

TEST REPORT



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1. Report No : DRTFCC2307-0105(1)

2. Customer

- Name (FCC) : Point Mobile Co., LTD. / Name (IC) : POINTMOBILE CO.,LTD
- Address (FCC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu, Seoul, South Korea, 08512
Address (IC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)

3. Use of Report : FCC & IC Certification

4. Product Name / Model Name : MOBILE COMPUTER / PM86W

FCC ID : V2X-PM86W

IC : 10664A-PM86W

5. FCC Regulation(s): Part 15.407

IC Standard(s): RSS-247 Issue 2, RSS-Gen Issue 5

Test Method used: ANSI C63.10-2013, KDB789033 D02v02r01, KDB662911 D01v02r01

6. Date of Test : 2023.05.12 ~ 2023.06.20, 2023.07.06

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : SeungMin Gil 	Name : JaeJin Lee 

2023 . 07 . 27 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2307-0105	Jul. 20, 2023	Initial issue	SeungMin Gil	JaeJin Lee
DRTFCC2307-0105(1)	Jul. 27, 2023	Revised the section 1.1	SeungMin Gil	JaeJin Lee

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1. General Information

1.1. Explanations for Reference Test Data

1.1.1. Introduction

This report includes the WLAN test data of FCC ID: V2X-PM86 / IC: 10664A-PM86 with reference to KDB 484596 D01v01. The applicant takes full responsibility that the test data as reference section below represents compliance for FCC ID: V2X-PM86W / IC: 10664A-PM86W.

Reference FCC ID / IC	Exhibit type	Separated FCC ID / IC
FCC ID: V2X-PM86 / IC: 10664A-PM86	Original Grant / New Single Certification	FCC ID: V2X-PM86W / IC: 10664A-PM86W

1.1.2. Explain the Differences

FCC ID: V2X-PM86W / IC: 10664A-PM86W is same the internal printed circuit board with FCC ID: V2X-PM86 / IC: 10664A-PM86. For FCC ID: V2X-PM86W / IC: 10664A-PM86W, WWAN transmitter has been removed. (It does not changed the SW/HW component of WLAN.)

1.1.3. Spot Check Verification Data

Test data from the variant device(FCC ID: V2X-PM86W / IC: 10664A-PM86W)

Test item	Mode	Tones/ RU	TX Freq. (MHz)	Detector Mode	Frequency (MHz)	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
Radiated Band edge	802.11ax (HE80)	SU / -	5 530	Average	5 456.57	46.65	3.48	N/A	N/A	50.13	54.00	3.87
Radiated Spurious emission	802.11ax (HE80)	SU / -	5 530	Average	11 059.49	34.62	11.08	N/A	N/A	45.70	54.00	8.30

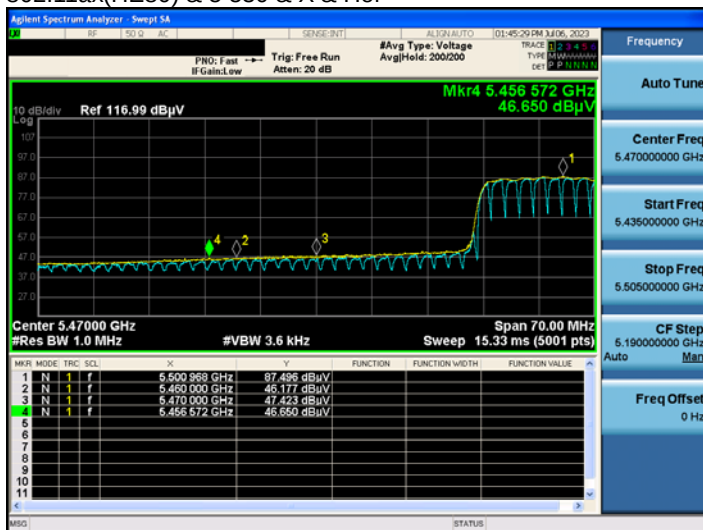
Note: Sample Calculation.

Margin = Limit – Result / Result = Reading + TF+ DCCF + DCF / TF = AF + CL + HL + AL – AG

Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

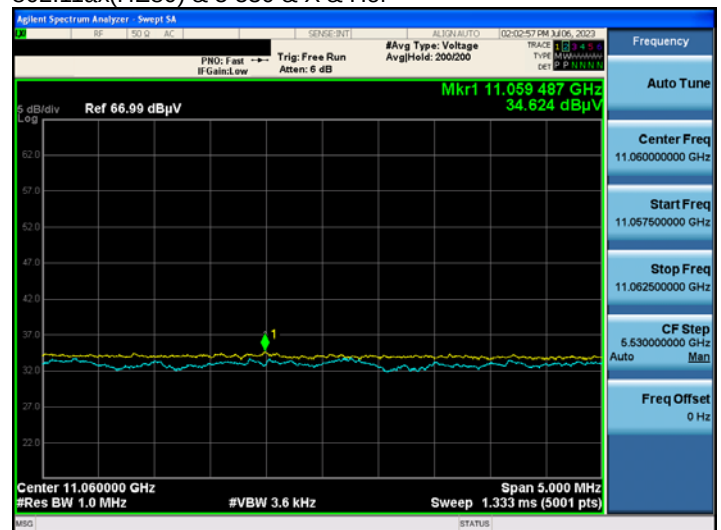
Radiated Band edge (Plot: Reading Value)

802.11ax(HE80) & 5 530 & X & Hor



Radiated Spurious emission (Plot: Reading Value)

802.11ax(HE80) & 5 530 & X & Hor



Comparison results between reference device and variant device

Equipment Class (capability)	FCC Part/ RSS Std.	Mode	Tones/ RU	TX Freq. (MHz)	Test item	Detector Mode	Reference FCC ID: V2X-PM86 / IC: 10664A-PM86		Separated FCC ID: V2X-PM86W / IC: 10664A-PM86W		Limit (dBuV/m)	Deviation (dB)
							Frequency (MHz)	Result (dBuV/m)	Frequency (MHz)	Result (dBuV/m)		
NII (WLAN)	15.407 / RSS-247	802.11ax (HE80)	SU / -	5 530	Radiated Band edge	Average	5 459.00	49.80	5 456.57	50.13	54.00	0.33
		802.11ax (HE80)	SU / -	5 530	Radiated Spurious emission	Average	11 059.81	44.78	11 059.49	45.70	54.00	0.92

Note1: The spot check were performed based on worst-case results reported in the original test report.
The spot check test results show good correlation between two products.

1.1.4. Reference Section

Reference FCC ID: V2X-PM86 / IC: 10664A-PM86

Equipment Class	FCC Part/ RSS Std.	Capability	Band(MHz)	Exhibit type	Report title	Reference Sections
NII	15.407 / RSS-247	WLAN	5 180 ~ 5 240 5 260 ~ 5 320 5 500 ~ 5 720 5 745 ~ 5 825	Original Grant/ New Single Certification	NII	All

1.2. Description of EUT

Equipment Class	Unlicensed National Information Infrastructure TX(NII)
Product Name	MOBILE COMPUTER
Model Name	PM86W
Add Model Name	-
Firmware Version Identification Number	86.00
EUT Serial Number ^{Note1}	Conducted: 23070A0067, Radiated: 23070A0126
EUT Serial Number ^{Note2}	Radiated: 23070A0070
Power Supply	DC 3.8 V
Modulation Technique	OFDM, OFDMA
Antenna Specification	Antenna type: LDS Antenna Antenna gain: Refer to the clause 3 in test report.

Note1: Reference FCC ID: V2X-PM86 / IC: 10664A-PM86

Note2: Separated FCC ID: V2X-PM86W / IC: 10664A-PM86W

Band	Mode	Tx. frequency(MHz)	Max. conducted power(dBm)	Antenna gain(dBi)	Max. e.i.r.p (dBm)
U-NII 1	802.11ax(HE20)_OFDMA	5 180 ~ 5 240	15.16	3.28	18.44
	802.11ax(HE20)_OFDM	5 180 ~ 5 240	14.27	3.28	17.55
	802.11ax(HE40)_OFDMA	5 190 ~ 5 230	16.22	3.28	19.50
	802.11ax(HE40)_OFDM	5 190 ~ 5 230	16.78	3.28	20.06
	802.11ax(HE80)_OFDMA	5 210	15.33	3.28	18.61
	802.11ax(HE80)_OFDM	5 210	15.47	3.28	18.75
U-NII 2A	802.11ax(HE20)_OFDMA	5 260 ~ 5 320	18.22	2.24	20.46
	802.11ax(HE20)_OFDM	5 260 ~ 5 320	18.28	2.24	20.52
	802.11ax(HE40)_OFDMA	5 270 ~ 5 310	17.01	2.24	19.25
	802.11ax(HE40)_OFDM	5 270 ~ 5 310	16.84	2.24	19.08
	802.11ax(HE80)_OFDMA	5 290	15.76	2.24	18.00
	802.11ax(HE80)_OFDM	5 290	15.44	2.24	17.68
U-NII 2C	802.11ax(HE20)_OFDMA	5 500 ~ 5 720	18.32	3.54	21.86
	802.11ax(HE20)_OFDM	5 500 ~ 5 720	18.34	3.54	21.88
	802.11ax(HE40)_OFDMA	5 510 ~ 5 710	17.41	3.54	20.95
	802.11ax(HE40)_OFDM	5 510 ~ 5 710	17.23	3.54	20.77
	802.11ax(HE80)_OFDMA	5 530 ~ 5 690	16.80	3.54	20.34
	802.11ax(HE80)_OFDM	5 530 ~ 5 690	15.65	3.54	19.19
U-NII 3	802.11ax(HE20)_OFDMA	5 745 ~ 5 825	18.97	2.75	21.72
	802.11ax(HE20)_OFDM	5 745 ~ 5 825	18.68	2.75	21.43
	802.11ax(HE40)_OFDMA	5 755 ~ 5 795	17.72	2.75	20.47
	802.11ax(HE40)_OFDM	5 755 ~ 5 795	17.13	2.75	19.88
	802.11ax(HE80)_OFDMA	5 775	16.68	2.75	19.43
	802.11ax(HE80)_OFDM	5 775	16.00	2.75	18.75

1.3. Declaration by the applicant / manufacturer

N/A

1.4. Testing Laboratory

Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014.		
- FCC & IC MRA Designation No. : KR0034		
- ISED#: 5740A		
www.dtnet.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

1.5. Testing Environment

Ambient Condition	
▪ Temperature	+21 °C ~ +24 °C
▪ Relative Humidity	+40 % ~ +43 %

1.6. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014 and ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Antenna-port conducted emission	1.1 dB (The confidence level is about 95 %, $k = 2$)
AC power-line conducted emission	3.4 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz Below)	4.8 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz ~ 18 GHz)	5.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (18 GHz Above)	5.2 dB (The confidence level is about 95 %, $k = 2$)

1.7. Test Equipment List

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	22/06/24	23/06/24	MY46471622
Spectrum Analyzer	KEYSIGHT	N9020A	22/12/16	23/12/16	
Spectrum Analyzer	Agilent Technologies	N9020A	22/12/16	23/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	22/06/24	23/06/24	US47360812
Spectrum Analyzer	KEYSIGHT	N9030B	22/12/16	23/12/16	
DC Power Supply	Agilent Technologies	66332A	22/06/24	23/06/24	US37474125
Multimeter	FLUKE	17B+	22/12/16	23/12/16	
Signal Generator	Rohde Schwarz	SMBV100A	22/12/16	23/12/16	255571
Signal Generator	ANRITSU	MG3695C	22/12/16	23/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	22/12/16	23/12/16	120612-1
Thermohygrometer	BODYCOM	BJ5478	22/12/16	23/12/16	120612-2
Thermohygrometer	BODYCOM	BJ5478	22/06/24	23/06/24	N/A
Loop Antenna	ETS-Lindgren	6502	22/04/22	24/04/22	
Hybrid Antenna	Schwarzbeck	VULB 9160	22/12/16	23/12/16	3362
Horn Antenna	ETS-Lindgren	3117	22/06/24	23/06/24	00143278
Horn Antenna	A.H.Systems Inc.	SAS-574	22/06/24	23/06/24	
PreAmplifier	tsj	MLA-0118-B01-40	22/12/16	23/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	22/06/24	23/06/24	16966-10728
PreAmplifier	H.P	8447D	22/12/16	23/12/16	
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	22/06/24	23/06/24	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	22/06/24	23/06/24	
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	22/06/24	23/06/24	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	22/06/24	23/06/24	
Attenuator	Aeroflex/Weinschel	56-3	22/06/24	23/06/24	Y2370
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	3
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	2
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	
Attenuator	Aeroflex/Weinschel	86-10-11	22/06/24	23/06/24	408
Attenuator	Aeroflex/Weinschel	86-10-11	22/06/24	23/06/24	
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A MA2411B	22/12/16	23/12/16	1338004 1911481
EMI Test Receiver	ROHDE&SCHWARZ	ESCi7	23/01/31	24/01/31	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	22/08/22	23/08/22	101333
LISN	SCHWARZBECK	NSLK 8128 RC	22/10/26	23/10/26	8128 RC-387
Thermo Hygro Meter	TESTO	608-H1	23/01/13	24/01/13	45084791
Cable	Dt&C	Cable	23/01/04	24/01/04	G-2
Cable	HUBER+SUHNER	SUCOFLEX 100	23/01/04	24/01/04	G-3
Cable	Dt&C	Cable	23/01/04	24/01/04	G-4
Cable	OMT	YSS21S	23/01/04	24/01/04	G-5
Cable	Junkosha	MWX241	23/01/03	24/01/03	mmW-1
Cable	Junkosha	MWX241	23/01/03	24/01/03	mmW-4
Cable	HUBER+SUHNER	SUCOFLEX100	23/01/04	24/01/04	M-01
Cable	HUBER+SUHNER	SUCOFLEX100	23/01/04	24/01/04	M-02
Cable	JUNKOSHA	MWX241/B	23/01/04	24/01/04	M-03
Cable	JUNKOSHA	J12J101757-00	23/01/04	24/01/04	M-07
Cable	HUBER+SUHNER	SUCOFLEX106	23/01/04	24/01/04	M-09
Cable	Dt&C	Cable	23/01/04	24/01/04	RFC-69
Test Software	tsj	Radiated Emission Measurement	NA	NA	Version 2.00.0147
Test Software	tsj	Noise Terminal Measurement	NA	NA	Version 2.00.0185

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

2. Test Methodology

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB789033 D02v02r01 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB789033 D02v02r01. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

2.3. General Test Procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB789033 D02v02r01.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB789033 D02v02r01. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on KDB789033 D02v02r01.

The EUT is placed on a non-conductive table, which is 0.8 m above ground plane. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 1 m or 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axis.

2.4. Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.5. Description of Test Modes

The EUT has been tested with the operating condition for maximizing the emission characteristics. A test program is used to control the EUT for staying in continuous transmitting.

Transmitting Configuration of EUT

Mode	SISO		MIMO (CDD)	MIMO (SDM)
	Ant 1	Ant 2	Ant 1 & 2	Ant 1 & 2
	Data rate			
802.11ax(HE20) 26T ~ 106T	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(2SS)
802.11ax(HE20) 242T , SU	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(2SS)
802.11ax(HE40) 26T ~ 106T	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(2SS)
802.11ax(HE40) 242T ~ 484T , SU	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(2SS)
802.11ax(HE80) 26T ~ 106T	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(2SS)
802.11ax(HE80) 242T ~ 996T , SU	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(1SS)	MCS 0 ~ 11(2SS)

Note1: SDM = Spatial Diversity Multiplexing, CDD = Cycle Delay Diversity, SS = Spatial Streams

EUT Operation test setup

- **Test Software:** Using the adb command
- **Power setting:** Refer to the table next page.

Tested frequency and power setting

Tones(RU Index)	Band	802.11ax(HE20)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 9
26(0, 4, 8)	U-NII 1	36	5 180	4
		40	5 200	4
		48	5 240	4
	U-NII 2A	52	5 260	7
		60	5 300	7
		64	5 320	7
	U-NII 2C	100	5 500	7
		116	5 580	7
		140	5 700	7
		144	5 720	7
	U-NII 3	149	5 745	15
		157	5 785	15
		165	5 825	15
52(37, 38, 40)	U-NII 1	36	5 180	5
		40	5 200	5
		48	5 240	5
	U-NII 2A	52	5 260	9
		60	5 300	9
		64	5 320	9
	U-NII 2C	100	5 500	9
		116	5 580	9
		140	5 700	9
		144	5 720	9
	U-NII 3	149	5 745	15
		157	5 785	15
		165	5 825	15
106(53, 54)	U-NII 1	36	5 180	8
		40	5 200	8
		48	5 240	8
	U-NII 2A	52	5 260	12
		60	5 300	12
		64	5 320	12
	U-NII 2C	100	5 500	12
		116	5 580	12
		140	5 700	12
		144	5 720	12
	U-NII 3	149	5 745	15
		157	5 785	15
		165	5 825	15

Tones(RU Index)	Band	802.11ax(HE20)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 11
242(61)	U-NII 1	36	5 180	12
		40	5 200	12
		48	5 240	12
	U-NII 2A	52	5 260	15
		60	5 300	15
		64	5 320	15
	U-NII 2C	100	5 500	15
		116	5 580	15
		140	5 700	14
		144	5 720	15
	U-NII 3	149	5 745	15
		157	5 785	15
		165	5 825	15
SU	U-NII 1	36	5 180	11
		40	5 200	11
		48	5 240	11
	U-NII 2A	52	5 260	15
		60	5 300	15
		64	5 320	15
	U-NII 2C	100	5 500	15
		116	5 580	15
		140	5 700	15
		144	5 720	15
	U-NII 3	149	5 745	15
		157	5 785	15
		165	5 825	15

Tones(RU Index)	Band	802.11ax(HE40)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 9
26(0, 8, 17)	U-NII 1	38	5 190	4
		46	5 230	4
	U-NII 2A	54	5 270	7
		62	5 310	7
	U-NII 2C	102	5 510	7
		110	5 550	7
		134	5 670	7
		142	5 710	7
	U-NII 3	151	5 755	14
		159	5 795	14
52(37, 40, 44)	U-NII 1	38	5 190	5
		46	5 230	5
	U-NII 2A	54	5 270	9
		62	5 310	9
	U-NII 2C	102	5 510	9
		110	5 550	9
		134	5 670	9
		142	5 710	9
	U-NII 3	151	5 755	14
		159	5 795	14
106(53, 54, 56)	U-NII 1	38	5 190	8
		46	5 230	8
	U-NII 2A	54	5 270	12
		62	5 310	12
	U-NII 2C	102	5 510	12
		110	5 550	12
		134	5 670	12
		142	5 710	12
	U-NII 3	151	5 755	14
		159	5 795	14

Tones(RU Index)	Band	802.11ax(HE40)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 11
242(61, 62)	U-NII 1	38	5 190	12
		46	5 230	12
	U-NII 2A	54	5 270	14
		62	5 310	14
	U-NII 2C	102	5 510	14
		110	5 550	14
		134	5 670	14
		142	5 710	14
	U-NII 3	151	5 755	14
		159	5 795	14
484(65)	U-NII 1	38	5 190	14
		46	5 230	14
	U-NII 2A	54	5 270	14
		62	5 310	14
	U-NII 2C	102	5 510	14
		110	5 550	14
		134	5 670	14
		142	5 710	14
	U-NII 3	151	5 755	14
		159	5 795	14
SU	U-NII 1	38	5 190	14
		46	5 230	14
	U-NII 2A	54	5 270	14
		62	5 310	14
	U-NII 2C	102	5 510	14
		110	5 550	14
		134	5 670	14
		142	5 710	14
	U-NII 3	151	5 755	14
		159	5 795	14

Tones(RU Index)	Band	802.11ax(HE80)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 9
26(0, 18, 36)	U-NII 1	42	5 210	4
	U-NII 2A	58	5 290	7
	U-NII 2C	106	5 530	7
		138	5 690	7
	U-NII 3	155	5 775	13
52(37, 44, 52)	U-NII 1	42	5 210	5
	U-NII 2A	58	5 290	9
	U-NII 2C	106	5 530	9
		138	5 690	9
	U-NII 3	155	5 775	13
106(53, 56, 60)	U-NII 1	42	5 210	8
	U-NII 2A	58	5 290	12
	U-NII 2C	106	5 530	12
		138	5 690	12
	U-NII 3	155	5 775	13

Tones(RU Index)	Band	802.11ax(HE80)		
		Channel	Frequency (MHz)	Power Setting
				MCS 0 ~ MCS 11
242(61, 62, 64)	U-NII 1	42	5 210	12
	U-NII 2A	58	5 290	13
	U-NII 2C	106	5 530	13
		138	5 690	13
	U-NII 3	155	5 775	13
484(65, 66)	U-NII 1	42	5 210	13
	U-NII 2A	58	5 290	13
	U-NII 2C	106	5 530	13
		138	5 690	13
	U-NII 3	155	5 775	13
996(67)	U-NII 1	42	5 210	13
	U-NII 2A	58	5 290	13
	U-NII 2C	106	5 530	13
		138	5 690	13
	U-NII 3	155	5 775	13
SU	U-NII 1	42	5 210	13
	U-NII 2A	58	5 290	13
	U-NII 2C	106	5 530	13
		138	5 690	13
	U-NII 3	155	5 775	13

3. Antenna Requirements

■ According to Part 15.203

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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.”

