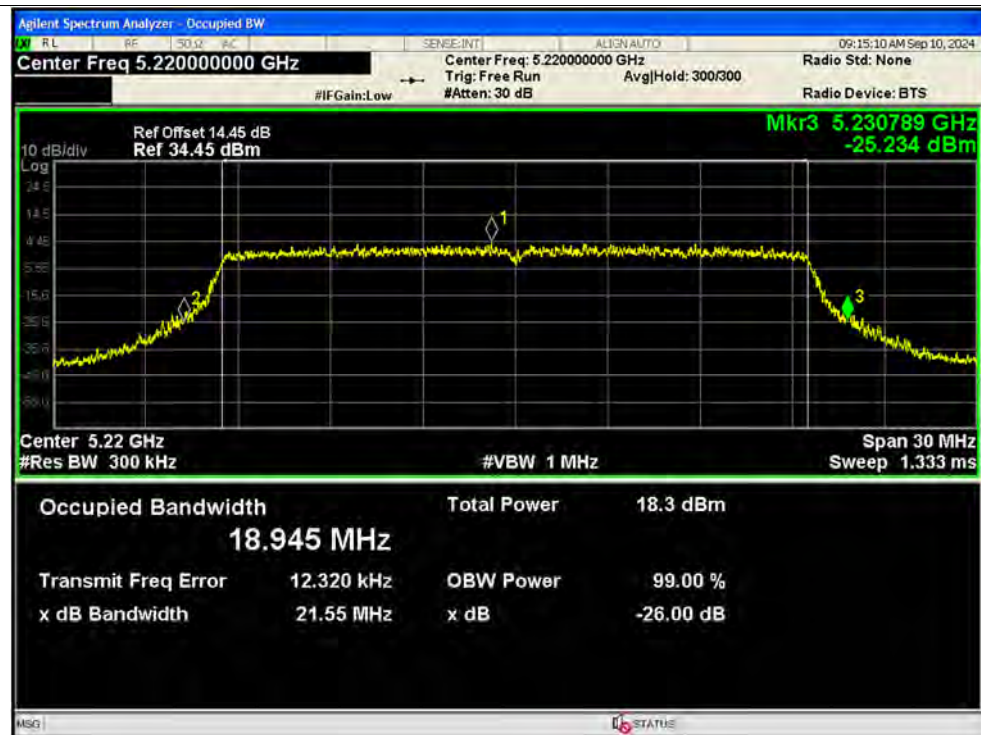




-26dB Bandwidth NVNT ax20 5180MHz Ant1

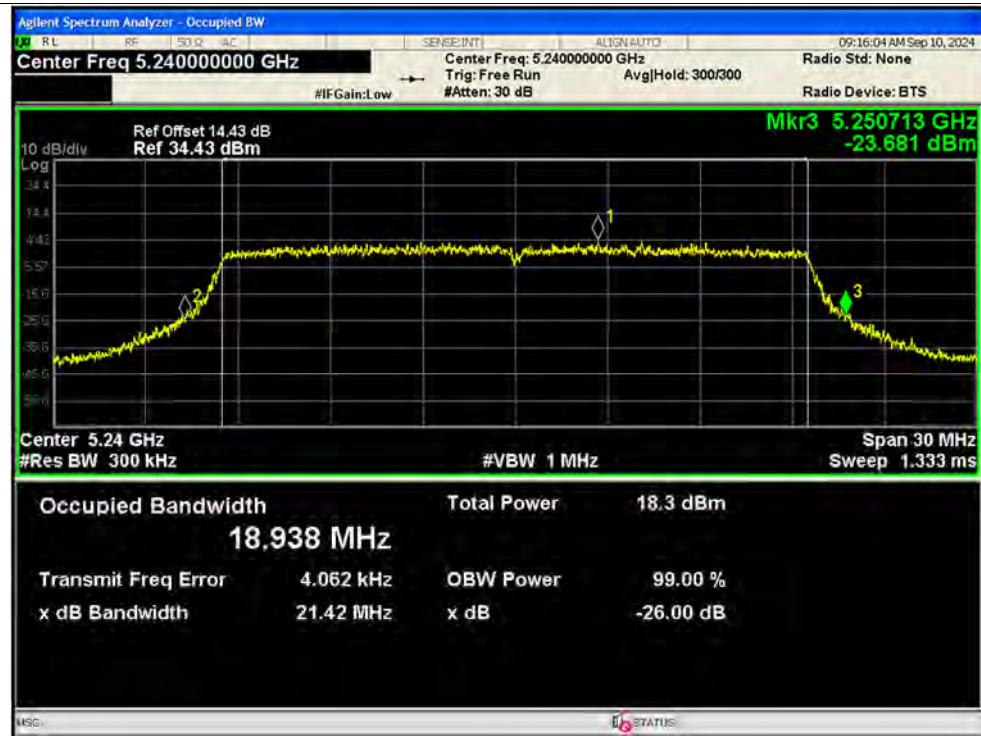


-26dB Bandwidth NVNT ax20 5220MHz Ant1





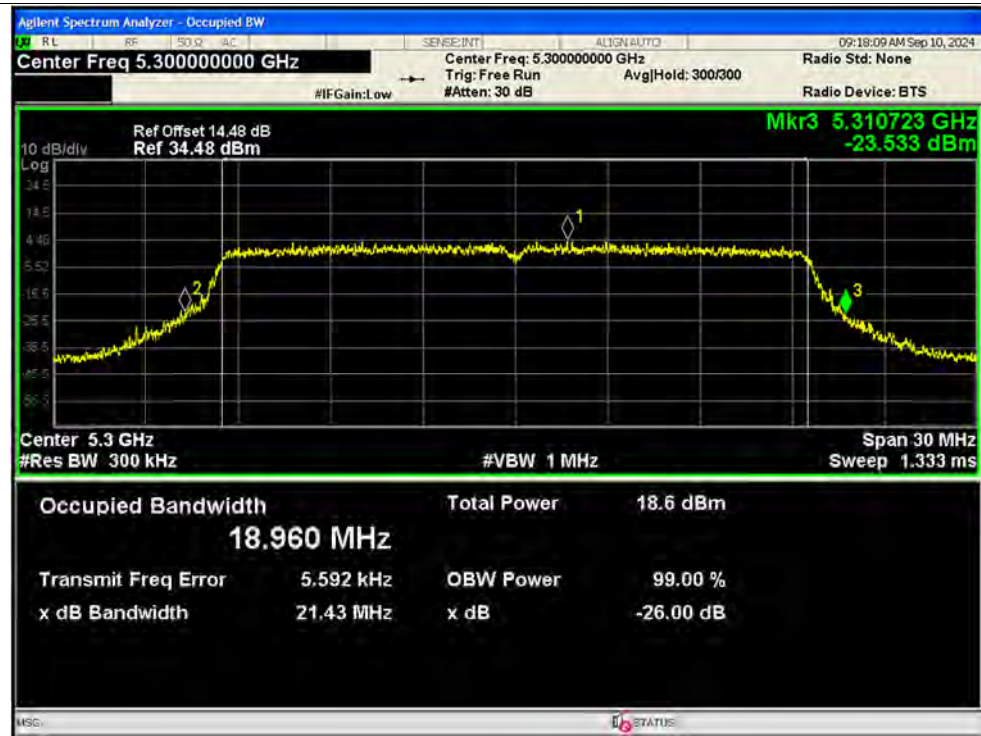
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-26dB Bandwidth NVNT ax20 5260MHz Ant1



