



REPORT No.: SZ24060311W03

TEST REPORT

APPLICANT : Anker Innovations Limited

PRODUCT NAME : Indoor Cam S350

MODEL NAME : T8416

BRAND NAME : eufy SECURITY

FCC ID : 2AOKB-T8416C

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2024-07-24

TEST DATE : 2024-08-04 to 2024-08-20

ISSUE DATE : 2024-08-26



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Change History		
Version	Date	Reason for change
1.0	2024-08-26	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	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
3	15.407(a)	Maximum Conducted Output Power	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
4	15.407(a)(e)	Emission Bandwidth	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
5	15.407(a)	Peak Power Spectral Density	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
6	15.407(g)	Frequency Stability	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
7	15.407(h)	DFS	Aug. 13, 2024	Li Xinpeng	PASS	No deviation
8	15.207	Conducted Emission	Aug. 04, 2024	Fan Shengquan	PASS	No deviation
9	15.407(b)	Restricted Frequency Bands	Aug. 19 to 20, 2024	Li Hanbin	PASS	No deviation
10	15.407(b)	Radiated Emission	Aug. 19 to 20, 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	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2023.10.17	2024.10.16
Temperature Chamber	12108015	DTL-003S101	YOMA	2023.09.19	2024.09.18
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	2023.10.17	2024.10.16
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 Name	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-5150-5350	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG-5470-5725	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG-5725-5850	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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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:	Indoor Cam S350	
Sample No.:	1#	
Hardware Version:	T8416-MAIN-V04	
Software Version:	1.3.1.15	
Modulation Technology:	OFDM, OFDMA	
Modulation Mode:	802.11a, 802.11n (HT20), 802.11n (HT40) 802.11ac (VHT20), 802.11ac (VHT40) 802.11ax (HEW20), 802.11ax (HEW40)	
Operating Frequency Range:	5180MHz-5240MHz; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	2.75dBi	
Accessory Information:	AC Adapter	
	Brand Name:	TEKA
	Model No.:	TEKA-UCA20UN
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 2.0A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.35A
	Manufacturer:	Shenzhen TEKA Technology Co., Ltd.

Note 1: 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
(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
(U-NII-2C) 5500MHz-5720MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
(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

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

2.4. Test Configuration of EUT

The EUT is controlled by dedicated software to transmit at the default maximum power level.

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	6/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ac	20/40 (VHT20/40)	OFDM	BPSK	MSC0~MCS9	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		
802.11ax	20/40 (HEW20/40)	OFDM/ OFDMA	BPSK	MSC0~MCS11	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		
			1024QAM		

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

2.5. Test Conditions

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

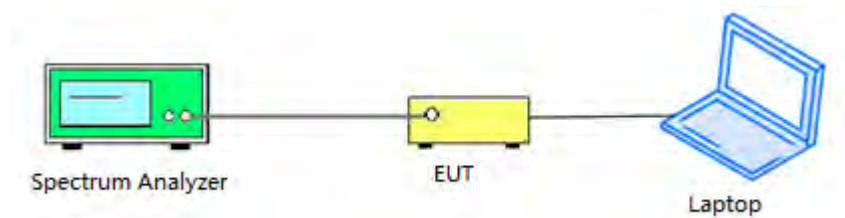
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

For power item that BW below 80MHz system:



For power item that BW equal or above 80MHz and other items:



2.6.2. Conducted Emission Measurement

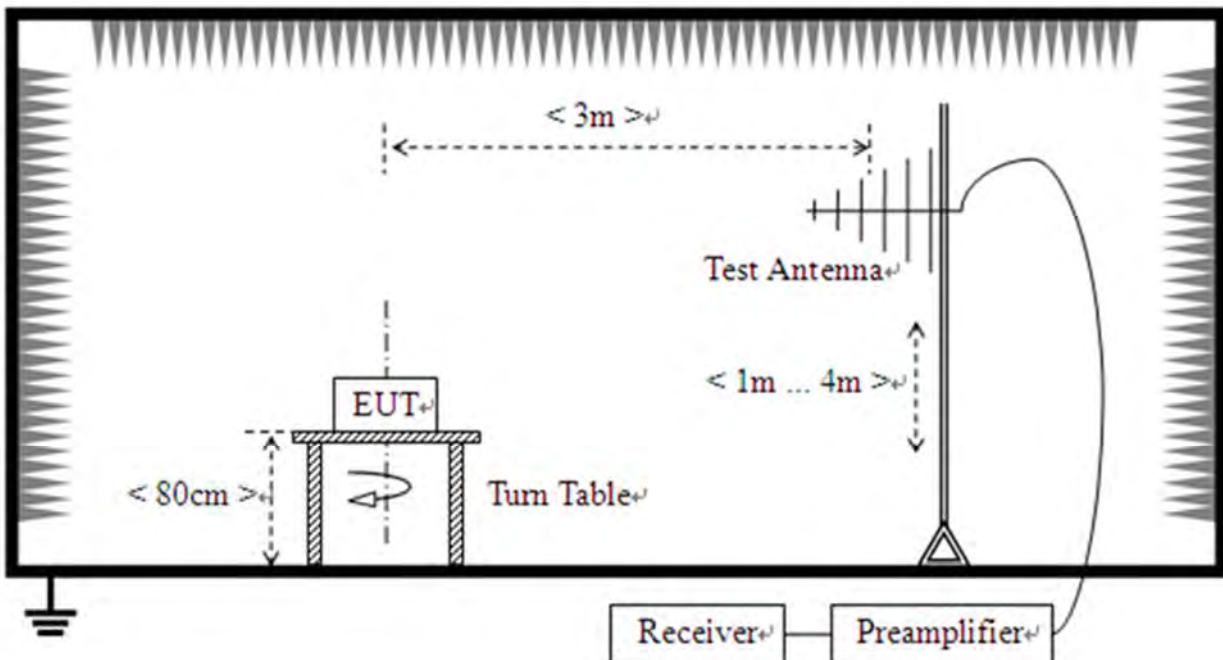


2.6.3.Radiation Measurement

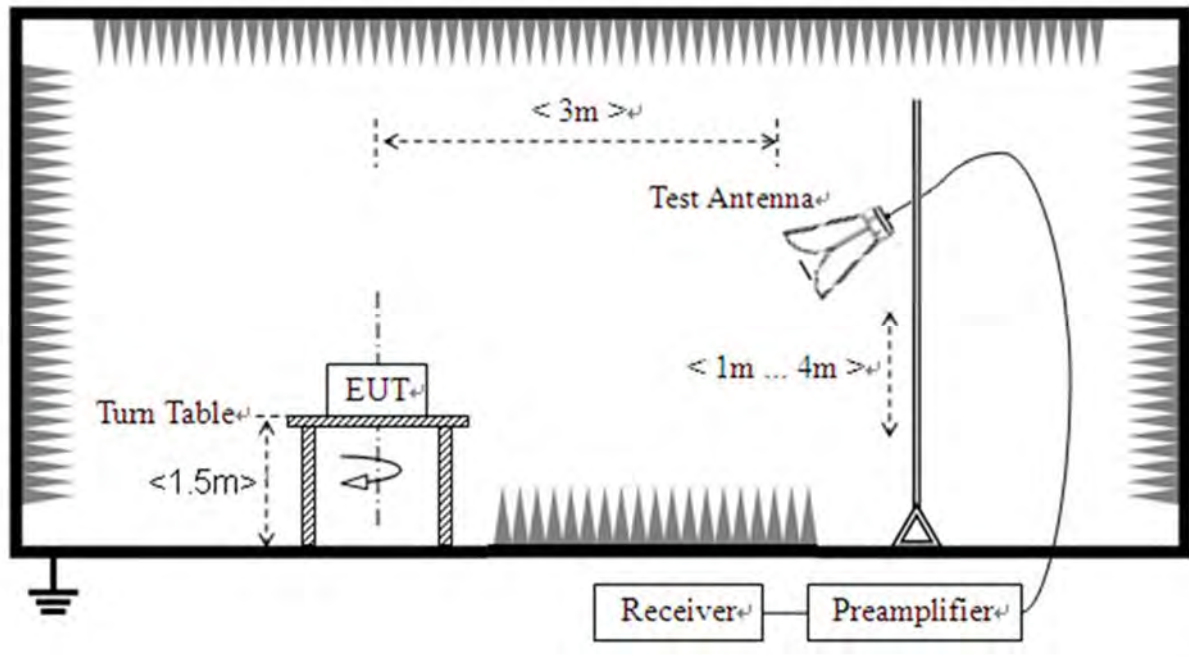
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

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

3.1.2. Test Result

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



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

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, all test result in USB Wideband Power Sensor.

For ac (VHT80) mode power

The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.



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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.



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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.

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.

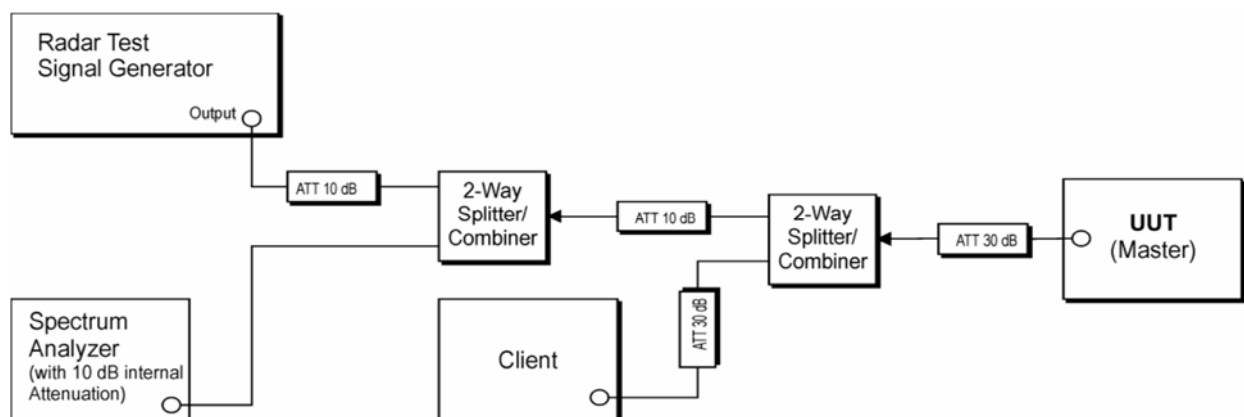
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The 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

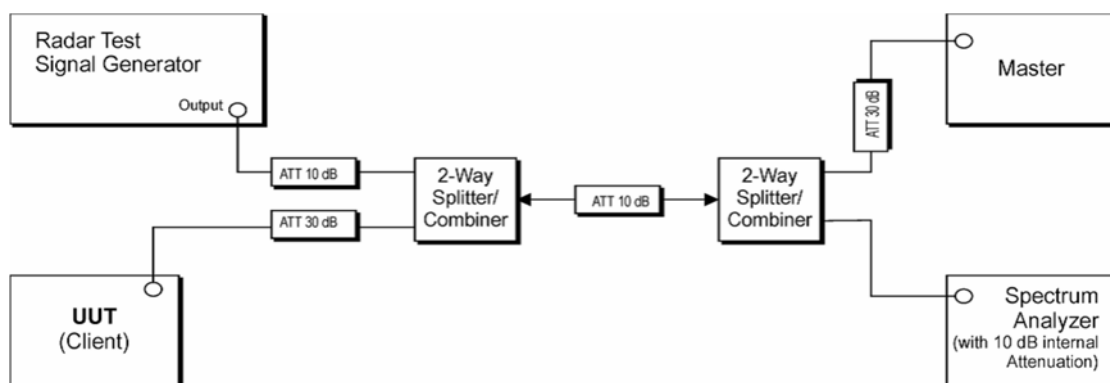
According to Section 7.2 of KDB 905462 D02 V01R01

1. Setup for Master with injection at the Master



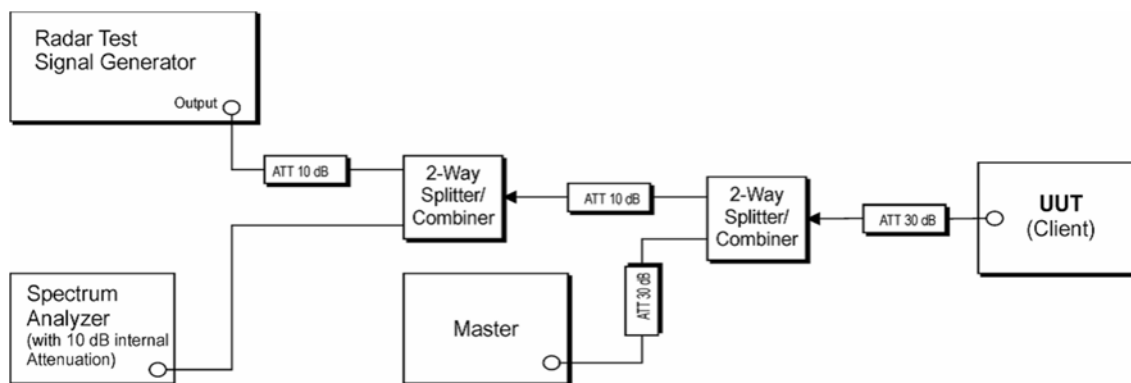
(Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master)

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

Product Name:	Router
Manufacturer:	ASUS
FCC ID:	MSQ-RTAXJF00
Device Type:	Master Device
Operating Mode:	Master Mode
Serial No:	M3IAJF201046
Antenna Gain:	2.0dBi

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	Ant1	98.54	0.06	0.37
NVNT	a	5220	Ant1	97.47	0.11	0.37
NVNT	a	5240	Ant1	96.07	0.17	0.37
NVNT	a	5260	Ant1	97.47	0.11	0.37
NVNT	a	5300	Ant1	96.07	0.17	0.37
NVNT	a	5320	Ant1	96.43	0.16	0.37
NVNT	a	5500	Ant1	96.43	0.16	0.37
NVNT	a	5580	Ant1	97.47	0.11	0.37
NVNT	a	5720	Ant1	88.24	0.54	0.37
NVNT	a	5745	Ant1	94.08	0.27	0.37
NVNT	a	5785	Ant1	97.47	0.11	0.37
NVNT	a	5825	Ant1	97.47	0.11	0.37
NVNT	n20	5180	Ant1	96.17	0.17	0.4
NVNT	n20	5220	Ant1	95.79	0.19	0.4
NVNT	n20	5240	Ant1	95.79	0.19	0.4
NVNT	n20	5260	Ant1	97.29	0.12	0.4
NVNT	n20	5300	Ant1	95.8	0.19	0.4
NVNT	n20	5320	Ant1	96.17	0.17	0.4
NVNT	n20	5500	Ant1	96.17	0.17	0.4
NVNT	n20	5580	Ant1	96.17	0.17	0.4
NVNT	n20	5720	Ant1	95.79	0.19	0.4
NVNT	n20	5745	Ant1	96.9	0.14	0.4
NVNT	n20	5785	Ant1	94.36	0.25	0.4
NVNT	n20	5825	Ant1	95.79	0.19	0.4
NVNT	n40	5190	Ant1	92.48	0.34	0.81
NVNT	n40	5230	Ant1	94.62	0.24	0.81
NVNT	n40	5270	Ant1	94.62	0.24	0.81
NVNT	n40	5310	Ant1	77.36	1.11	0.81
NVNT	n40	5510	Ant1	93.85	0.28	0.82
NVNT	n40	5550	Ant1	94.62	0.24	0.81
NVNT	n40	5710	Ant1	94.62	0.24	0.81
NVNT	n40	5755	Ant1	94.62	0.24	0.81



NVNT	n40	5795	Ant1	94.62	0.24	0.81
NVNT	ac20	5180	Ant1	96.18	0.17	0.4
NVNT	ac20	5220	Ant1	95.8	0.19	0.4
NVNT	ac20	5240	Ant1	96.18	0.17	0.4
NVNT	ac20	5260	Ant1	97.3	0.12	0.4
NVNT	ac20	5300	Ant1	96.18	0.17	0.4
NVNT	ac20	5320	Ant1	96.17	0.17	0.4
NVNT	ac20	5500	Ant1	96.18	0.17	0.4
NVNT	ac20	5580	Ant1	96.17	0.17	0.4
NVNT	ac20	5720	Ant1	95.8	0.19	0.4
NVNT	ac20	5745	Ant1	96.18	0.17	0.4
NVNT	ac20	5785	Ant1	96.18	0.17	0.4
NVNT	ac20	5825	Ant1	96.18	0.17	0.4
NVNT	ac40	5190	Ant1	96.85	0.14	0.81
NVNT	ac40	5230	Ant1	93.89	0.27	0.81
NVNT	ac40	5270	Ant1	92.48	0.34	0.81
NVNT	ac40	5310	Ant1	94.66	0.24	0.81
NVNT	ac40	5510	Ant1	94.66	0.24	0.81
NVNT	ac40	5550	Ant1	77.85	1.09	0.81
NVNT	ac40	5710	Ant1	93.89	0.27	0.81
NVNT	ac40	5755	Ant1	94.62	0.24	0.81
NVNT	ac40	5795	Ant1	93.89	0.27	0.81
NVNT	ax20	5180	Ant1	95.8	0.19	0.4
NVNT	ax20	5220	Ant1	97.3	0.12	0.4
NVNT	ax20	5240	Ant1	96.18	0.17	0.4
NVNT	ax20	5260	Ant1	97.3	0.12	0.4
NVNT	ax20	5300	Ant1	96.18	0.17	0.4
NVNT	ax20	5320	Ant1	95.8	0.19	0.4
NVNT	ax20	5500	Ant1	96.18	0.17	0.4
NVNT	ax20	5580	Ant1	96.18	0.17	0.4
NVNT	ax20	5720	Ant1	97.29	0.12	0.4
NVNT	ax20	5745	Ant1	96.18	0.17	0.4
NVNT	ax20	5785	Ant1	96.18	0.17	0.4
NVNT	ax20	5825	Ant1	95.8	0.19	0.4
NVNT	ax40	5190	Ant1	74.07	1.3	1
NVNT	ax40	5230	Ant1	90.83	0.42	1.01
NVNT	ax40	5270	Ant1	93.4	0.3	1.01
NVNT	ax40	5310	Ant1	93.4	0.3	1.01



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NVNT	ax40	5510	Ant1	74.07	1.3	1
NVNT	ax40	5550	Ant1	93.4	0.3	1.01
NVNT	ax40	5710	Ant1	93.4	0.3	1.01
NVNT	ax40	5755	Ant1	90.91	0.41	1
NVNT	ax40	5795	Ant1	93.4	0.3	1.01

**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	Ant1	14.12	0.02582	24	Pass
NVNT	a	5220	Ant1	14.2	0.0263	24	Pass
NVNT	a	5240	Ant1	13.9	0.02455	24	Pass
NVNT	a	5260	Ant1	14.01	0.02518	24	Pass
NVNT	a	5300	Ant1	14.04	0.02535	24	Pass
NVNT	a	5320	Ant1	13.92	0.02466	24	Pass
NVNT	a	5500	Ant1	15.32	0.03404	24	Pass
NVNT	a	5580	Ant1	14.74	0.02979	24	Pass
NVNT	a	5720	Ant1	14.41	0.02761	24	Pass
NVNT	a	5745	Ant1	15.11	0.03243	30	Pass
NVNT	a	5785	Ant1	13.99	0.02506	30	Pass
NVNT	a	5825	Ant1	15.17	0.03289	30	Pass
NVNT	n20	5180	Ant1	13.95	0.02483	24	Pass
NVNT	n20	5220	Ant1	14.1	0.0257	24	Pass
NVNT	n20	5240	Ant1	13.87	0.02438	24	Pass
NVNT	n20	5260	Ant1	13.93	0.02472	24	Pass
NVNT	n20	5300	Ant1	14.04	0.02535	24	Pass
NVNT	n20	5320	Ant1	13.82	0.0241	24	Pass
NVNT	n20	5500	Ant1	15.25	0.0335	24	Pass
NVNT	n20	5580	Ant1	14.71	0.02958	24	Pass
NVNT	n20	5720	Ant1	14.41	0.02761	24	Pass
NVNT	n20	5745	Ant1	15.15	0.03273	30	Pass
NVNT	n20	5785	Ant1	15.16	0.03281	30	Pass
NVNT	n20	5825	Ant1	15.21	0.03319	30	Pass
NVNT	n40	5190	Ant1	13.69	0.02339	24	Pass
NVNT	n40	5230	Ant1	13.76	0.02377	24	Pass
NVNT	n40	5270	Ant1	13.55	0.02265	24	Pass
NVNT	n40	5310	Ant1	13.71	0.0235	24	Pass
NVNT	n40	5510	Ant1	14.95	0.03126	24	Pass
NVNT	n40	5550	Ant1	14.57	0.02864	24	Pass
NVNT	n40	5710	Ant1	14.26	0.02667	24	Pass
NVNT	n40	5755	Ant1	15.28	0.03373	30	Pass
NVNT	n40	5795	Ant1	15.1	0.03236	30	Pass
NVNT	ac20	5180	Ant1	13.85	0.02427	24	Pass