**The antenna is attached on the device by means of unique coupling method.
Therefore this E.U.T complies with the requirement of Part 15.203**

Directional antenna gain:

Bands	SISO		MIMO (CDD) ^{Note 1.}	MIMO (SDM) ^{Note 2}
	ANT 1 [dBi]	ANT 2 [dBi]	Directional Gain[dBi]	Directional Gain[dBi]
U-NII 1	-0.24	0.75	3.28	0.28
U-NII 2A	-1.43	-0.15	2.24	-0.74
U-NII 2C	-0.07	1.09	3.54	0.55
U-NII 3	-0.70	0.15	2.75	-0.25

Note 1. Directional gain(correlated signal with unequal antenna gain and equal transmit power)

$$10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N^{ANT}] \text{ dBi}$$

Note 2. Directional gain(completely uncorrelated signal with unequal antenna gain and equal transmit power)

$$10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N^{ANT}] \text{ dBi}$$

4. Summary of Test Result

FCC Part Section(s)	RSS Section(s)	Test Description	Limit	Test Condition	Status Note 1
15.407(a)	RSS-247[6.2]	Emission Bandwidth (26 dB Bandwidth)	N/A	Conducted	C
15.407(e)	RSS-247[6.2]	Minimum Emission Bandwidth (6 dB Bandwidth)	> 500 kHz in 5 725 ~ 5 850 MHz		C
15.407(a)	RSS-247[6.2]	Maximum Conducted Output Power	Part 15.407(a) (Refer to section 5.3)		C
15.407(a)	RSS-247[6.2]	Peak Power Spectral Density	Part 15.407(a) (Refer to section 5.4)		C
-	RSS-Gen[6.7]	Occupied Bandwidth (99 %)	N/A		C
15.407(h)	RSS-247[6.3]	Dynamic Frequency Selection	Part 15.407(h) (Refer to the DFS test report)		C Note 4
15.205 15.209 15.407(b)	RSS-Gen[8.9] RSS-Gen[8.10] RSS-247[6.2]	Unwanted Emissions	Part 15.209, 15.407(b) (Refer to section 5.5)	Radiated	C Note 3
15.207	RSS-Gen[8.8]	AC Conducted Emissions	Part 15.207 (Refer to section 5.6)	AC Line Conducted	C
15.203	-	Antenna Requirements	Part 15.203 (Refer to section 3)	-	C
Note 1: C = Comply NC = Not Comply NT = Not Tested NA = Not Applicable Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS. Note 3: This test item was performed in three orthogonal EUT positions and the worst case data was reported. Note 4: Refer to the DFS test report.					

5. Test Result

5.1 Emission Bandwidth (26 dB Bandwidth) & Occupied BW (99 %)

■ Test Requirements

- Emission Bandwidth (26 dB Bandwidth)

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The 26 dB bandwidth is used to determine the conducted output power limit.

- Occupied BW (99 %)

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured

■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

- Emission Bandwidth (26 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB789033 D02v02r01**.

1. Set resolution bandwidth (RBW) = approximately **1 %** of the EBW.
2. Set the video bandwidth (**VBW**) > **RBW**.
3. Detector = **Peak**.
4. Trace mode = **max hold**.

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 %.

- Occupied BW (99 %): RSS-Gen[6.7]

1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
3. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

■ Test Results: **Comply**

Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					26 dB BW		99 % BW	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax (HE20)	U-NII 1	5 180	26	0	19.84	19.78	18.37	18.39
				4	19.04	18.26	17.13	16.92
				8	20.53	19.89	18.58	18.41
		5 200	26	0	19.96	19.70	18.44	18.28
				4	18.71	18.21	17.23	17.09
				8	20.45	19.84	18.68	18.36
		5 240	26	0	19.89	19.59	18.31	18.29
				4	19.06	18.40	17.23	17.05
				8	20.33	19.79	18.53	18.19
	U-NII 2A	5 260	26	0	19.77	19.48	18.42	17.94
				4	18.69	18.16	17.28	17.01
				8	20.35	19.86	18.47	18.41
		5 300	26	0	19.91	19.65	18.48	18.37
				4	19.02	18.28	17.27	16.49
				8	20.35	19.73	18.52	18.24
		5 320	26	0	19.90	19.67	18.40	18.33
				4	19.02	17.94	17.24	16.52
				8	20.52	19.74	18.58	18.34
	U-NII 2C	5 500	26	0	19.84	19.70	18.34	18.31
				4	19.04	18.28	17.28	16.95
				8	20.34	19.74	18.58	17.43
		5 580	26	0	19.84	19.62	18.33	18.42
				4	19.13	17.98	17.33	16.88
				8	20.67	19.92	18.50	18.40
		5 720	26	0	19.54	19.62	18.15	18.08
				4	18.96	18.18	17.19	17.11
				8	20.55	19.71	18.57	18.45

Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					26 dB BW		99 % BW	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax (HE20)	U-NII 1	5 180	242	61	21.59	21.30	19.04	19.06
		5 200	242	61	21.55	21.32	19.10	19.06
		5 240	242	61	21.46	21.47	19.08	19.04
	U-NII 2A	5 260	242	61	21.42	21.44	19.08	19.12
		5 300	242	61	21.55	21.56	19.10	19.11
		5 320	242	61	21.75	21.44	19.11	19.08
	U-NII 2C	5 500	242	61	21.84	21.53	19.14	19.12
		5 580	242	61	21.59	21.39	19.12	19.08
		5 720	242	61	21.65	21.27	19.09	19.08
802.11ax (HE20)	U-NII 1	5 180	SU	NA	21.24	21.29	18.93	18.90
		5 200	SU	NA	21.36	21.09	18.91	18.95
		5 240	SU	NA	21.31	21.22	18.90	18.95
	U-NII 2A	5 260	SU	NA	21.46	21.19	18.90	18.95
		5 300	SU	NA	21.17	21.39	18.94	18.97
		5 320	SU	NA	21.45	20.93	18.91	18.96
	U-NII 2C	5 500	SU	NA	21.26	21.02	18.95	18.95
		5 580	SU	NA	21.35	21.24	18.90	18.94
		5 720	SU	NA	21.69	21.02	18.96	18.91

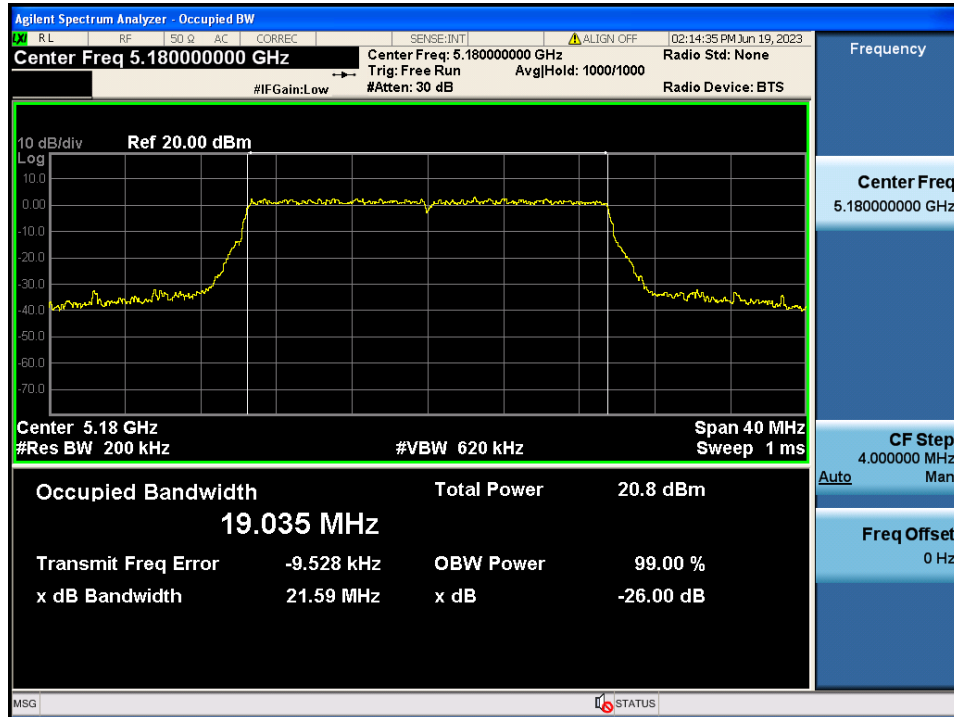
Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					26 dB BW		99 % BW	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax (HE40)	U-NII 1	5 190	26	0	19.88	19.99	18.02	18.06
				8	22.27	22.02	20.75	20.32
				17	19.44	19.17	18.28	18.02
		5 230	26	0	20.33	20.00	18.19	18.17
				8	22.49	22.96	20.76	21.06
				17	20.28	19.43	18.18	17.87
	U-NII 2A	5 270	26	0	19.36	19.88	17.93	18.09
				8	23.21	22.33	21.75	20.87
				17	19.51	19.07	18.23	17.93
		5 310	26	0	19.59	20.04	17.97	18.13
				8	22.79	21.71	21.09	20.44
				17	19.22	19.37	18.15	18.02
	U-NII 2C	5 510	26	0	20.27	20.14	18.05	18.15
				8	22.93	22.18	21.12	20.41
				17	19.32	19.18	18.21	18.05
		5 550	26	0	19.33	19.78	17.95	18.05
				8	22.05	22.41	20.62	20.50
				17	19.93	19.20	18.27	17.98
		5 710	26	0	19.61	19.09	18.12	17.81
				8	23.11	22.70	21.06	20.78
				17	19.80	19.39	18.18	17.96
802.11ax (HE40)	U-NII 1	5 190	484	65	40.01	40.19	37.64	37.63
		5 230	484	65	40.20	39.85	37.59	37.51
	U-NII 2A	5 270	484	65	40.26	39.88	37.67	37.57
		5 310	484	65	40.17	40.03	37.56	37.54
	U-NII 2C	5 510	484	65	40.16	39.86	37.58	37.63
		5 550	484	65	40.19	39.85	37.61	37.56
		5 710	484	65	40.23	39.91	37.64	37.63
802.11ax (HE40)	U-NII 1	5 190	SU	NA	40.05	39.81	37.64	37.63
		5 230	SU	NA	40.18	39.60	37.58	37.63
	U-NII 2A	5 270	SU	NA	40.18	39.87	37.61	37.58
		5 310	SU	NA	40.11	39.81	37.57	37.65
	U-NII 2C	5 510	SU	NA	40.14	39.88	37.62	37.53
		5 550	SU	NA	40.28	40.27	37.63	37.64
		5 710	SU	NA	40.28	40.30	37.62	37.60

Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					26 dB BW(MHz)		99 % BW(MHz)	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax (HE80)	U-NII 1	5 210	26	0	19.82	20.36	18.54	18.69
				18	40.31	39.75	37.56	36.60
				36	22.57	20.64	19.94	18.81
	U-NII 2A	5 290	26	0	19.71	20.90	18.44	18.86
				18	40.97	39.98	37.62	36.98
				36	23.02	20.93	19.80	18.90
	U-NII 2C	5 530	26	0	20.48	21.01	18.86	19.16
				18	39.26	39.43	37.63	36.62
				36	22.55	20.53	21.02	18.88
		5 690	26	0	21.60	20.94	18.76	19.16
				18	38.57	39.50	36.47	36.68
				36	20.72	20.29	19.16	18.81
802.11ax (HE80)	U-NII 1	5 210	996	67	81.49	81.26	77.26	77.33
	U-NII 2A	5 290	996	67	81.20	81.07	77.22	77.15
	U-NII 2C	5 530	996	67	81.49	81.12	77.18	77.27
		5 690	996	67	81.23	81.35	77.19	77.26
802.11ax (HE80)	U-NII 1	5 210	SU	NA	81.41	81.48	77.24	77.00
	U-NII 2A	5 290	SU	NA	81.78	81.59	77.25	77.11
	U-NII 2C	5 530	SU	NA	80.94	81.68	77.14	77.18
		5 690	SU	NA	81.39	81.48	77.08	77.10

Note: The worst-case plots are reported.

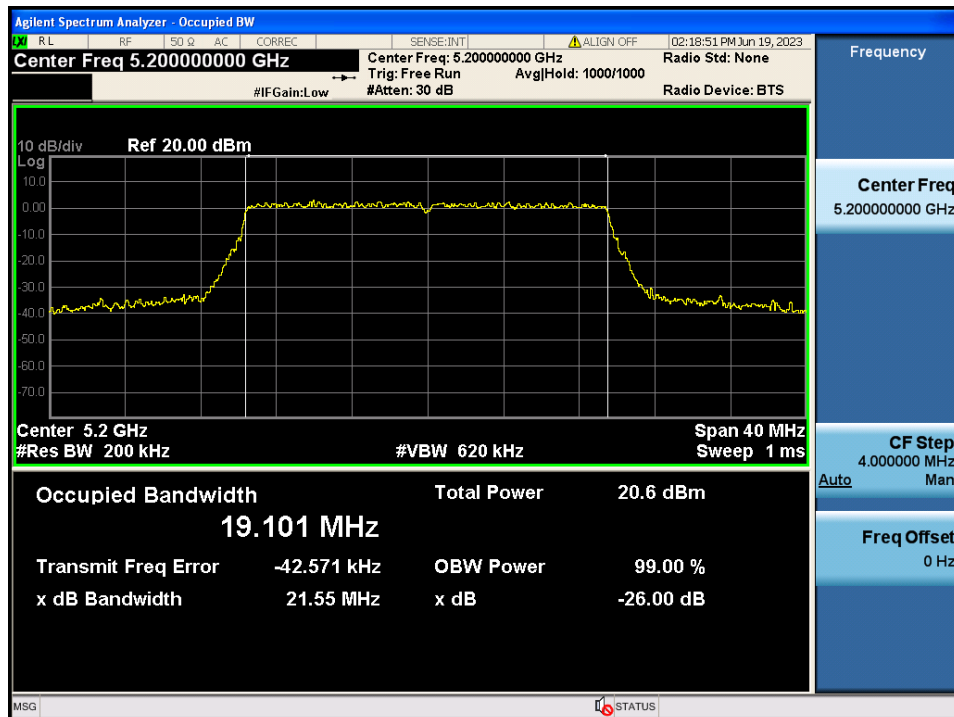
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.36



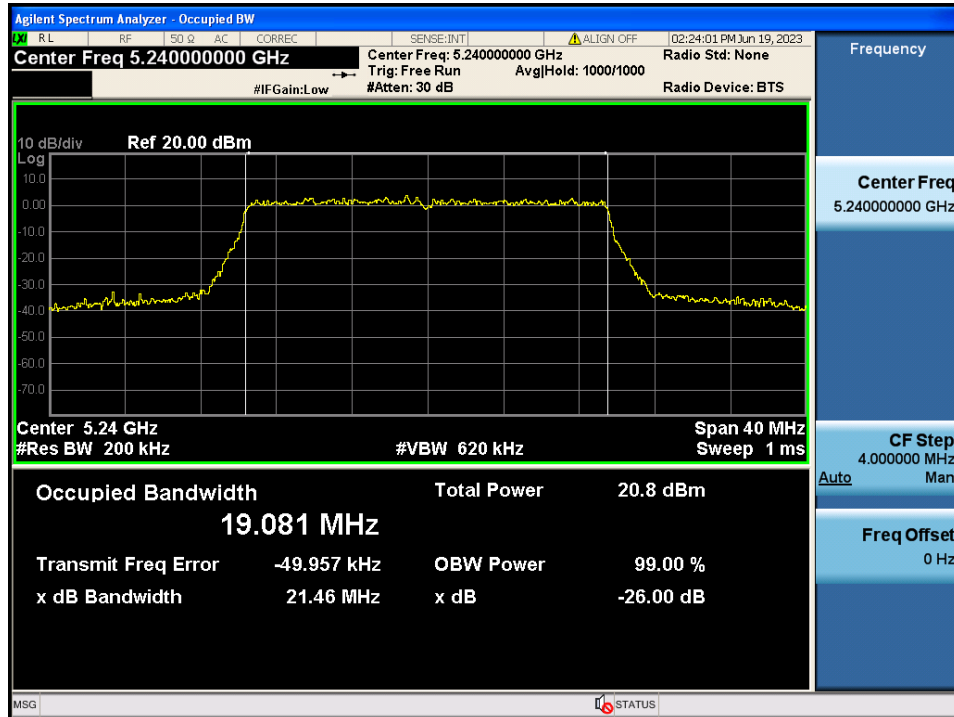
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.40



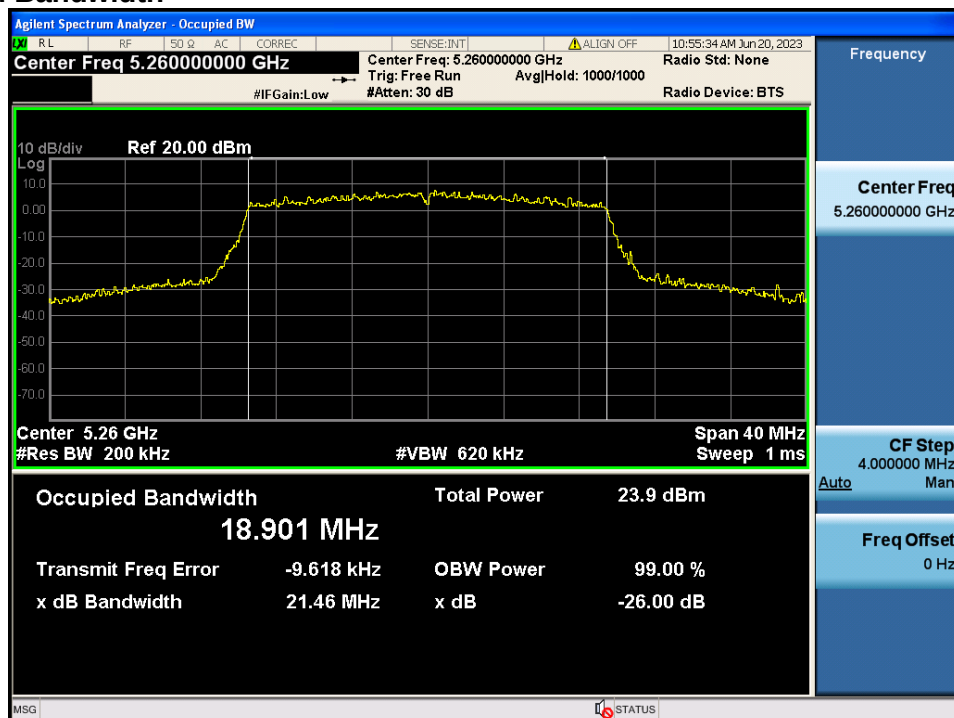
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.48



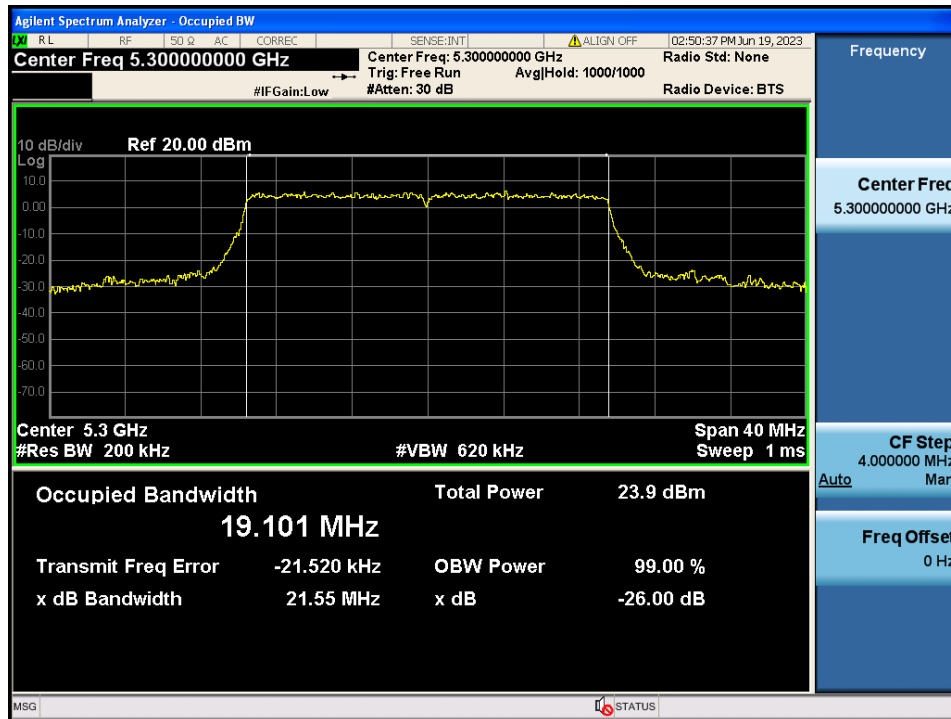
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & SU Ch.52