-26dB Bandwidth NVNT ax20 5300MHz Ant1

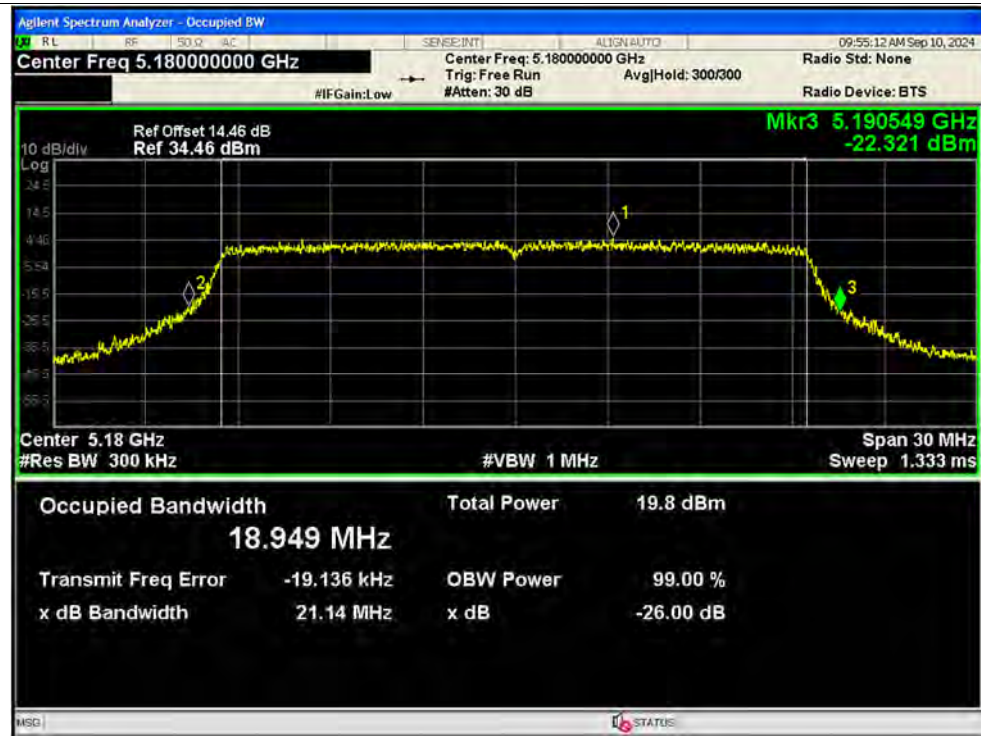


-26dB Bandwidth NVNT ax20 5320MHz Ant1





-26dB Bandwidth NVNT ax20 5180MHz Ant0

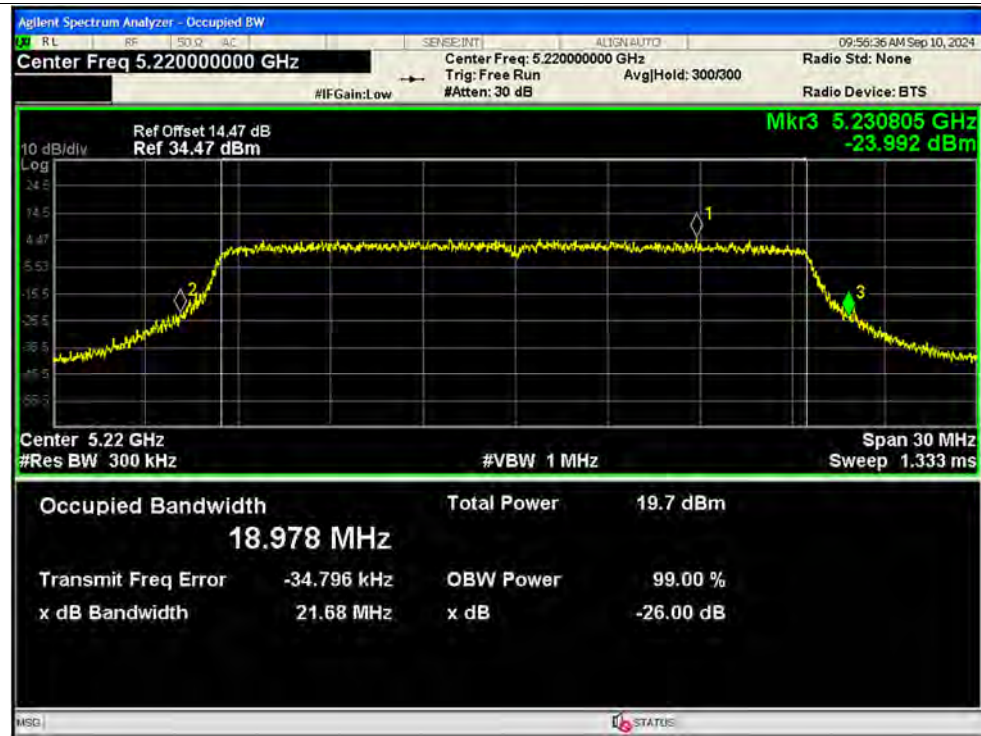


-26dB Bandwidth NVNT ax20 5180MHz Ant1





-26dB Bandwidth NVNT ax20 5220MHz Ant0

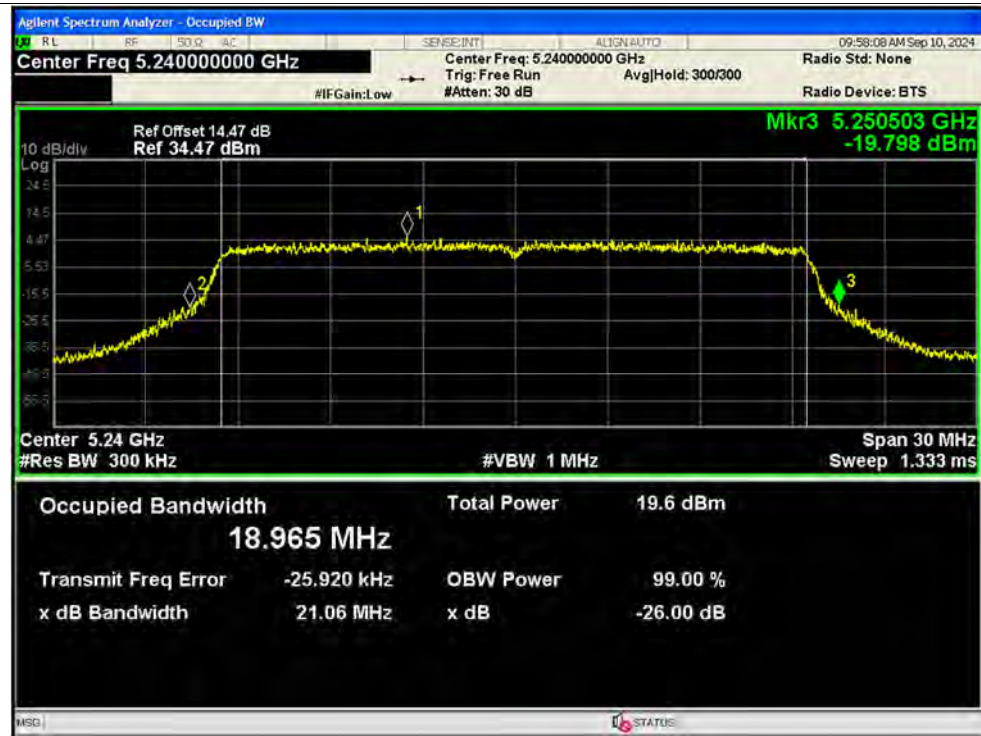


-26dB Bandwidth NVNT ax20 5220MHz Ant1





-26dB Bandwidth NVNT ax20 5240MHz Ant0

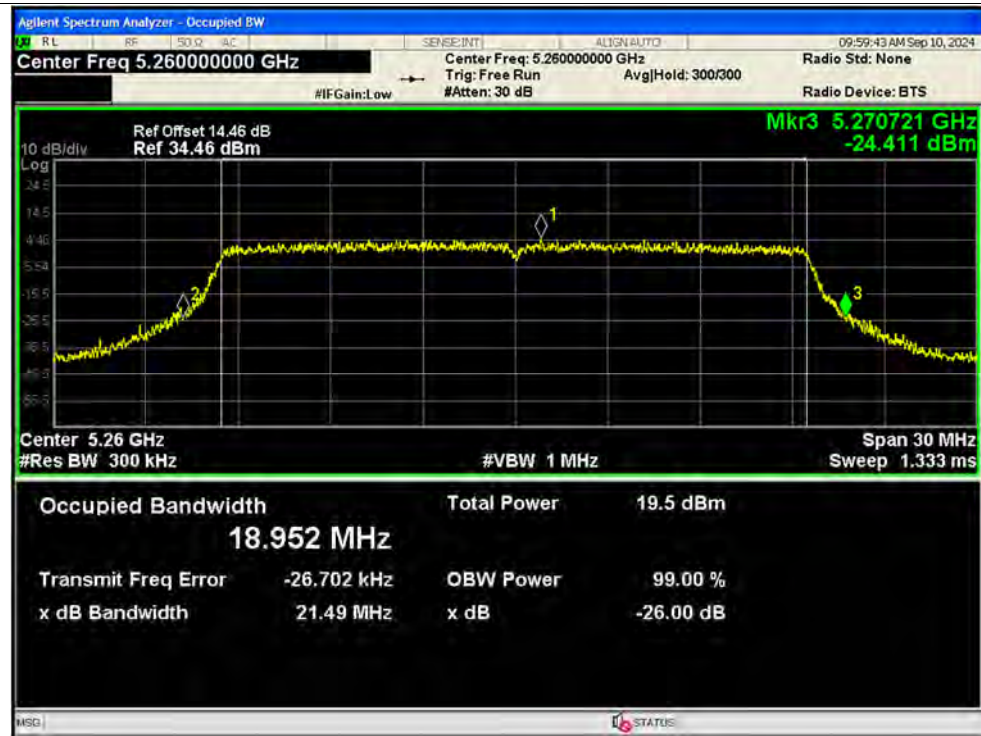


-26dB Bandwidth NVNT ax20 5240MHz Ant1





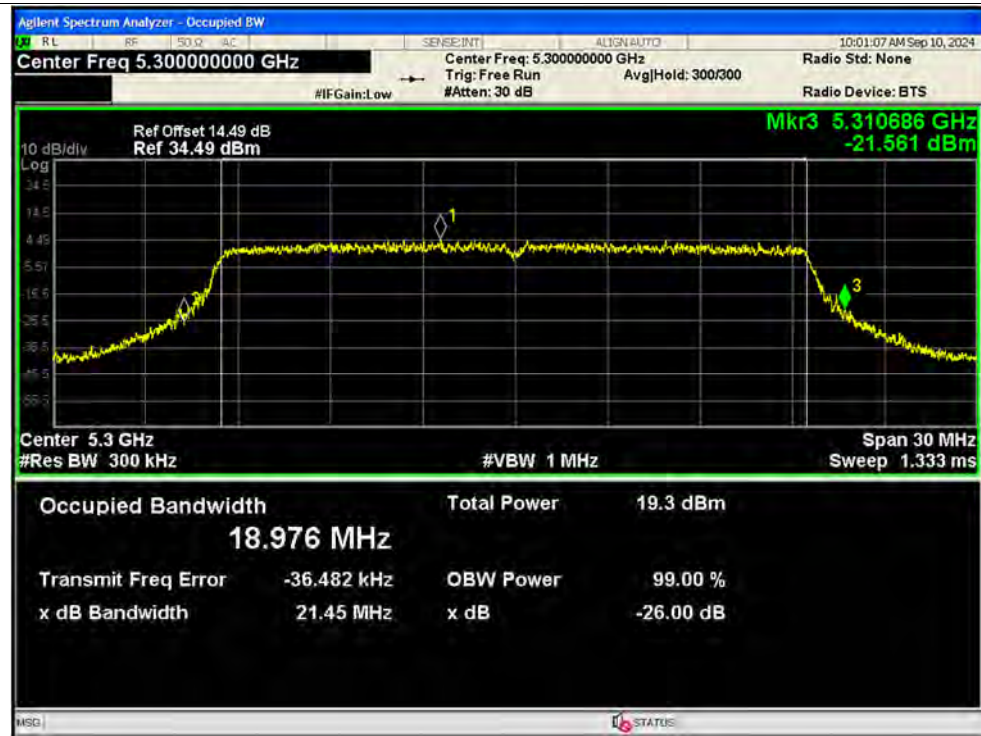
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-26dB Bandwidth NVNT ax20 5260MHz Ant1



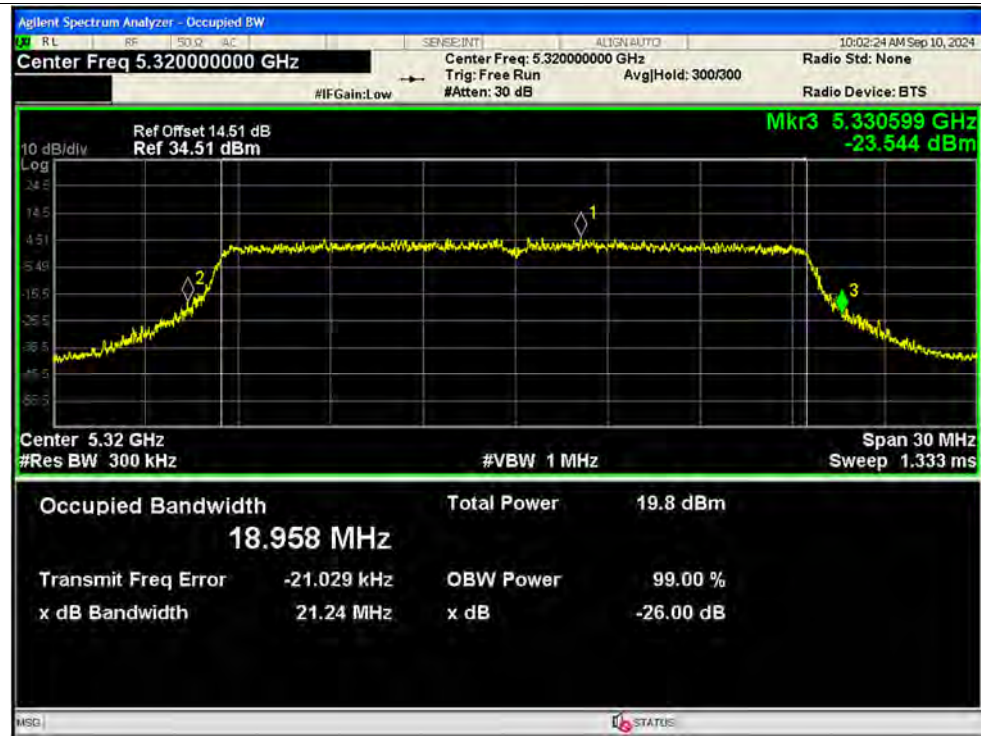
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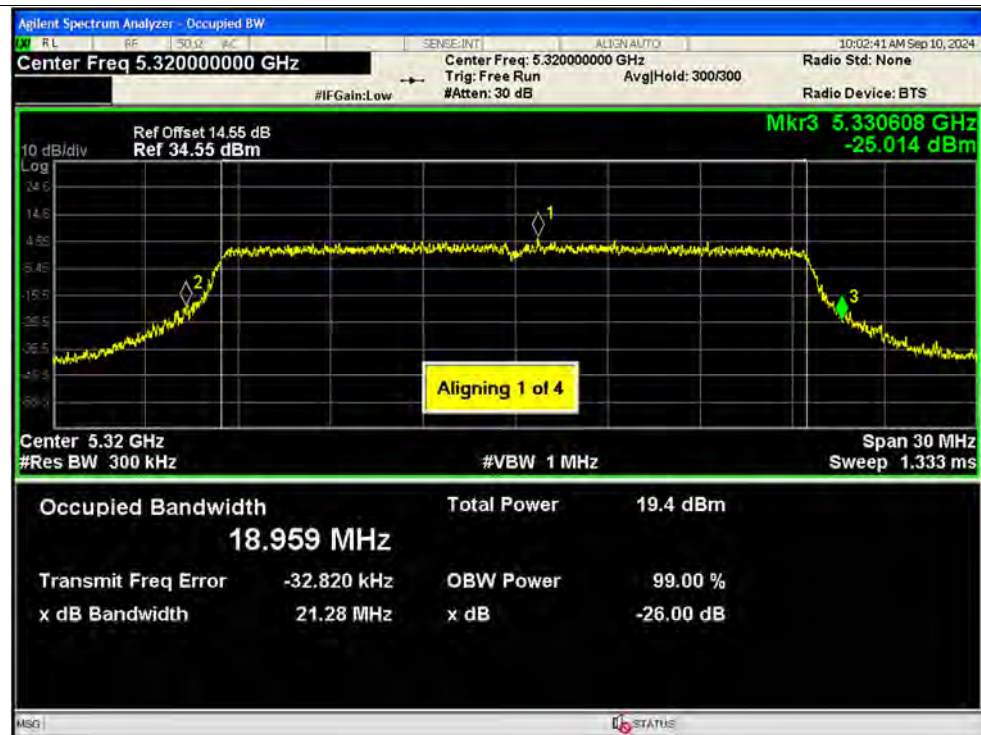
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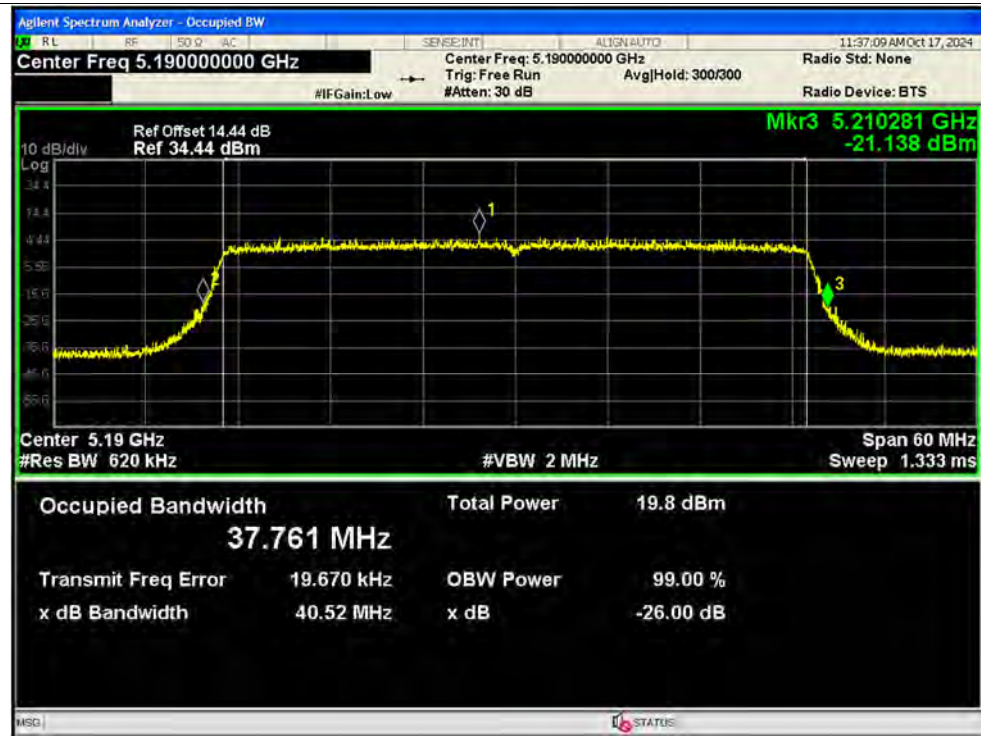
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-26dB Bandwidth NVNT ax20 5320MHz Ant1