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NVNT	ac20	5220	Ant1	13.99	0.02506	24	Pass
NVNT	ac20	5240	Ant1	13.68	0.02333	24	Pass
NVNT	ac20	5260	Ant1	13.74	0.02366	24	Pass
NVNT	ac20	5300	Ant1	13.97	0.02495	24	Pass
NVNT	ac20	5320	Ant1	13.62	0.02301	24	Pass
NVNT	ac20	5500	Ant1	15.18	0.03296	24	Pass
NVNT	ac20	5580	Ant1	14.48	0.02805	24	Pass
NVNT	ac20	5720	Ant1	14.21	0.02636	24	Pass
NVNT	ac20	5745	Ant1	14.96	0.03133	30	Pass
NVNT	ac20	5785	Ant1	14.86	0.03062	30	Pass
NVNT	ac20	5825	Ant1	14.94	0.03119	30	Pass
NVNT	ac40	5190	Ant1	13.83	0.02415	24	Pass
NVNT	ac40	5230	Ant1	13.91	0.0246	24	Pass
NVNT	ac40	5270	Ant1	13.76	0.02377	24	Pass
NVNT	ac40	5310	Ant1	13.83	0.02415	24	Pass
NVNT	ac40	5510	Ant1	15.11	0.03243	24	Pass
NVNT	ac40	5550	Ant1	14.74	0.02979	24	Pass
NVNT	ac40	5710	Ant1	14.34	0.02716	24	Pass
NVNT	ac40	5755	Ant1	15.37	0.03443	30	Pass
NVNT	ac40	5795	Ant1	15.25	0.0335	30	Pass
NVNT	ax20	5180	Ant1	13.95	0.02483	24	Pass
NVNT	ax20	5220	Ant1	14.03	0.02529	24	Pass
NVNT	ax20	5240	Ant1	13.8	0.02399	24	Pass
NVNT	ax20	5260	Ant1	13.87	0.02438	24	Pass
NVNT	ax20	5300	Ant1	14.1	0.0257	24	Pass
NVNT	ax20	5320	Ant1	13.71	0.0235	24	Pass
NVNT	ax20	5500	Ant1	15.34	0.0342	24	Pass
NVNT	ax20	5580	Ant1	14.64	0.02911	24	Pass
NVNT	ax20	5720	Ant1	14.49	0.02812	24	Pass
NVNT	ax20	5745	Ant1	15.05	0.03199	30	Pass
NVNT	ax20	5785	Ant1	15.05	0.03199	30	Pass
NVNT	ax20	5825	Ant1	14.99	0.03155	30	Pass
NVNT	ax40	5190	Ant1	13.81	0.02404	24	Pass
NVNT	ax40	5230	Ant1	13.78	0.02388	24	Pass
NVNT	ax40	5270	Ant1	13.58	0.0228	24	Pass
NVNT	ax40	5310	Ant1	13.64	0.02312	24	Pass
NVNT	ax40	5510	Ant1	15.04	0.03192	24	Pass
NVNT	ax40	5550	Ant1	14.59	0.02877	24	Pass



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NVNT	ax40	5710	Ant1	14.27	0.02673	24	Pass
NVNT	ax40	5755	Ant1	15.17	0.03289	30	Pass
NVNT	ax40	5795	Ant1	15.14	0.03266	30	Pass

**A.3. Emission Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	24.812
NVNT	a	5220	Ant1	24.84
NVNT	a	5240	Ant1	25.596
NVNT	a	5260	Ant1	25.731
NVNT	a	5300	Ant1	24.876
NVNT	a	5320	Ant1	25.643
NVNT	a	5500	Ant1	25.859
NVNT	a	5580	Ant1	25.634
NVNT	a	5720	Ant1	26.368
NVNT	n20	5180	Ant1	26.335
NVNT	n20	5220	Ant1	27.558
NVNT	n20	5240	Ant1	26.889
NVNT	n20	5260	Ant1	25.755
NVNT	n20	5300	Ant1	25.863
NVNT	n20	5320	Ant1	26.151
NVNT	n20	5500	Ant1	26.317
NVNT	n20	5580	Ant1	27.959
NVNT	n20	5720	Ant1	25.958
NVNT	n40	5190	Ant1	46.348
NVNT	n40	5230	Ant1	46.48
NVNT	n40	5270	Ant1	46.678
NVNT	n40	5310	Ant1	46.833
NVNT	n40	5510	Ant1	48.404
NVNT	n40	5550	Ant1	48.444
NVNT	n40	5710	Ant1	47.684
NVNT	ac20	5180	Ant1	25.991
NVNT	ac20	5220	Ant1	26.109
NVNT	ac20	5240	Ant1	27.356
NVNT	ac20	5260	Ant1	26.413
NVNT	ac20	5300	Ant1	25.193
NVNT	ac20	5320	Ant1	27.388
NVNT	ac20	5500	Ant1	25.817
NVNT	ac20	5580	Ant1	27.714
NVNT	ac20	5720	Ant1	28.558
NVNT	ac40	5190	Ant1	47.063



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NVNT	ac40	5230	Ant1	46.596
NVNT	ac40	5270	Ant1	47.54
NVNT	ac40	5310	Ant1	46.787
NVNT	ac40	5510	Ant1	47.793
NVNT	ac40	5550	Ant1	48.55
NVNT	ac40	5710	Ant1	48.363
NVNT	ax20	5180	Ant1	26.657
NVNT	ax20	5220	Ant1	25.873
NVNT	ax20	5240	Ant1	26.244
NVNT	ax20	5260	Ant1	26.684
NVNT	ax20	5300	Ant1	26.197
NVNT	ax20	5320	Ant1	25.428
NVNT	ax20	5500	Ant1	27.031
NVNT	ax20	5580	Ant1	26.576
NVNT	ax20	5720	Ant1	27.249
NVNT	ax40	5190	Ant1	44.351
NVNT	ax40	5230	Ant1	45.219
NVNT	ax40	5270	Ant1	44.285
NVNT	ax40	5310	Ant1	44.614
NVNT	ax40	5510	Ant1	46.109
NVNT	ax40	5550	Ant1	45.667
NVNT	ax40	5710	Ant1	45.842

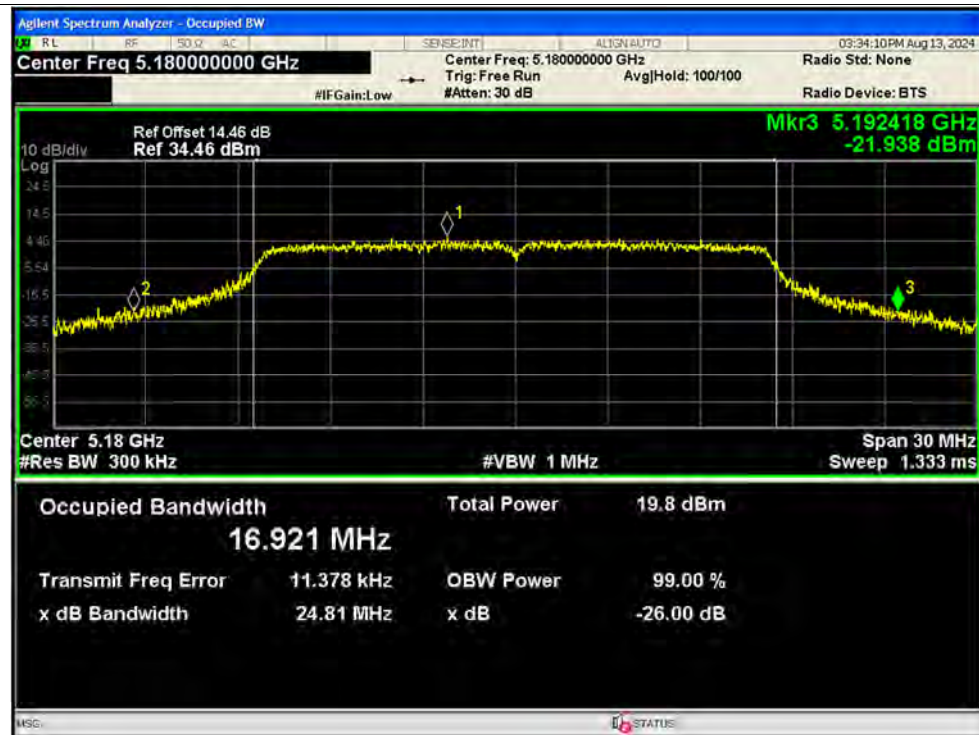


Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.377	0.5	Pass
NVNT	a	5785	Ant1	16.371	0.5	Pass
NVNT	a	5825	Ant1	16.388	0.5	Pass
NVNT	n20	5745	Ant1	17.599	0.5	Pass
NVNT	n20	5785	Ant1	17.594	0.5	Pass
NVNT	n20	5825	Ant1	17.598	0.5	Pass
NVNT	n40	5755	Ant1	36.336	0.5	Pass
NVNT	n40	5795	Ant1	36.325	0.5	Pass
NVNT	ac20	5745	Ant1	17.597	0.5	Pass
NVNT	ac20	5785	Ant1	17.638	0.5	Pass
NVNT	ac20	5825	Ant1	17.645	0.5	Pass
NVNT	ac40	5755	Ant1	36.333	0.5	Pass
NVNT	ac40	5795	Ant1	36.361	0.5	Pass
NVNT	ax20	5745	Ant1	17.608	0.5	Pass
NVNT	ax20	5785	Ant1	17.676	0.5	Pass
NVNT	ax20	5825	Ant1	17.622	0.5	Pass
NVNT	ax40	5755	Ant1	38.189	0.5	Pass
NVNT	ax40	5795	Ant1	37.749	0.5	Pass