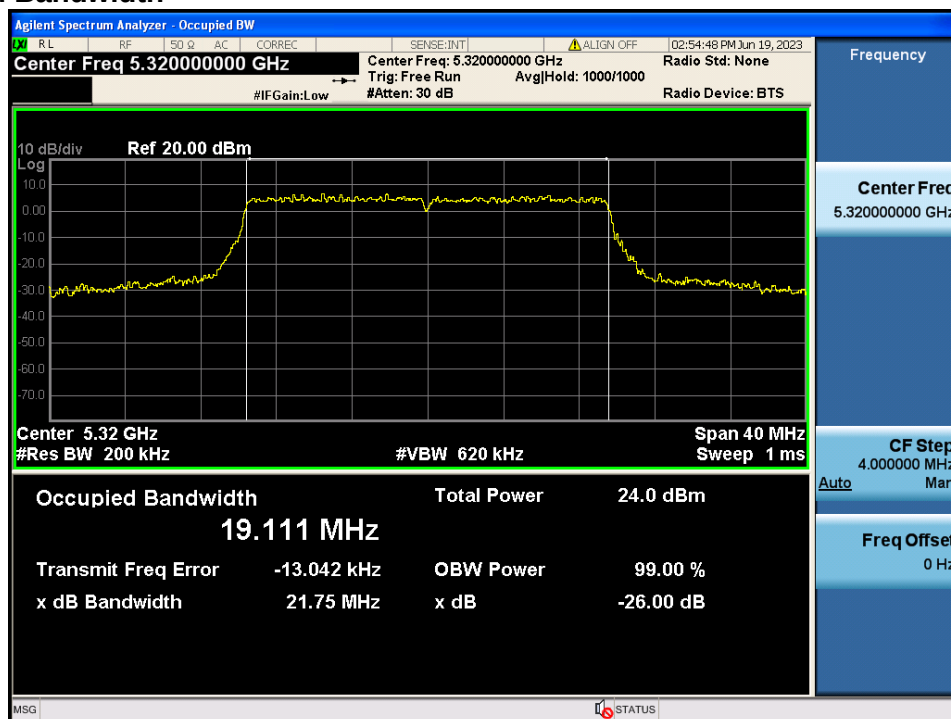
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.60



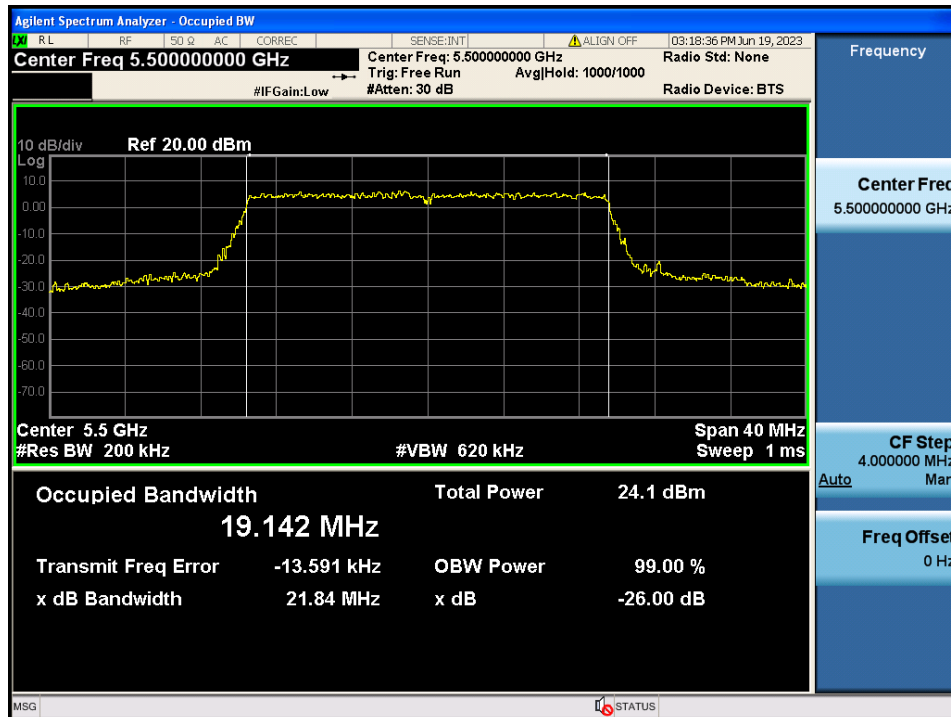
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.64



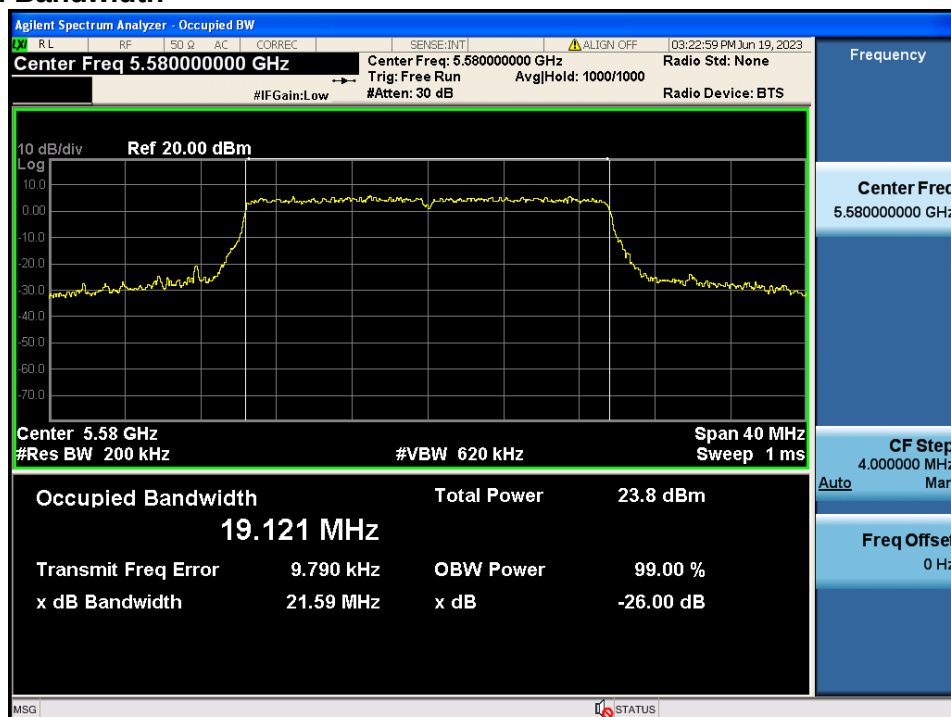
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.100



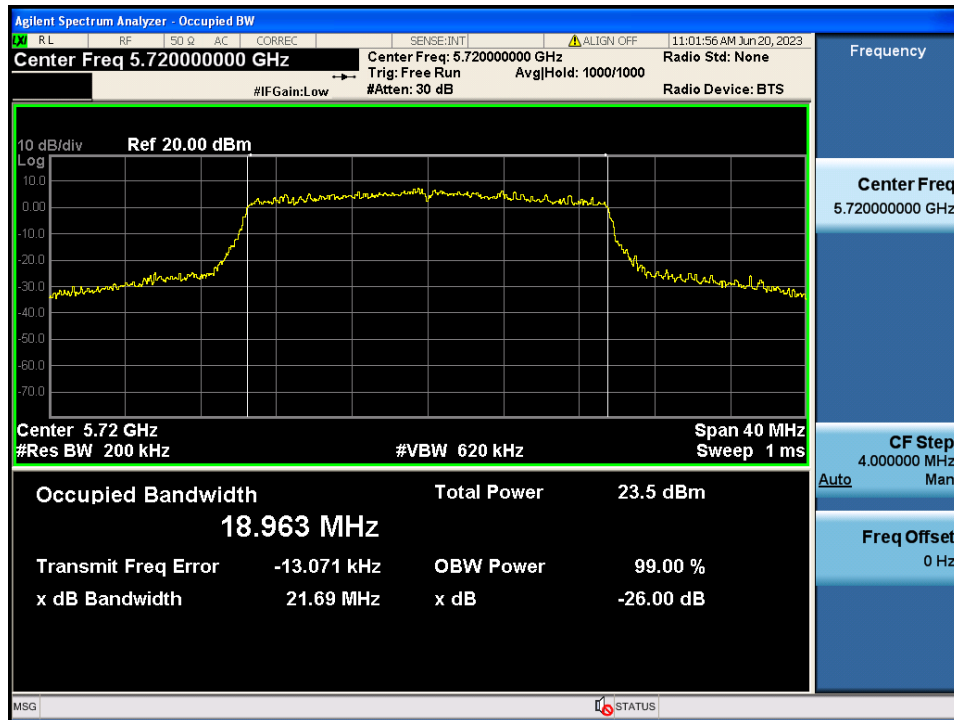
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.116



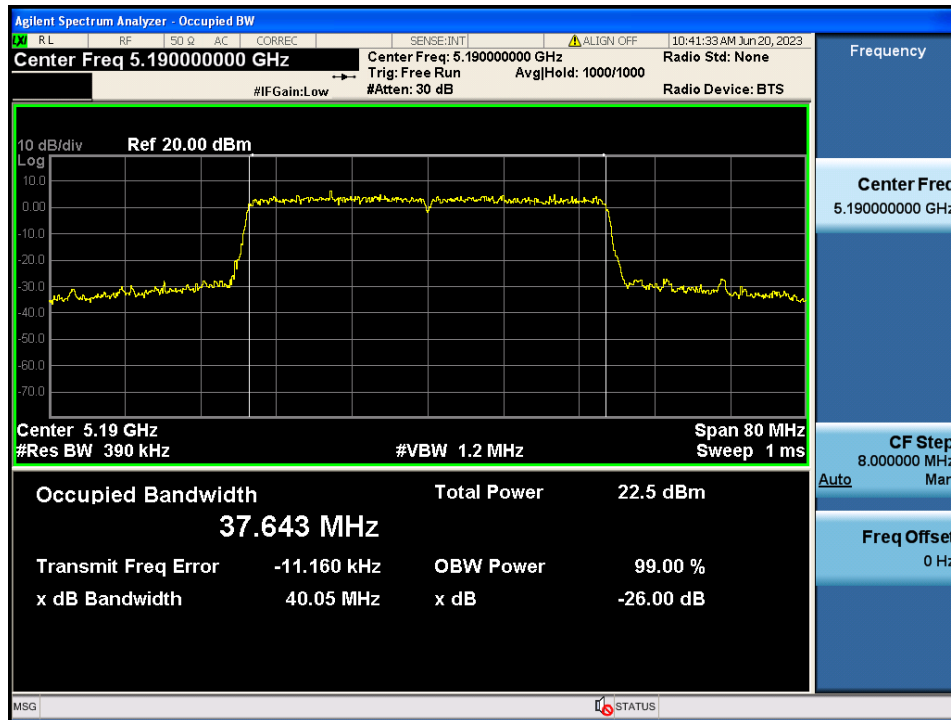
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & SU & Ch.144



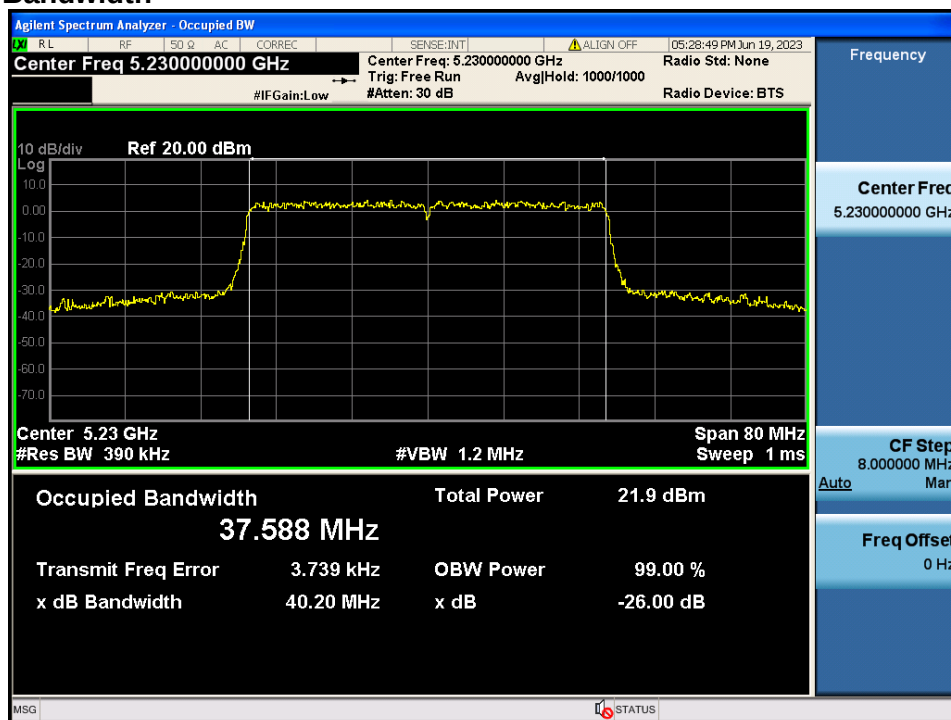
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & SU & Ch.38



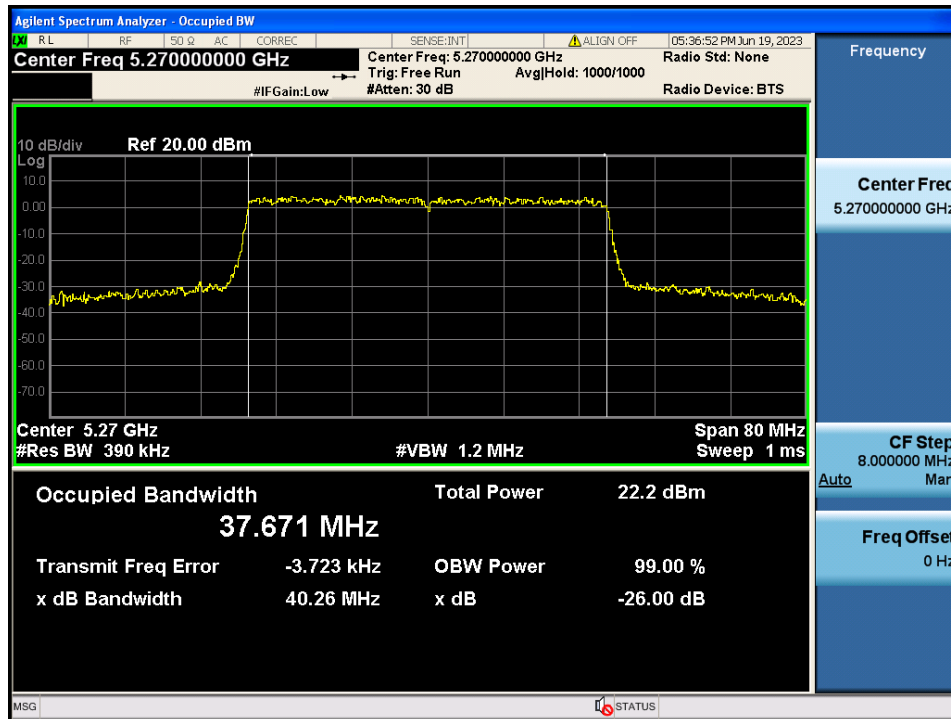
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 484 Tone & 65 RU & Ch.46



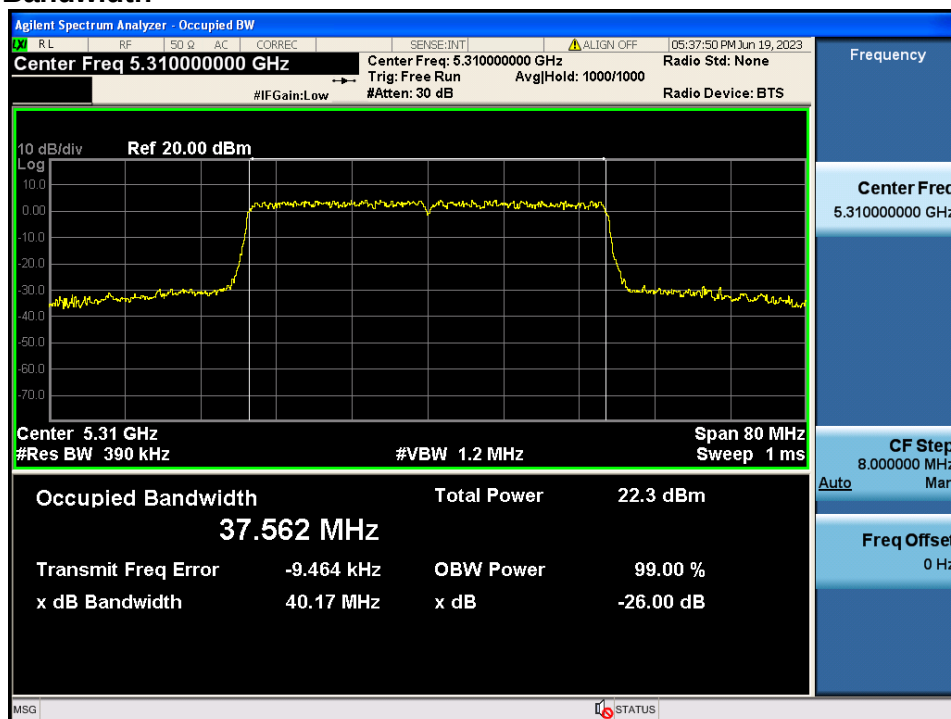
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 484 Tone & 65 RU & Ch.54



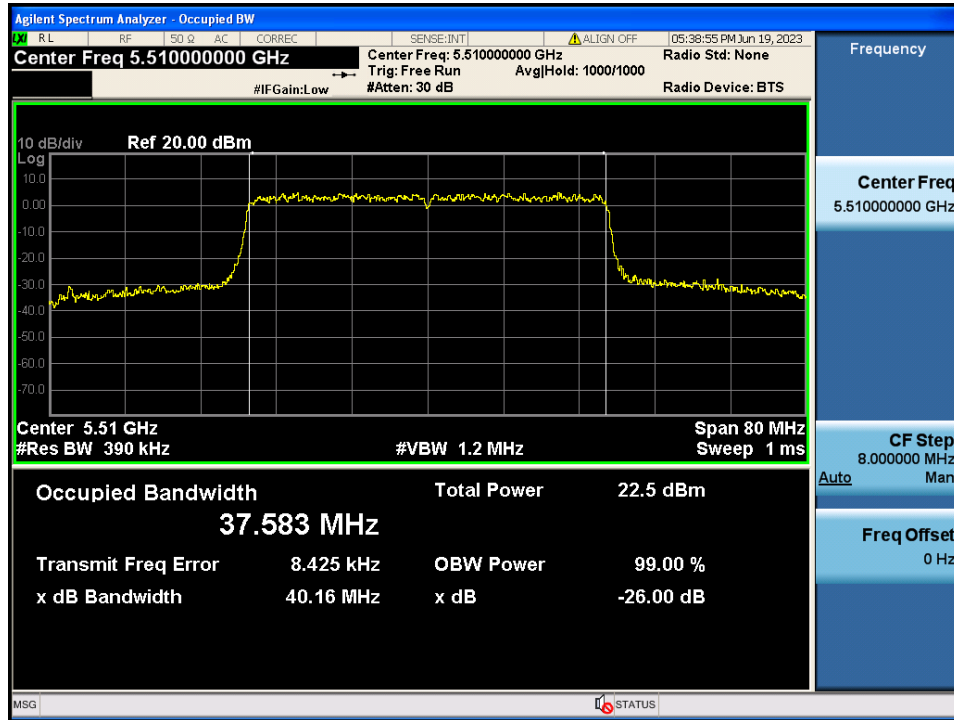
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 484 Tone & 65 RU & Ch.62