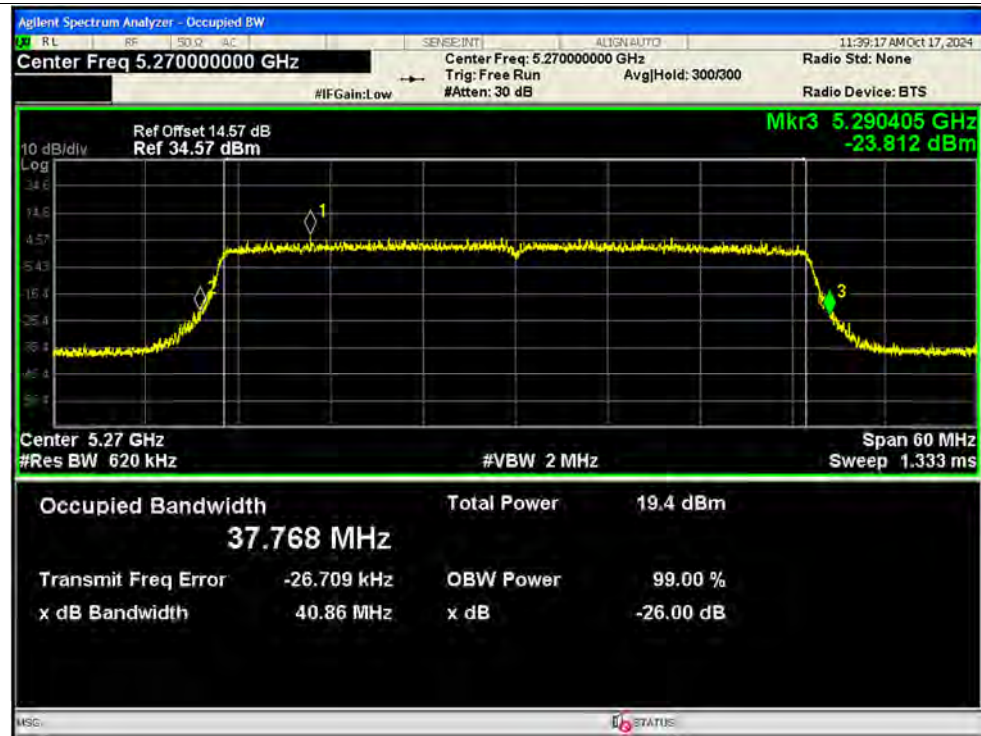
-26dB Bandwidth NVNT ax40 5190MHz Ant0



-26dB Bandwidth NVNT ax40 5230MHz Ant0



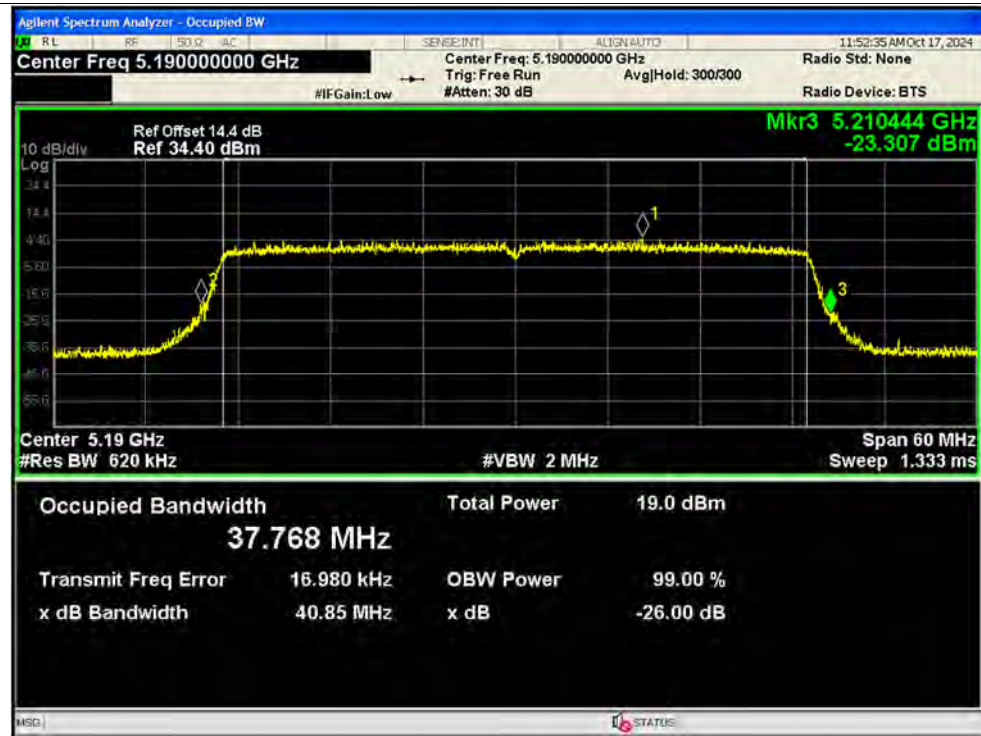
-26dB Bandwidth NVNT ax40 5270MHz Ant0



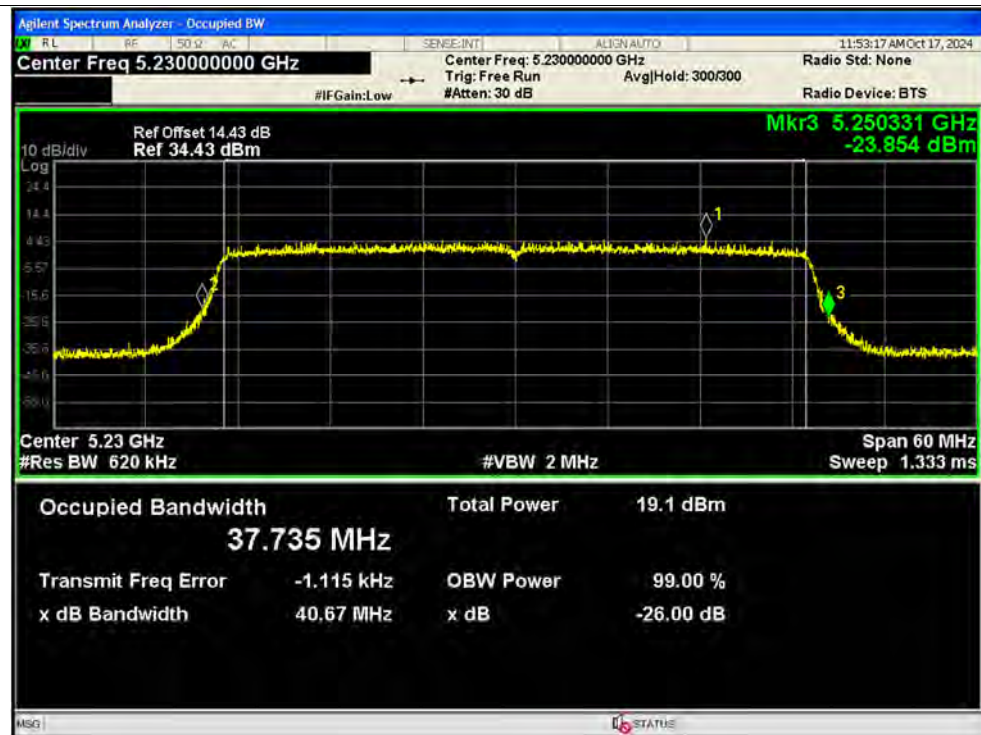
-26dB Bandwidth NVNT ax40 5310MHz Ant0



-26dB Bandwidth NVNT ax40 5190MHz Ant1

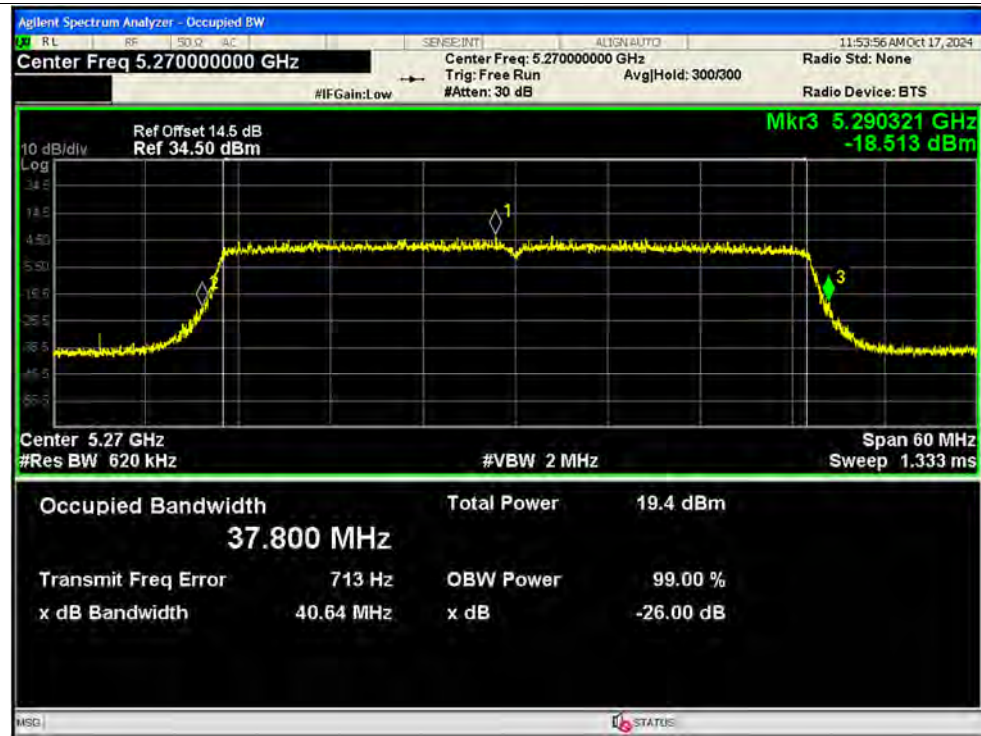


-26dB Bandwidth NVNT ax40 5230MHz Ant1

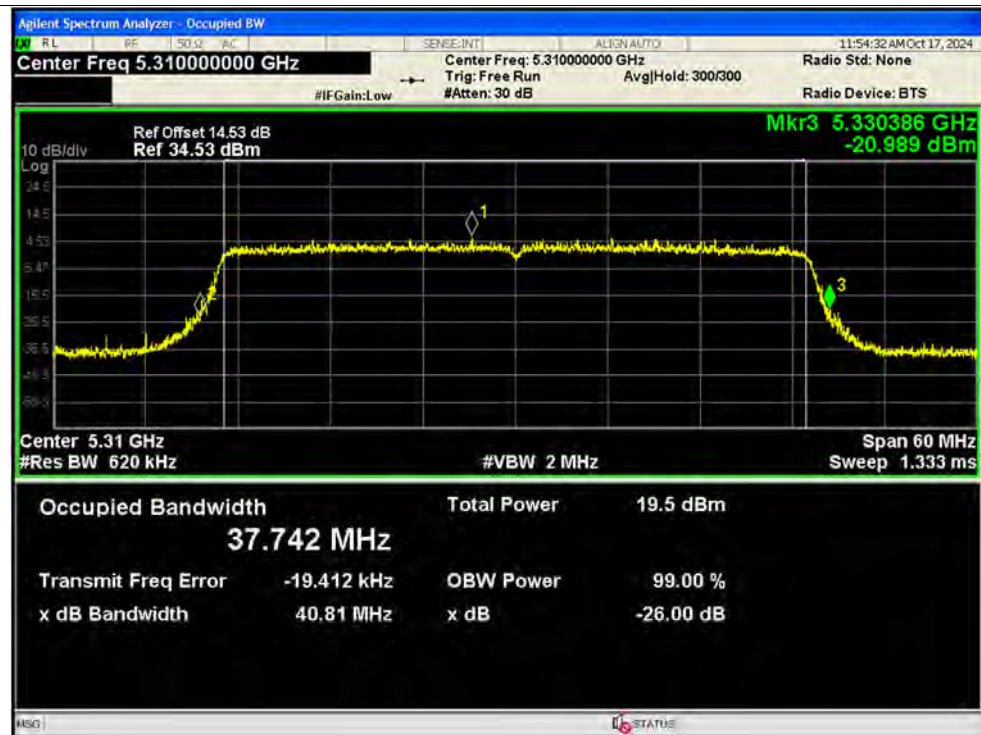




-26dB Bandwidth NVNT ax40 5270MHz Ant1

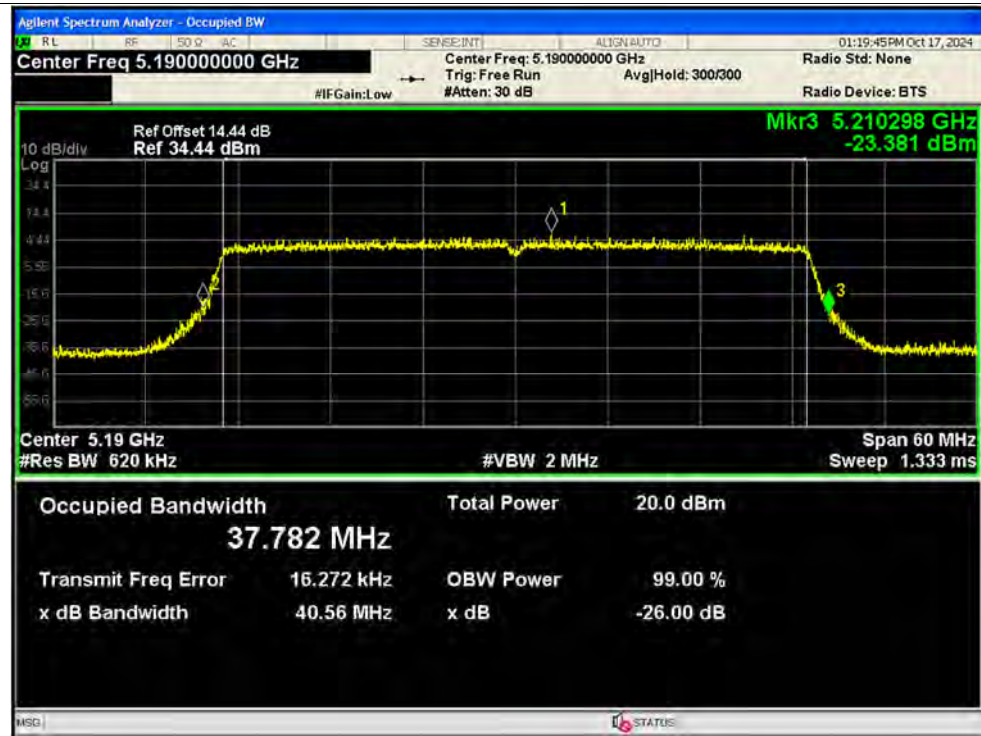


-26dB Bandwidth NVNT ax40 5310MHz Ant1