Test Graphs

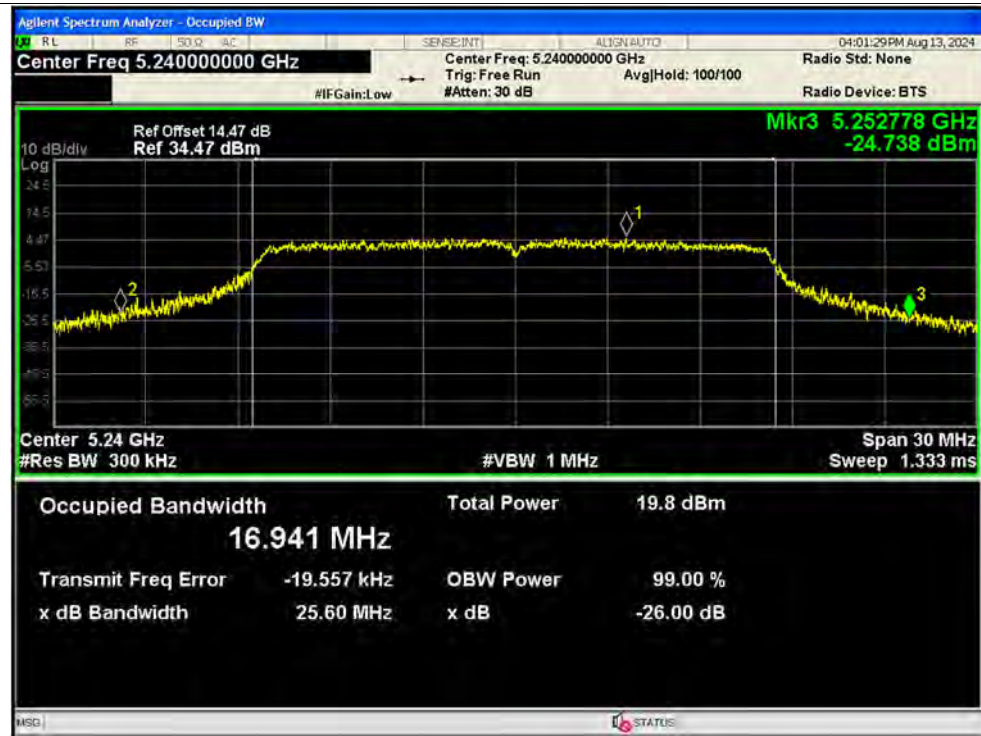
-26dB Bandwidth NVNT a 5180MHz Ant1



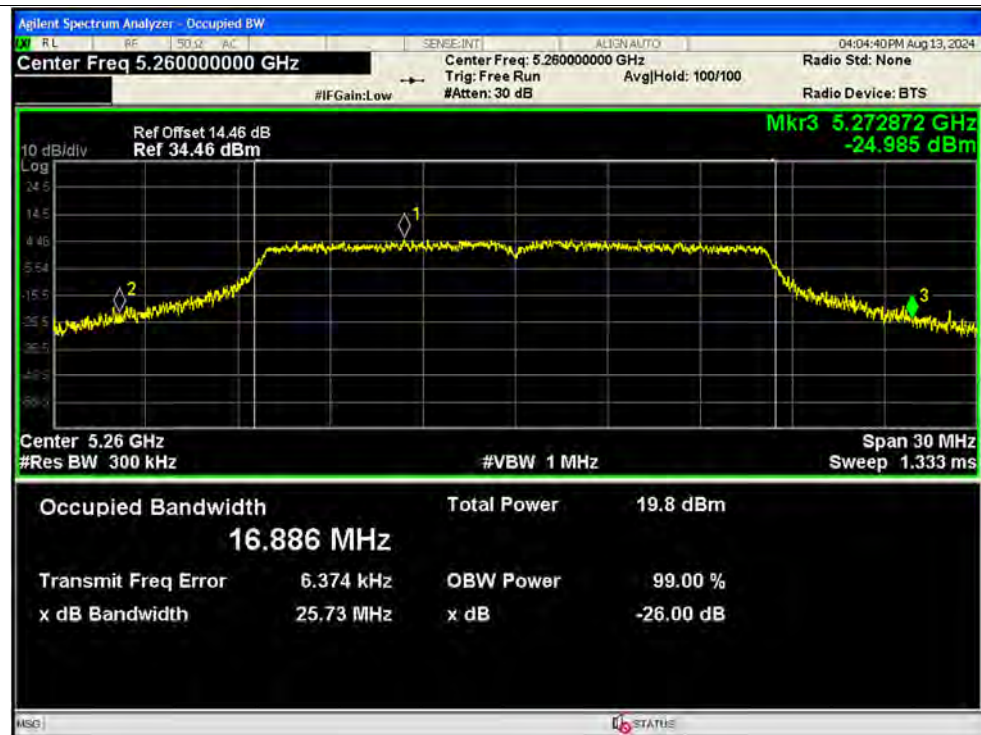
-26dB Bandwidth NVNT a 5220MHz Ant1



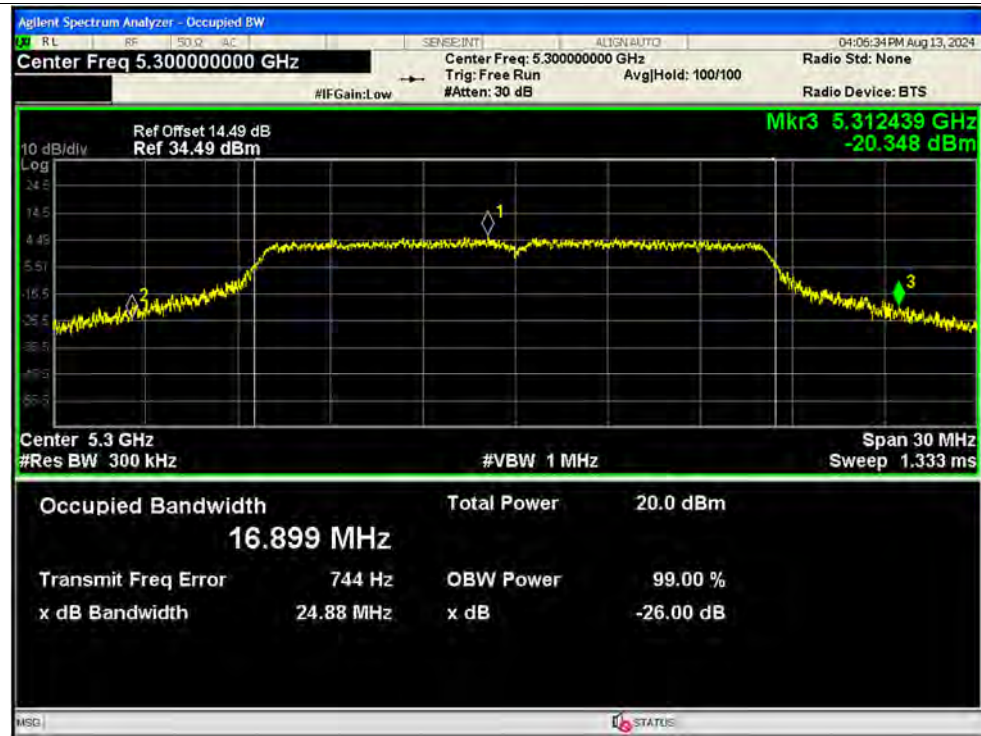
-26dB Bandwidth NVNT a 5240MHz Ant1



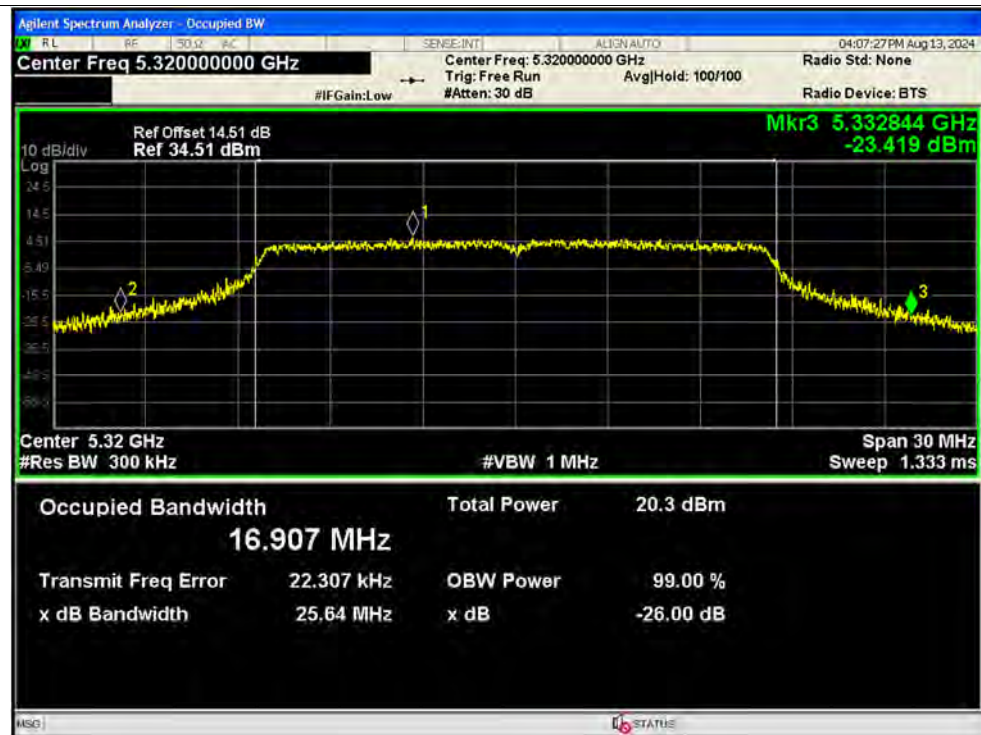
-26dB Bandwidth NVNT a 5260MHz Ant1



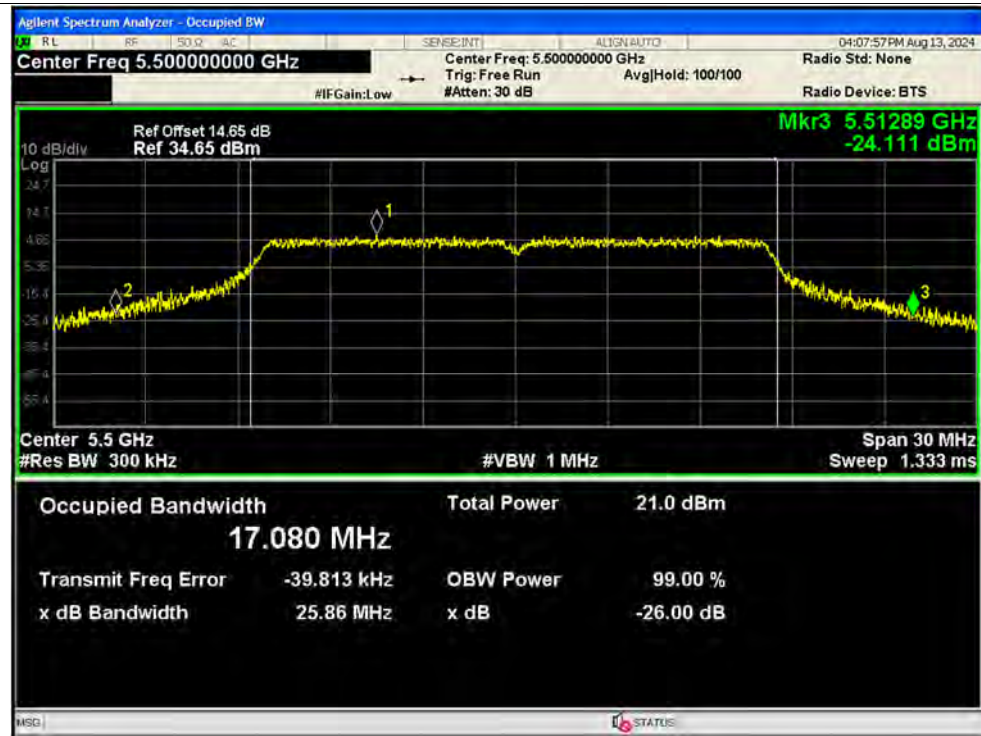
-26dB Bandwidth NVNT a 5300MHz Ant1



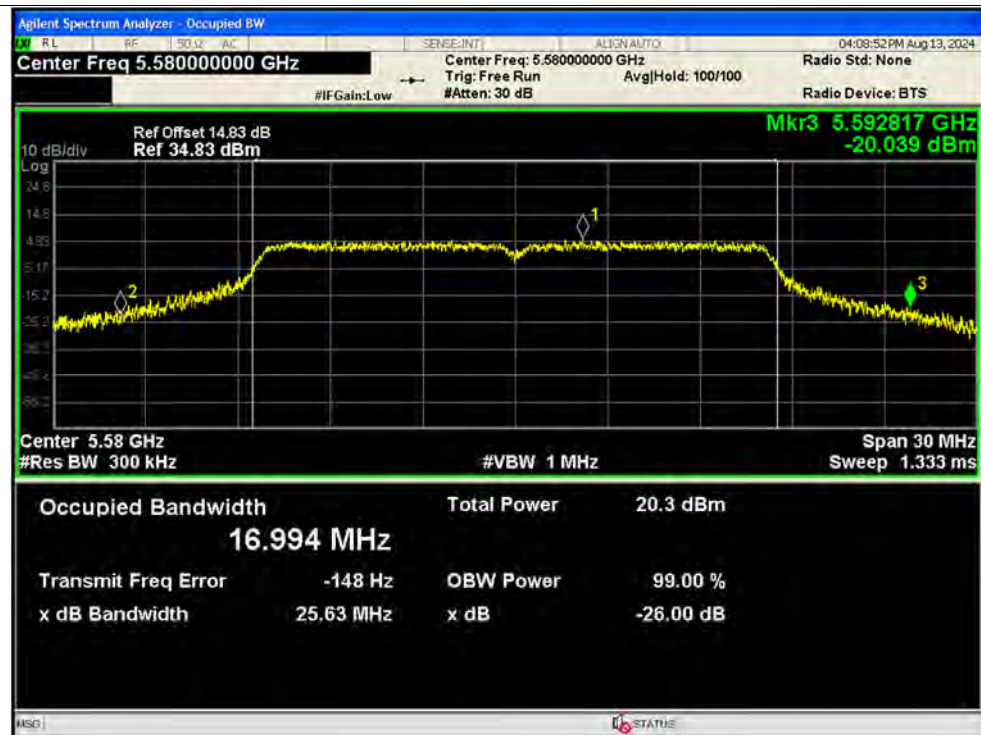
-26dB Bandwidth NVNT a 5320MHz Ant1



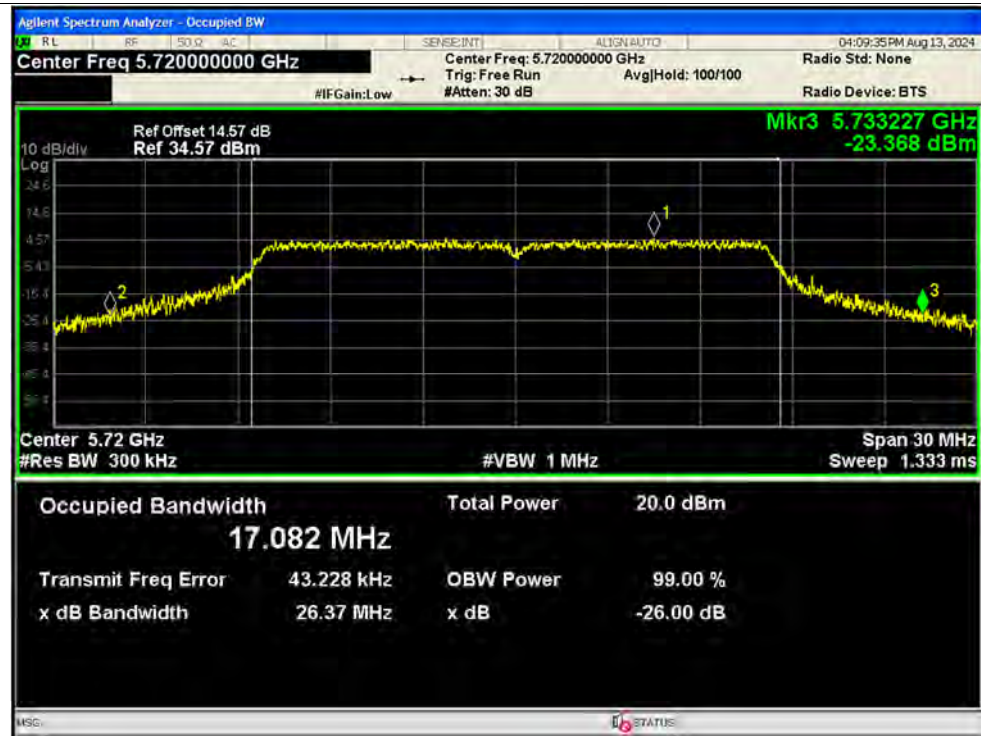
-26dB Bandwidth NVNT a 5500MHz Ant1



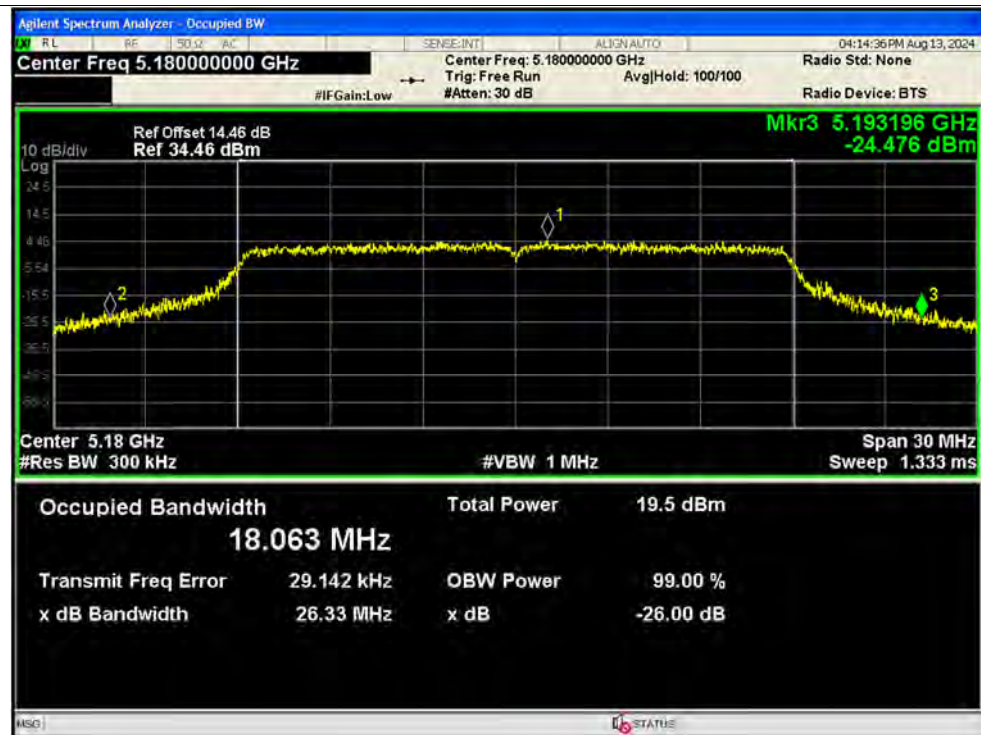
-26dB Bandwidth NVNT a 5580MHz Ant1



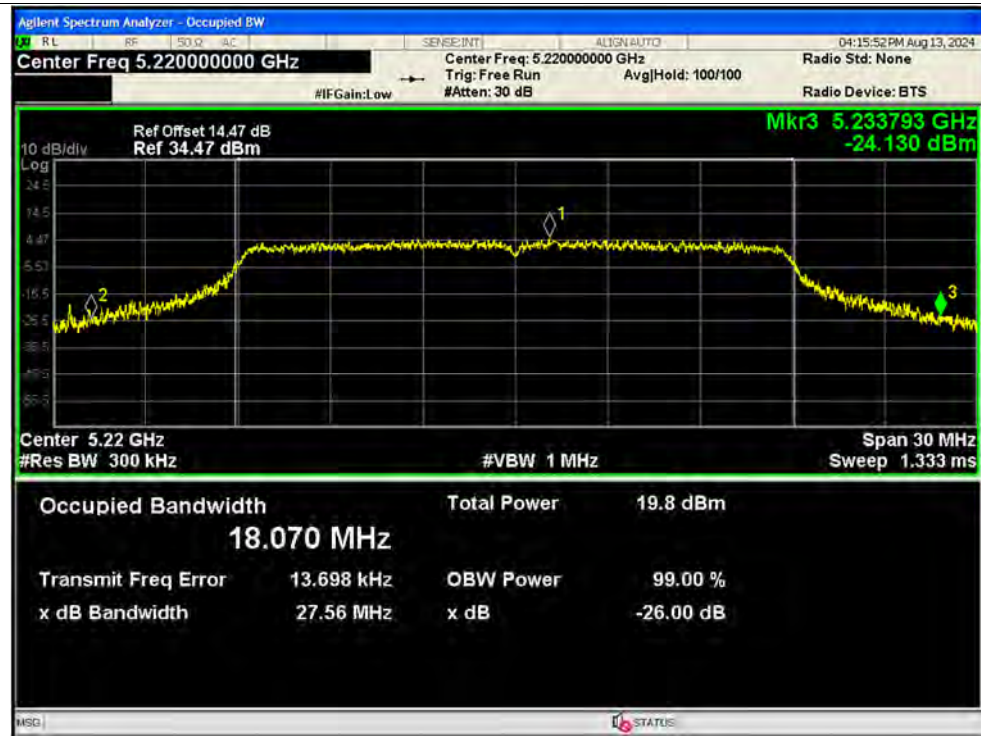
-26dB Bandwidth NVNT a 5720MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



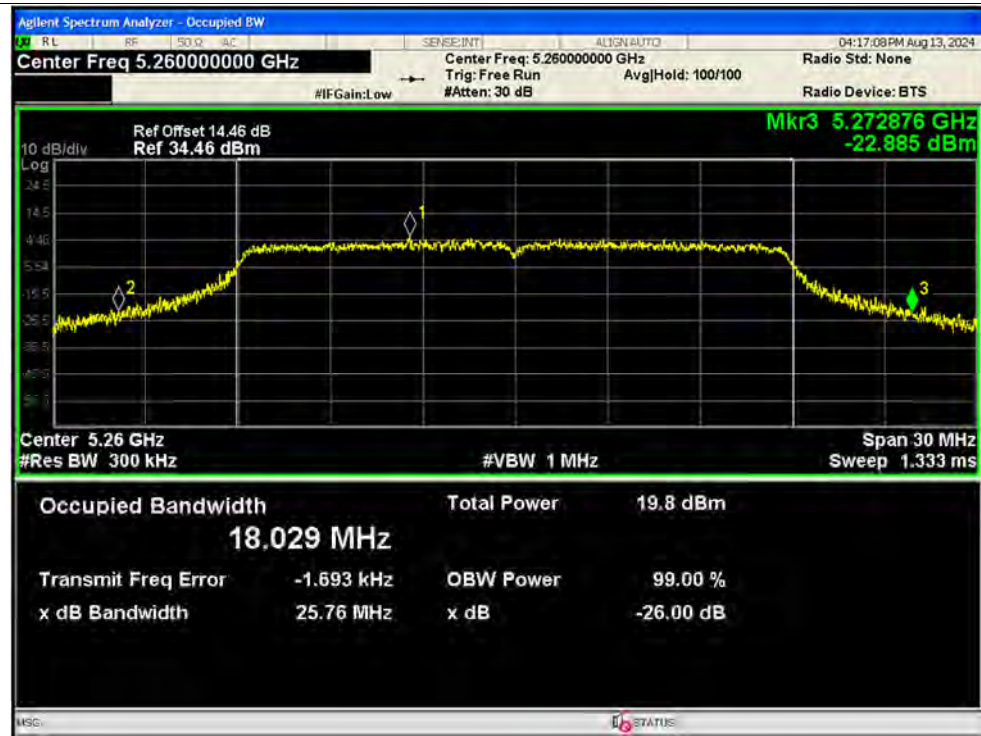
-26dB Bandwidth NVNT n20 5220MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



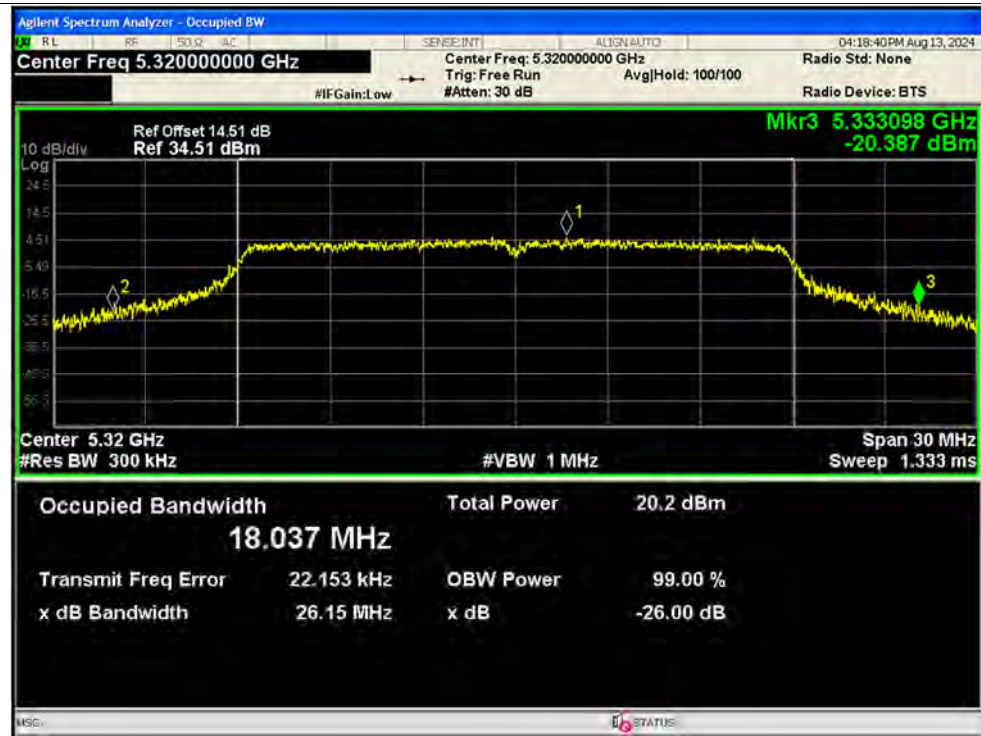
-26dB Bandwidth NVNT n20 5260MHz Ant1



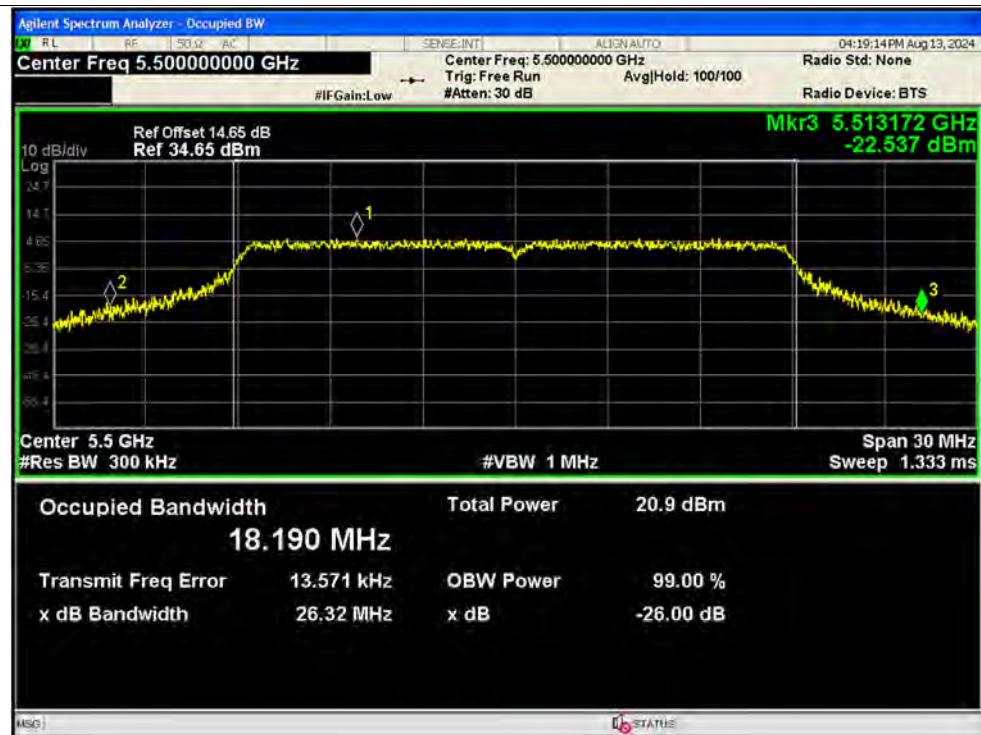
-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1