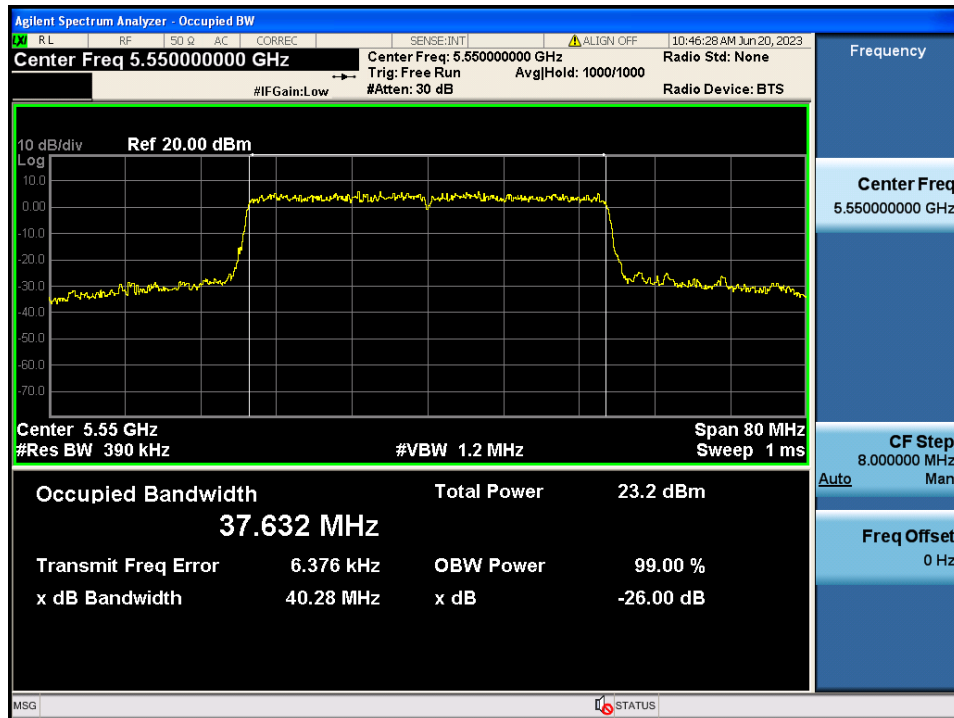
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 484 Tone & 65 RU & Ch.102



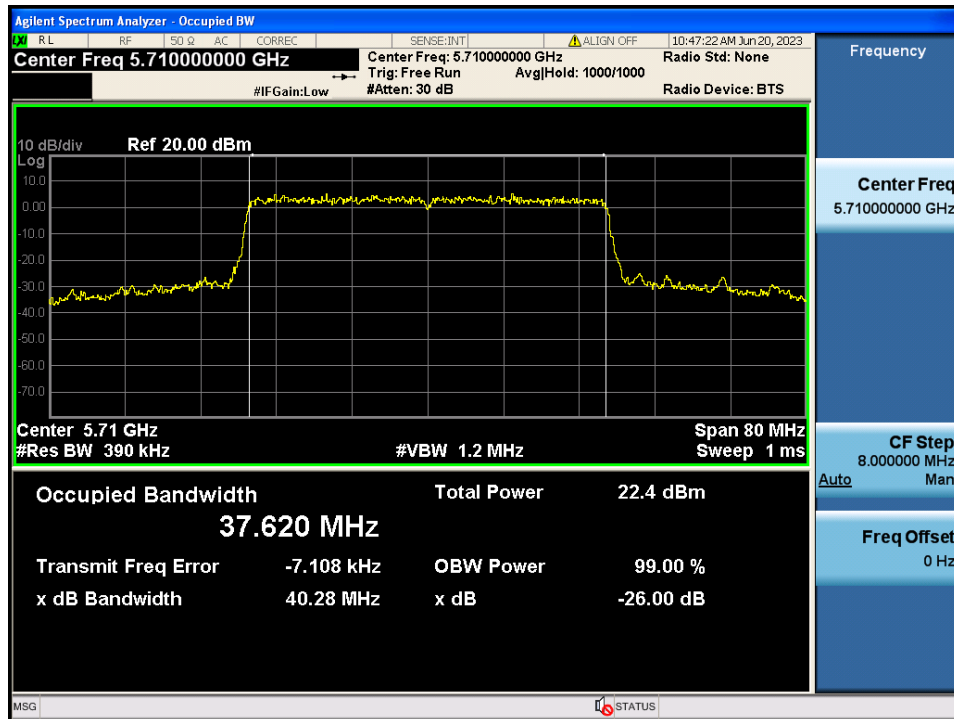
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & SU & Ch.110



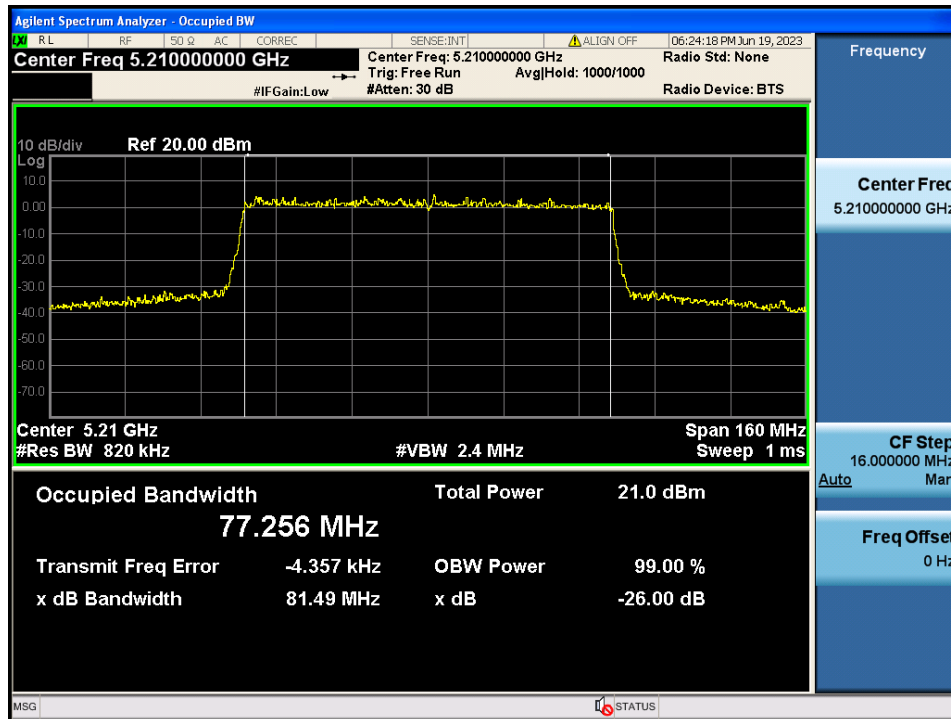
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & SU & Ch.142



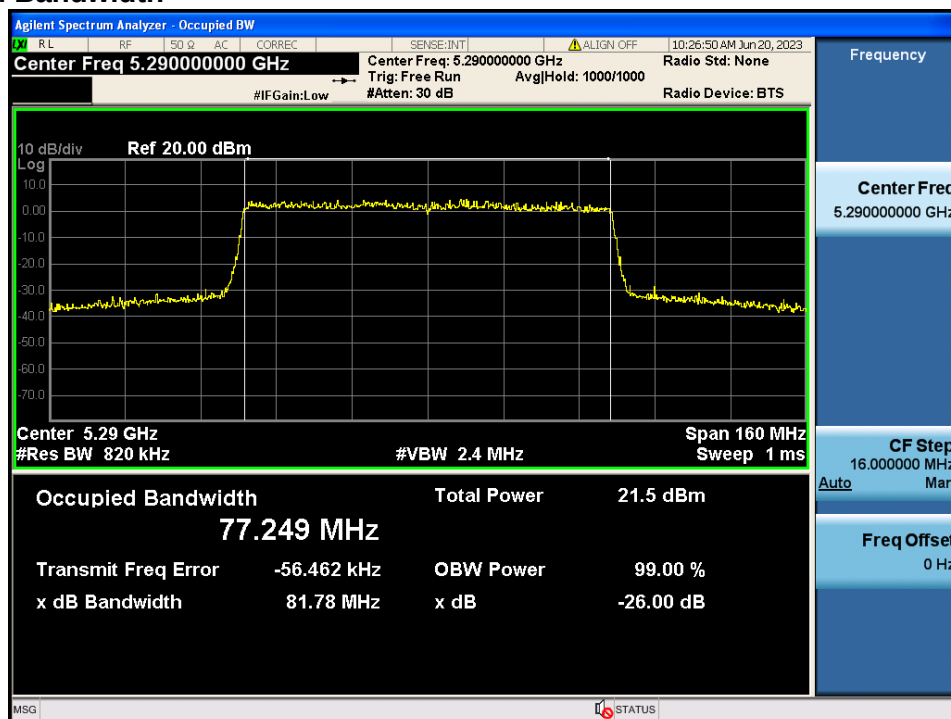
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & 996 Tone & 67 RU & Ch.42



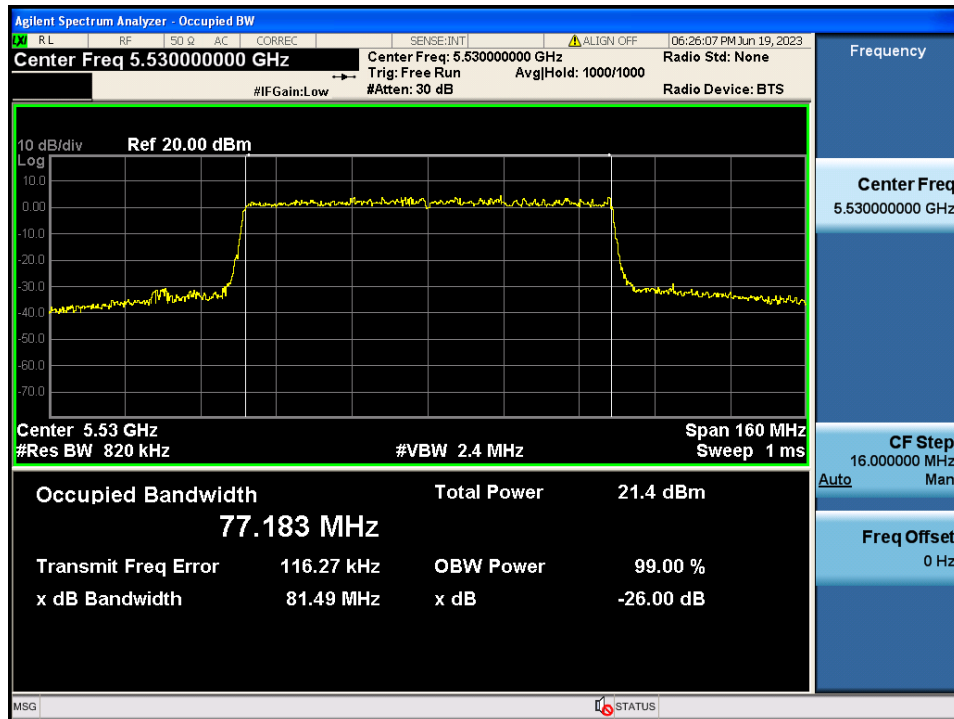
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & SU & Ch.58



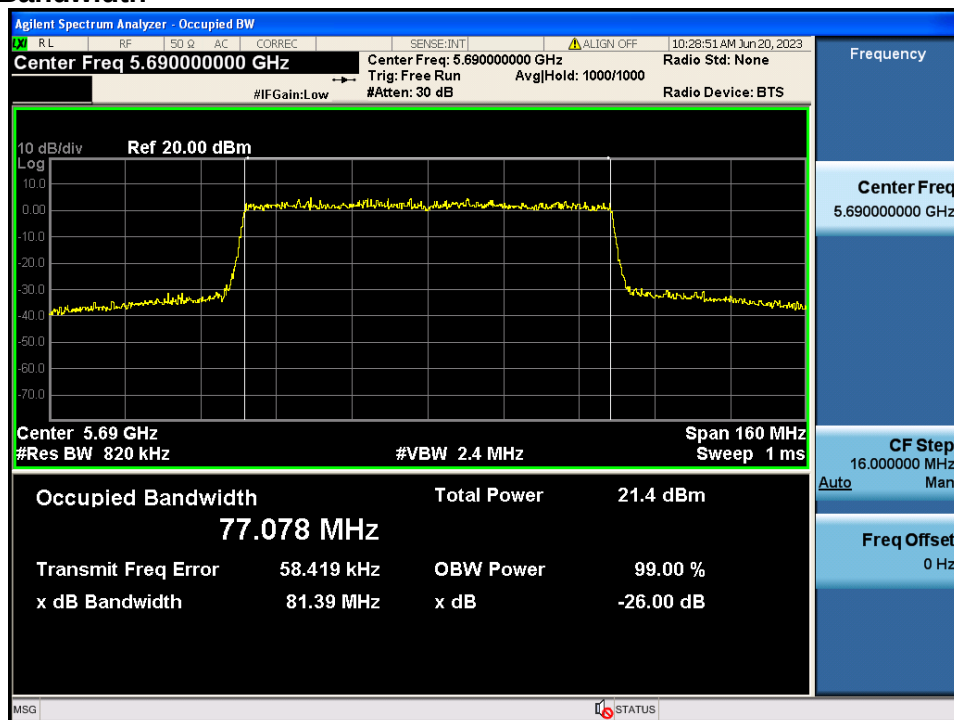
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & 996 Tone & 67 RU & Ch.106



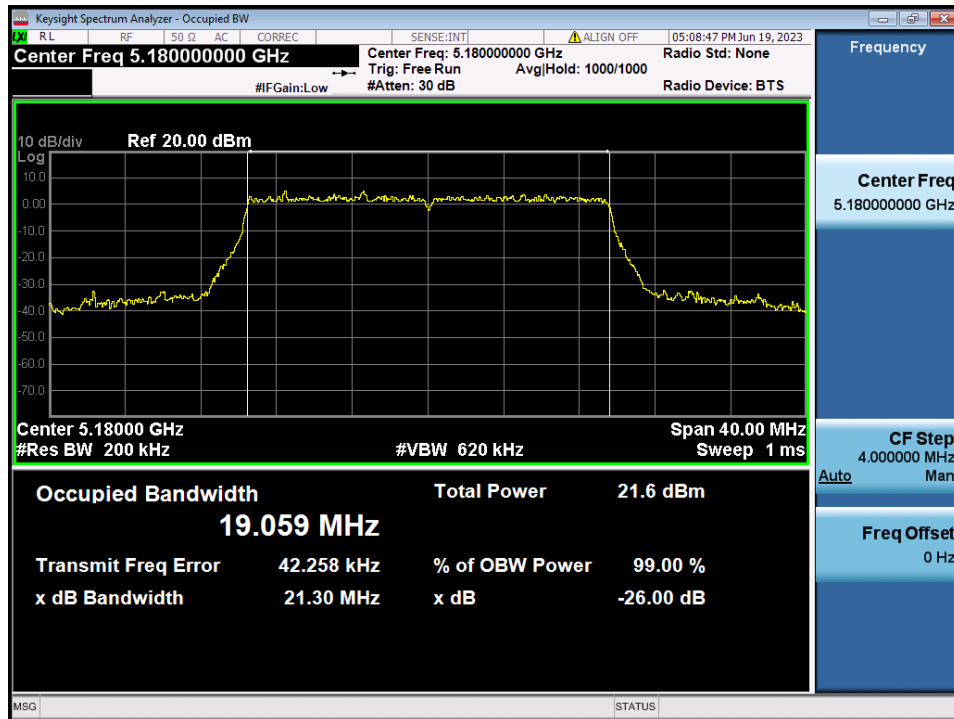
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & SU & Ch.138



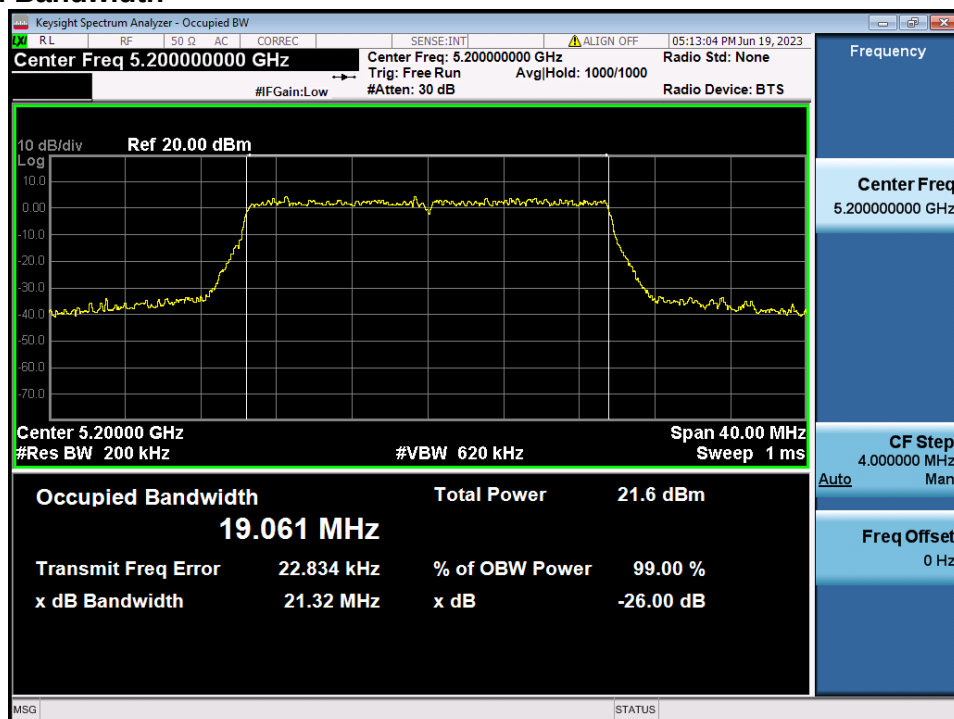
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.36



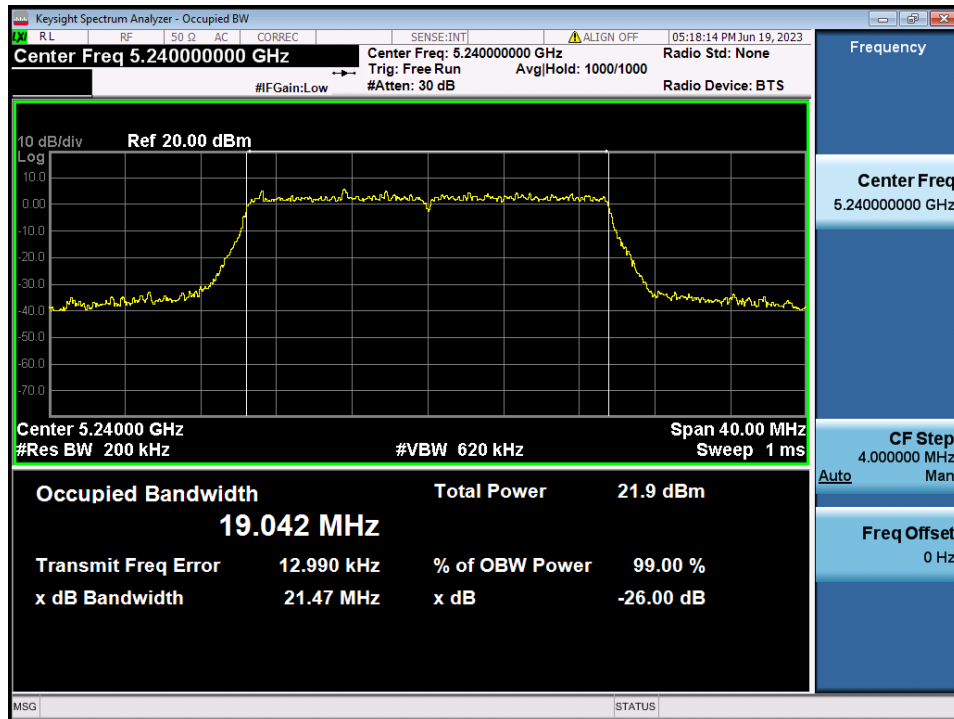
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.40