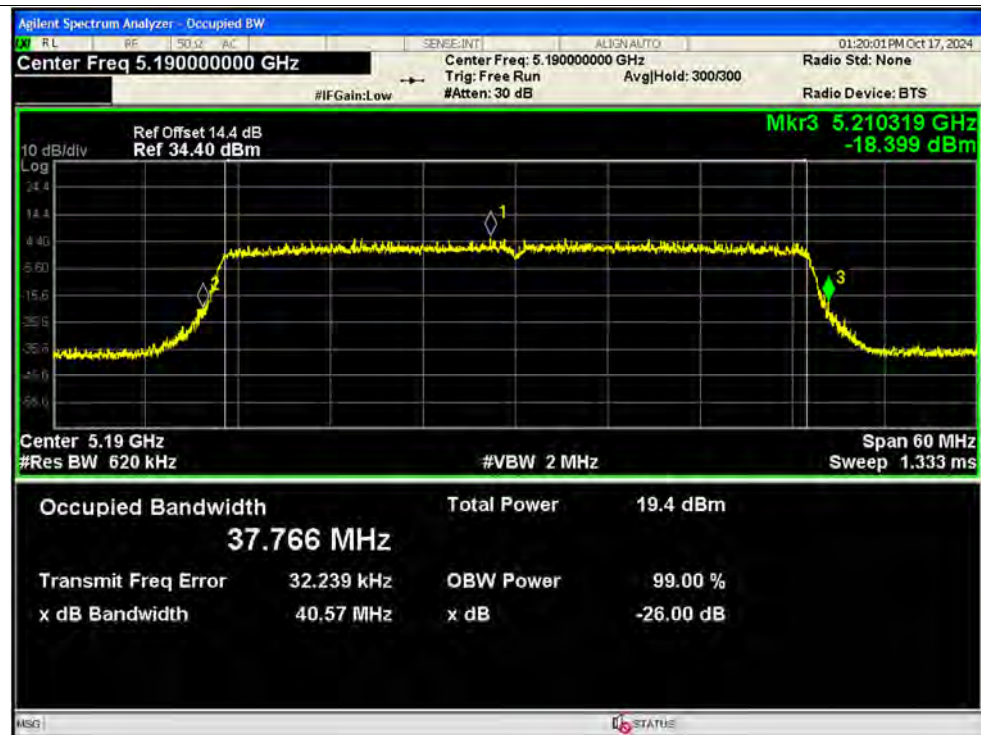




-26dB Bandwidth NVNT ax40 5190MHz Ant0



-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant0

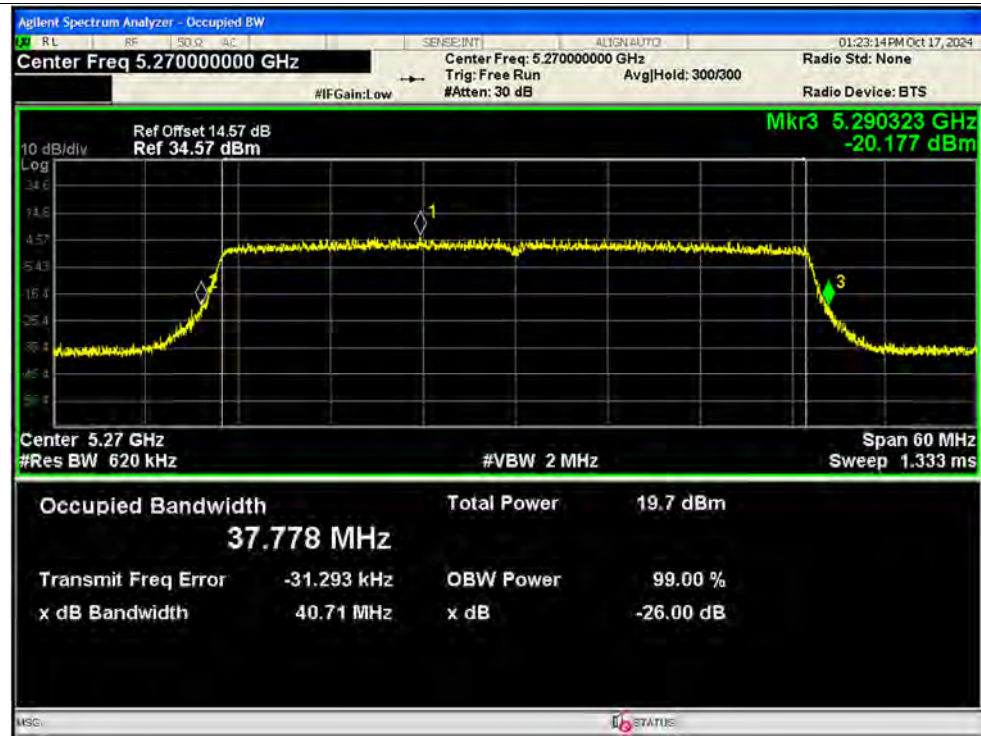


-26dB Bandwidth NVNT ax40 5230MHz Ant1

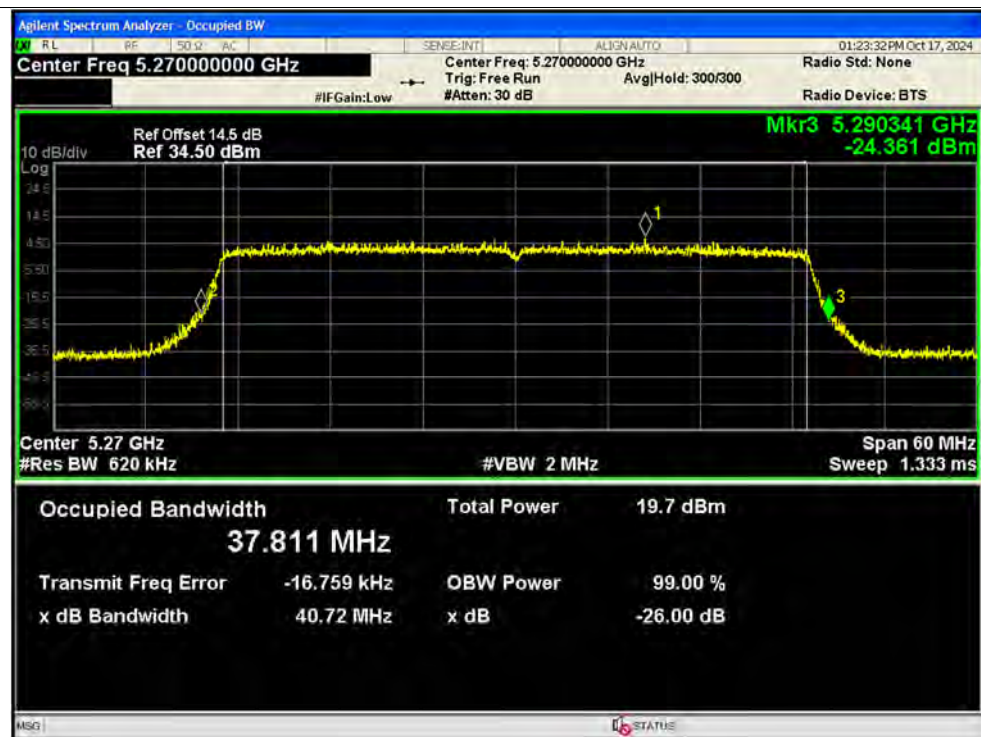




-26dB Bandwidth NVNT ax40 5270MHz Ant0

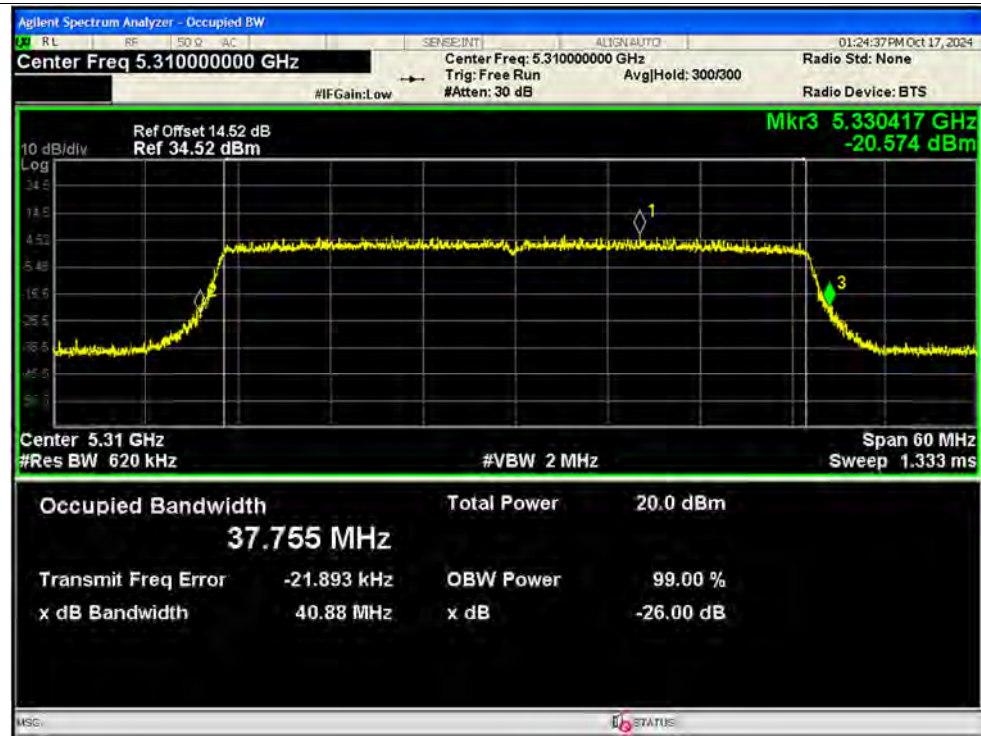


-26dB Bandwidth NVNT ax40 5270MHz Ant1

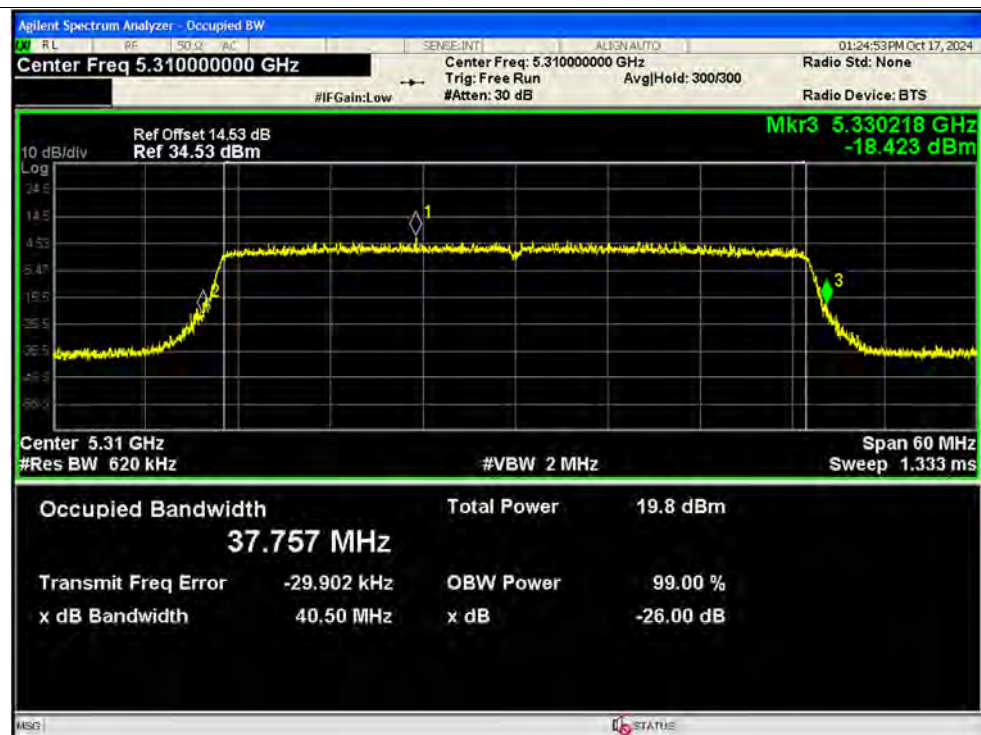




-26dB Bandwidth NVNT ax40 5310MHz Ant0

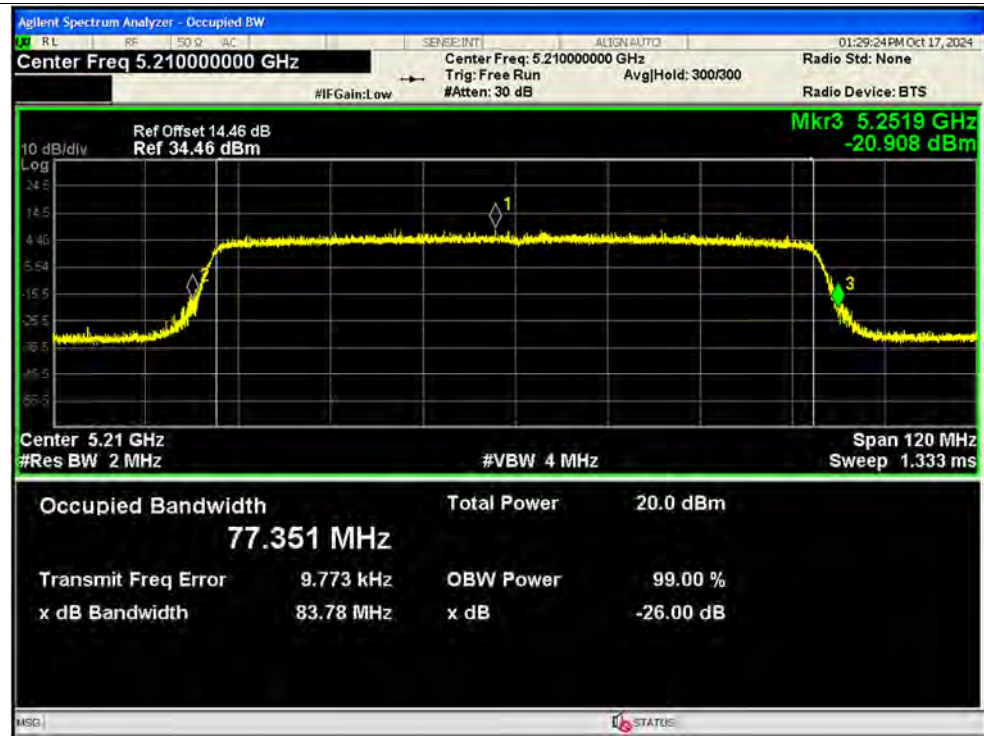


-26dB Bandwidth NVNT ax40 5310MHz Ant1