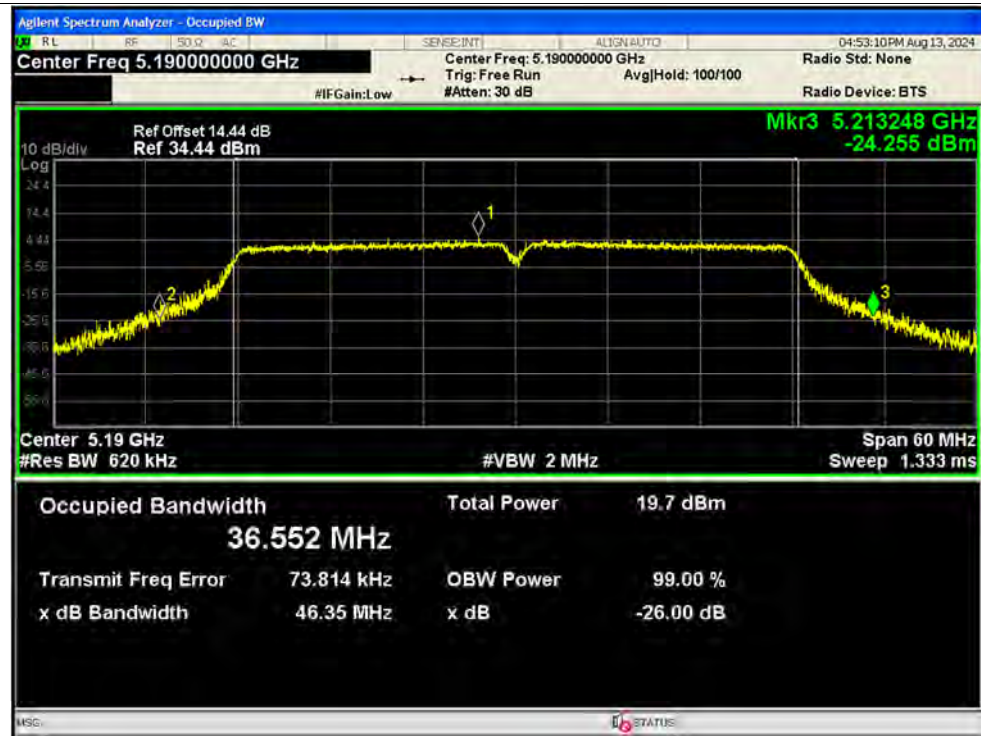
-26dB Bandwidth NVNT n20 5580MHz Ant1



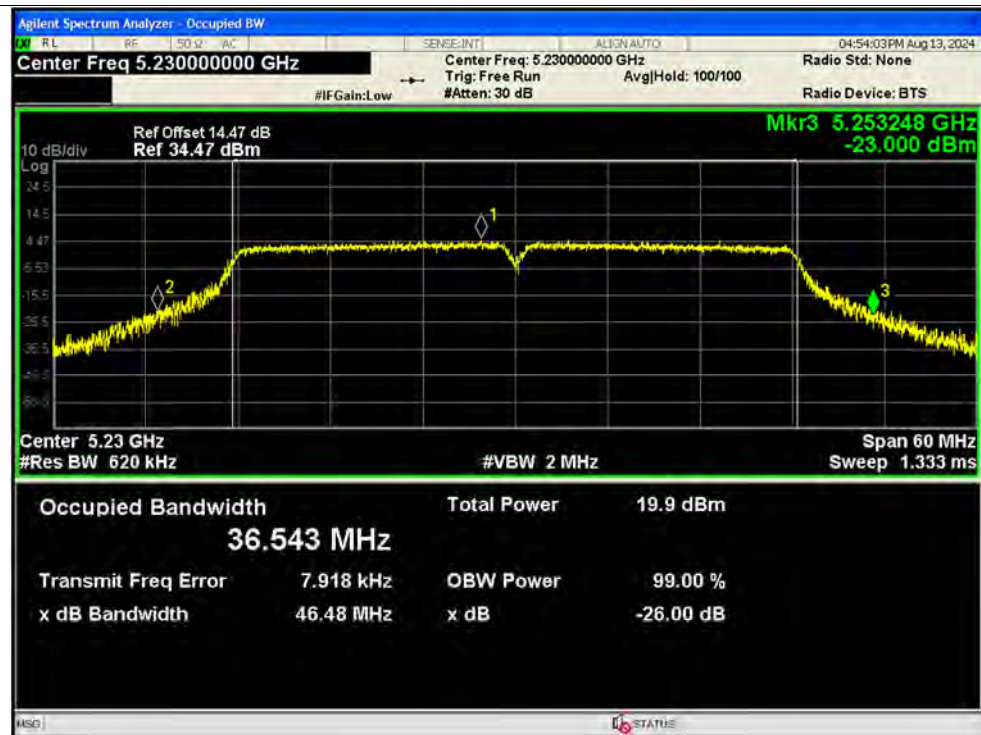
-26dB Bandwidth NVNT n20 5720MHz Ant1



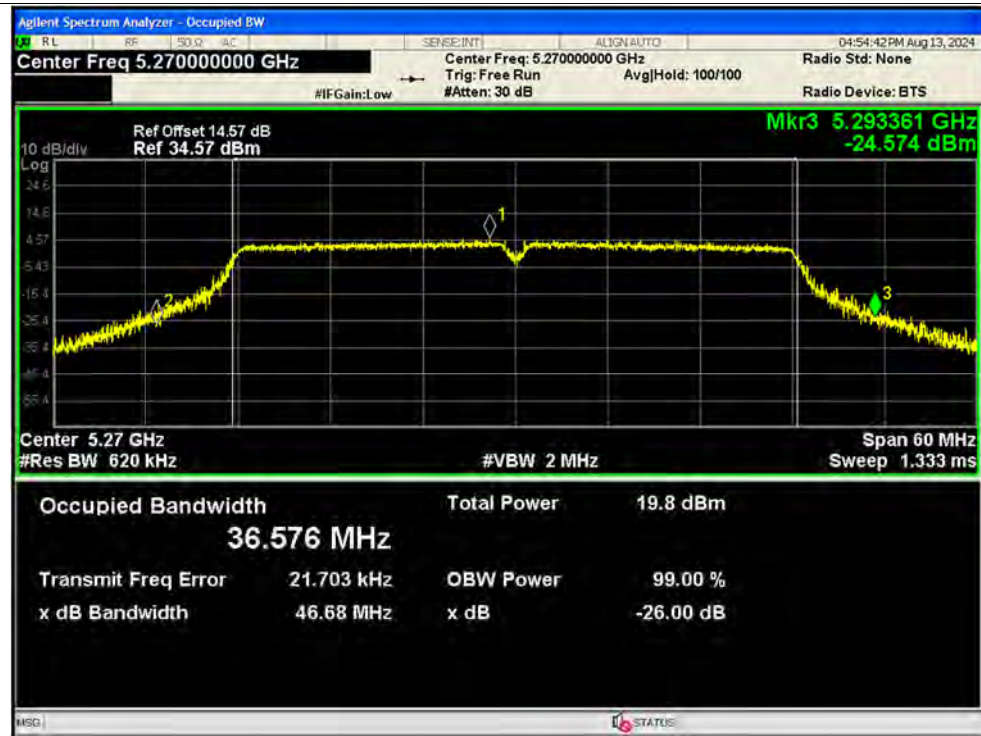
-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



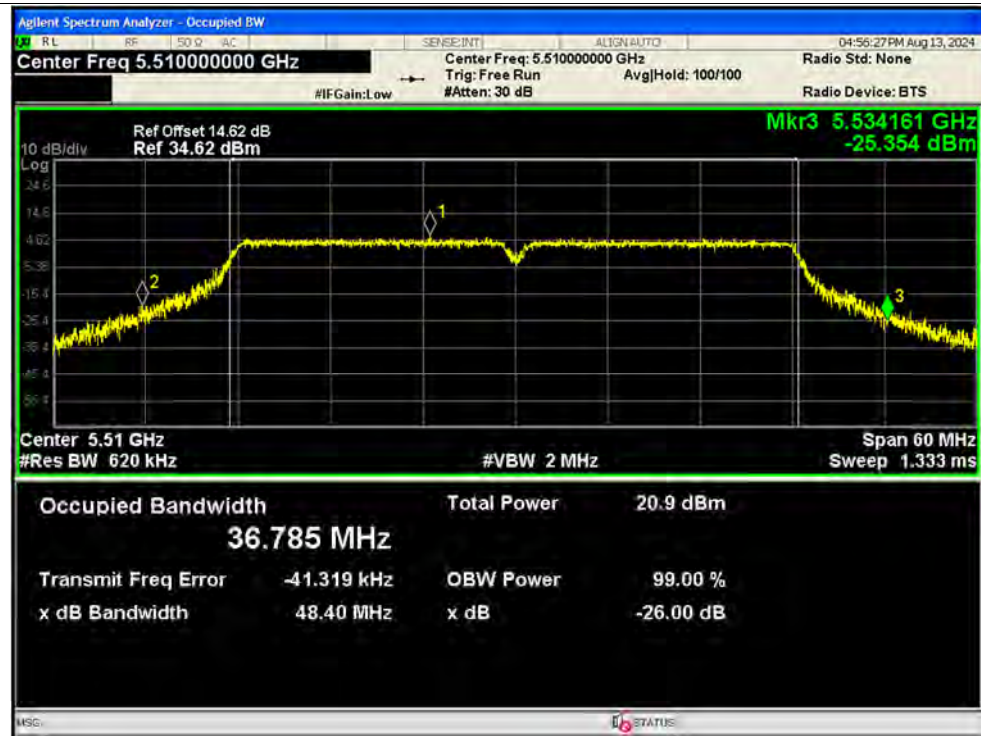
-26dB Bandwidth NVNT n40 5270MHz Ant1



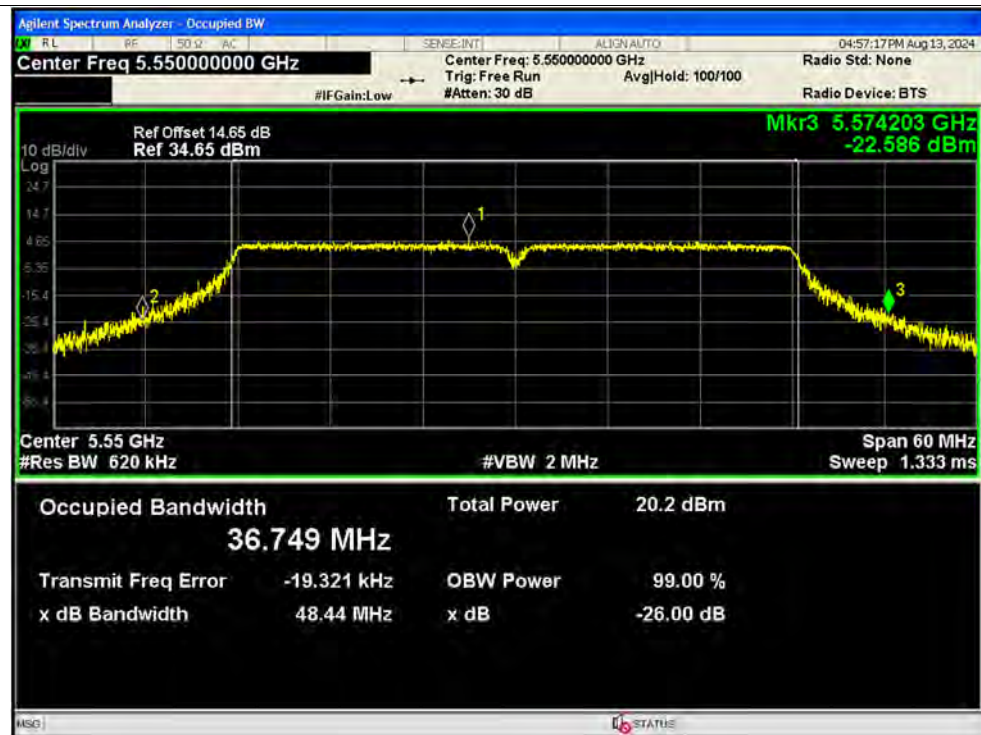
-26dB Bandwidth NVNT n40 5310MHz Ant1



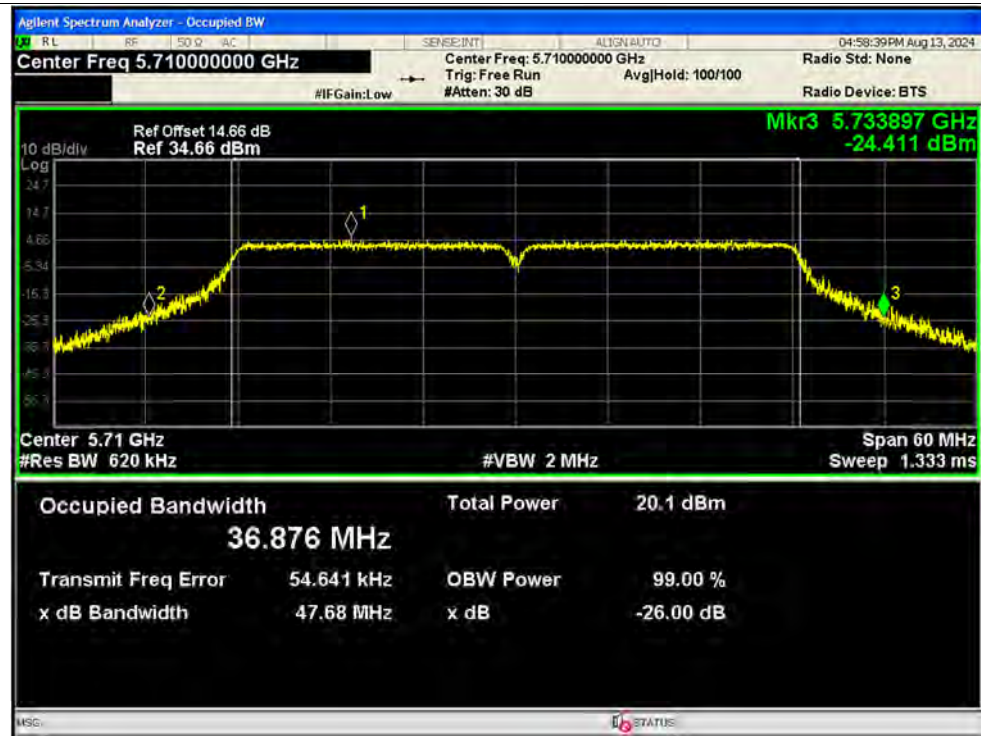
-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1



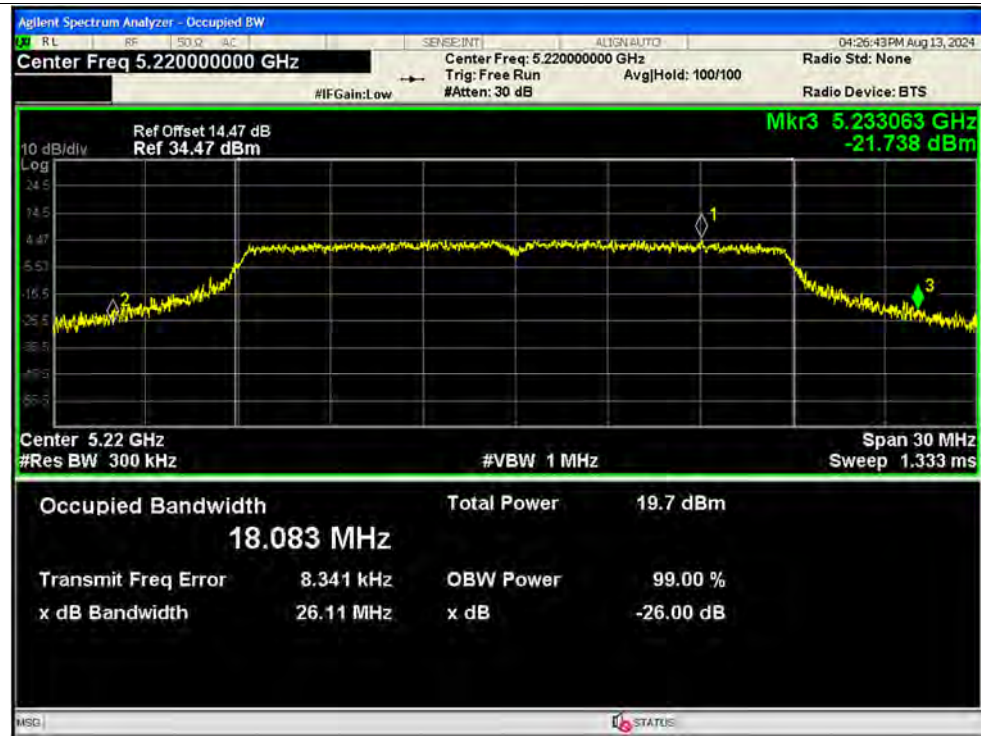
-26dB Bandwidth NVNT n40 5710MHz Ant1



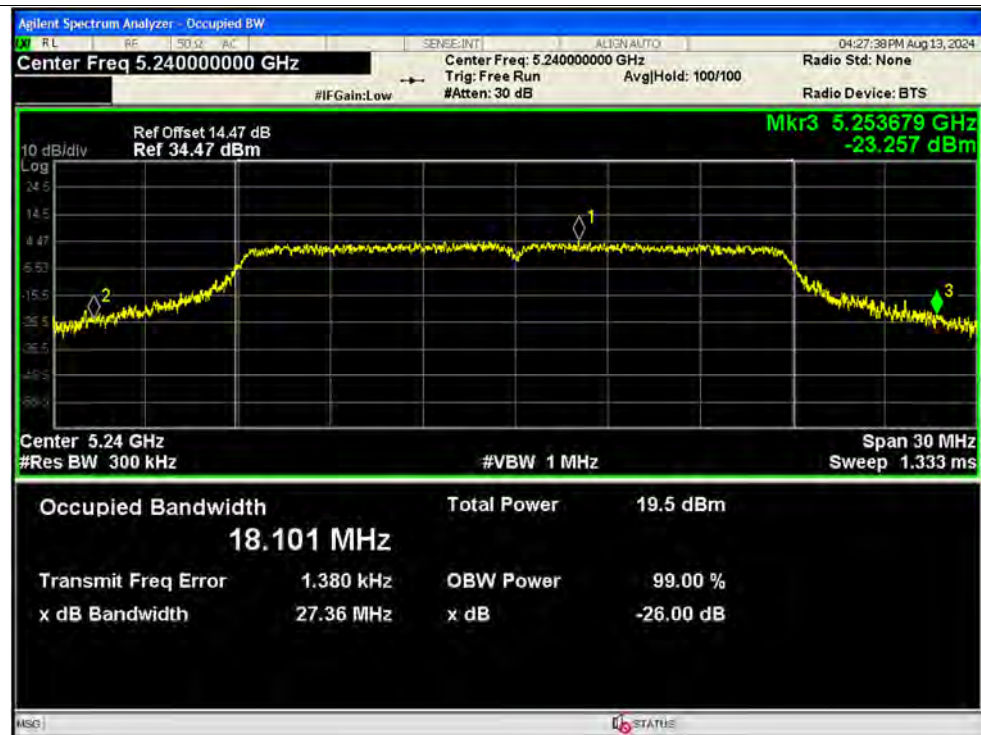
-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5220MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1



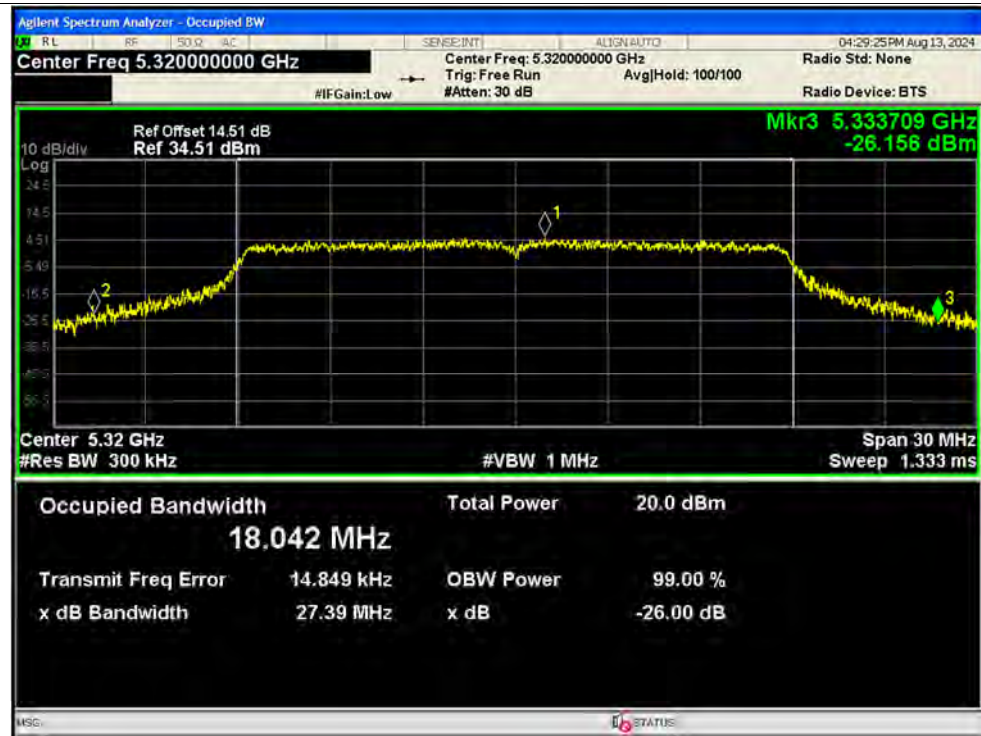
-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1