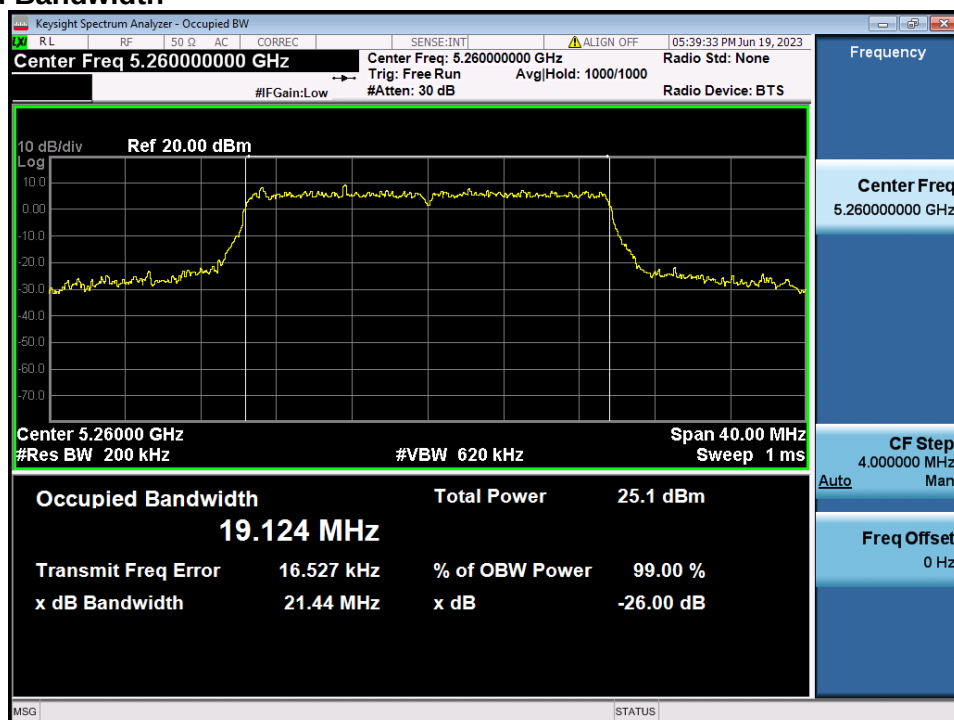


**26 dB Bandwidth
& Occupied Bandwidth**

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.48

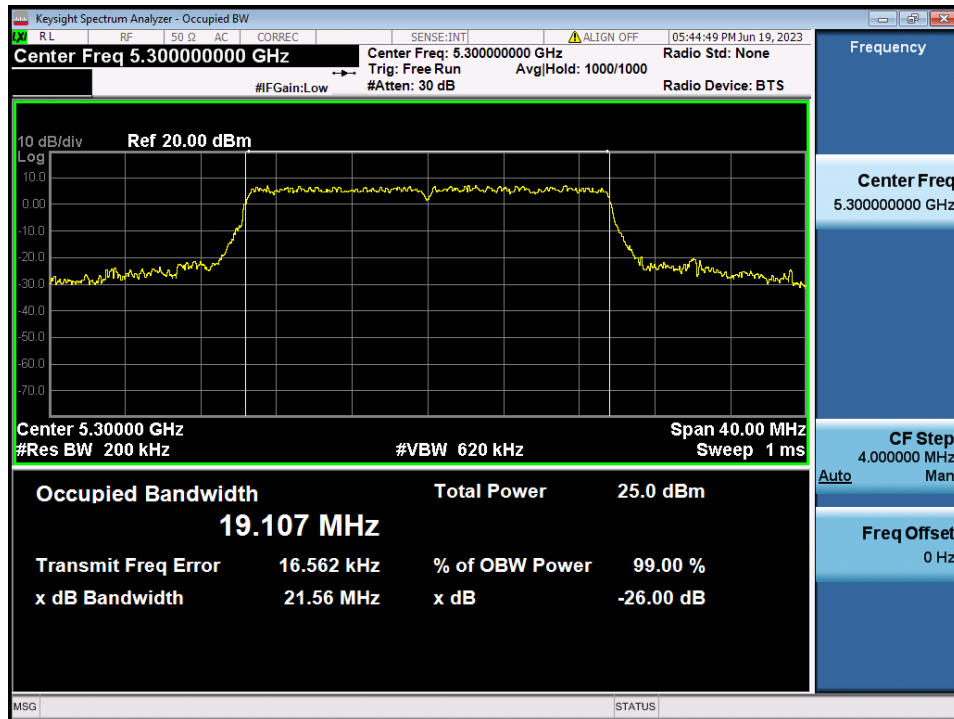
**26 dB Bandwidth
& Occupied Bandwidth**

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.52



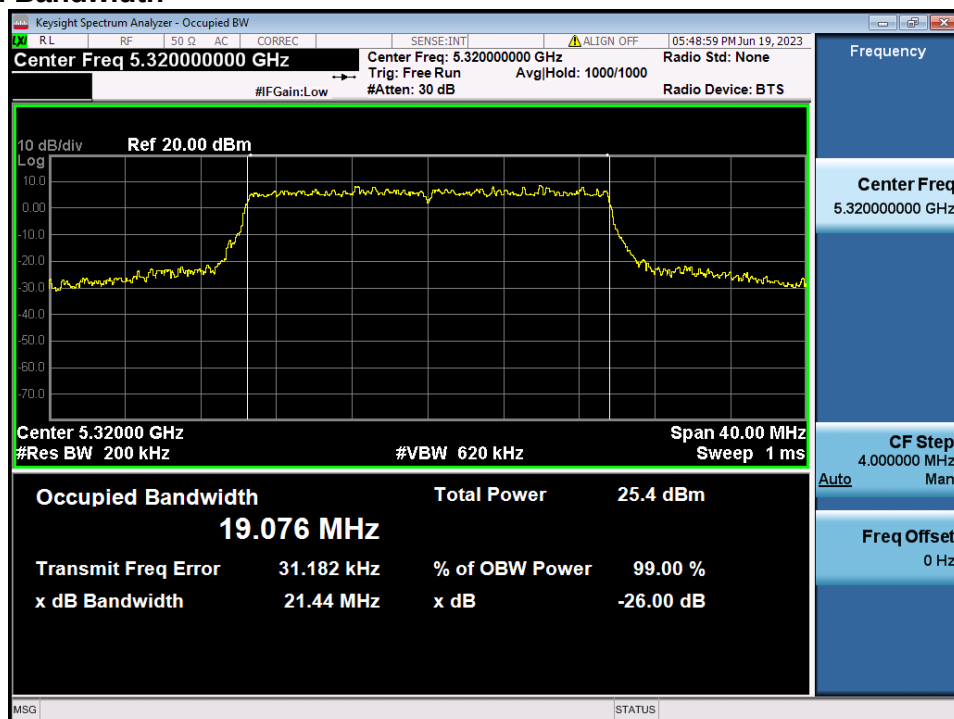
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.60



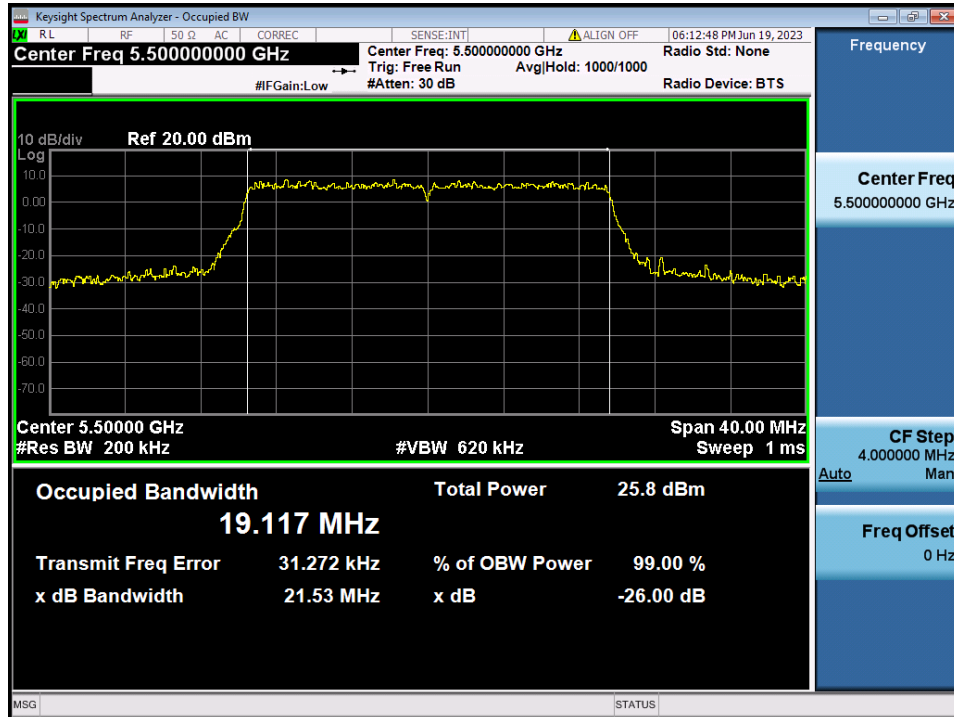
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.64



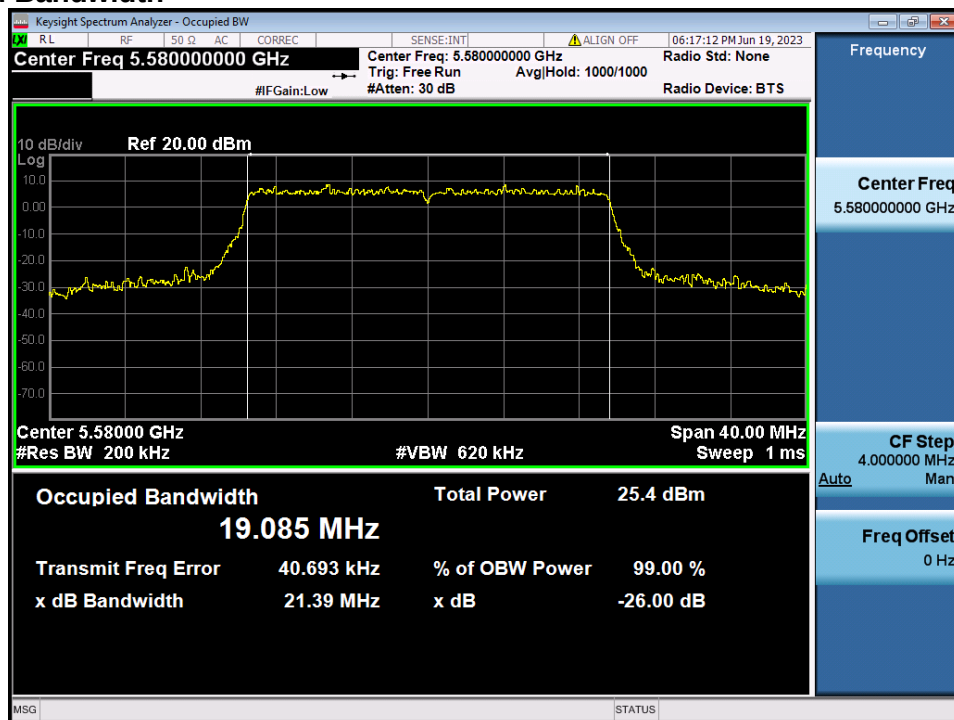
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.100



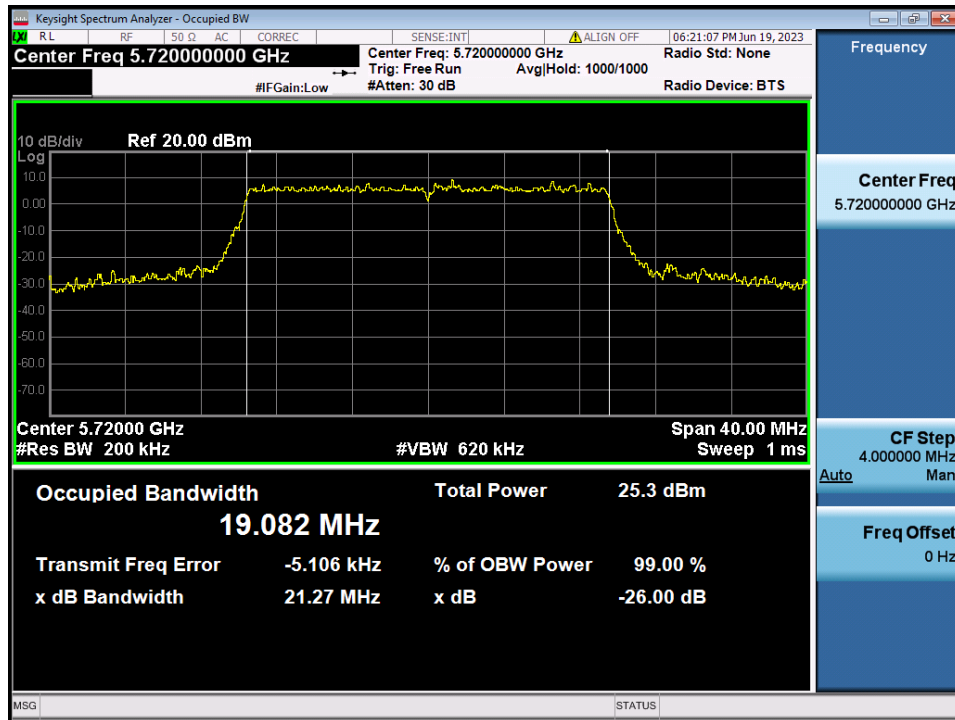
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.116



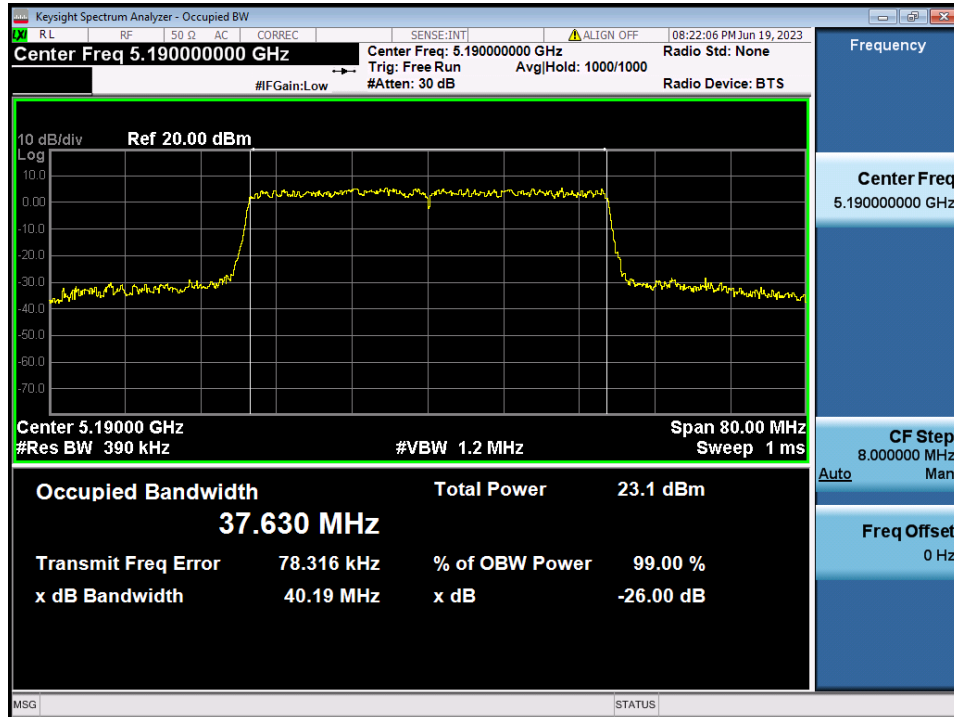
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.144



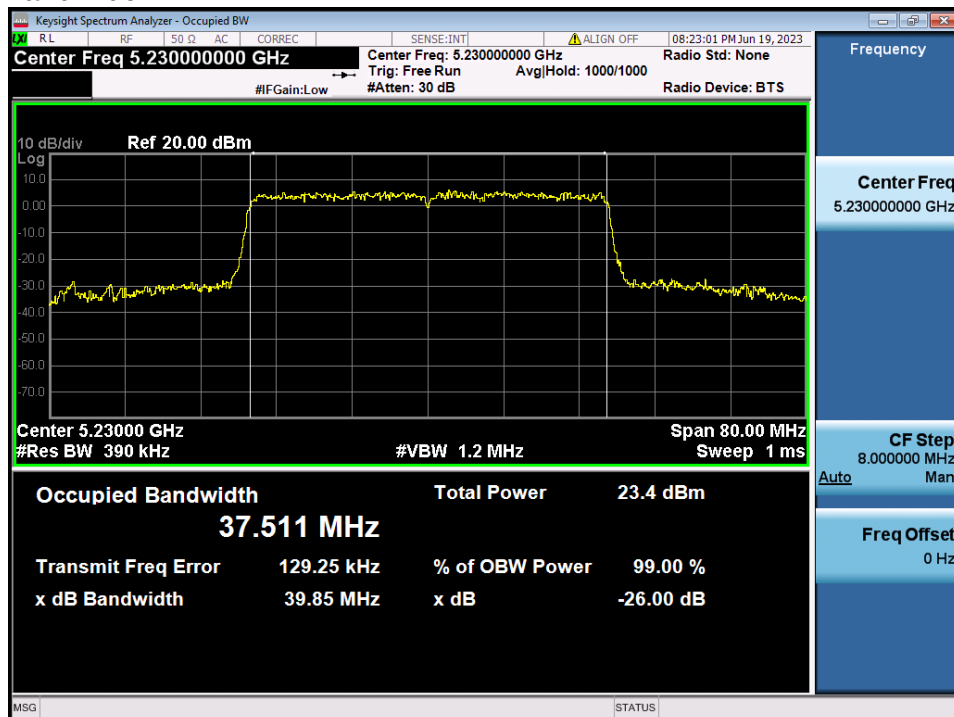
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 484 Tone & 65 RU & Ch.38



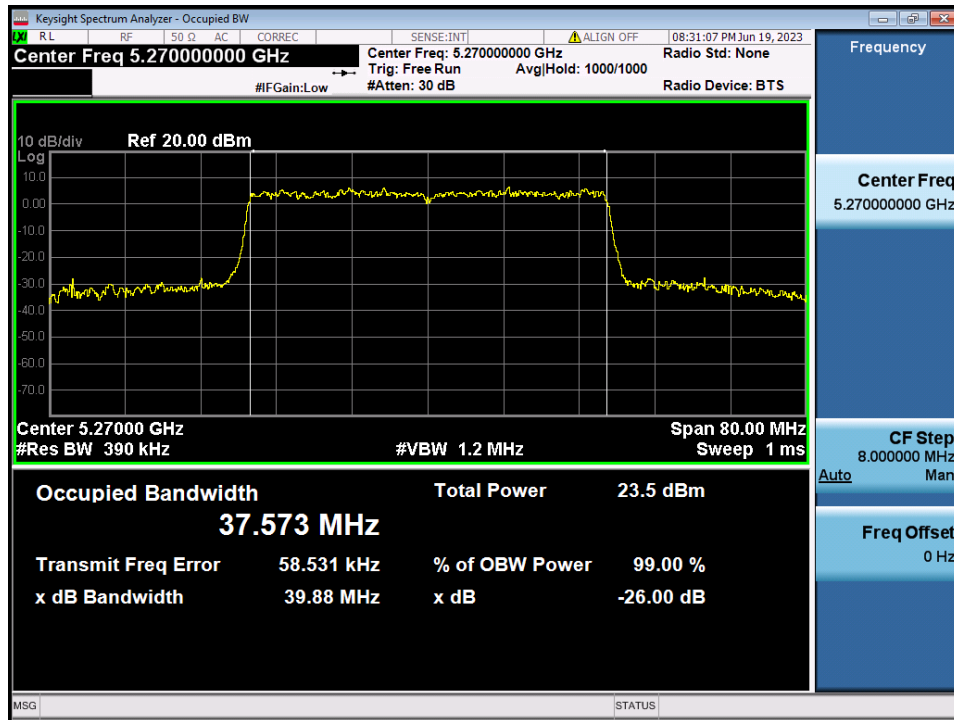
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 484 Tone & 65 RU & Ch.46



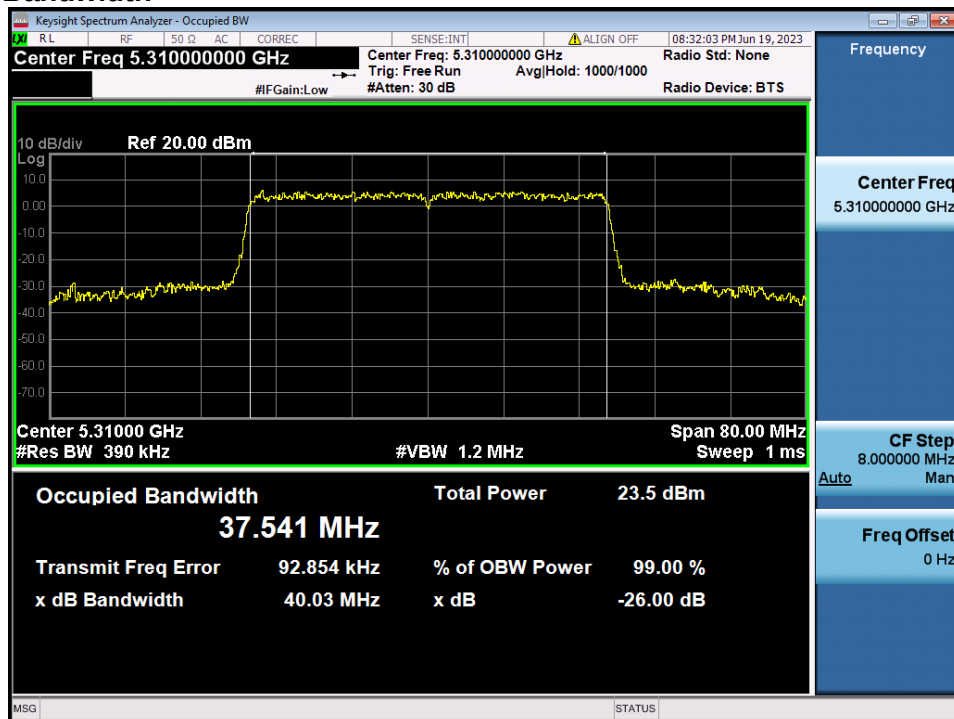
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 484 Tone & 65 RU & Ch.54