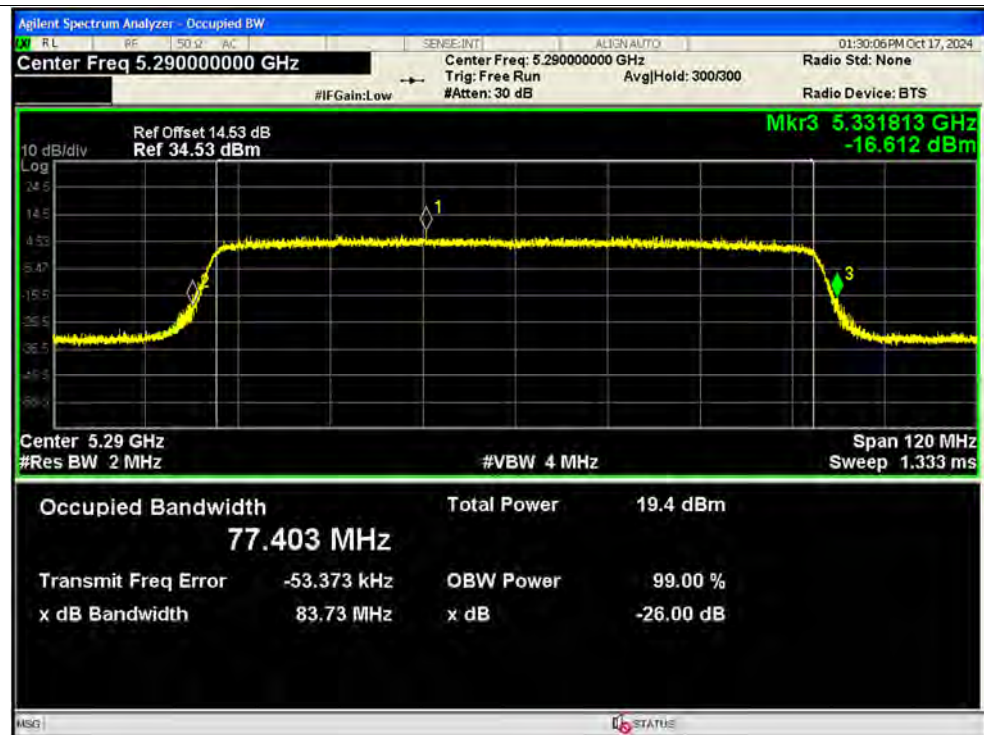




-26dB Bandwidth NVNT ax80 5210MHz Ant0

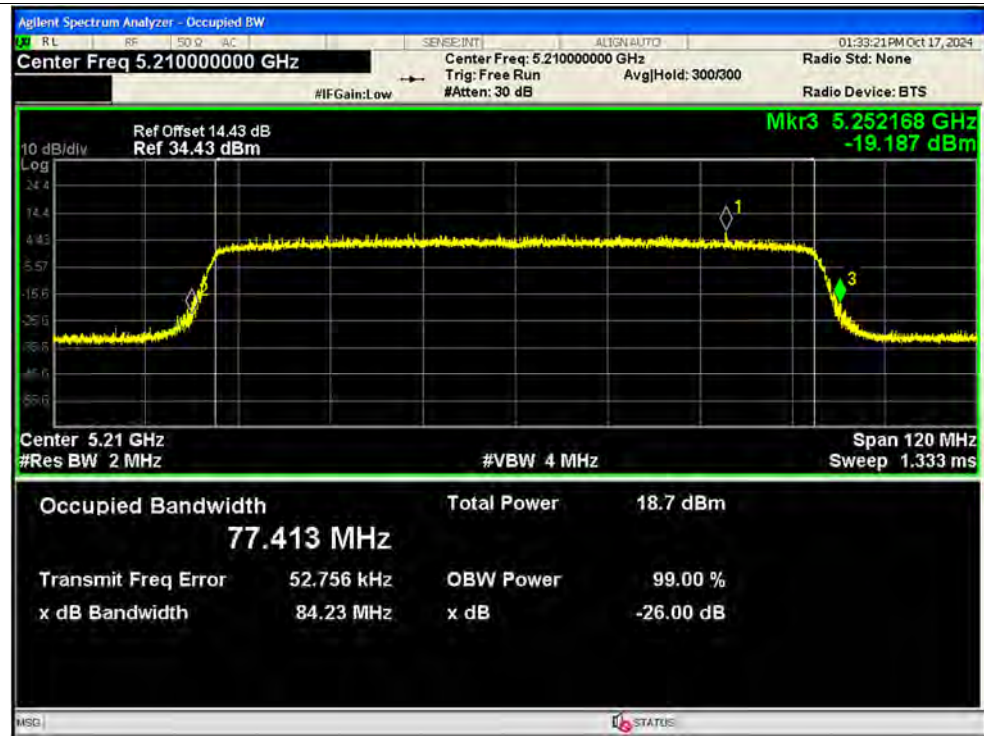


-26dB Bandwidth NVNT ax80 5290MHz Ant0

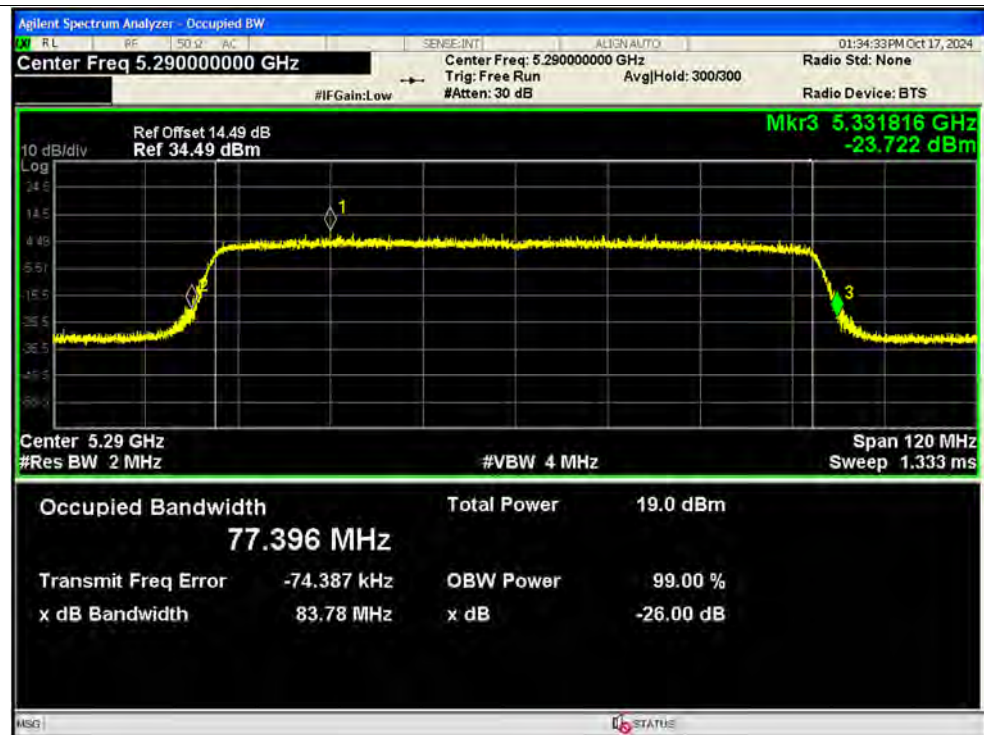




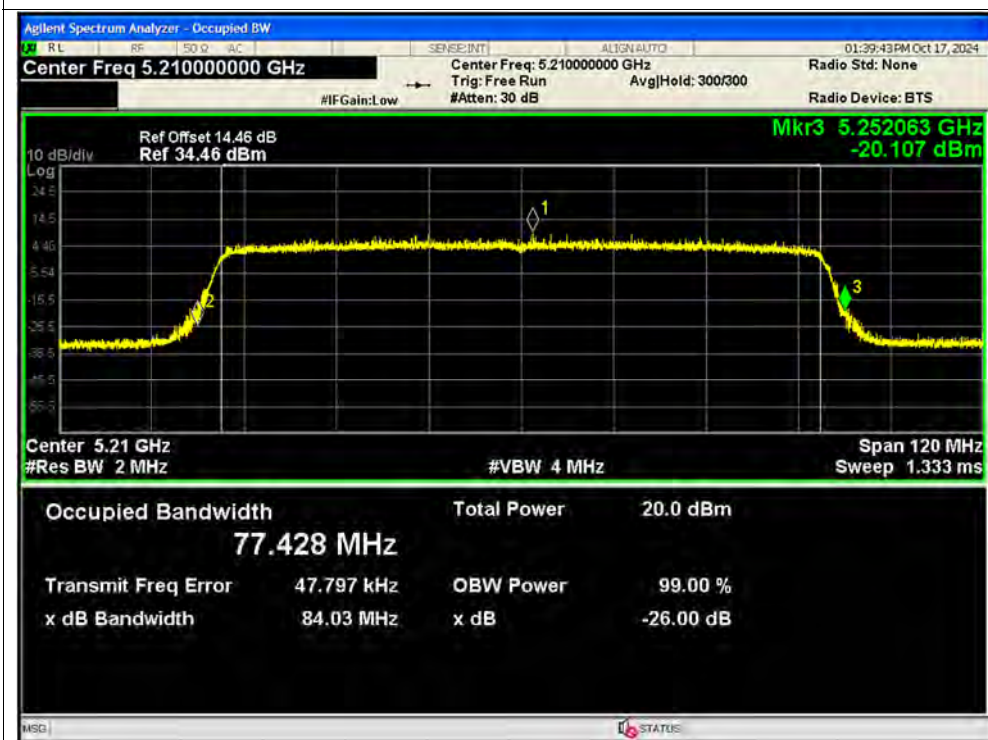
-26dB Bandwidth NVNT ax80 5210MHz Ant1



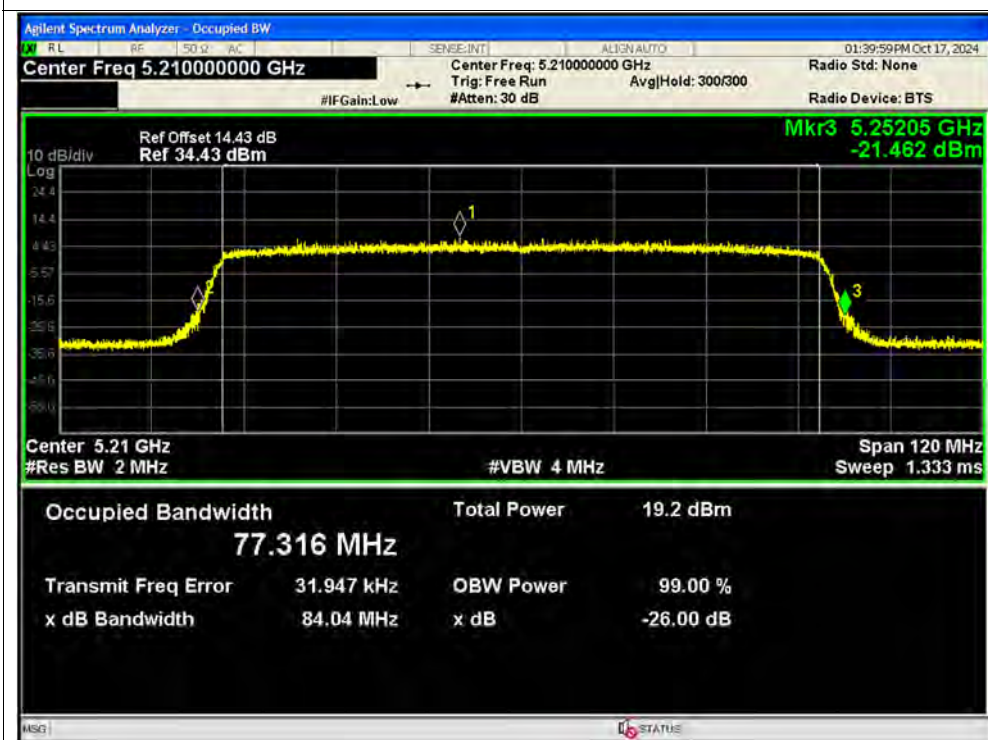
-26dB Bandwidth NVNT ax80 5290MHz Ant1



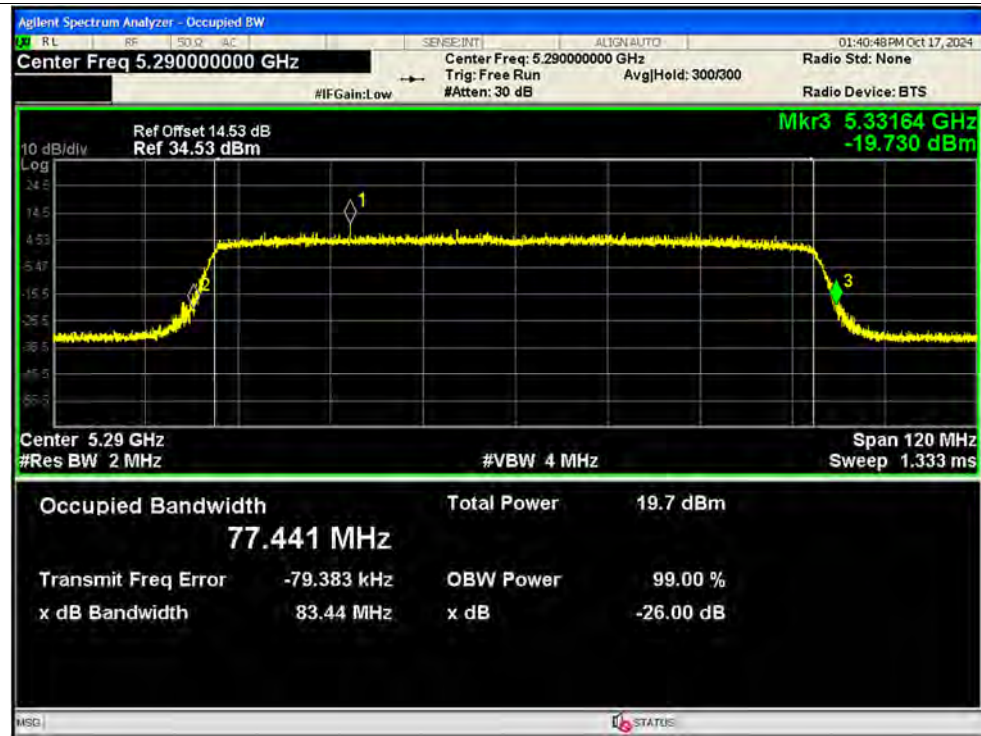
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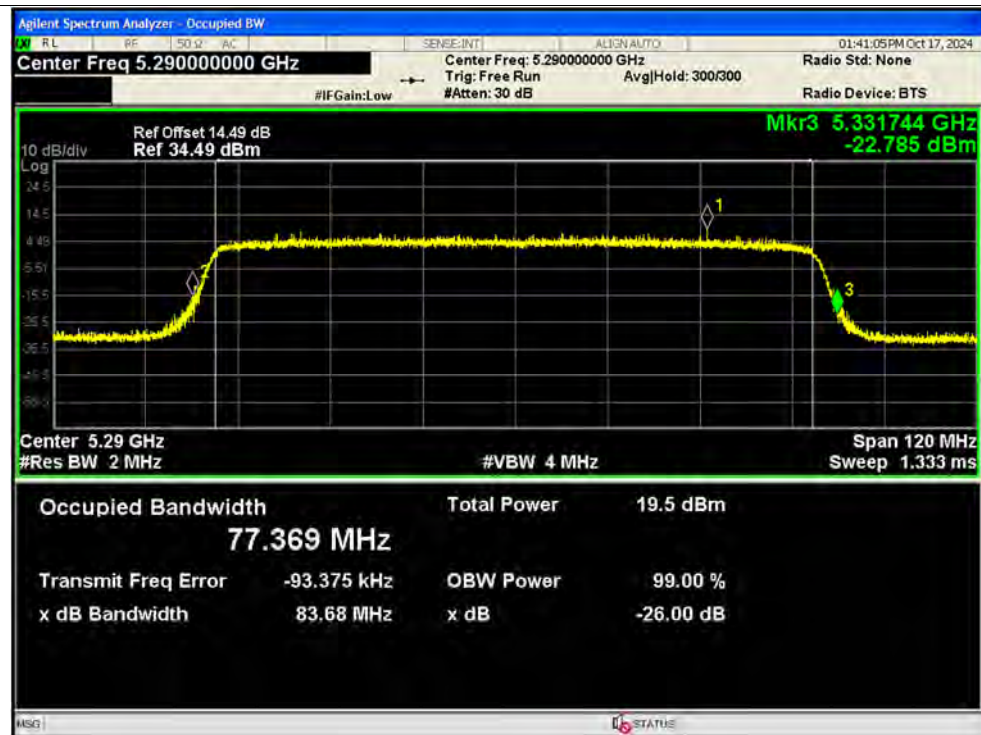
-26dB Bandwidth NVNT ax80 5210MHz Ant1