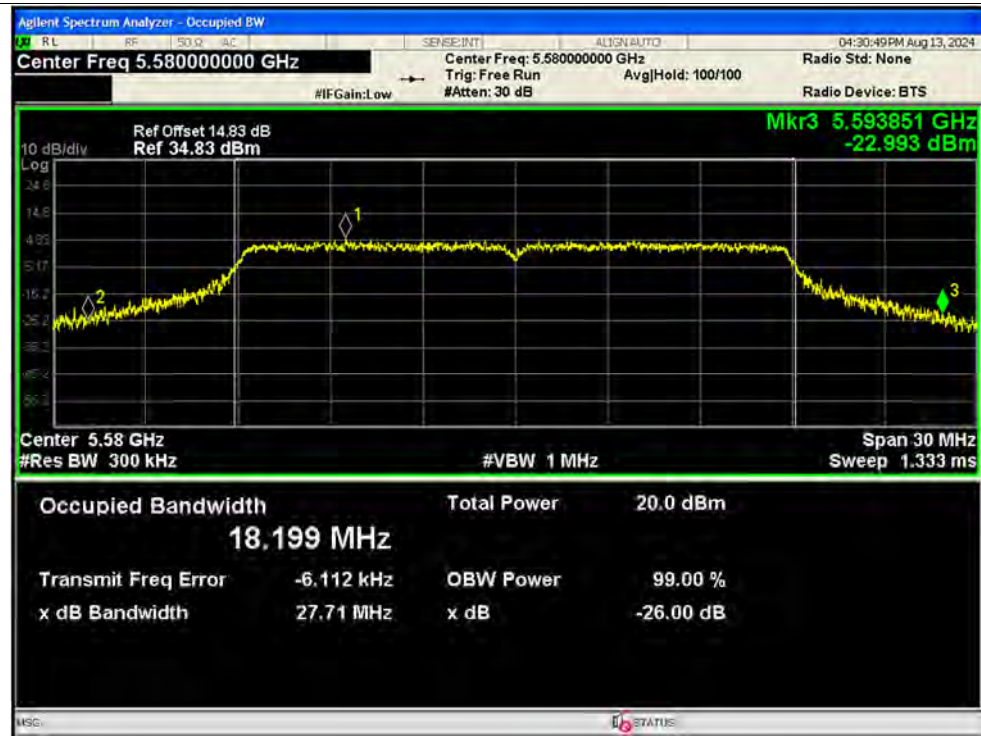
-26dB Bandwidth NVNT ac20 5320MHz Ant1



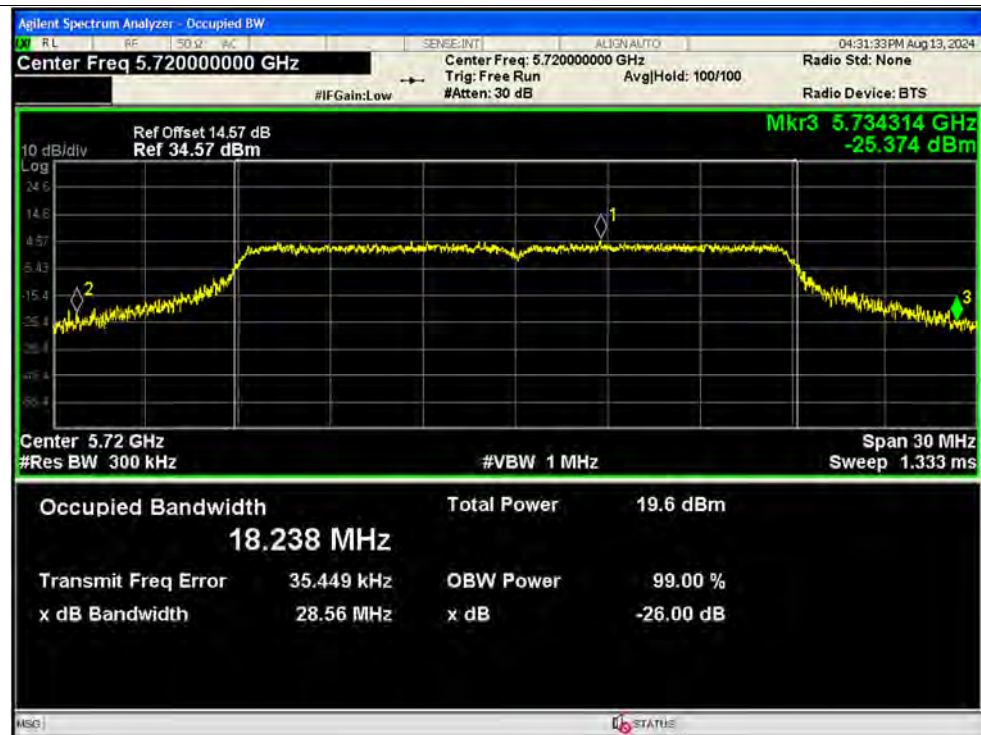
-26dB Bandwidth NVNT ac20 5500MHz Ant1



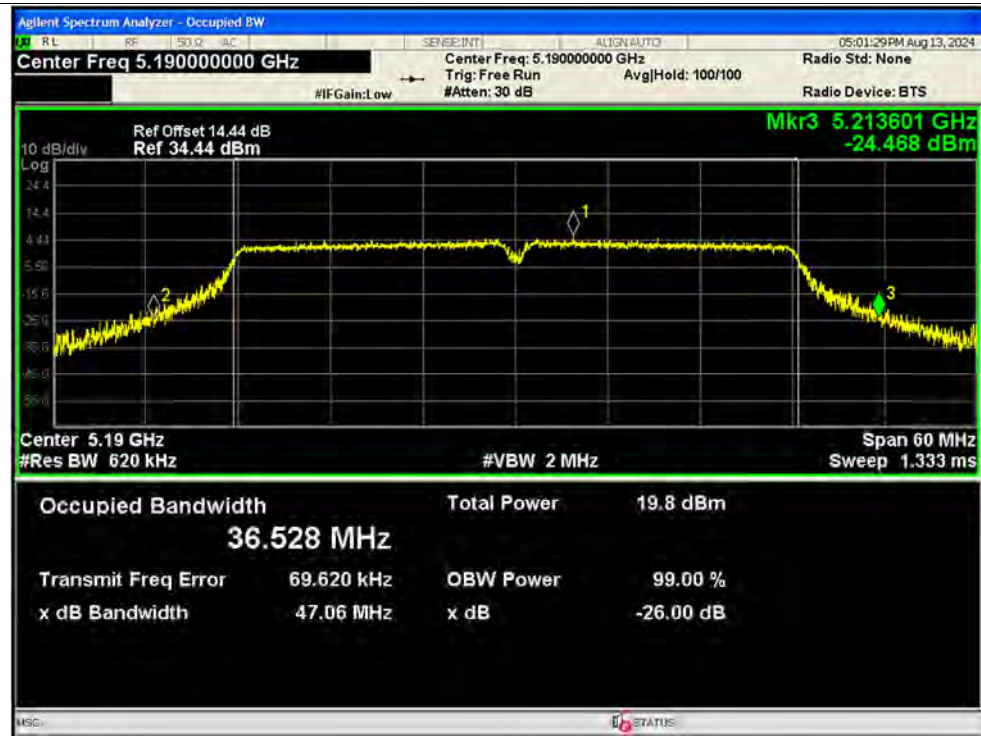
-26dB Bandwidth NVNT ac20 5580MHz Ant1



-26dB Bandwidth NVNT ac20 5720MHz Ant1



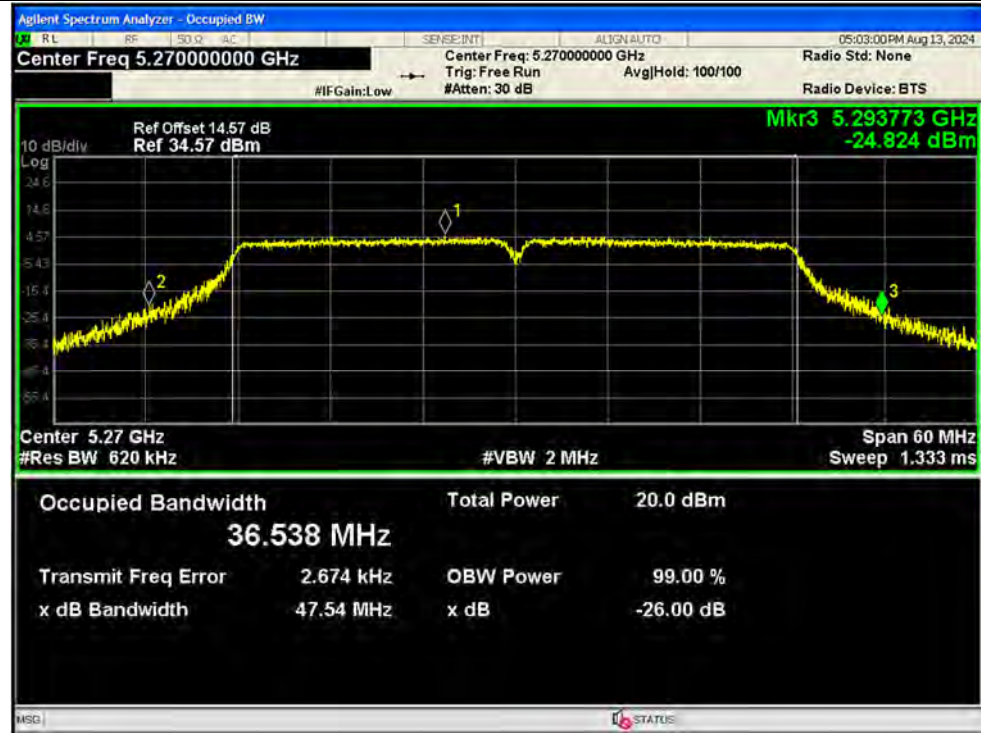
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