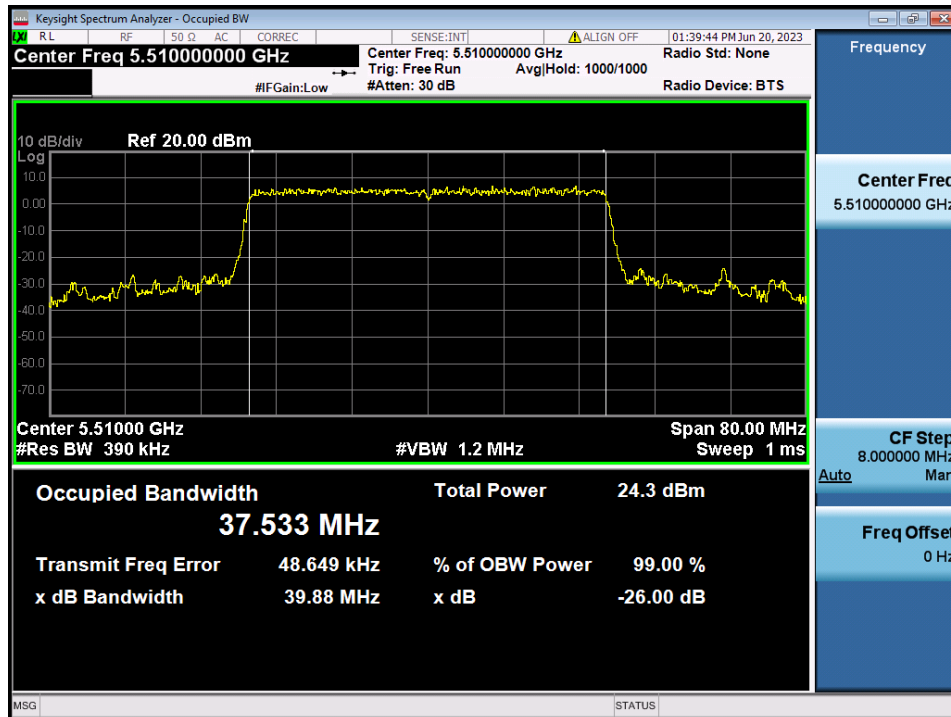
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 484 Tone & 65 RU & Ch.62



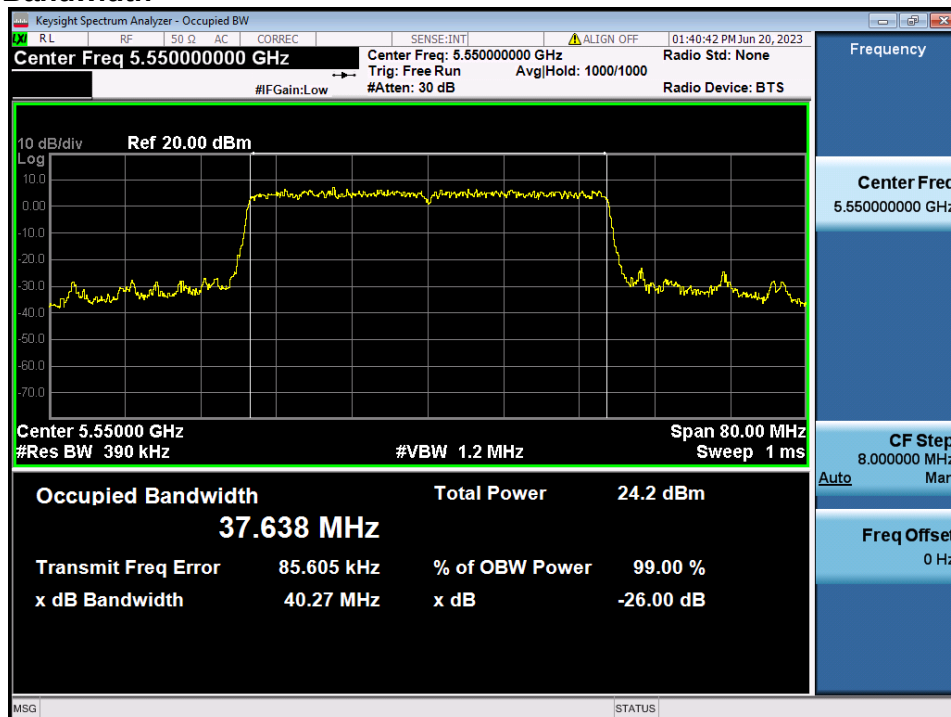
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & SU & Ch.102



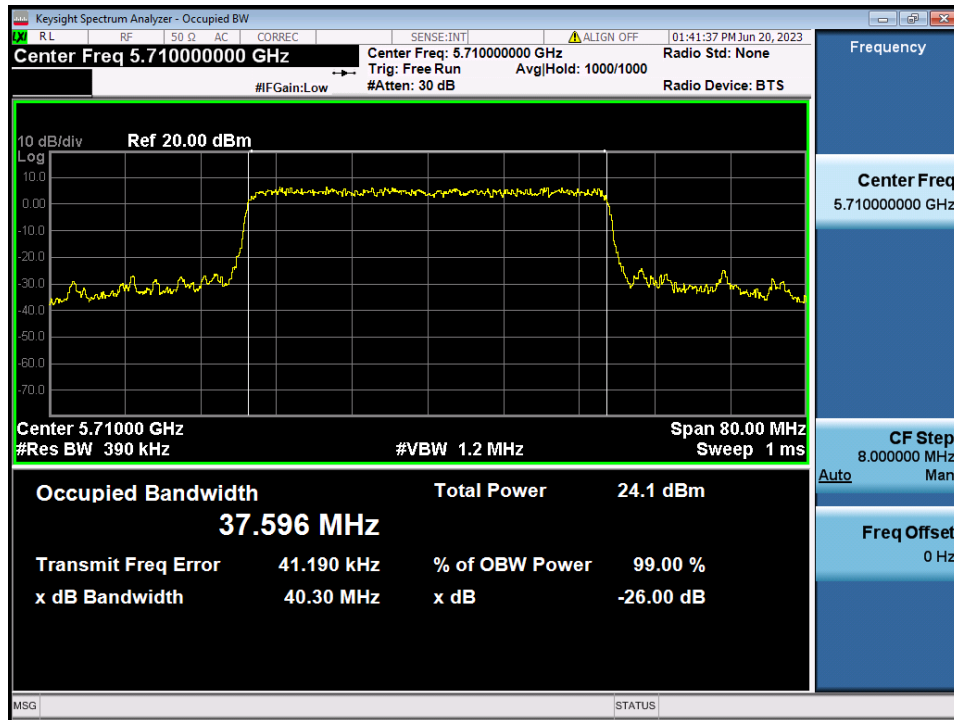
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & SU & Ch.110



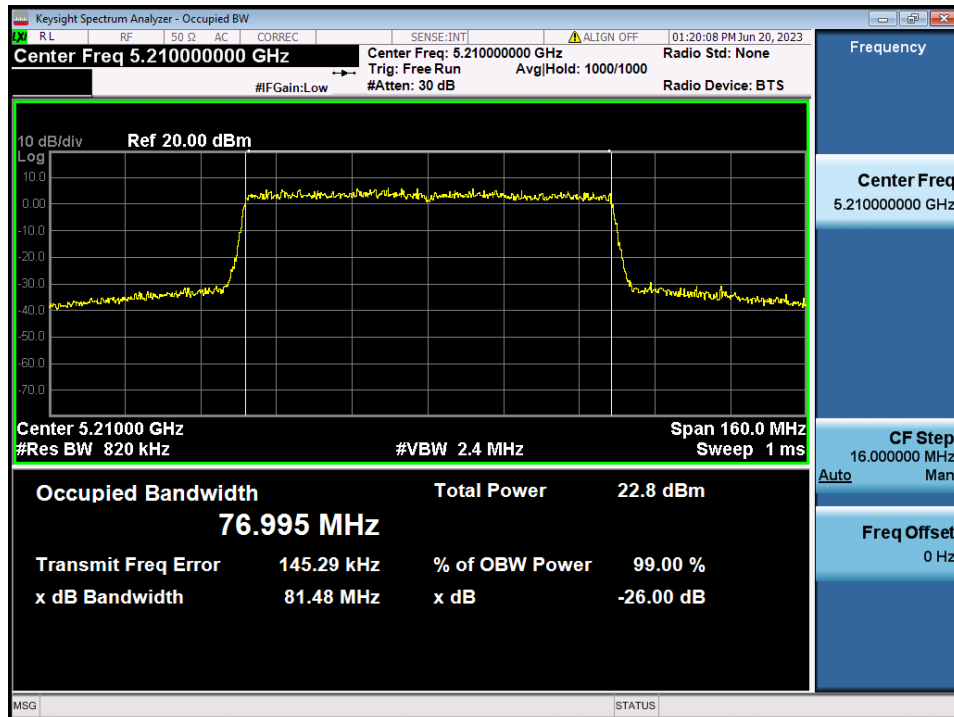
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & SU & Ch.142



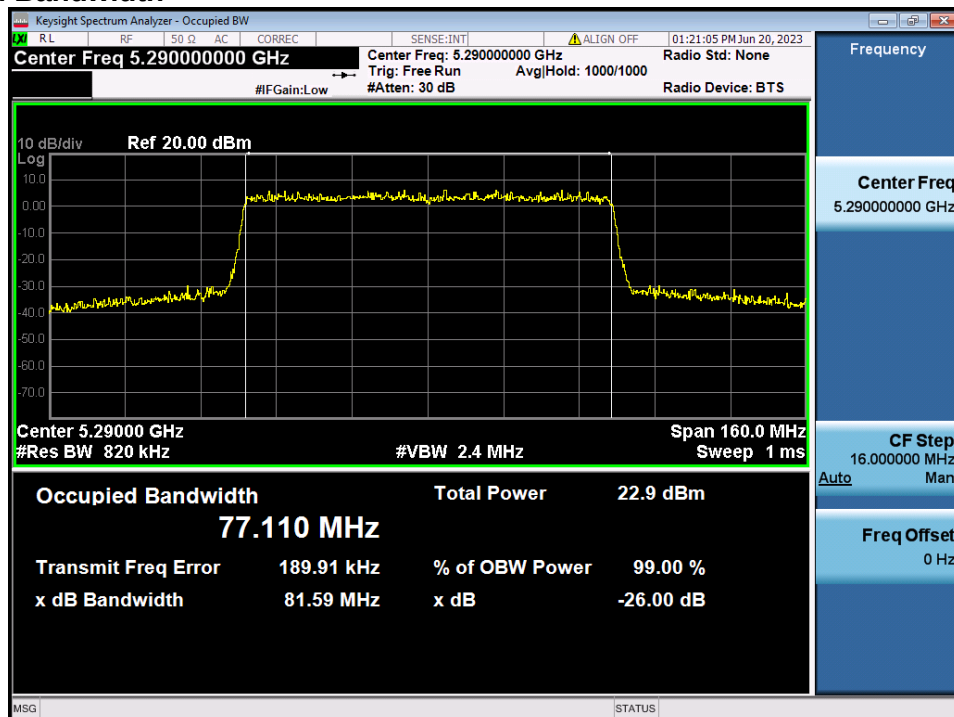
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 2 & SU & Ch.42



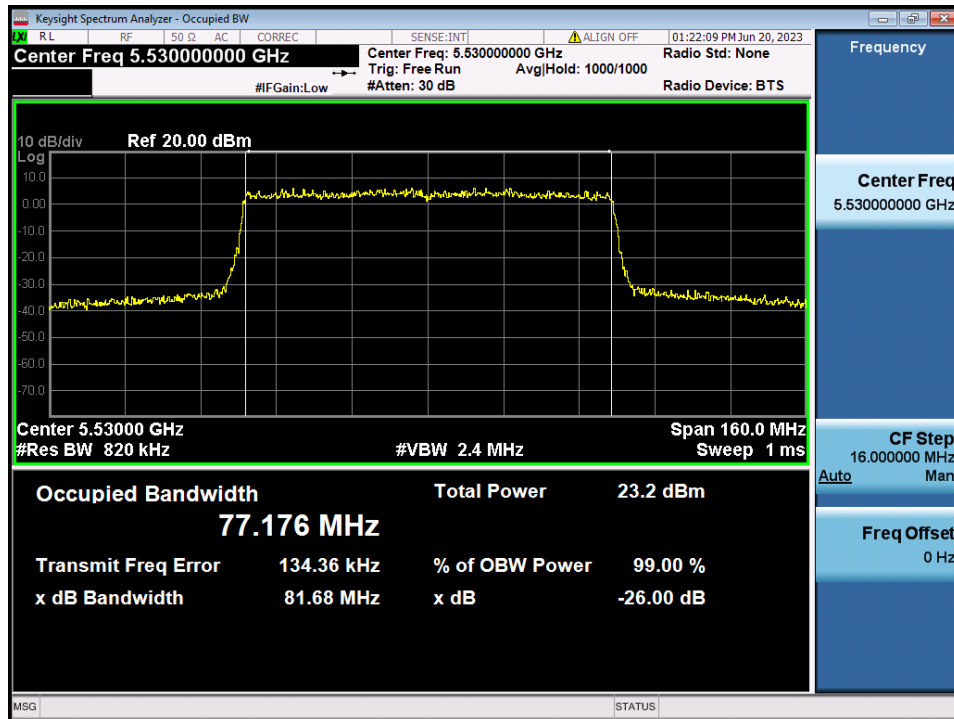
26 dB Bandwidth & Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 2 & SU & Ch.58

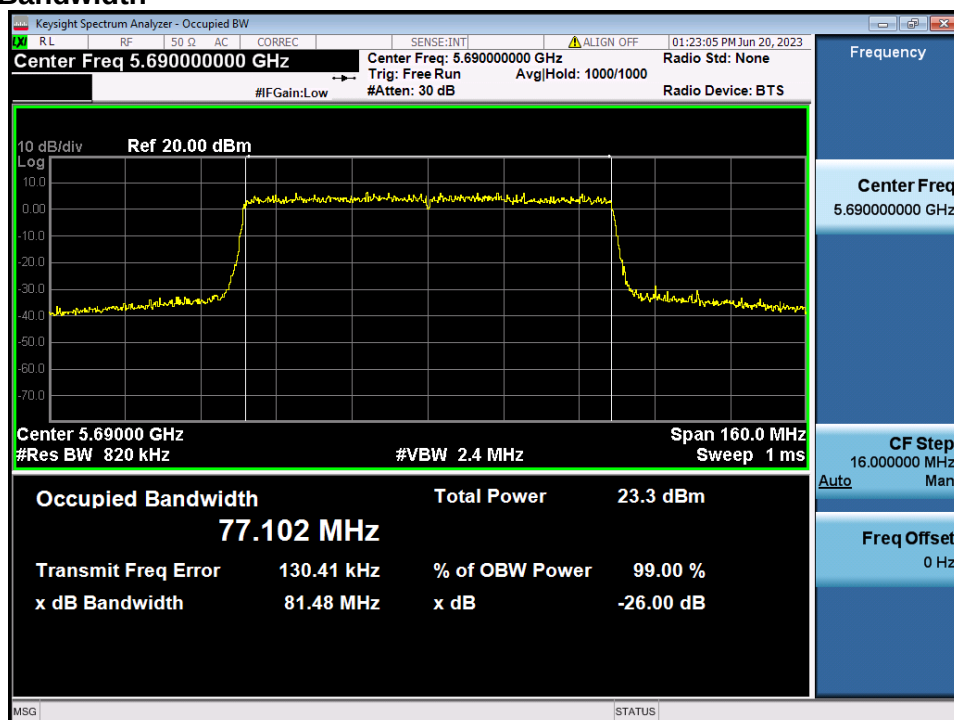


**26 dB Bandwidth
& Occupied Bandwidth**

Test Mode: 802.11ax HE80 & ANT 2 & SU & Ch.106

**26 dB Bandwidth
& Occupied Bandwidth**

Test Mode: 802.11ax HE80 & ANT 2 & SU & Ch.138



5.2 Minimum Emission Bandwidth (6 dB Bandwidth) & Occupied BW (99 %)

■ Test Requirements

- Emission Bandwidth (6 dB Bandwidth)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

- Occupied BW (99 %)

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

- Emission Bandwidth (6 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB789033 D02v02r01**.

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth $\geq 3 \times \text{RBW}$.
3. Detector = **Peak**.
4. Trace mode = **max hold**.

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.

- Occupied BW (99 %) : RSS-Gen[6.7]

1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
3. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately $3 \times \text{RBW}$.

■ Test Results: **Comply**

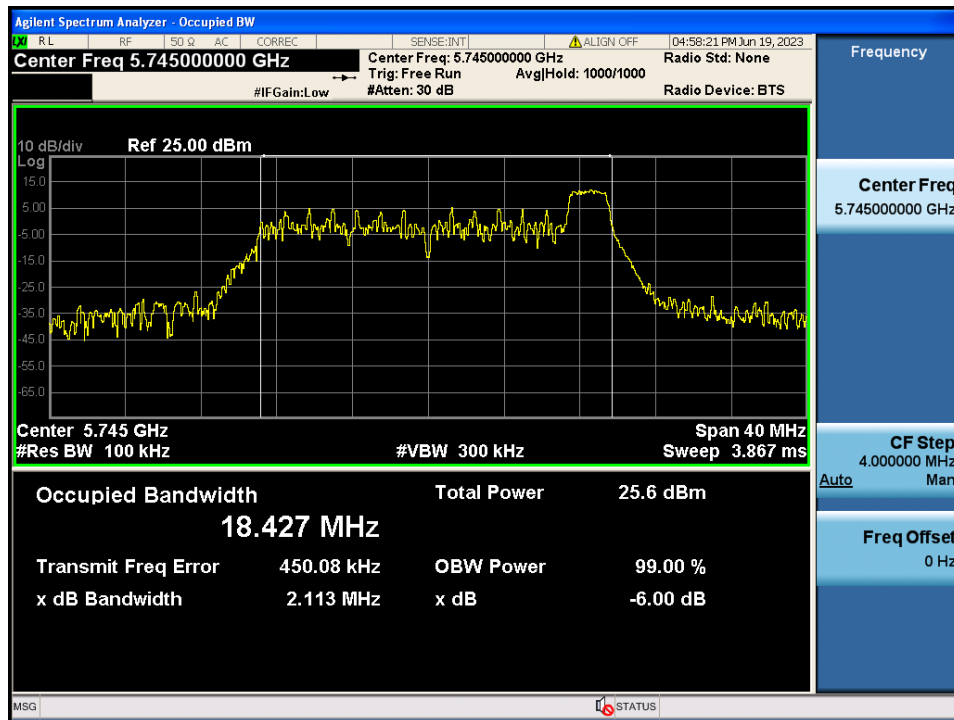
Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					6 dB BW		99 % BW	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax(HE20)	U-NII 3	5 745	26	0	2.15	2.11	18.41	17.83
				4	2.67	2.65	17.25	17.06
				8	2.11	2.11	18.42	18.34
		5 785	26	0	2.12	2.05	18.29	18.32
				4	2.71	2.71	16.89	17.06
				8	2.08	2.14	18.56	18.31
		5 825	26	0	2.09	2.09	18.38	18.23
				4	2.65	2.70	17.21	16.95
				8	2.09	2.12	18.51	18.39
802.11ax(HE20)	U-NII 3	5 745	242	61	19.00	18.98	19.09	19.07
		5 785	242	61	18.99	19.03	19.08	19.16
		5 825	242	61	19.06	18.97	19.10	19.07
802.11ax(HE20)	U-NII 3	5 745	SU	NA	18.15	18.62	18.90	18.95
		5 785	SU	NA	18.46	18.19	18.97	18.94
		5 825	SU	NA	18.20	17.83	18.94	18.93

Mode	Band	Frequency [MHz]	Tone	RU Index	Test Result [MHz]			
					6 dB BW(MHz)		99 % BW(MHz)	
					CDD			
					ANT 1	ANT 2	ANT 1	ANT 2
802.11ax(HE40)	U-NII 3	5 755	26	0	2.14	2.15	17.58	18.10
				8	2.10	2.13	20.76	20.80
				17	2.07	2.10	18.24	18.06
		5 795	26	0	2.12	2.08	18.38	17.74
				8	2.09	2.14	20.39	19.94
				17	2.10	2.14	18.32	18.06
802.11ax(HE40)	U-NII 3	5 755	484	65	37.89	37.60	37.57	37.55
		5 795	484	65	37.51	37.42	37.58	37.52
		5 755	SU	NA	37.70	37.55	37.69	37.64
		5 795	SU	NA	37.34	37.17	37.60	37.58
802.11ax(HE80)	U-NII 3	5 775	26	0	2.22	2.27	18.73	19.08
				18	2.79	2.80	37.21	36.57
				36	2.19	2.22	19.53	18.92
802.11ax(HE80)	U-NII 3	5 775	996	67	77.56	77.78	77.17	77.12
			SU	NA	77.35	77.23	77.27	77.22

Note: The worst-case plots(Minimum 6 dB Bandwidth) are reported.