-26dB Bandwidth NVNT ax80 5290MHz Ant0

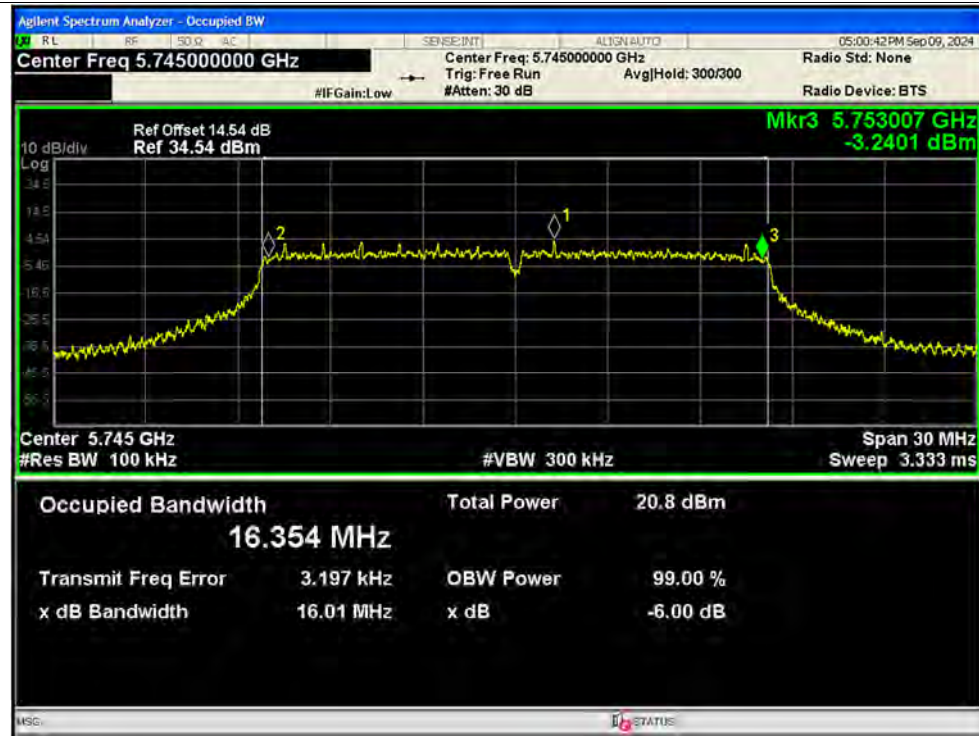


-26dB Bandwidth NVNT ax80 5290MHz Ant1

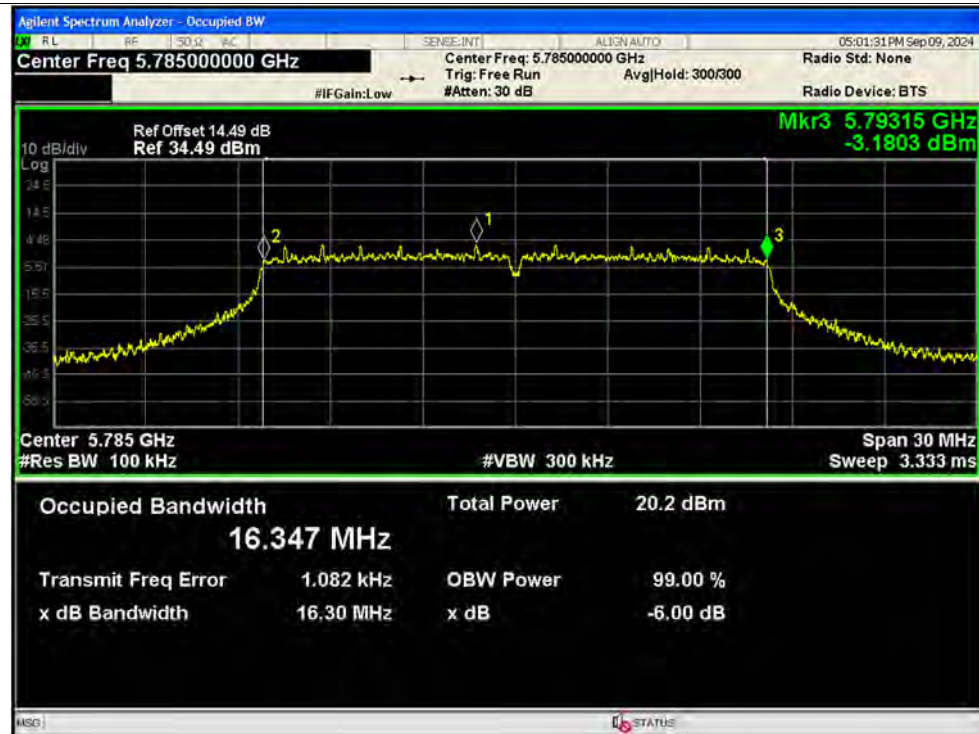


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant0

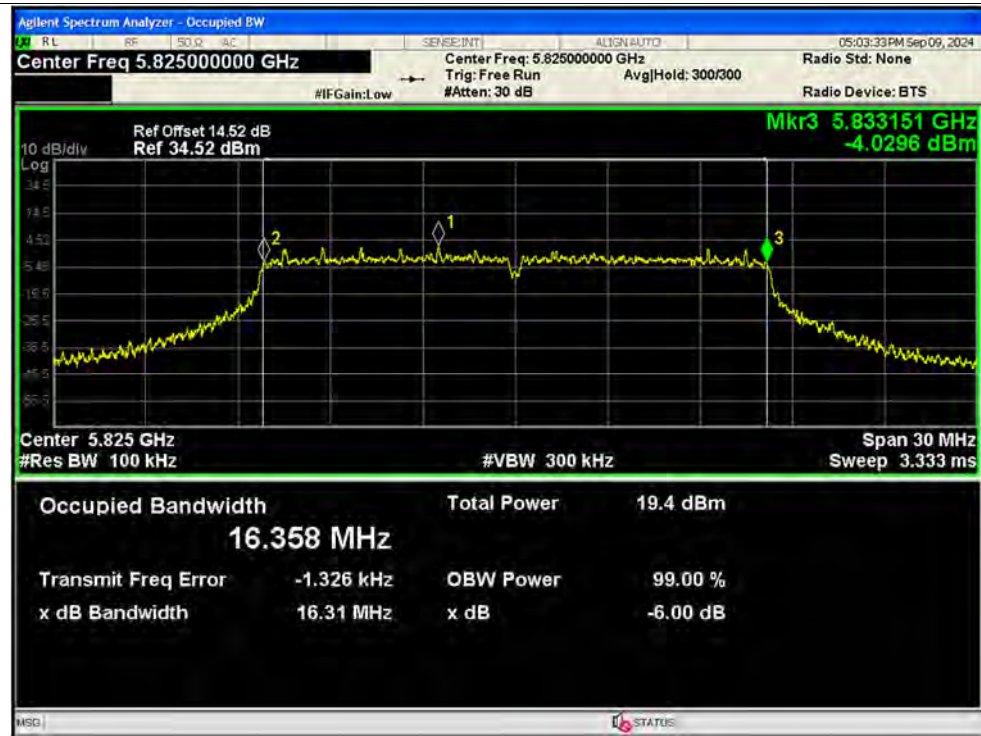


-6dB Bandwidth NVNT a 5785MHz Ant0

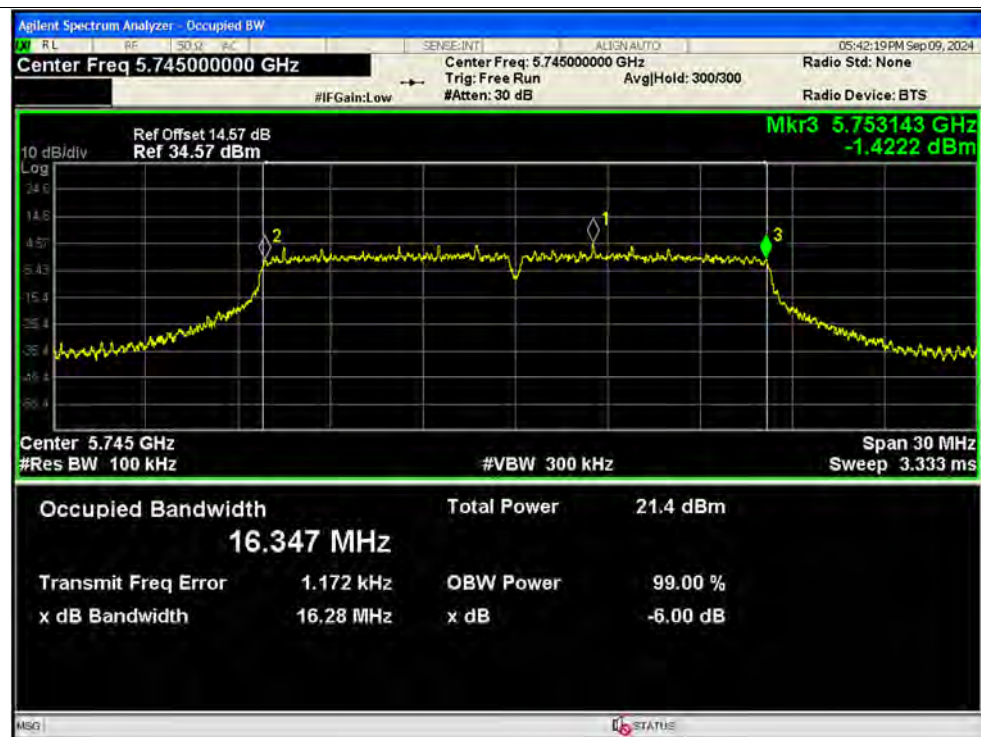




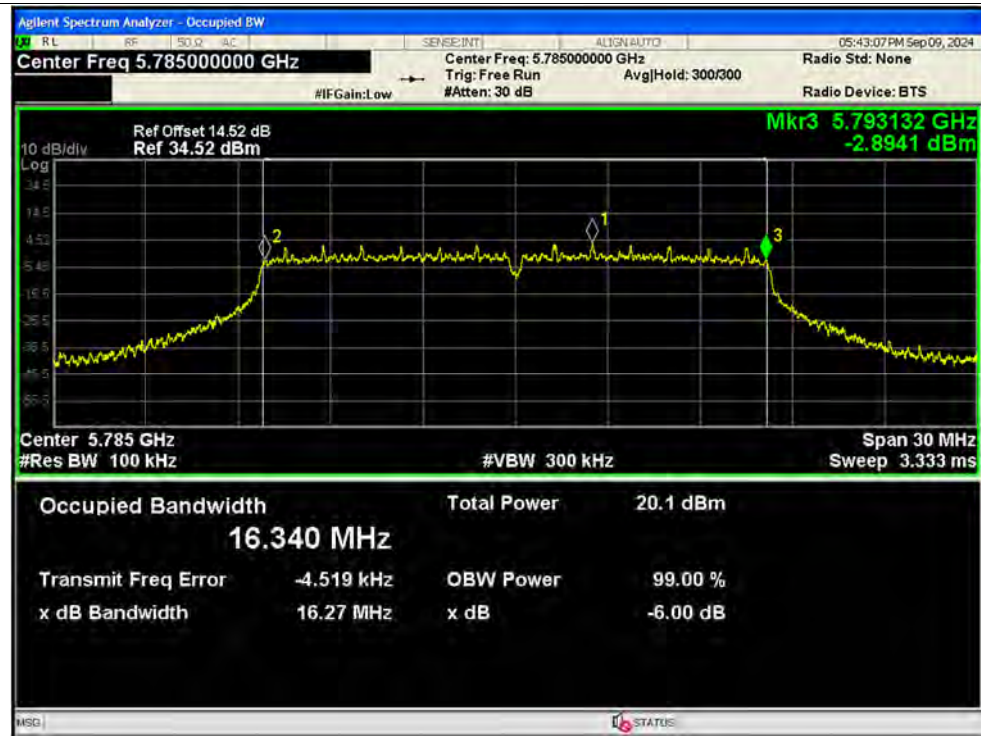
-6dB Bandwidth NVNT a 5825MHz Ant0



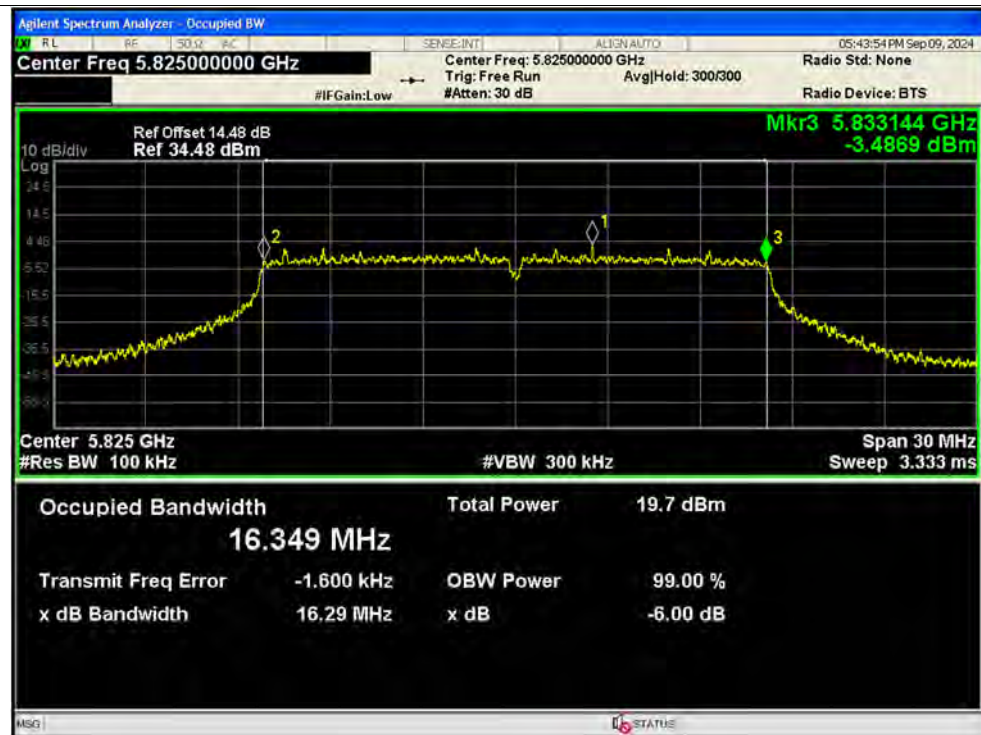