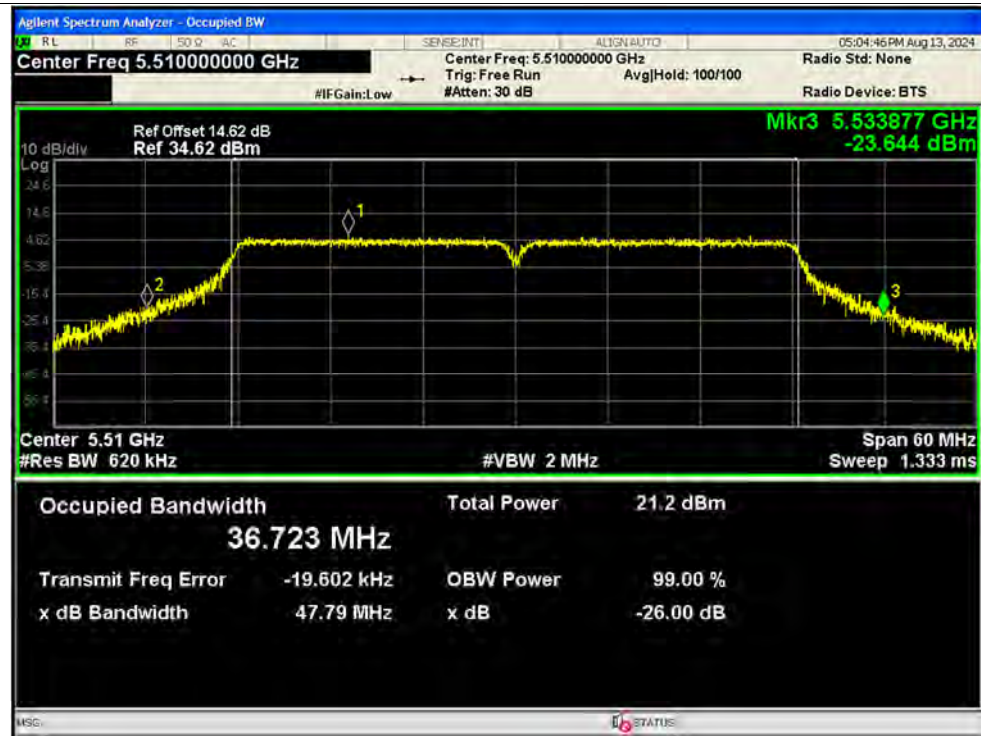
-26dB Bandwidth NVNT ac40 5270MHz Ant1



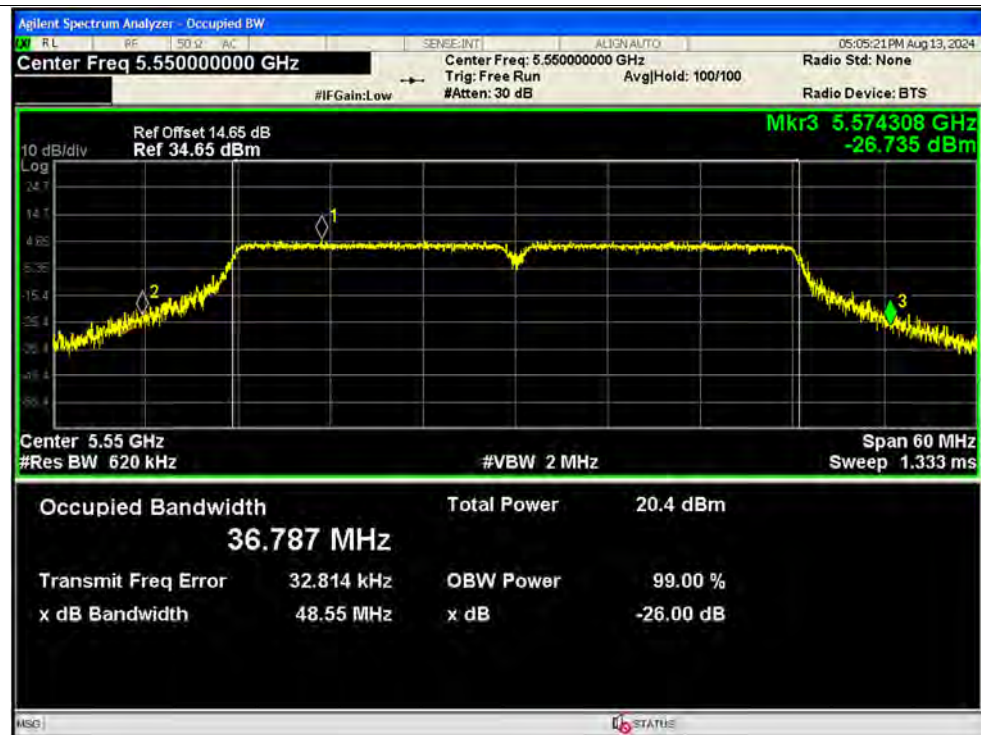
-26dB Bandwidth NVNT ac40 5310MHz Ant1



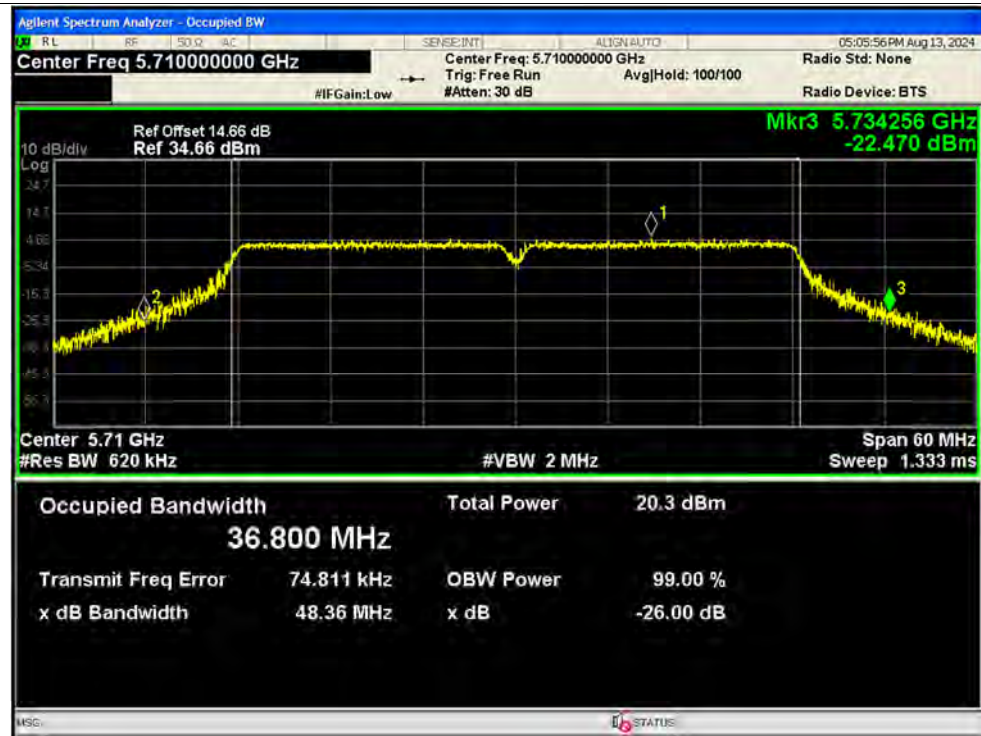
-26dB Bandwidth NVNT ac40 5510MHz Ant1



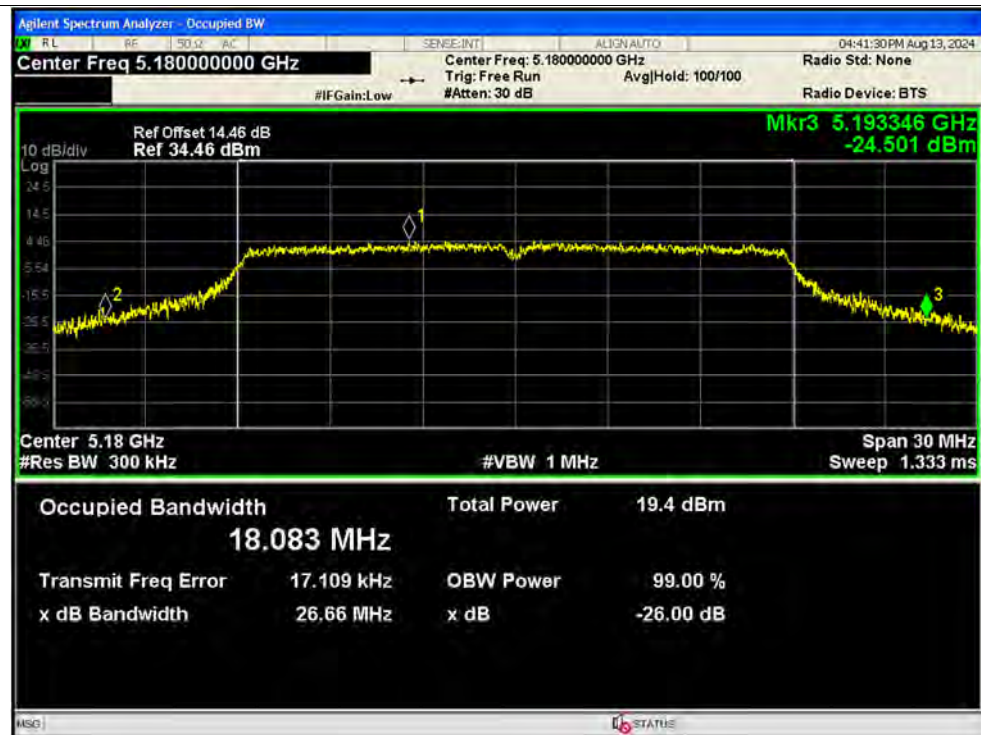
-26dB Bandwidth NVNT ac40 5550MHz Ant1



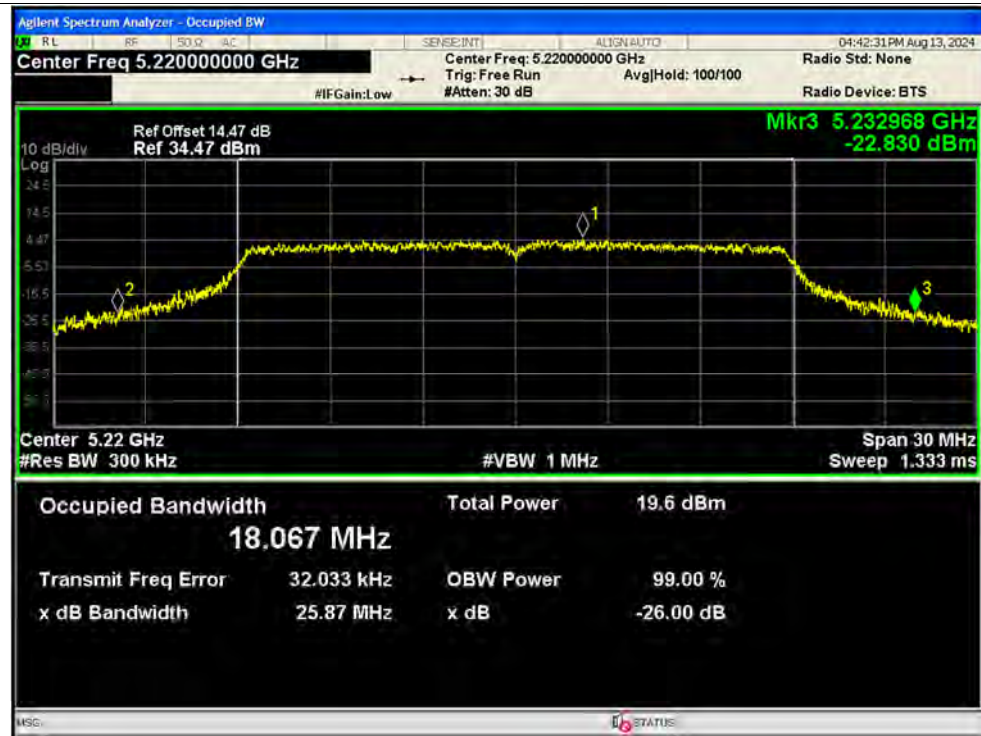
-26dB Bandwidth NVNT ac40 5710MHz Ant1



-26dB Bandwidth NVNT ax20 5180MHz Ant1



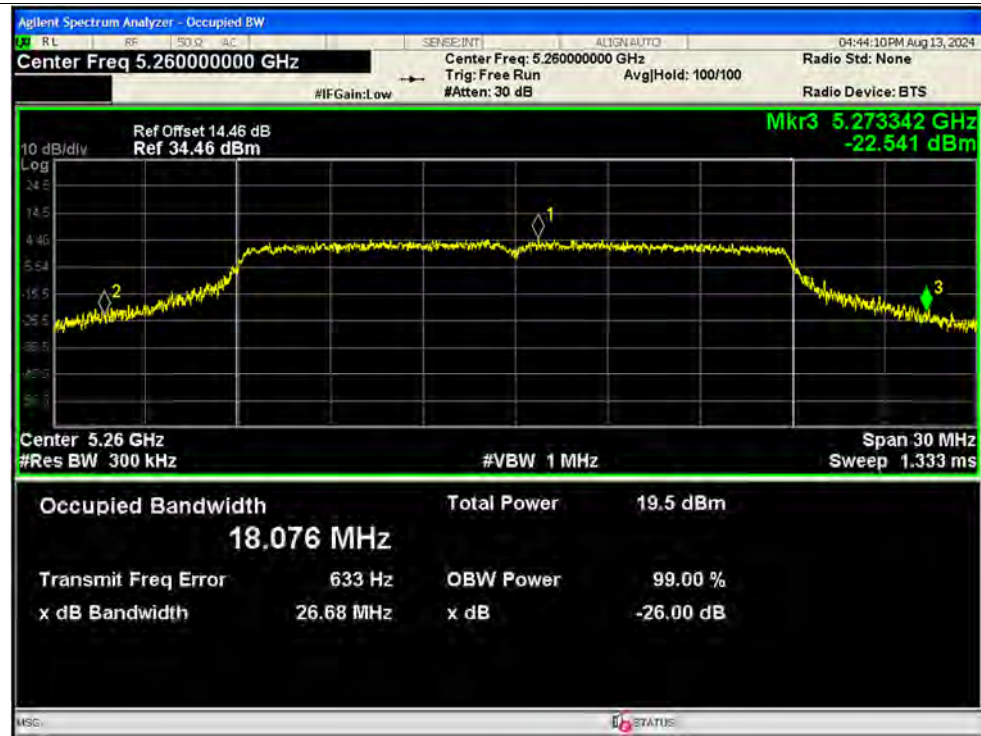
-26dB Bandwidth NVNT ax20 5220MHz Ant1



-26dB Bandwidth NVNT ax20 5240MHz Ant1



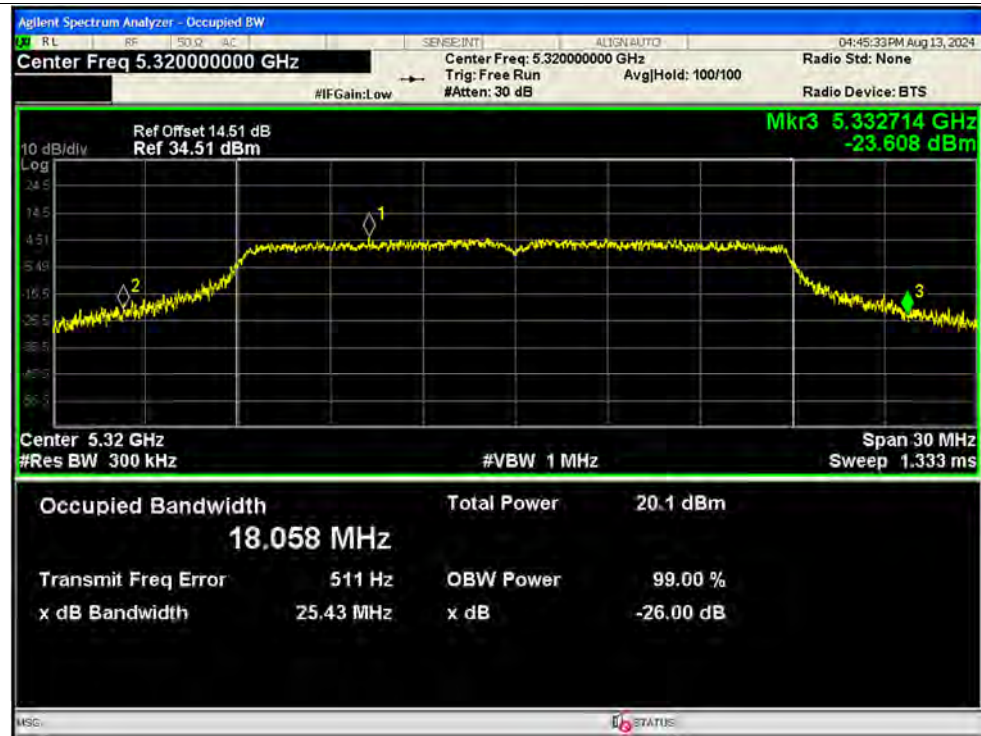
-26dB Bandwidth NVNT ax20 5260MHz Ant1



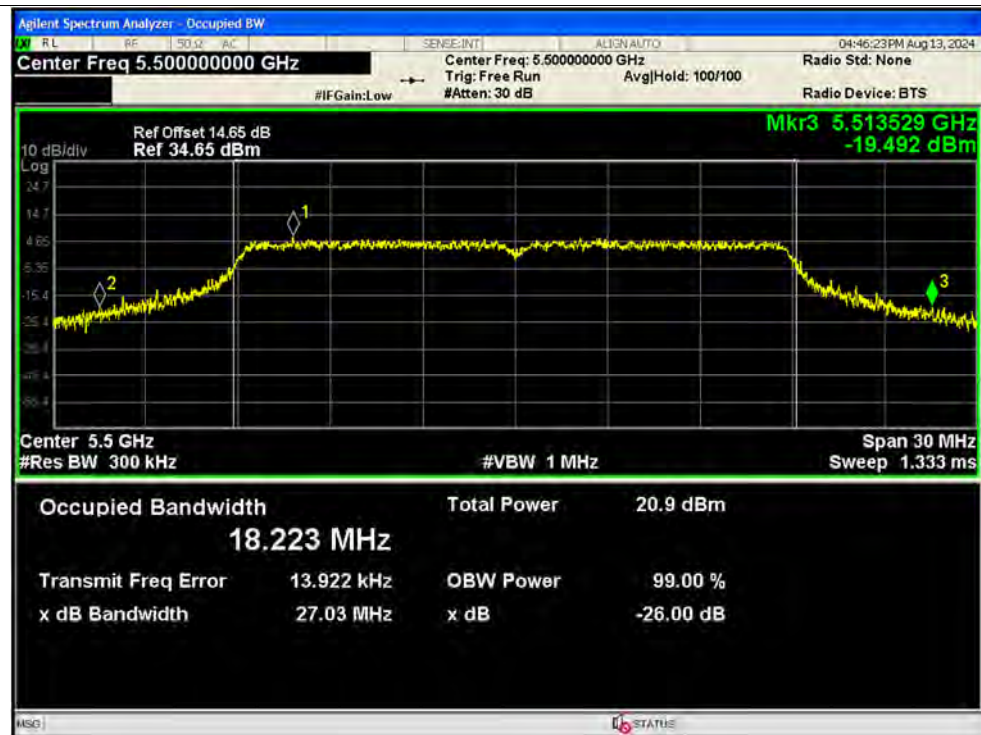
-26dB Bandwidth NVNT ax20 5300MHz Ant1



-26dB Bandwidth NVNT ax20 5320MHz Ant1



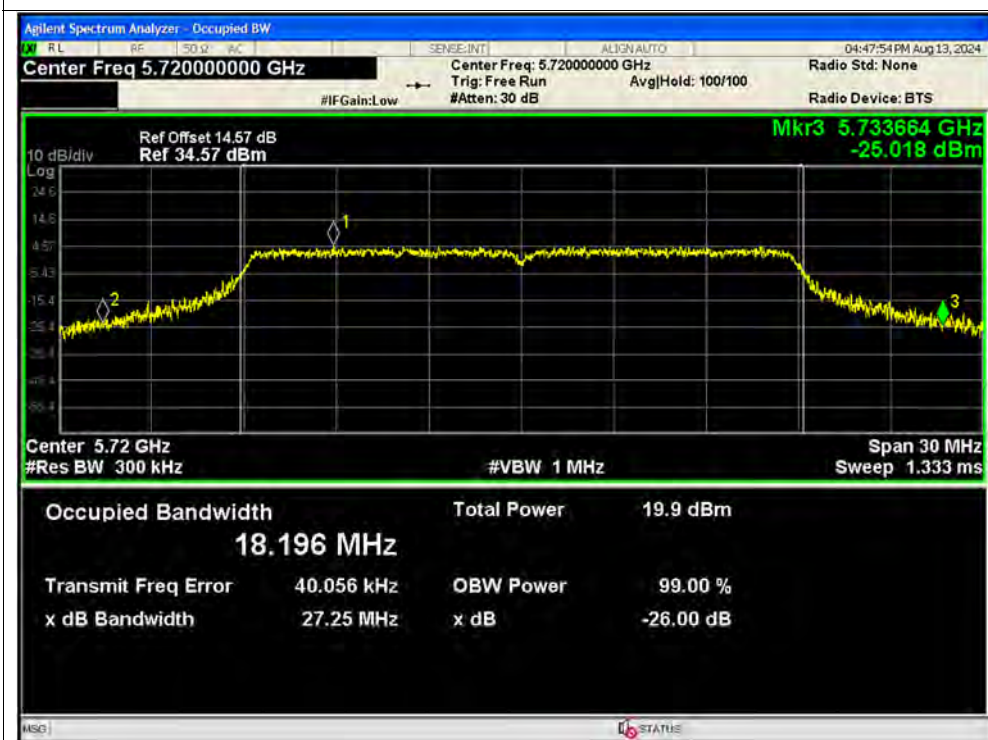
-26dB Bandwidth NVNT ax20 5500MHz Ant1



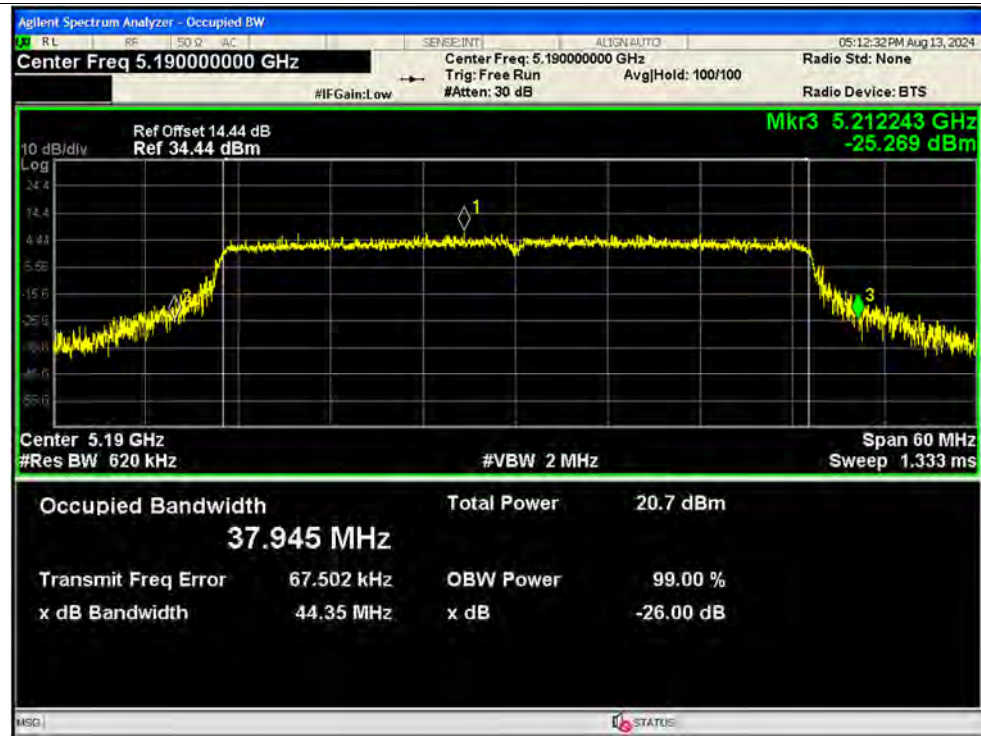
-26dB Bandwidth NVNT ax20 5580MHz Ant1



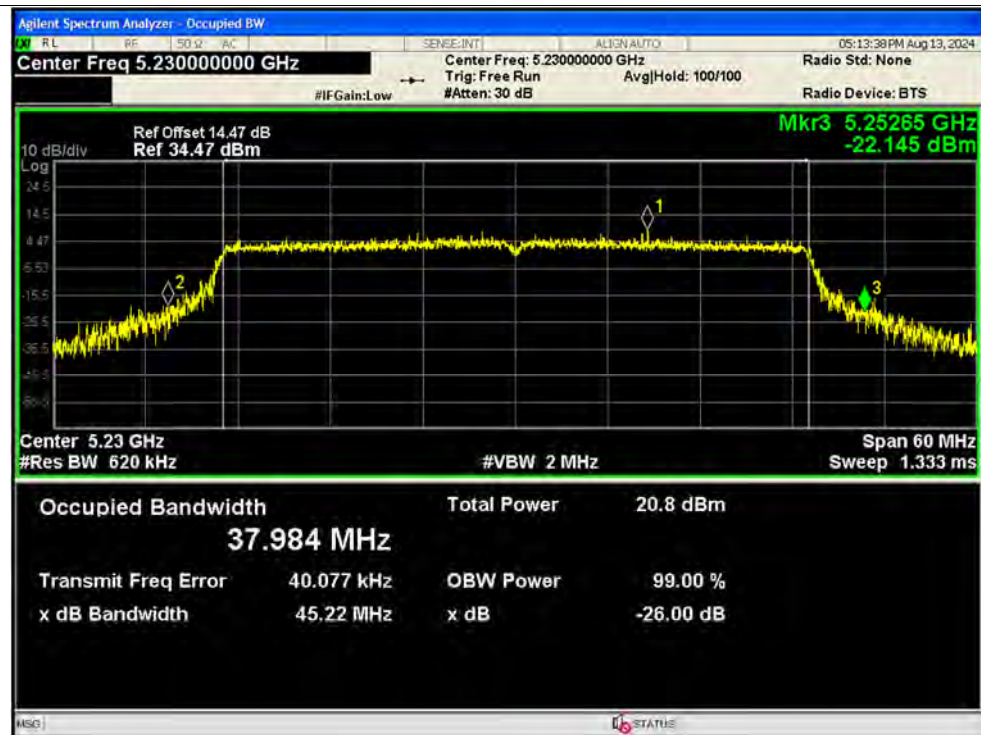
-26dB Bandwidth NVNT ax20 5720MHz Ant1



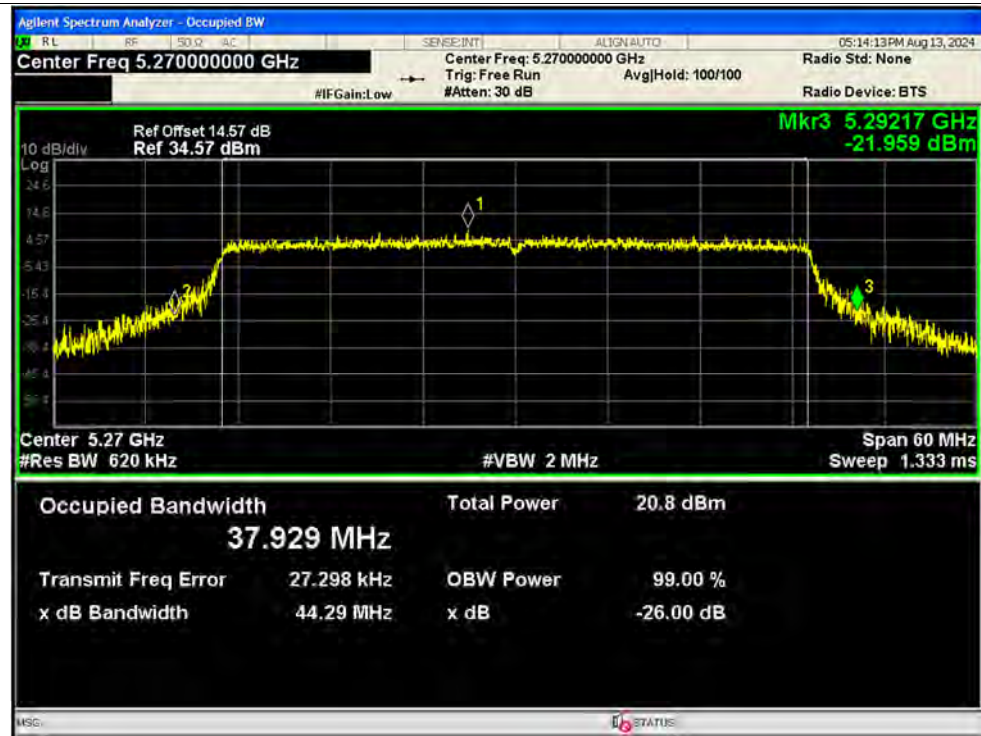
-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant1