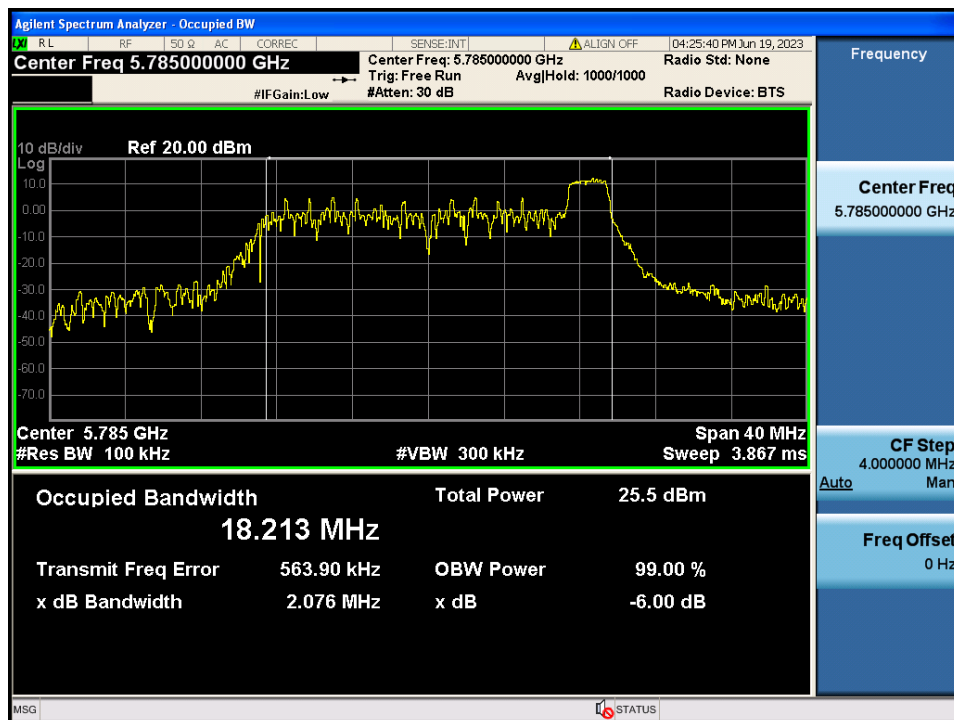
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 8 RU & Ch.149



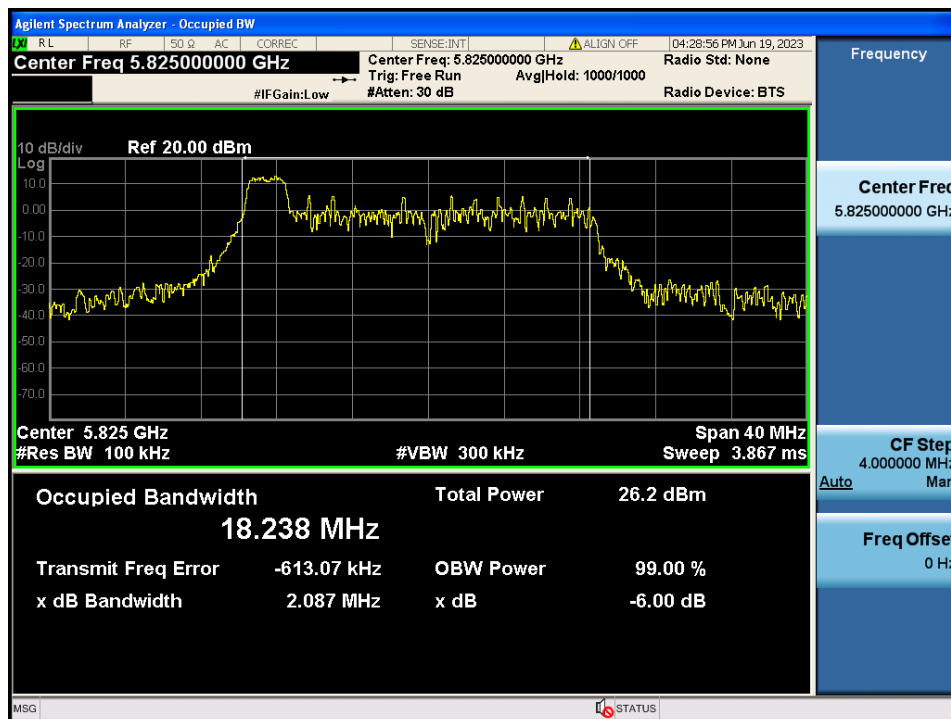
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 8 RU & Ch.157



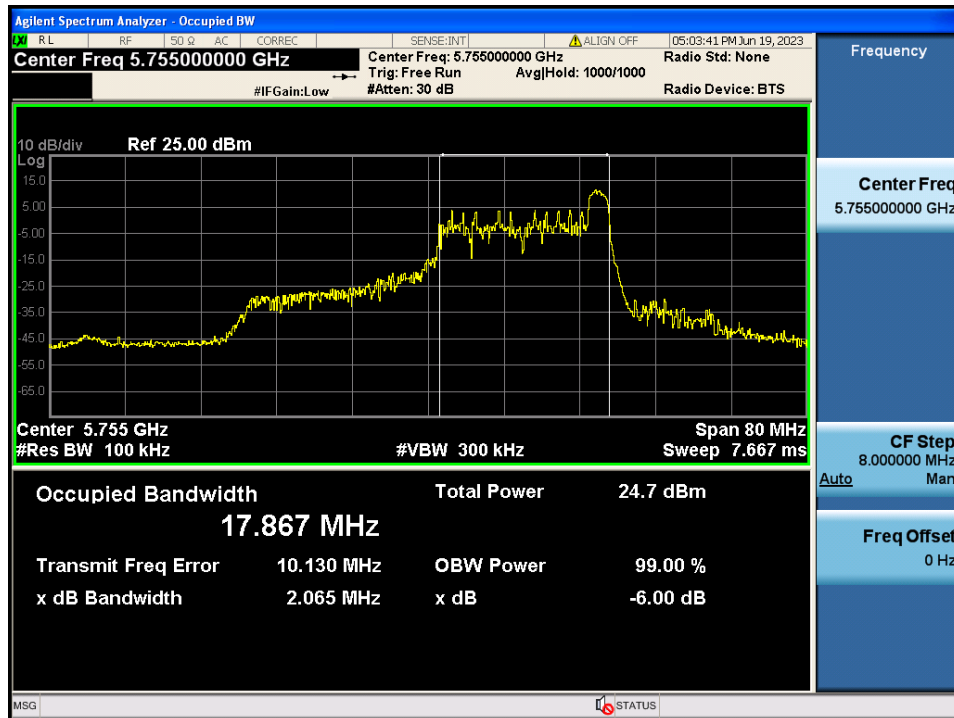
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 26 Tone & 0 RU & Ch.165



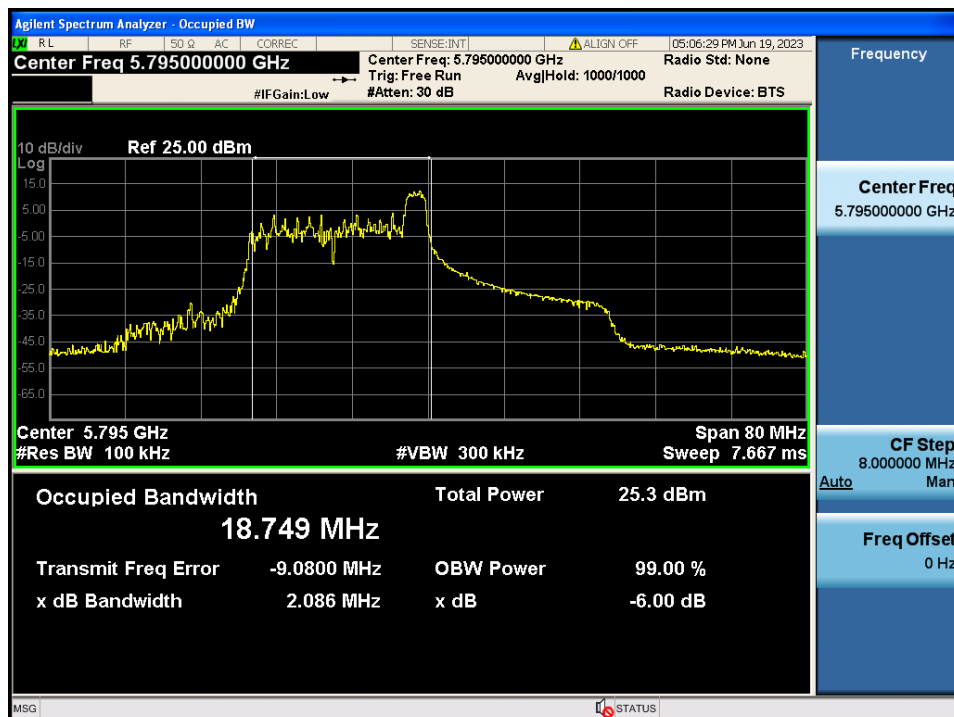
6 dB Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 26 Tone & 17 RU & Ch.151



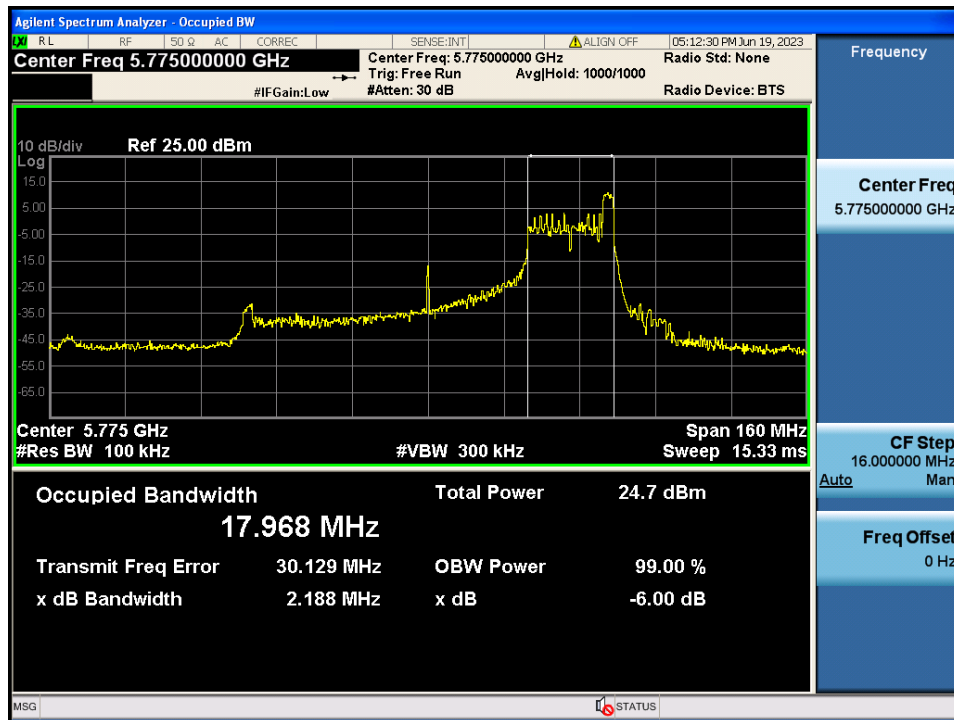
6 dB Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & 26 Tone & 8 RU & Ch.159



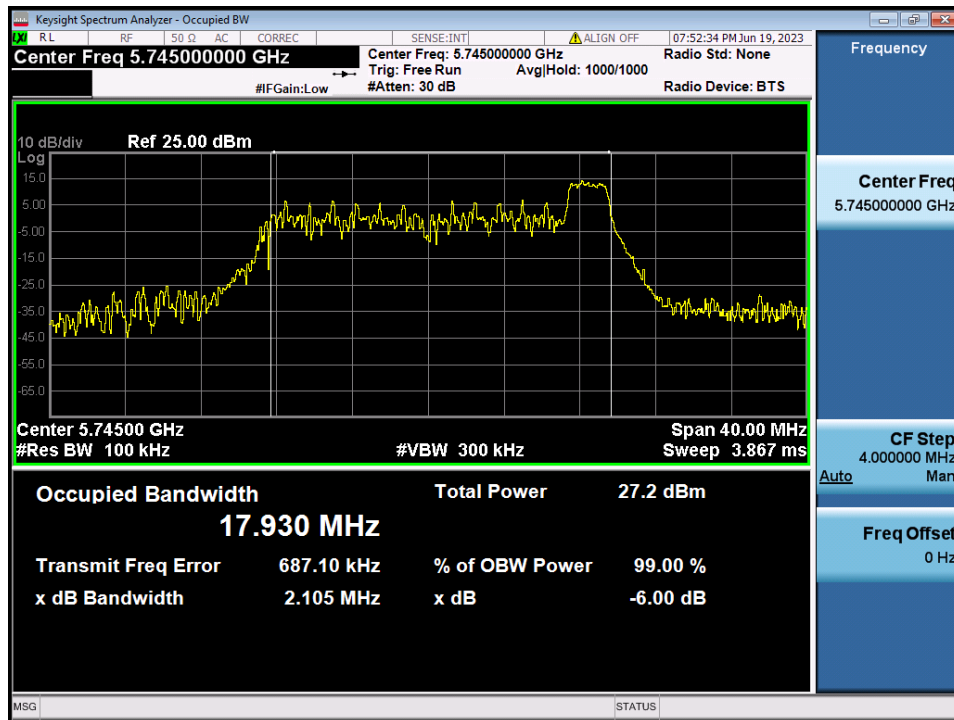
6 dB Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & 26 Tone & 36 RU & Ch.155



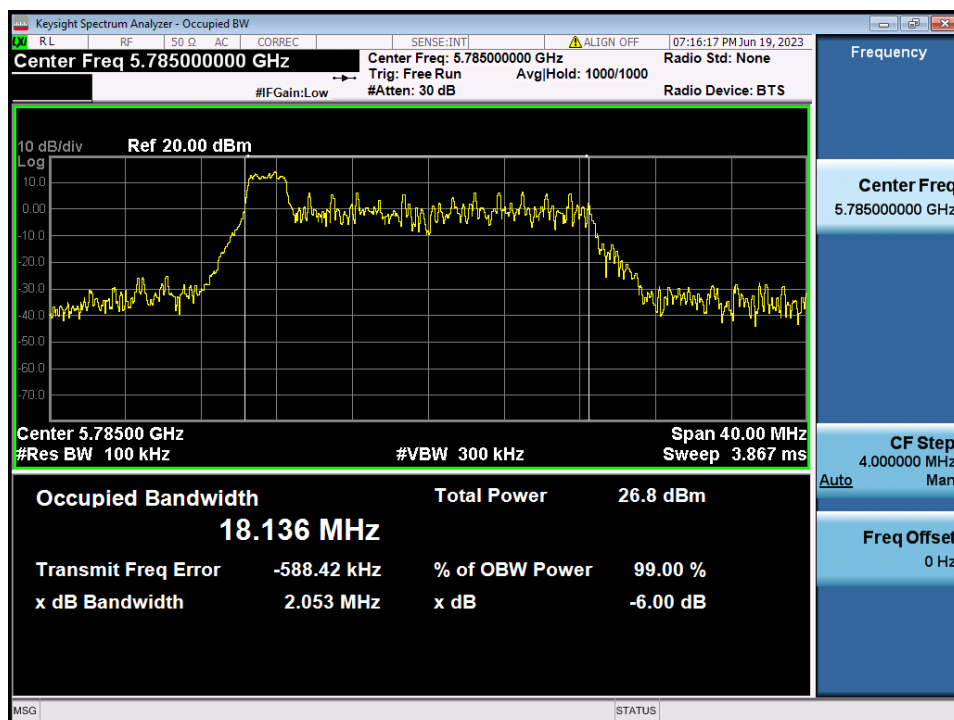
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 8 RU & Ch.149



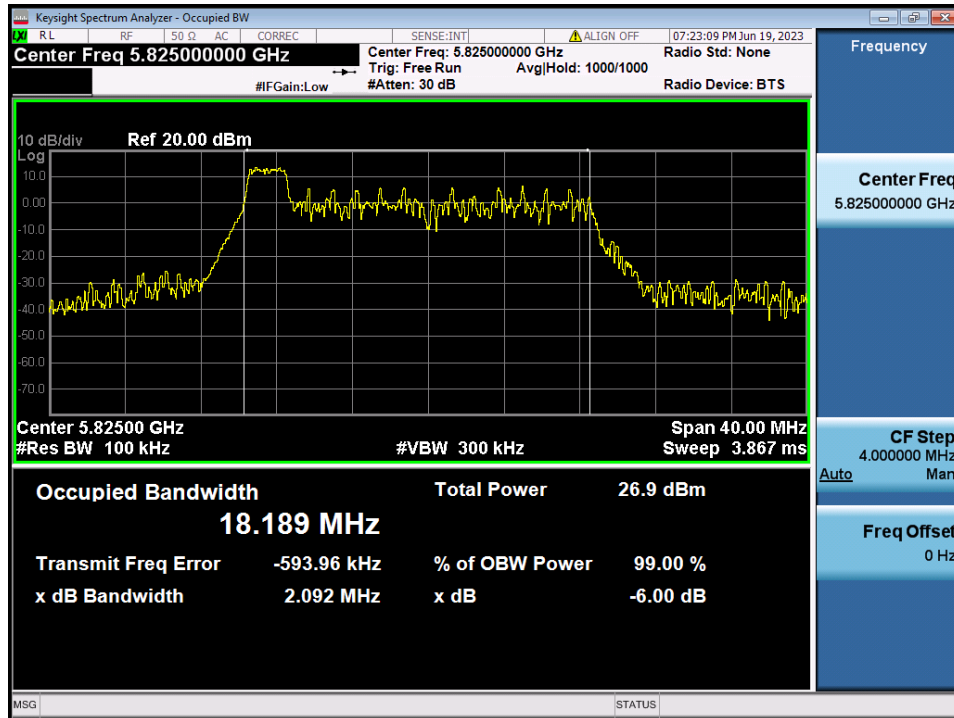
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.157



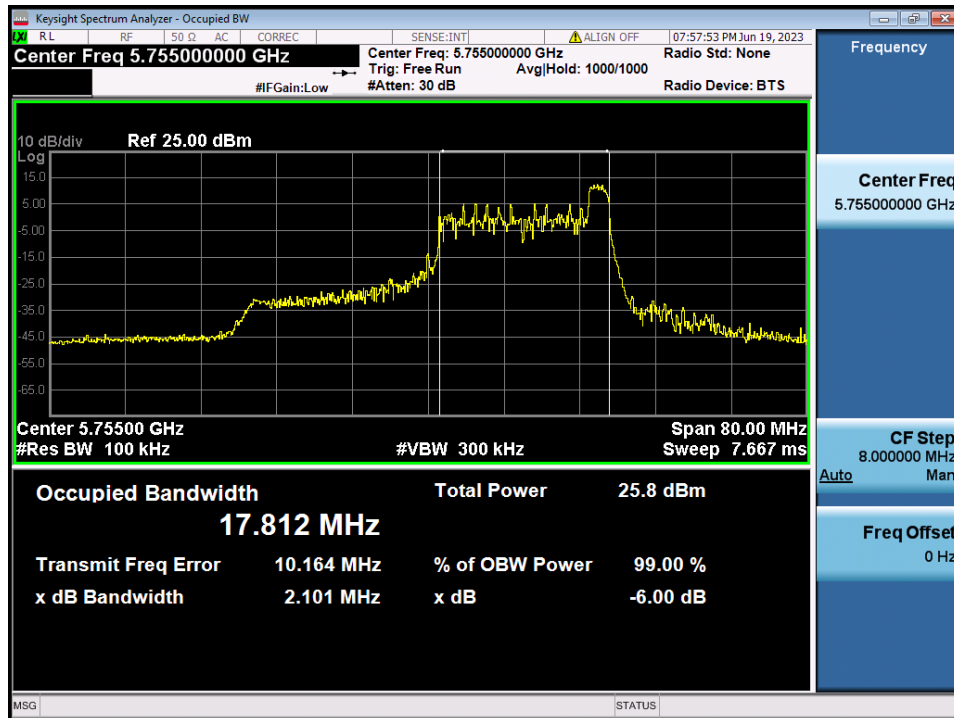
6 dB Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 26 Tone & 0 RU & Ch.165