-6dB Bandwidth NVNT a 5745MHz Ant1



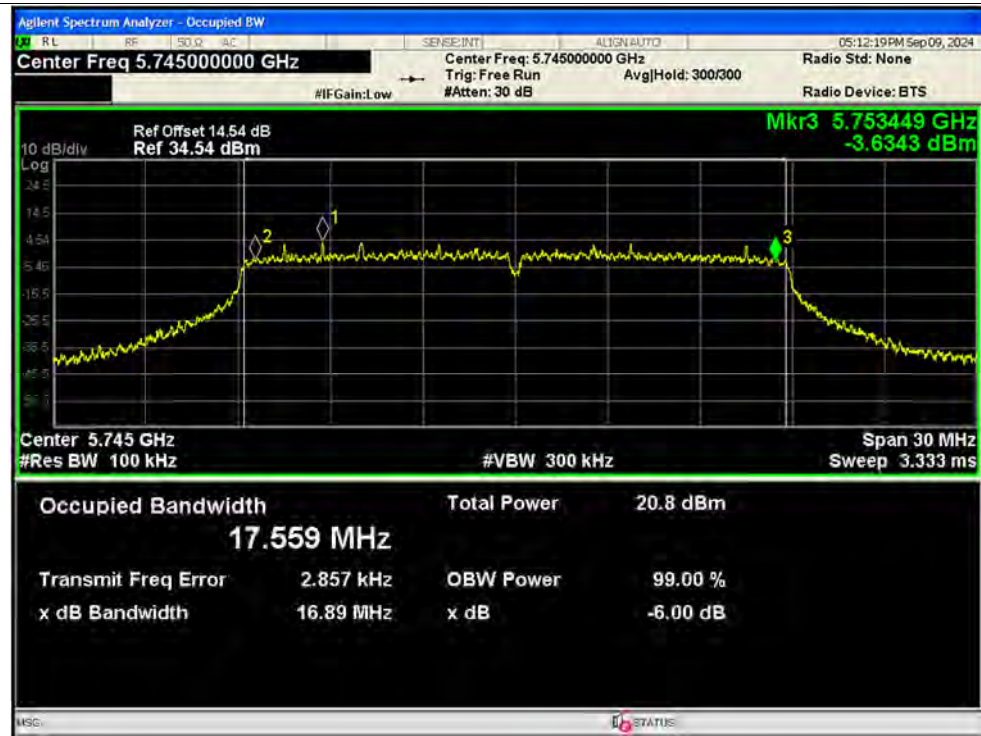
-6dB Bandwidth NVNT a 5785MHz Ant1



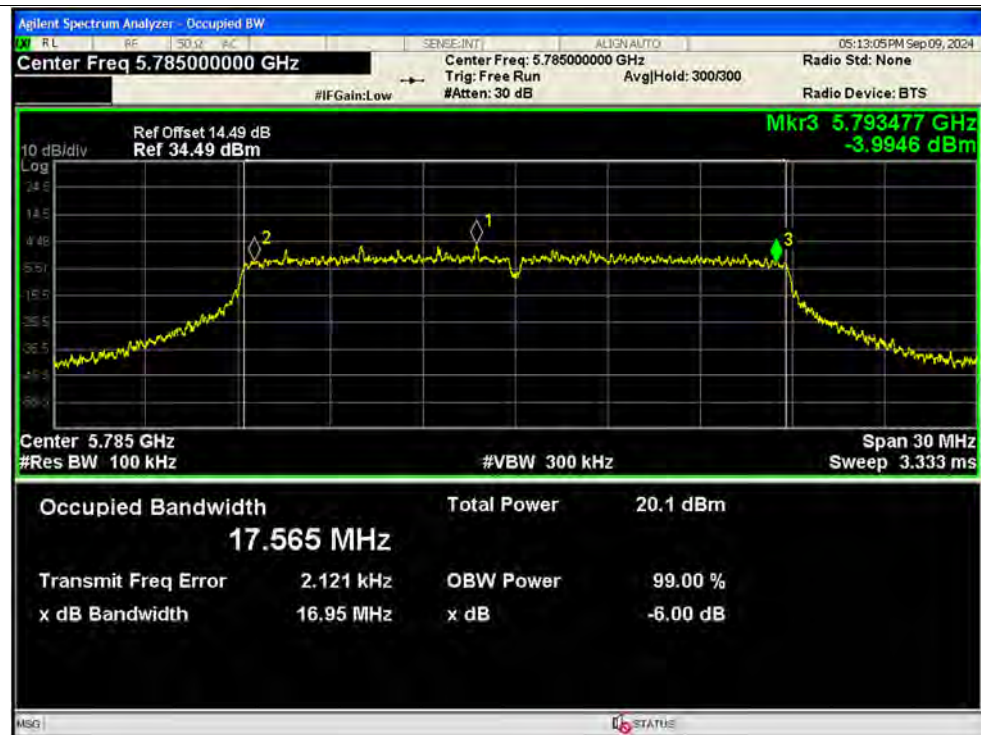
-6dB Bandwidth NVNT a 5825MHz Ant1



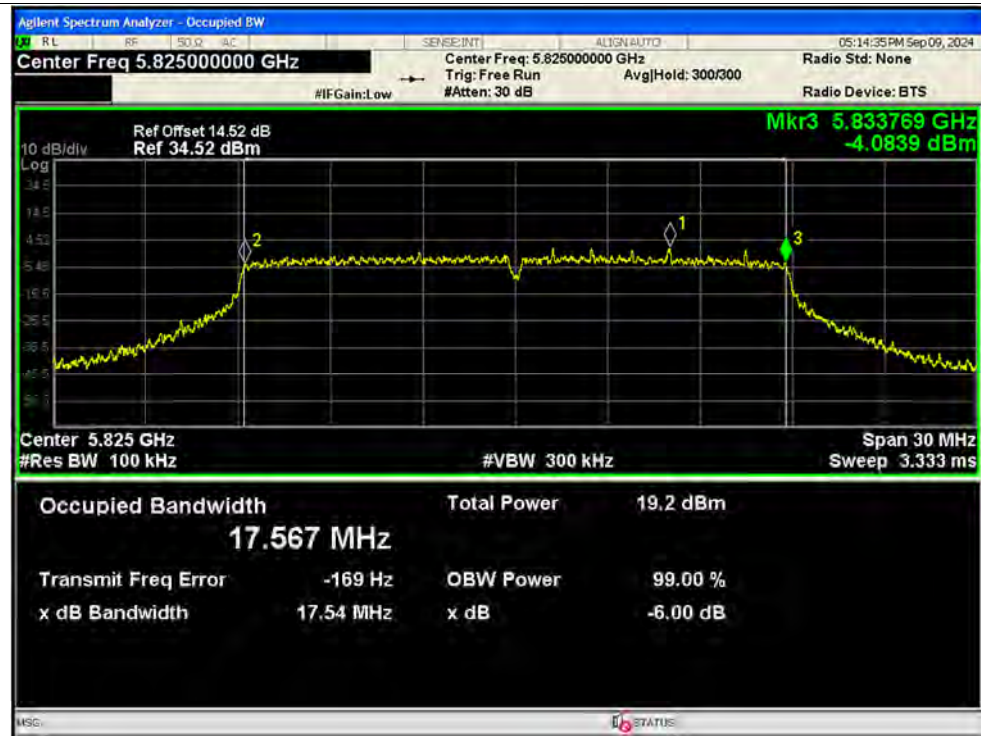
-6dB Bandwidth NVNT n20 5745MHz Ant0



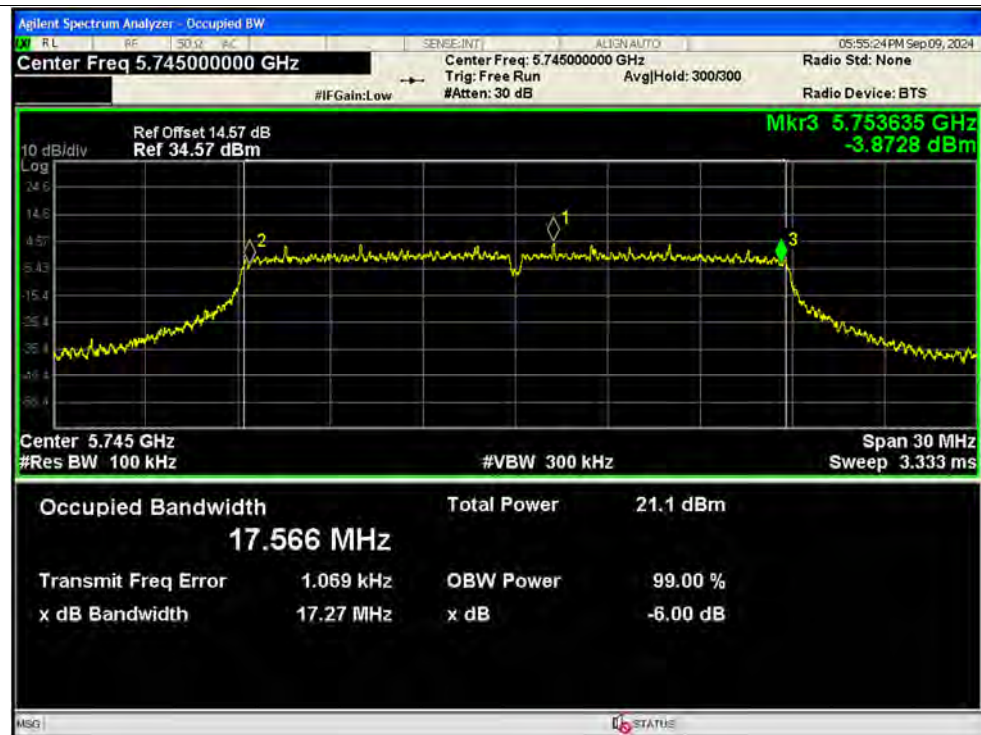
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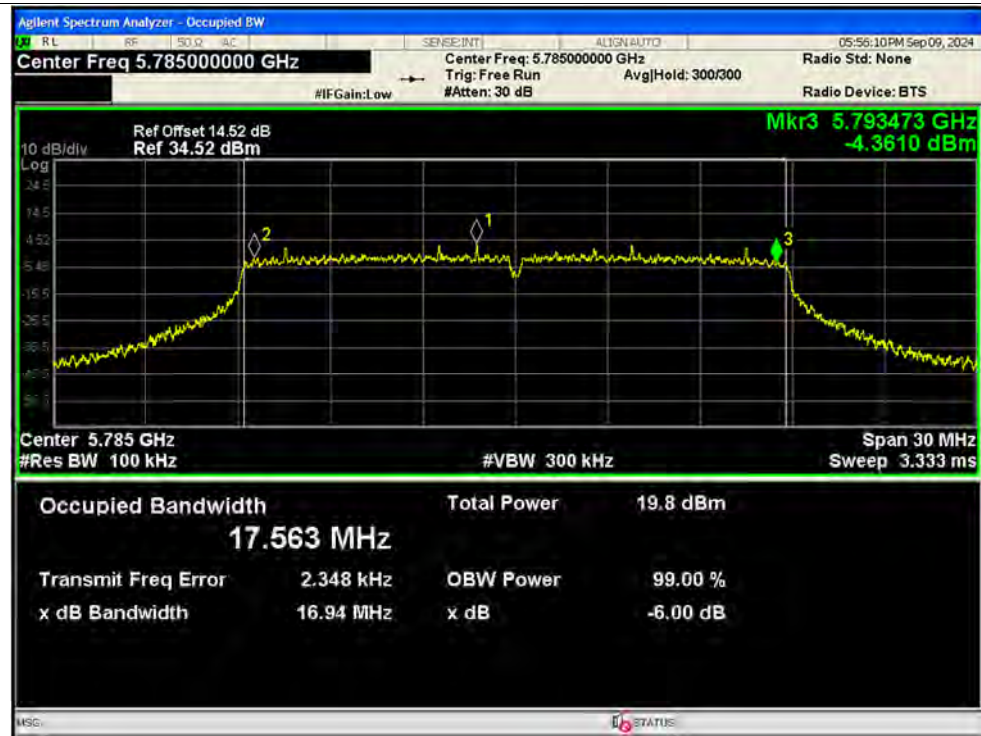
-6dB Bandwidth NVNT n20 5825MHz Ant0