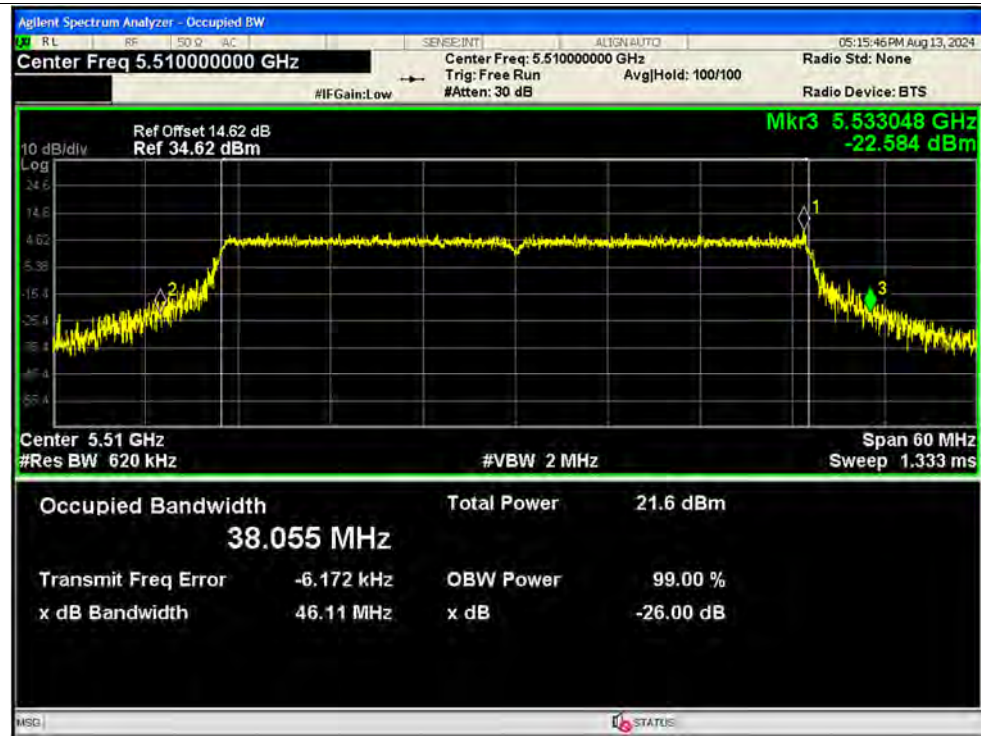
-26dB Bandwidth NVNT ax40 5270MHz Ant1



-26dB Bandwidth NVNT ax40 5310MHz Ant1

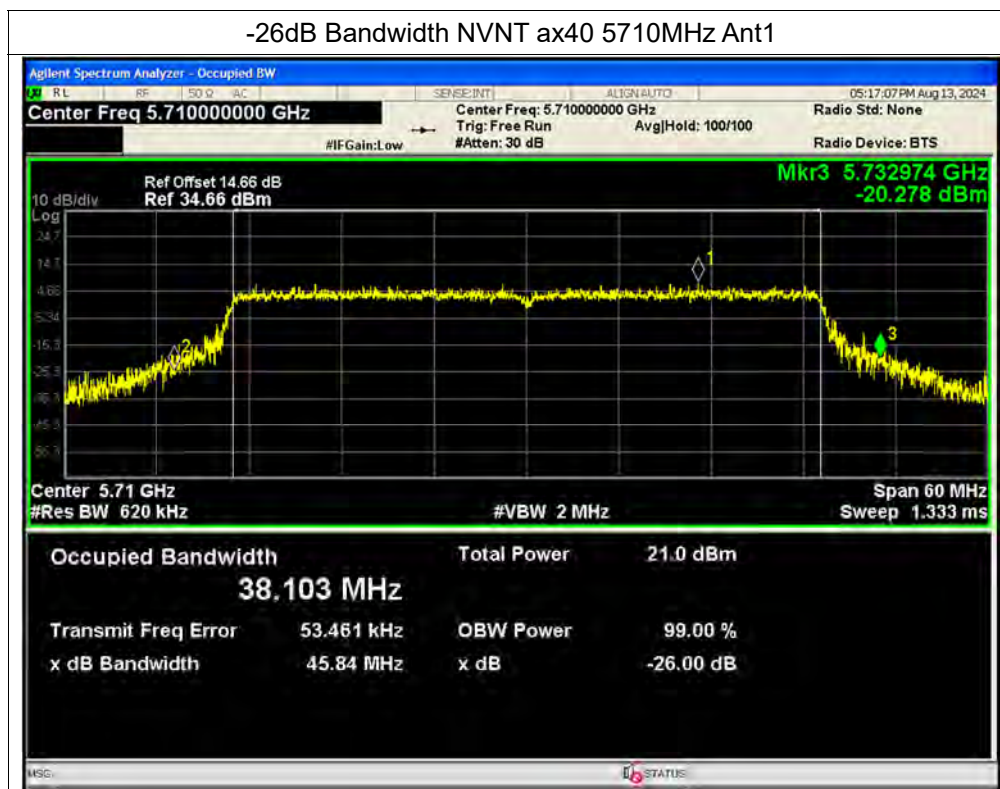


-26dB Bandwidth NVNT ax40 5510MHz Ant1



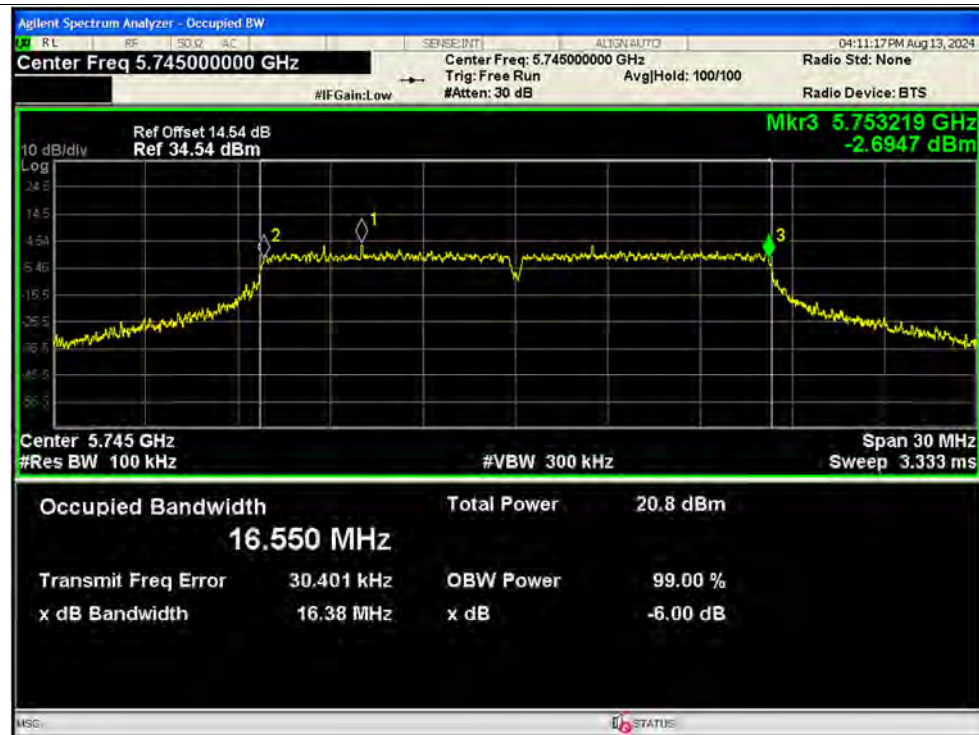
-26dB Bandwidth NVNT ax40 5550MHz Ant1



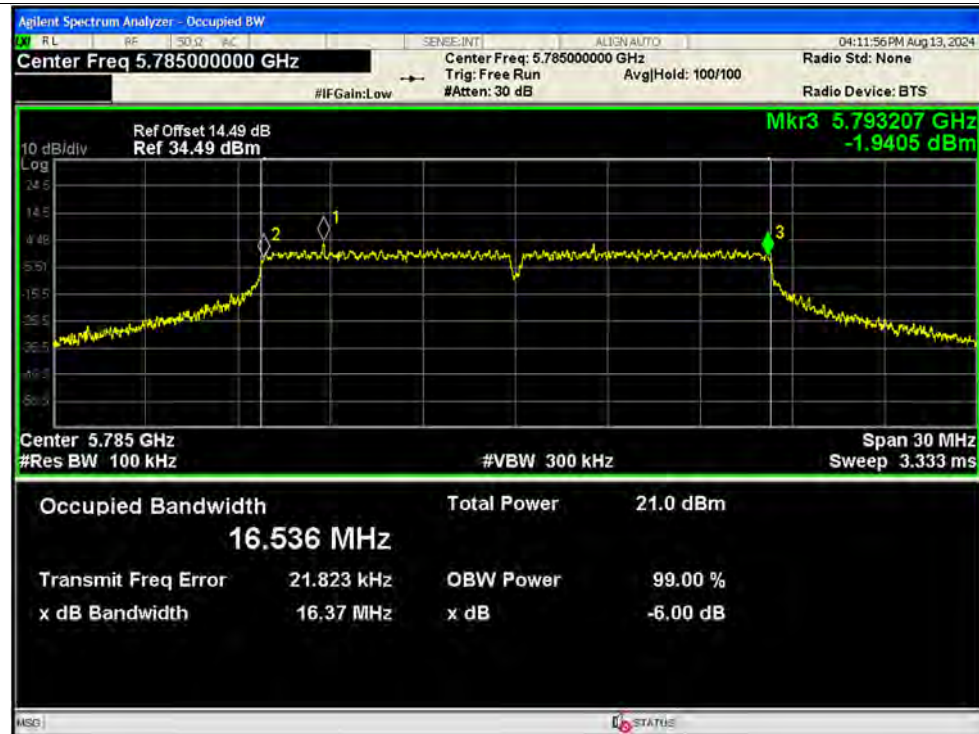


Test Graphs

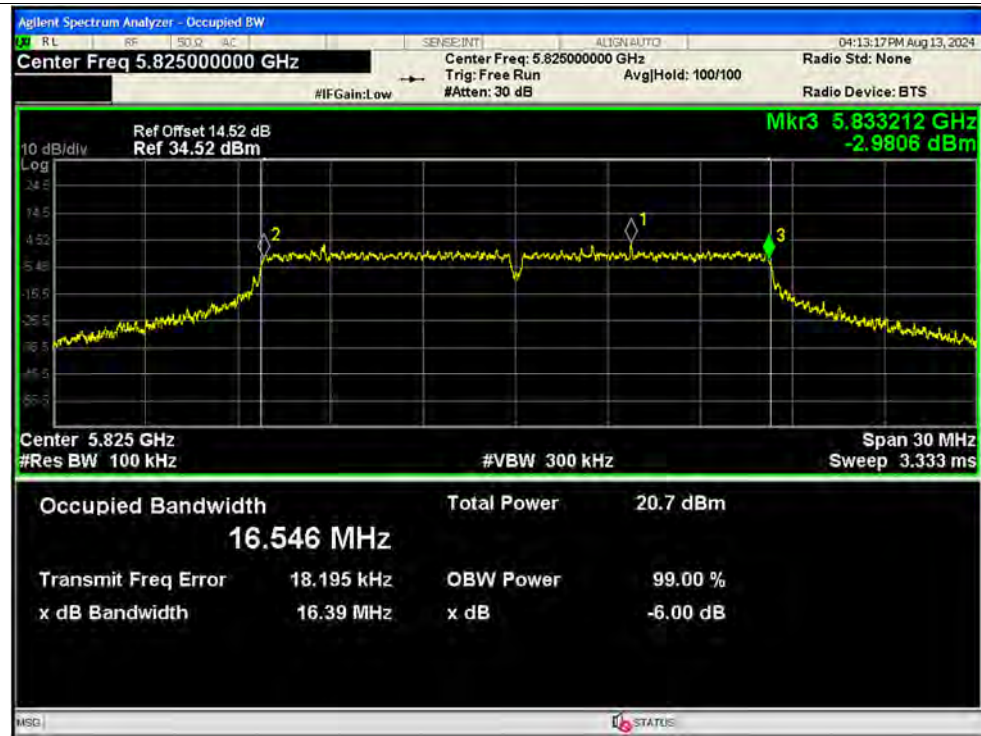
-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



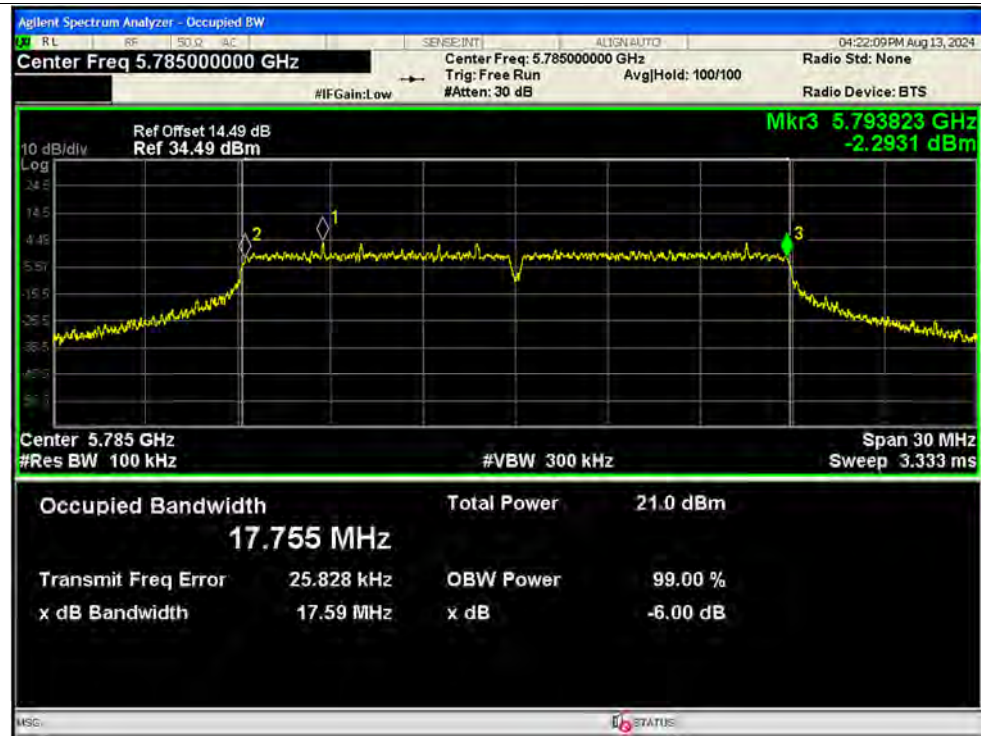
-6dB Bandwidth NVNT a 5825MHz Ant1



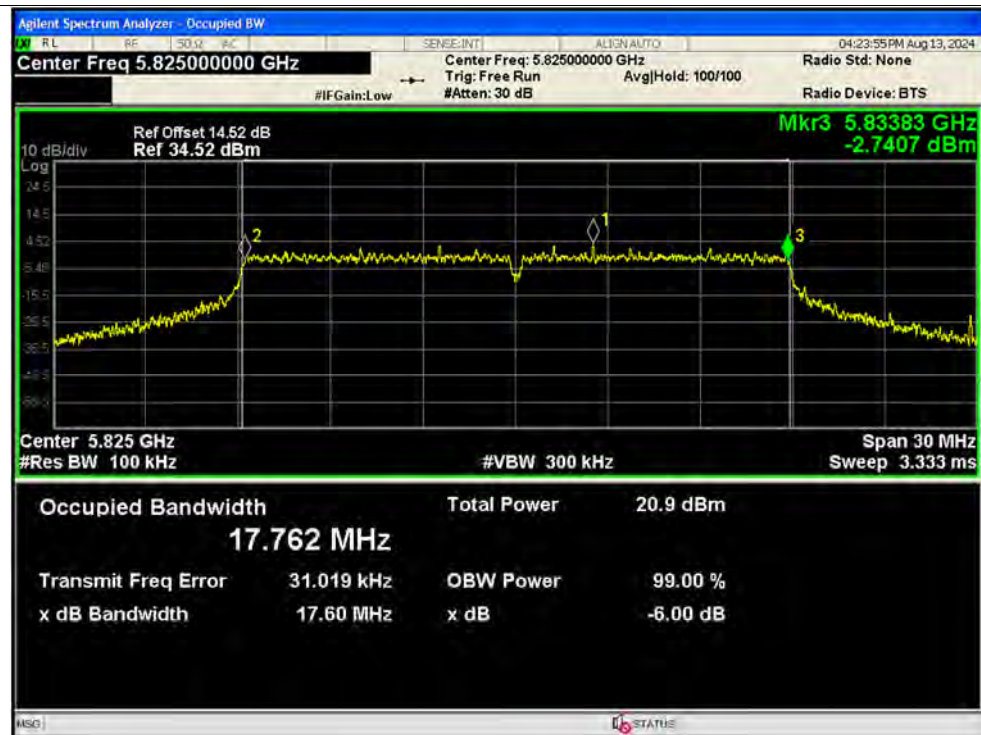
-6dB Bandwidth NVNT n20 5745MHz Ant1



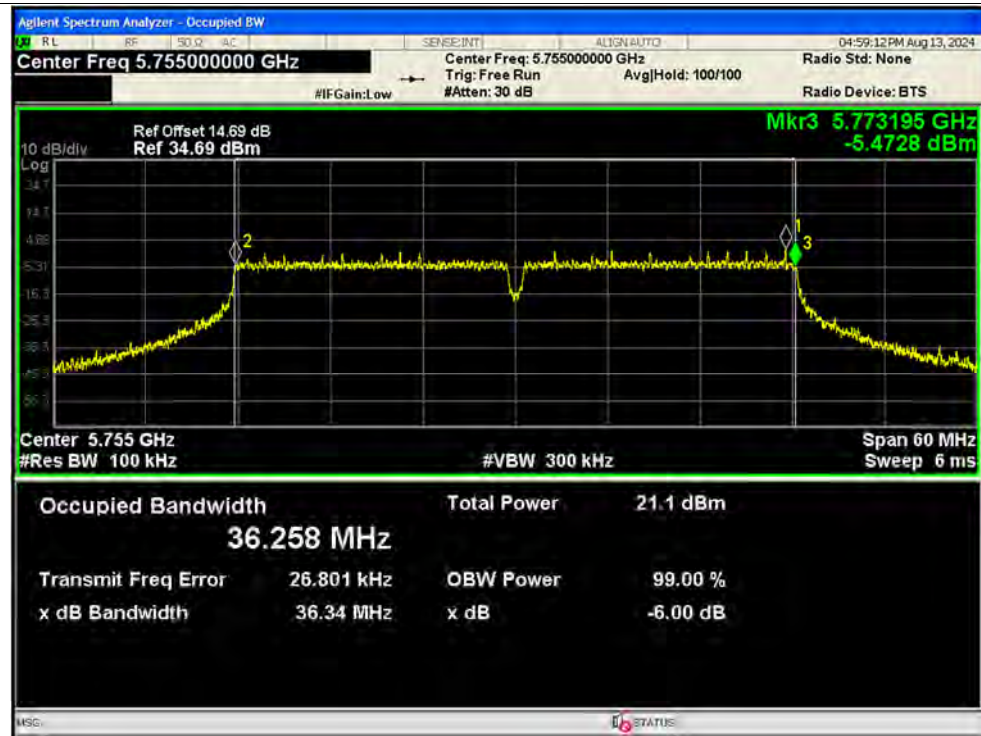
-6dB Bandwidth NVNT n20 5785MHz Ant1



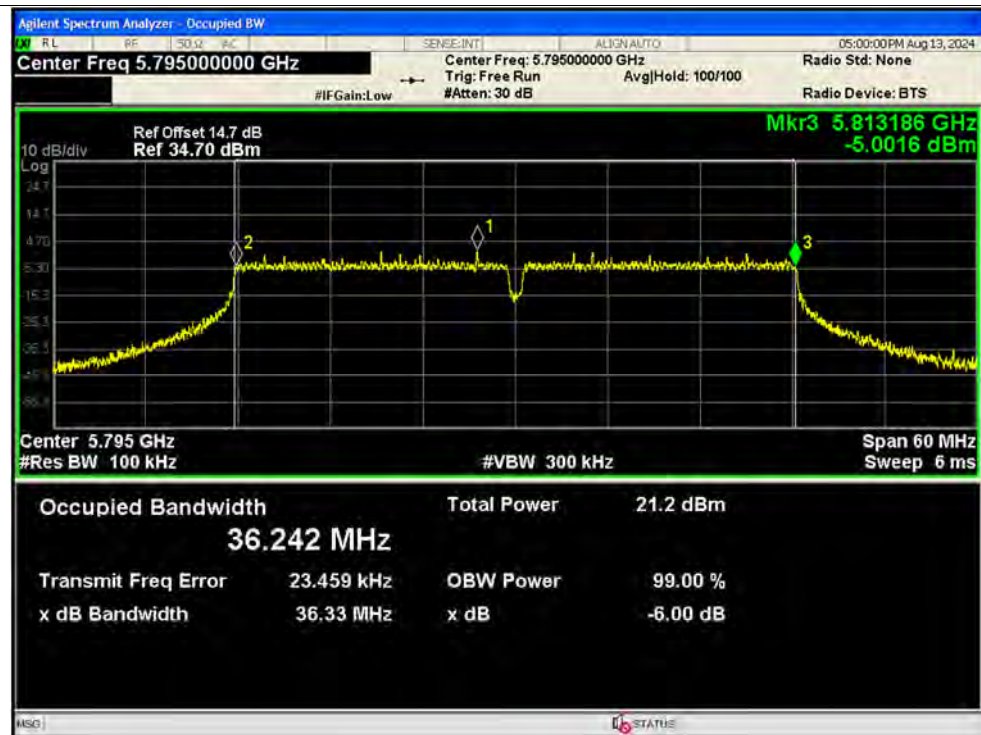
-6dB Bandwidth NVNT n20 5825MHz Ant1



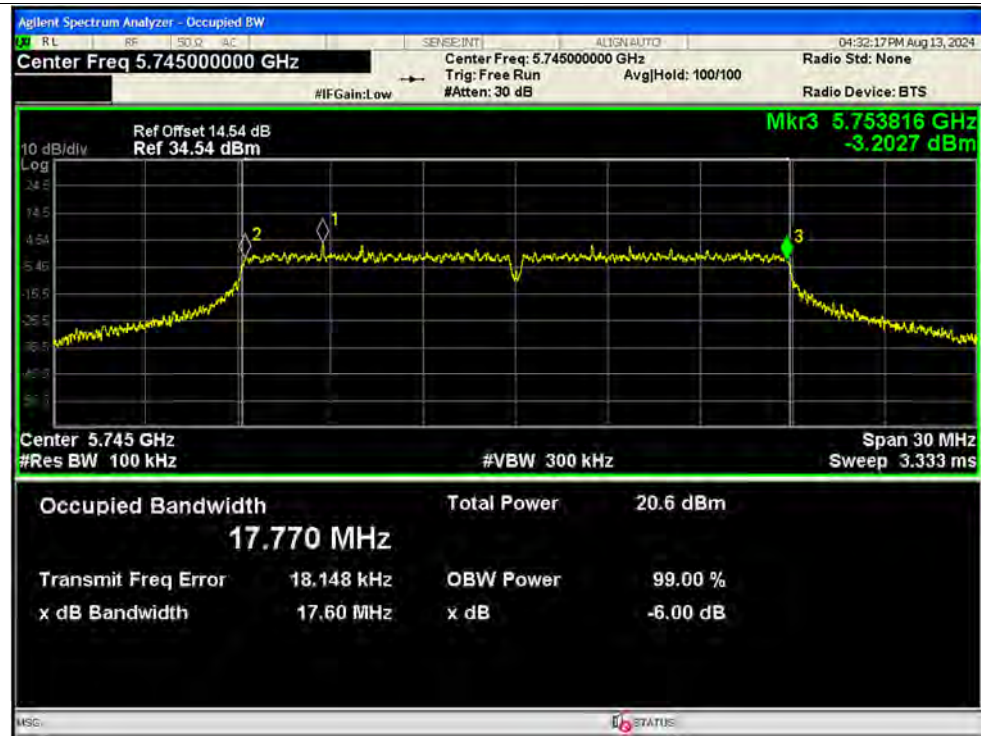
-6dB Bandwidth NVNT n40 5755MHz Ant1



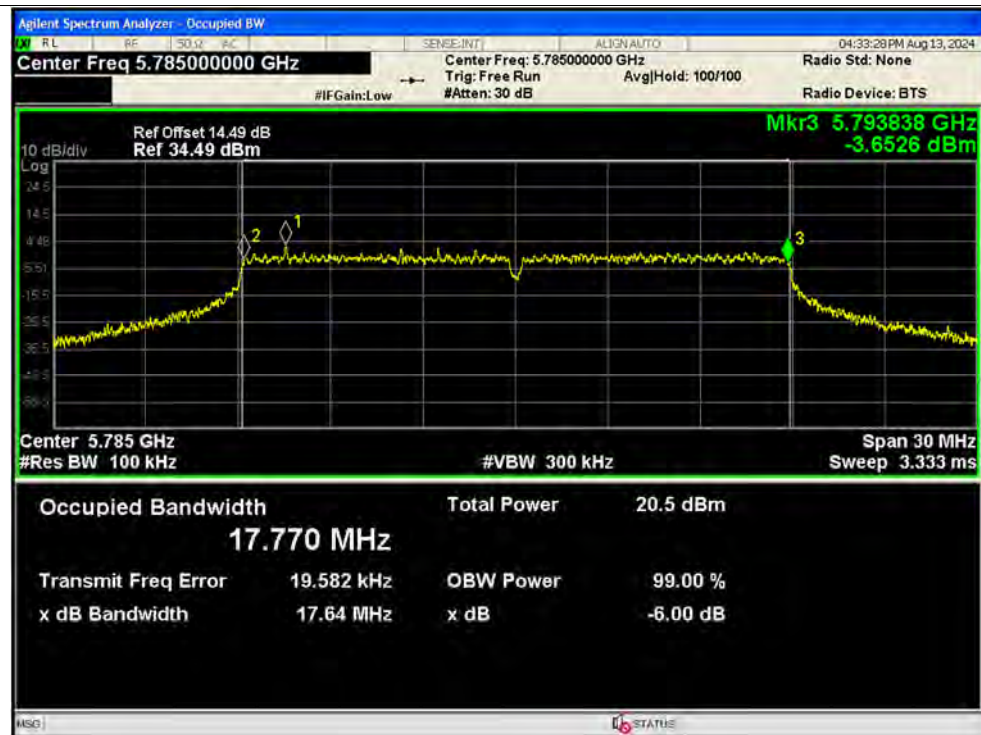
-6dB Bandwidth NVNT n40 5795MHz Ant1



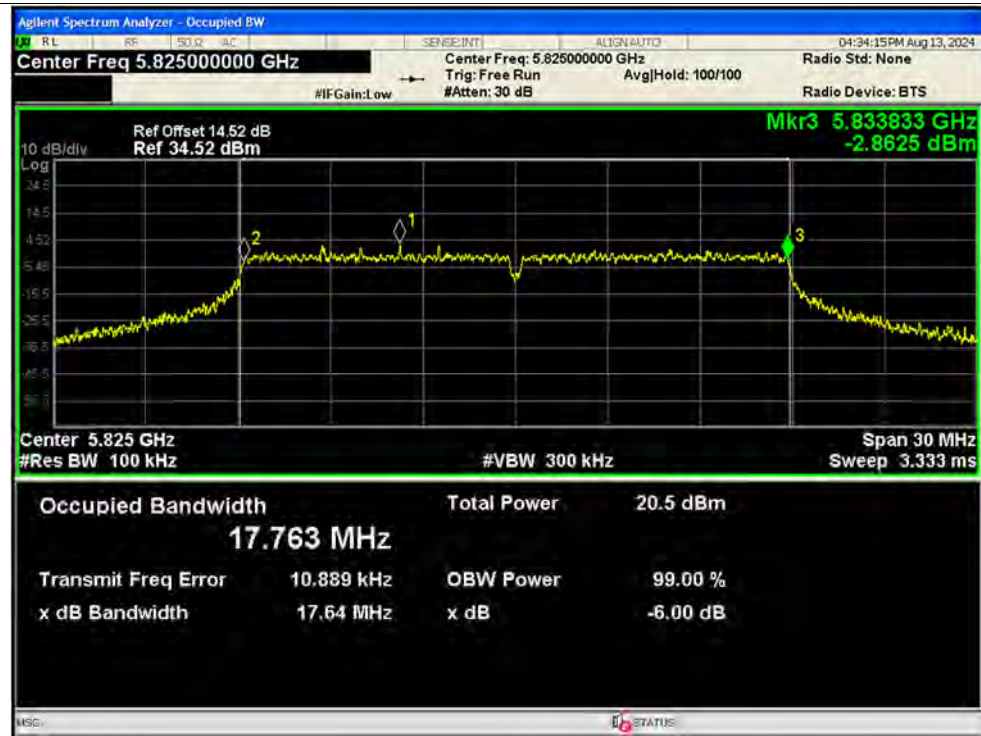
-6dB Bandwidth NVNT ac20 5745MHz Ant1



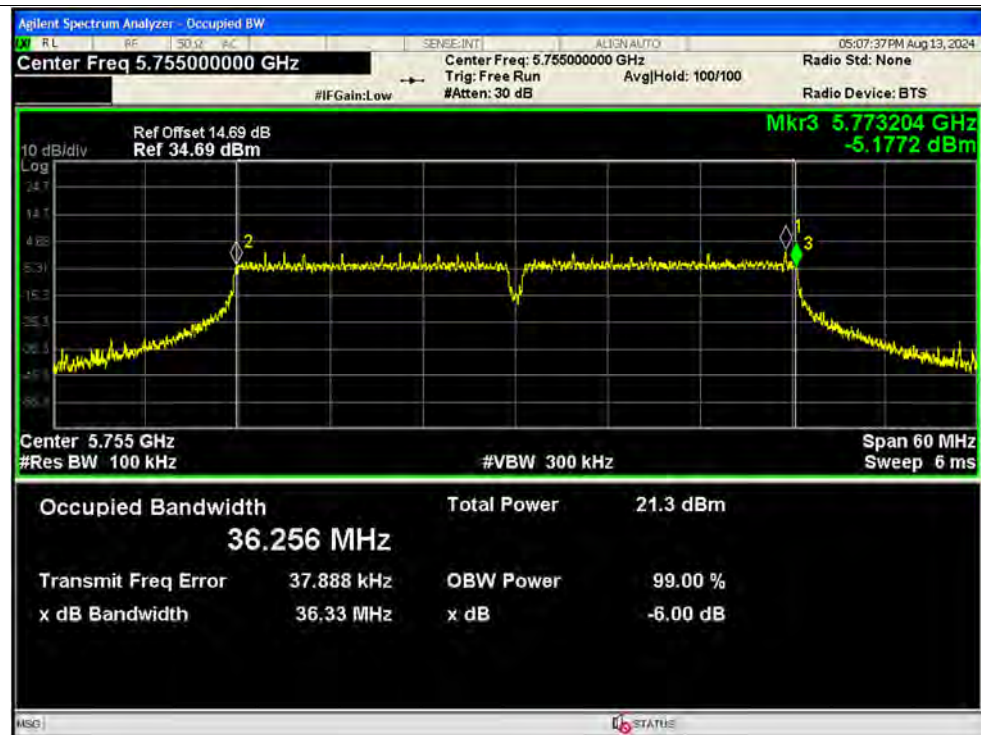
-6dB Bandwidth NVNT ac20 5785MHz Ant1



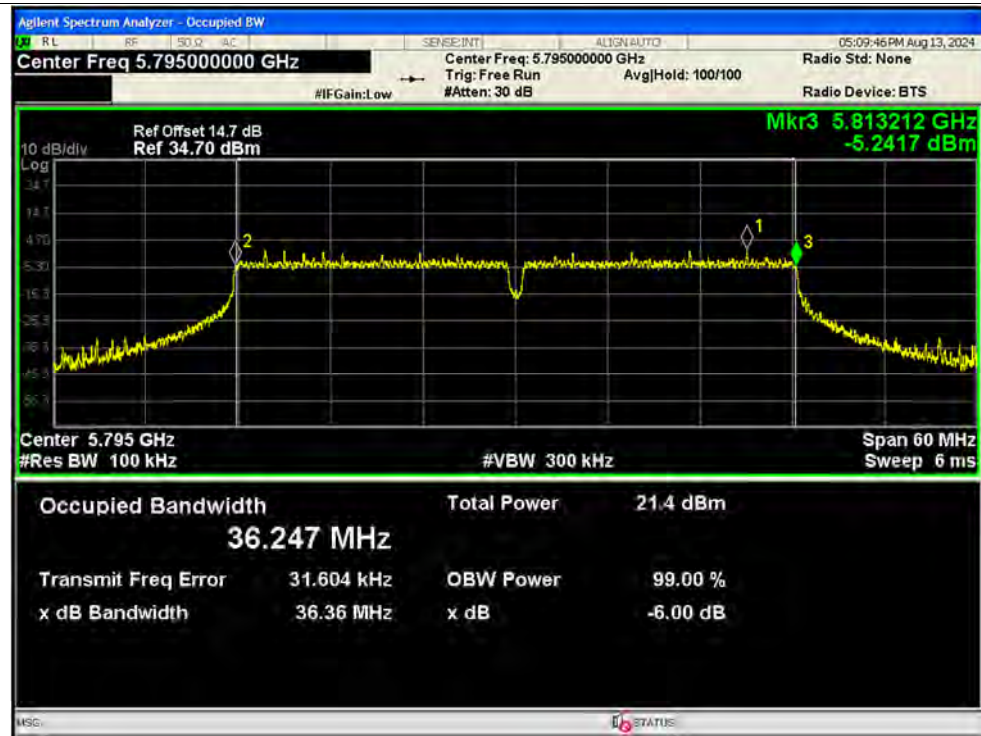
-6dB Bandwidth NVNT ac20 5825MHz Ant1



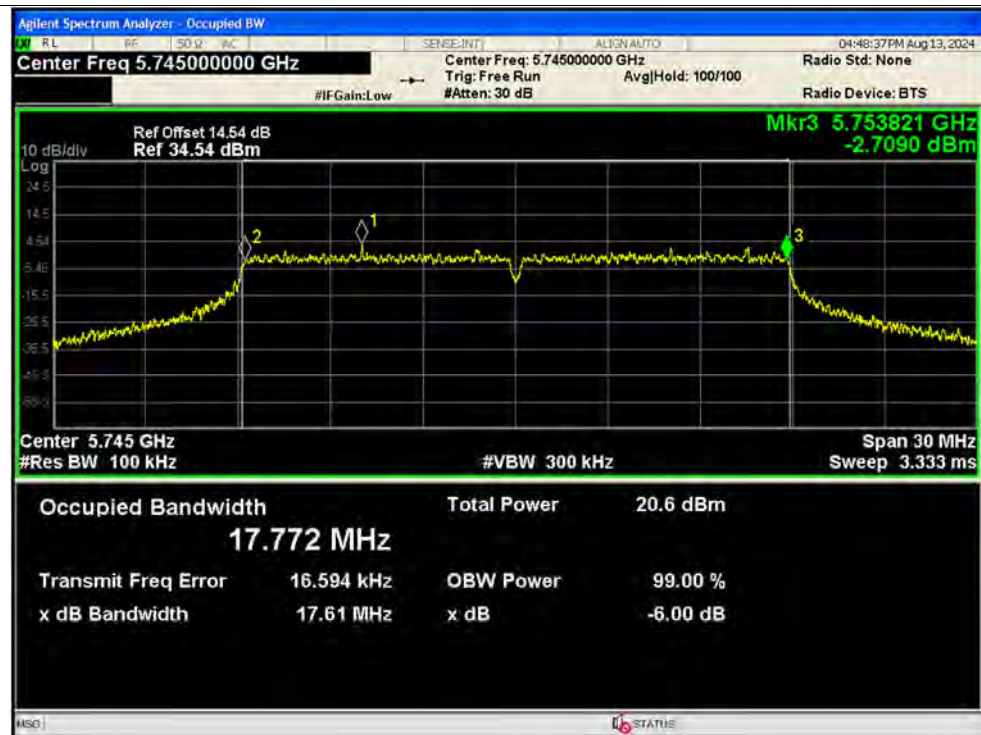
-6dB Bandwidth NVNT ac40 5755MHz Ant1



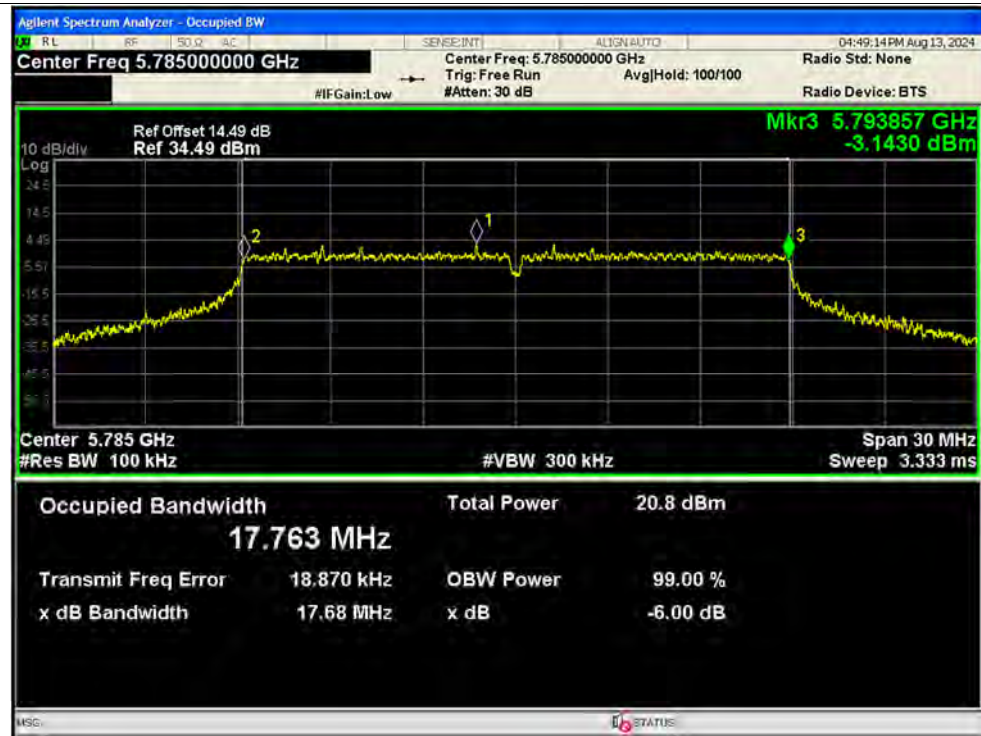
-6dB Bandwidth NVNT ac40 5795MHz Ant1



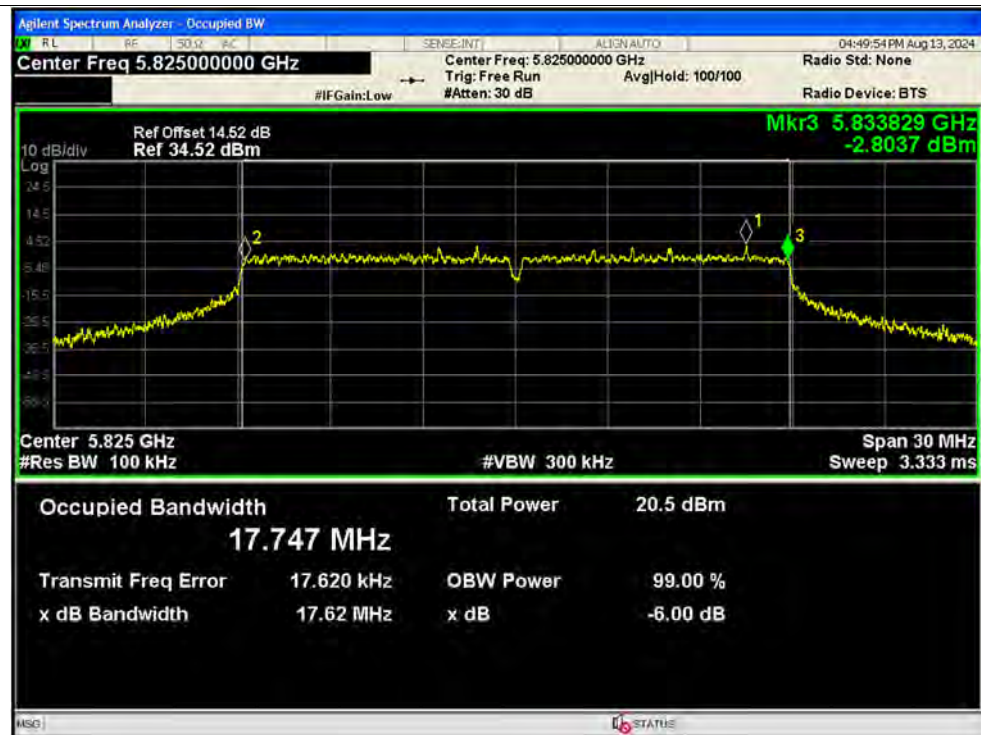
-6dB Bandwidth NVNT ax20 5745MHz Ant1



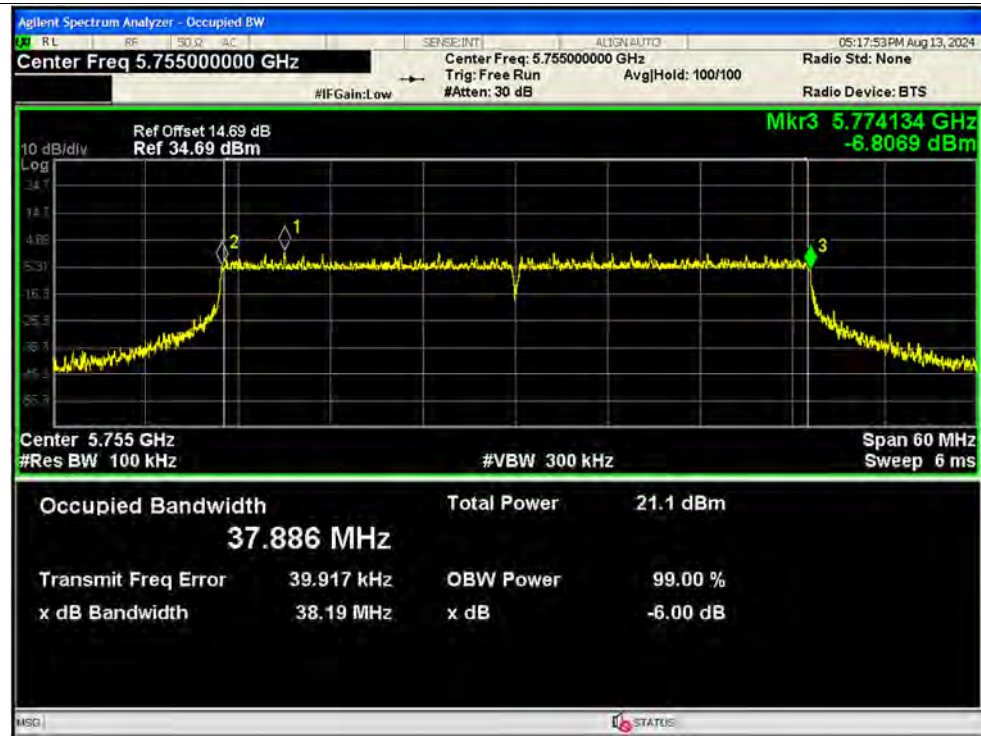
-6dB Bandwidth NVNT ax20 5785MHz Ant1



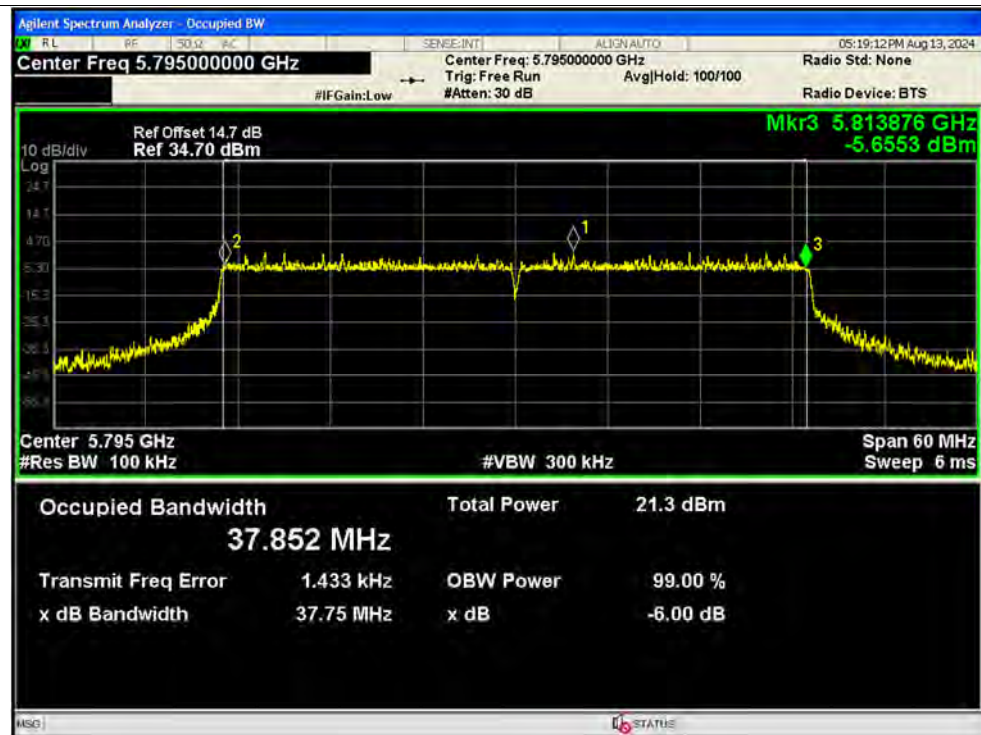
-6dB Bandwidth NVNT ax20 5825MHz Ant1



-6dB Bandwidth NVNT ax40 5755MHz Ant1



-6dB Bandwidth NVNT ax40 5795MHz Ant1



**A.4. Peak Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz) (dBm/500kHz @U-NII-3)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Verdict
NVNT	a	5180	Ant1	2.01	0.06	2.07	11	Pass
NVNT	a	5220	Ant1	2.01	0.11	2.12	11	Pass
NVNT	a	5240	Ant1	1.88	0.17	2.05	11	Pass
NVNT	a	5260	Ant1	1.79	0.11	1.9	11	Pass
NVNT	a	5300	Ant1	1.89	0.17	2.06	11	Pass
NVNT	a	5320	Ant1	1.83	0.16	1.99	11	Pass
NVNT	a	5500	Ant1	2.57	0.16	2.73	11	Pass
NVNT	a	5580	Ant1	2.35	0.11	2.46	11	Pass
NVNT	a	5720	Ant1	1.5	0.54	2.04	11	Pass
NVNT	a	5745	Ant1	-0.71	0.27	-0.44	30	Pass
NVNT	a	5785	Ant1	-0.64	0.11	-0.53	30	Pass
NVNT	a	5825	Ant1	-0.88	0.11	-0.77	30	Pass
NVNT	n20	5180	Ant1	1.81	0.17	1.98	11	Pass
NVNT	n20	5220	Ant1	1.8	0.19	1.99	11	Pass
NVNT	n20	5240	Ant1	1.45	0.19	1.64	11	Pass
NVNT	n20	5260	Ant1	1.45	0.12	1.57	11	Pass
NVNT	n20	5300	Ant1	1.54	0.19	1.73	11	Pass
NVNT	n20	5320	Ant1	1.59	0.17	1.76	11	Pass
NVNT	n20	5500	Ant1	2.29	0.17	2.46	11	Pass
NVNT	n20	5580	Ant1	1.88	0.17	2.05	11	Pass
NVNT	n20	5720	Ant1	1.06	0.19	1.25	11	Pass
NVNT	n20	5745	Ant1	-1.14	0.14	-1	30	Pass
NVNT	n20	5785	Ant1	-1.1	0.25	-0.85	30	Pass
NVNT	n20	5825	Ant1	-1.15	0.19	-0.96	30	Pass
NVNT	n40	5190	Ant1	-0.89	0.34	-0.55	11	Pass
NVNT	n40	5230	Ant1	-1.11	0.24	-0.87	11	Pass
NVNT	n40	5270	Ant1	-1.23	0.24	-0.99	11	Pass
NVNT	n40	5310	Ant1	-1.25	1.11	-0.14	11	Pass
NVNT	n40	5510	Ant1	-0.66	0.28	-0.38	11	Pass
NVNT	n40	5550	Ant1	-1.07	0.24	-0.83	11	Pass
NVNT	n40	5710	Ant1	-1.78	0.24	-1.54	11	Pass