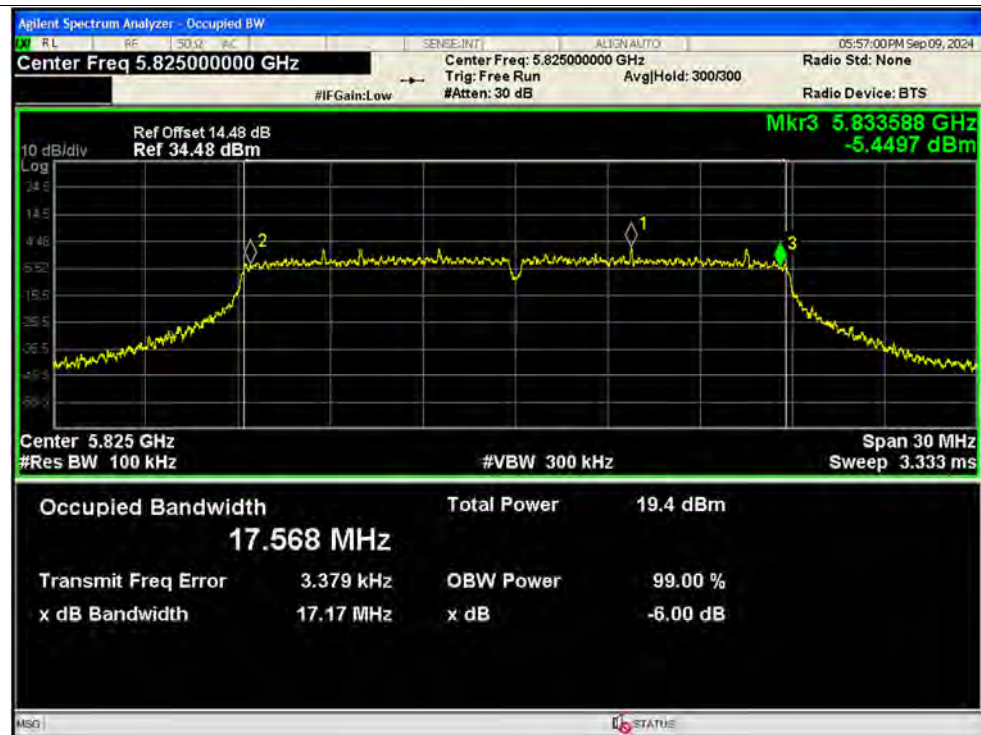
-6dB Bandwidth NVNT n20 5745MHz Ant1



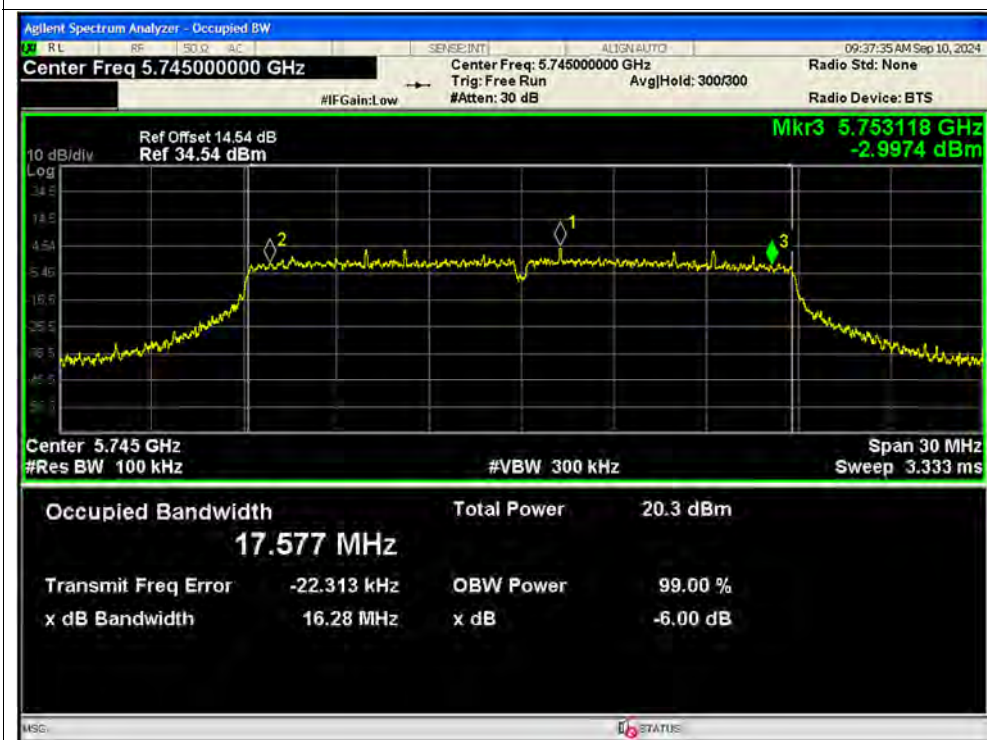
-6dB Bandwidth NVNT n20 5785MHz Ant1



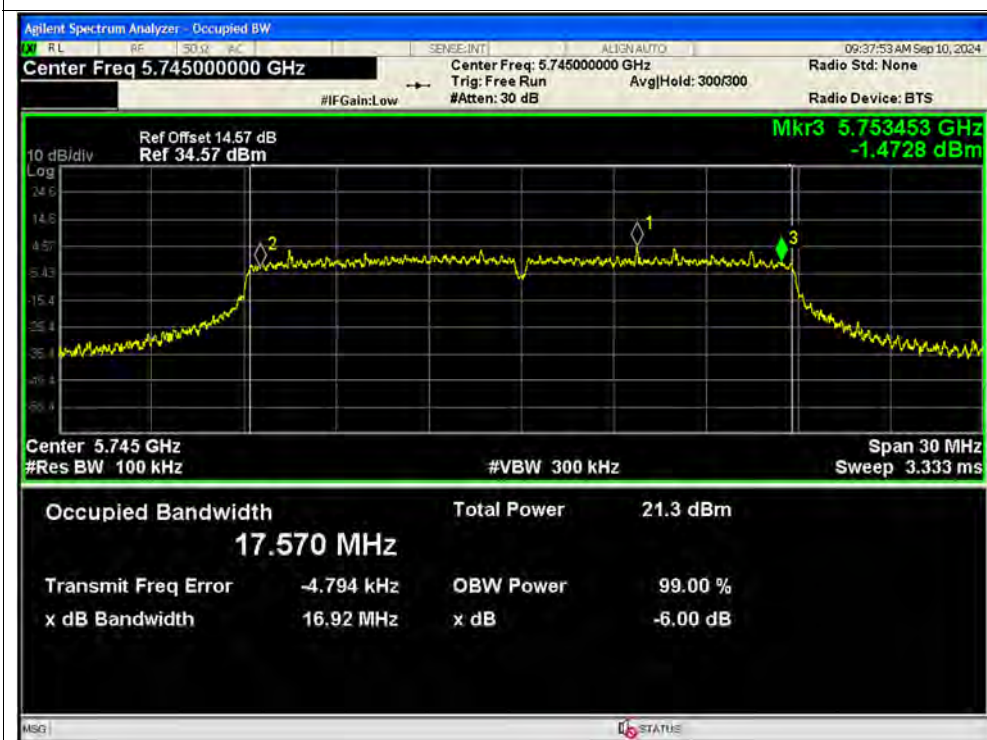
-6dB Bandwidth NVNT n20 5825MHz Ant1



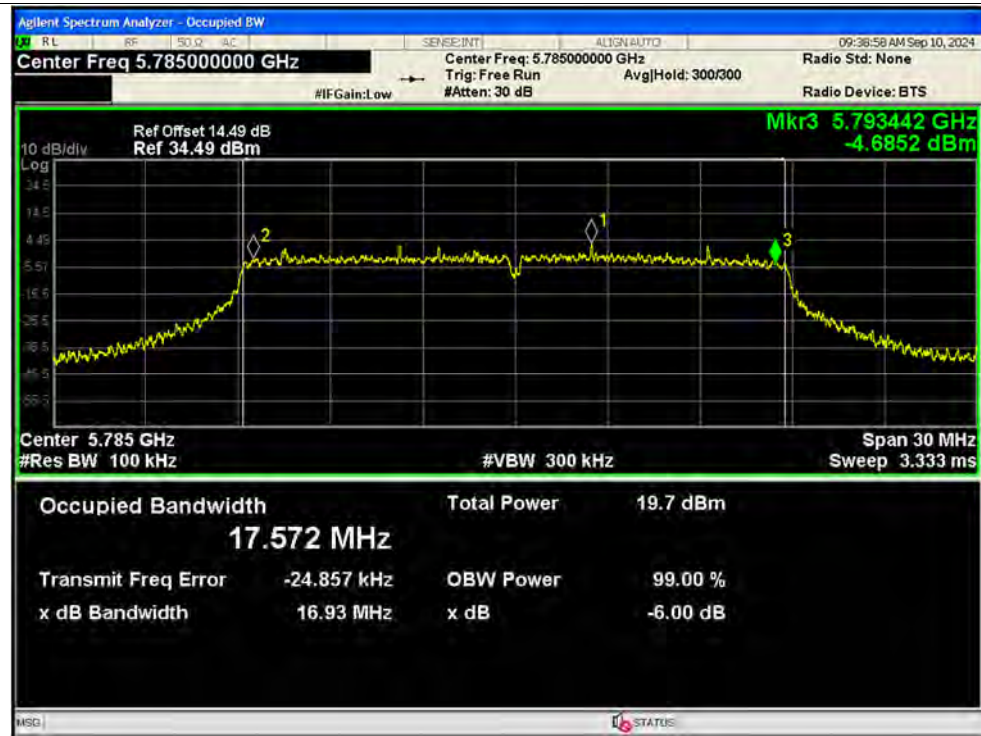
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-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant0

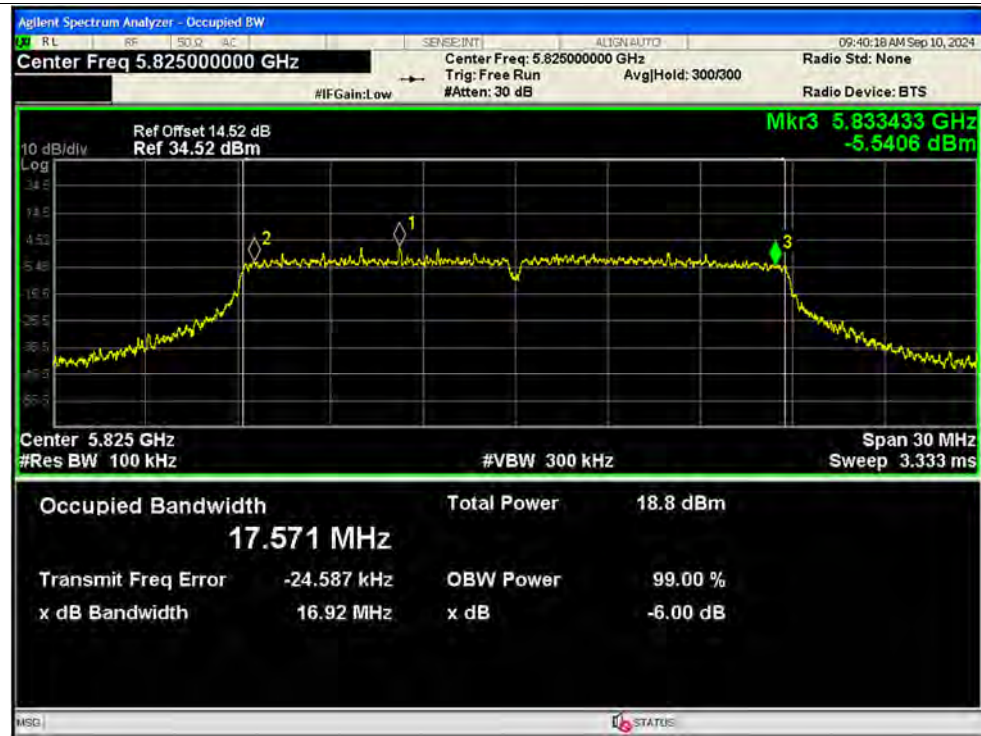


-6dB Bandwidth NVNT n20 5785MHz Ant1

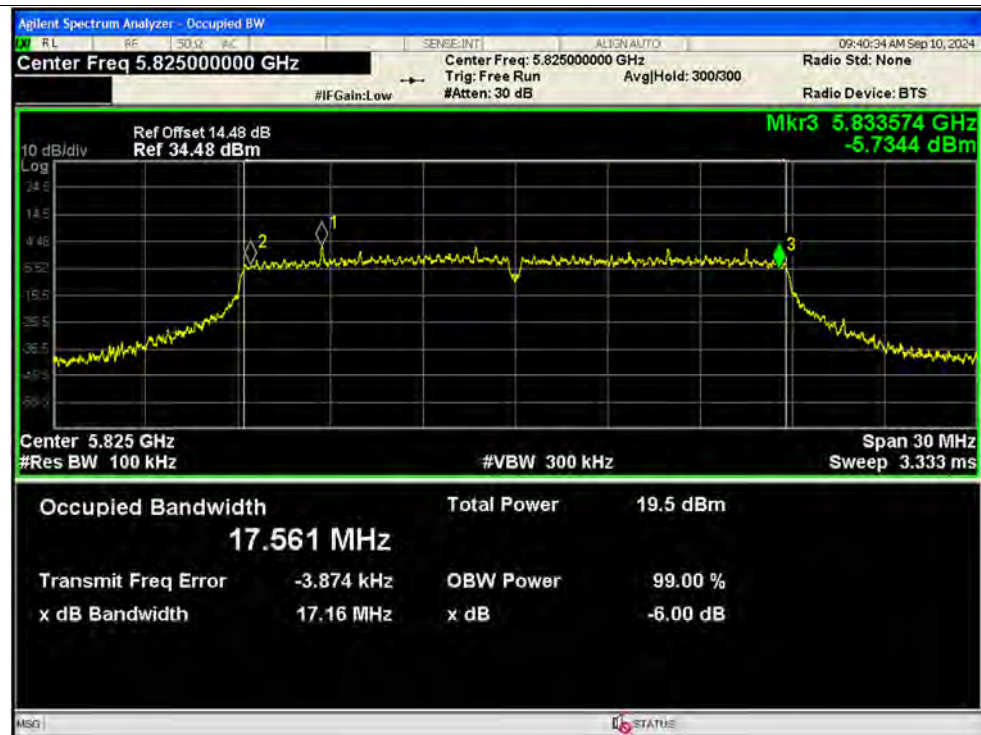




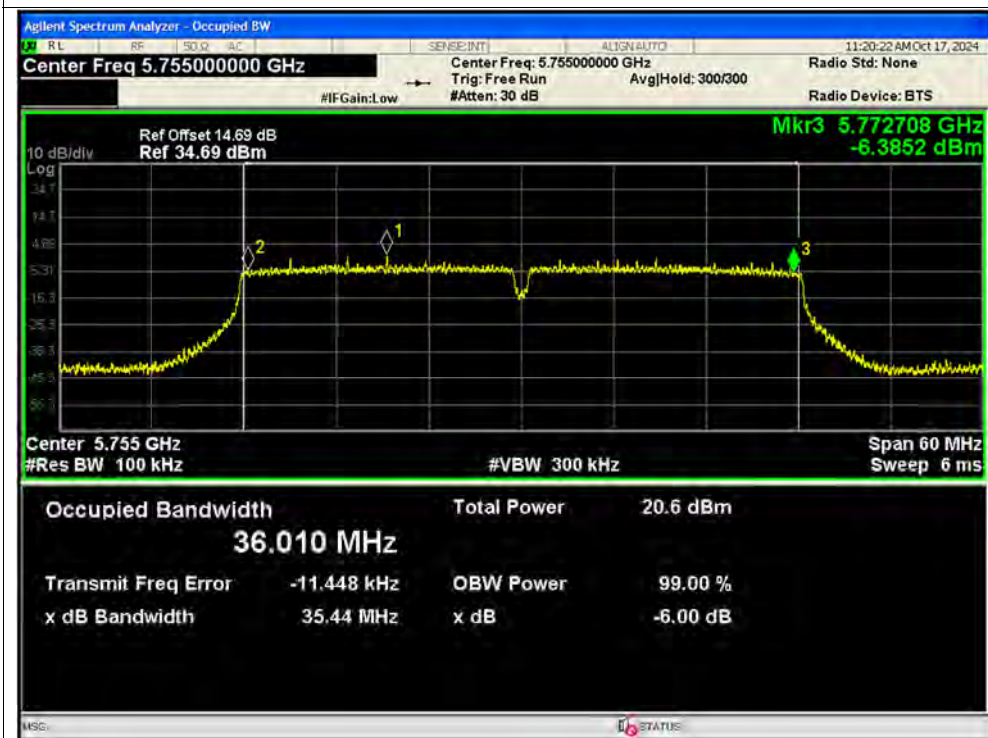
-6dB Bandwidth NVNT n20 5825MHz Ant0



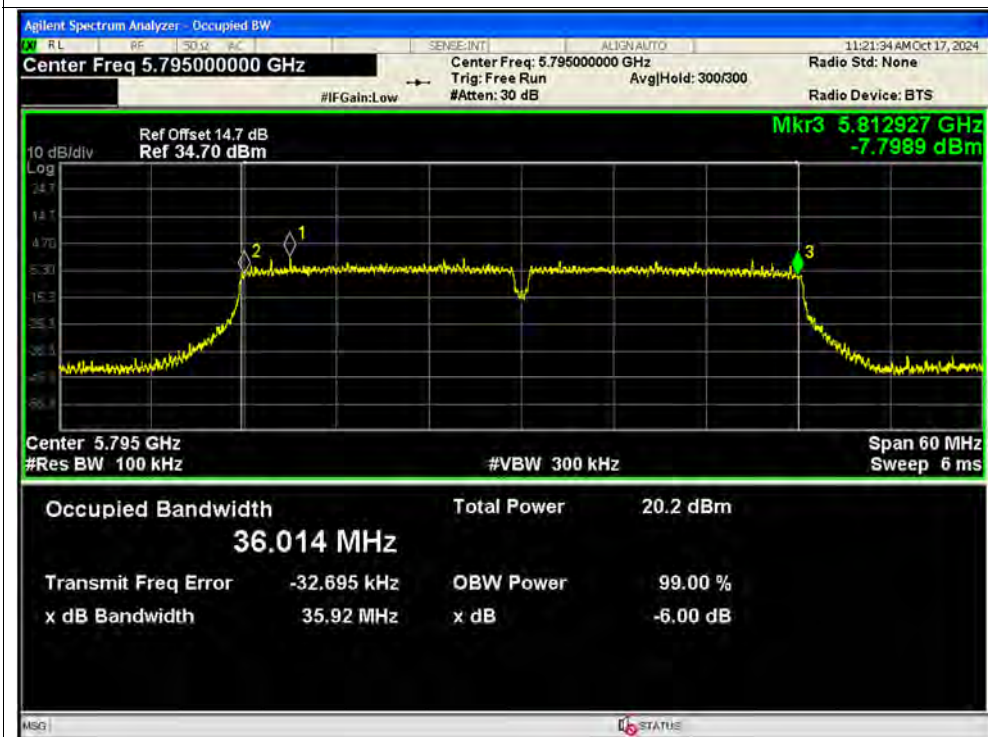
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant0



-6dB Bandwidth NVNT n40 5795MHz Ant0





-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1