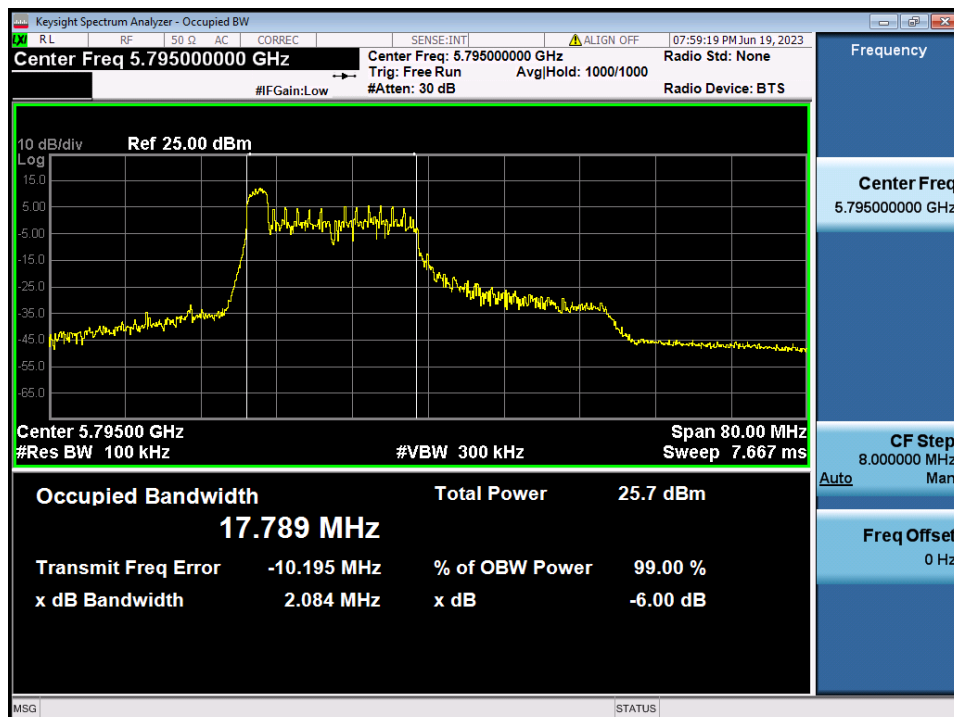
6 dB Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 17 RU & Ch.151



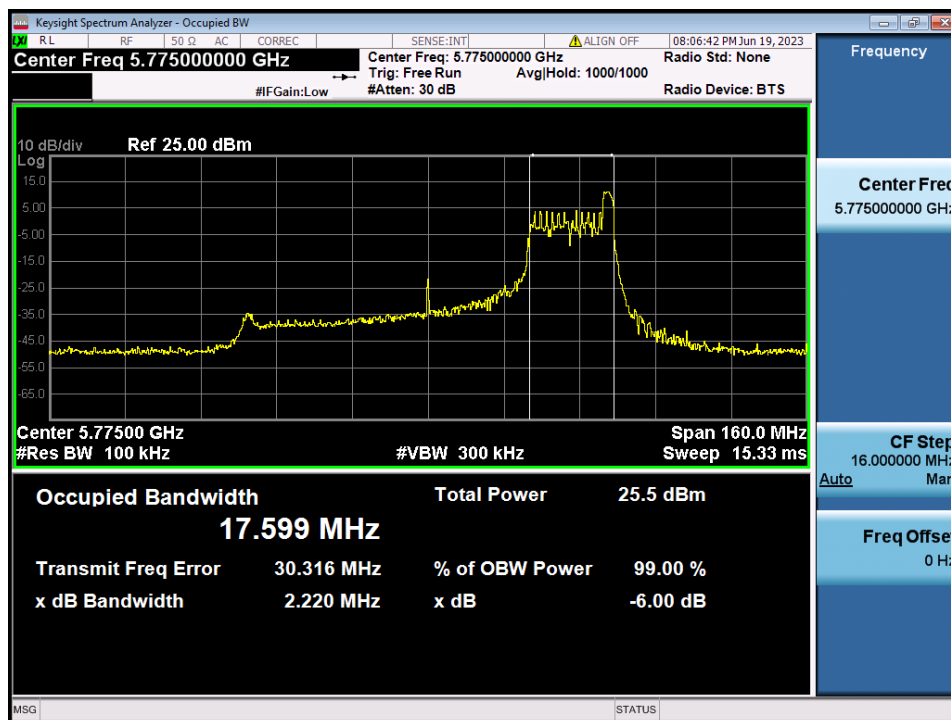
6 dB Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & 26 Tone & 0 RU & Ch.159



6 dB Bandwidth

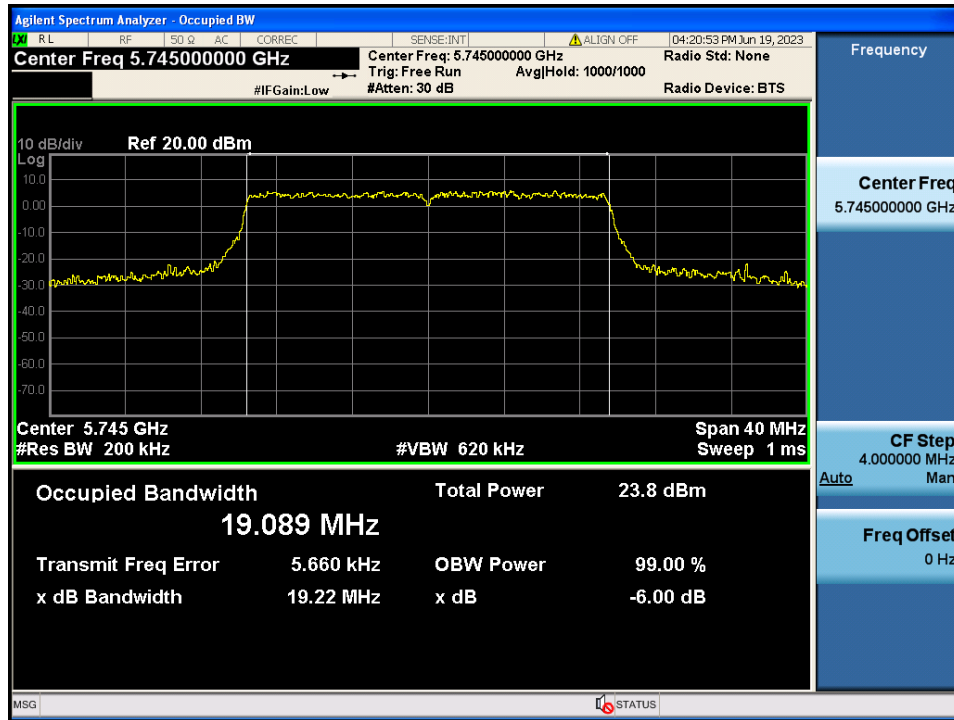
Test Mode: 802.11ax HE80 & ANT 2 & 26 Tone & 36 RU & Ch.155



Note: The worst-case plots(Maximum Occupied Bandwidth) are reported.

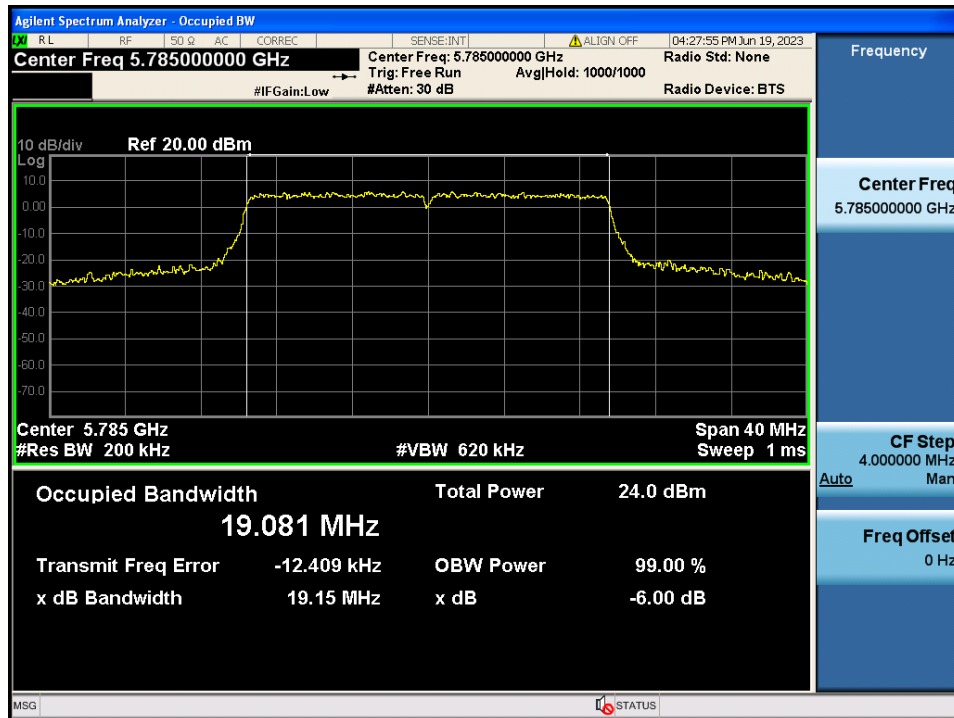
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.149



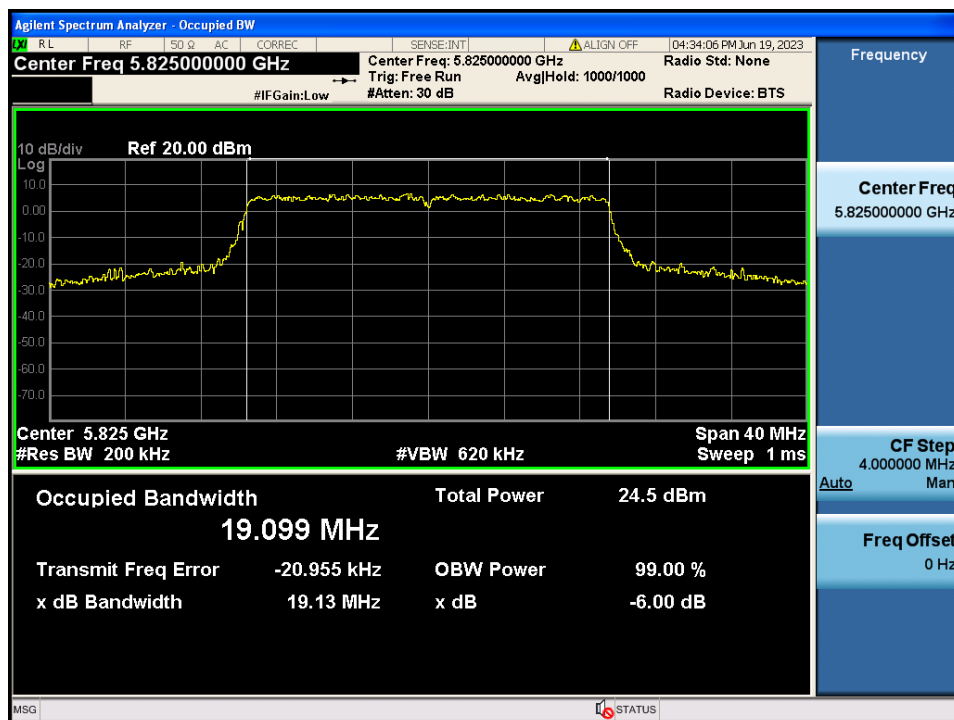
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.157



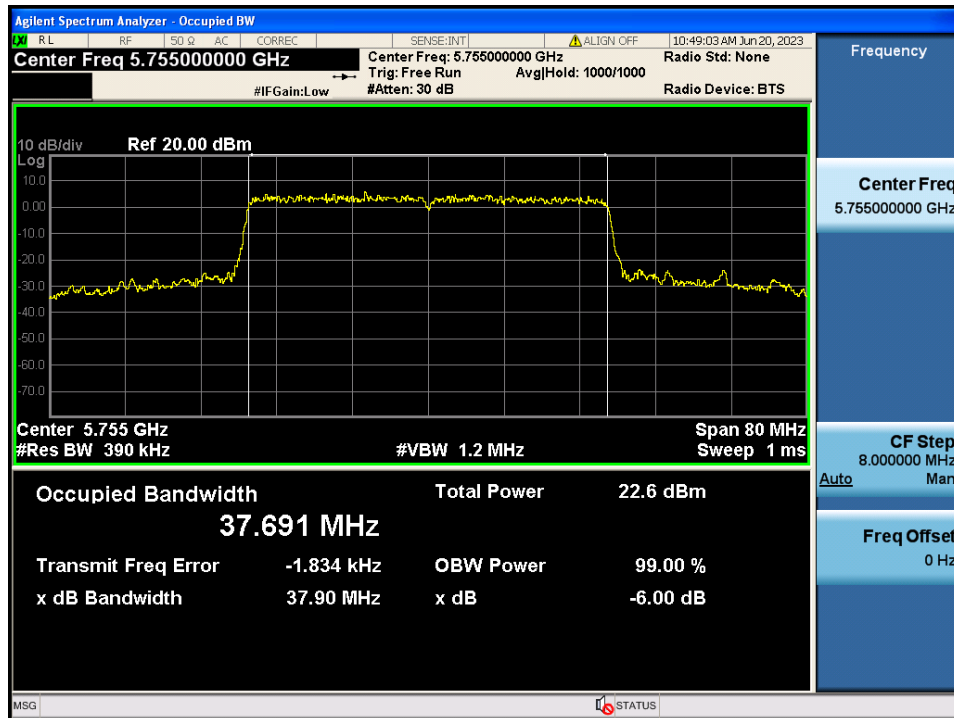
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 1 & 242 Tone & 61 RU & Ch.165



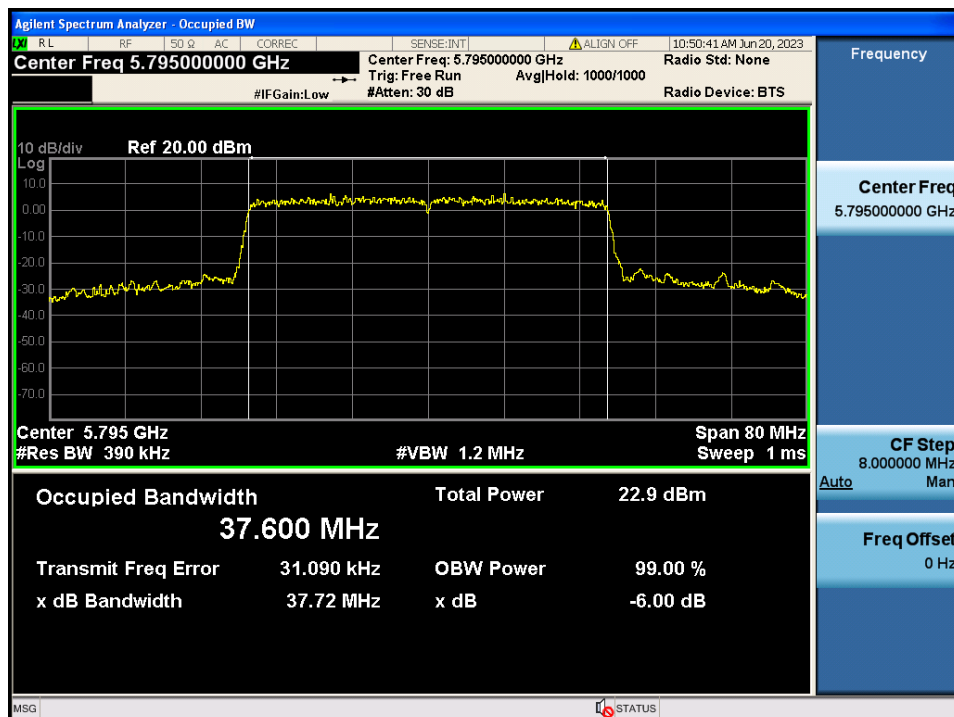
Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & SU & Ch.151



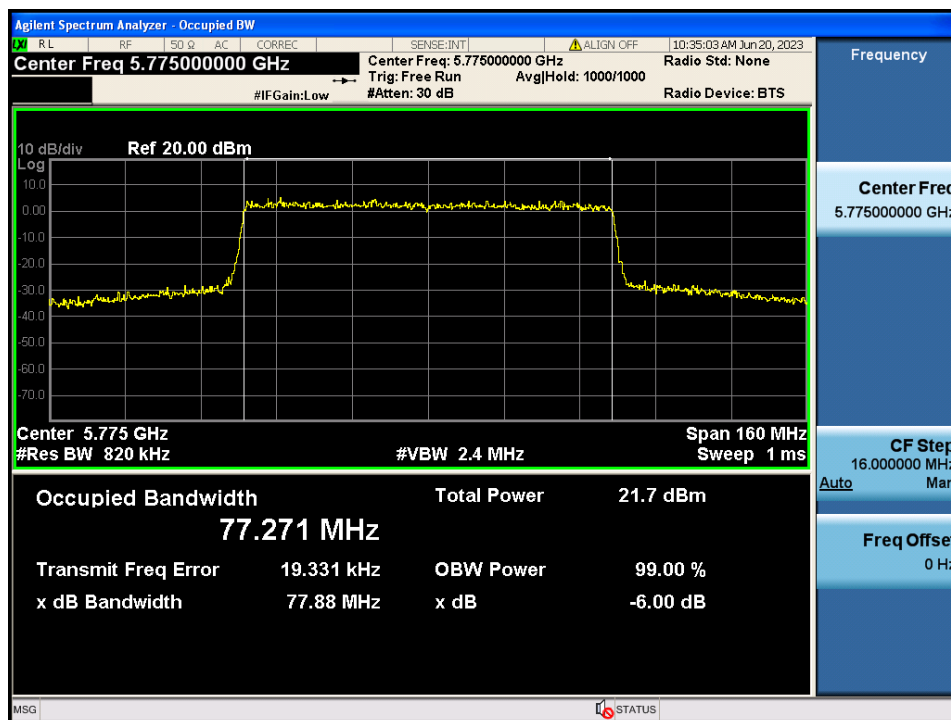
Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 1 & SU & Ch.159



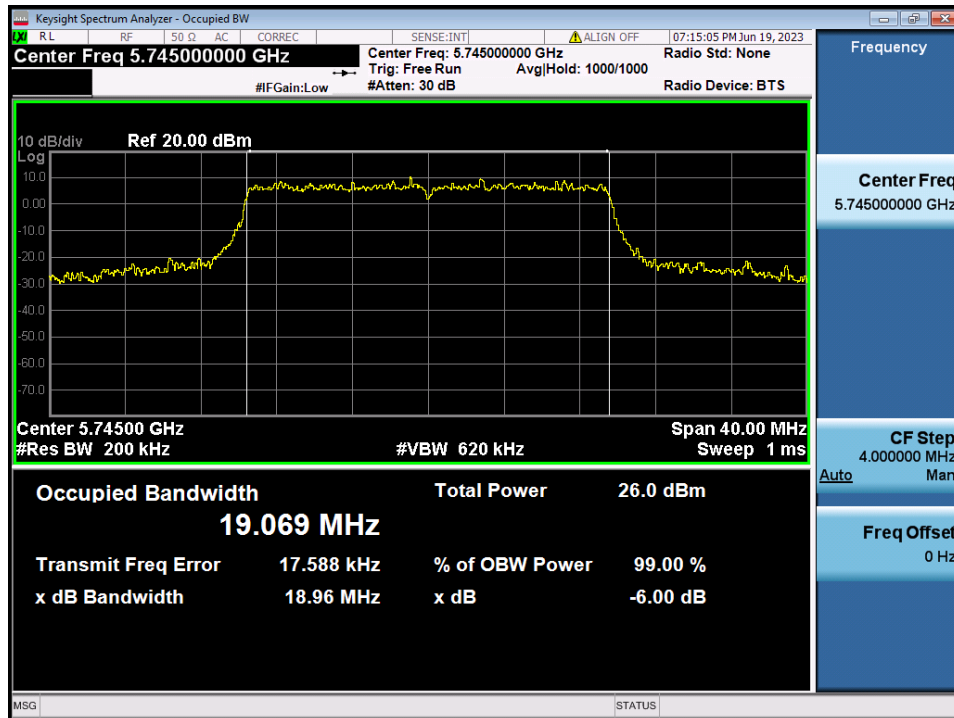
Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 1 & SU & Ch.155



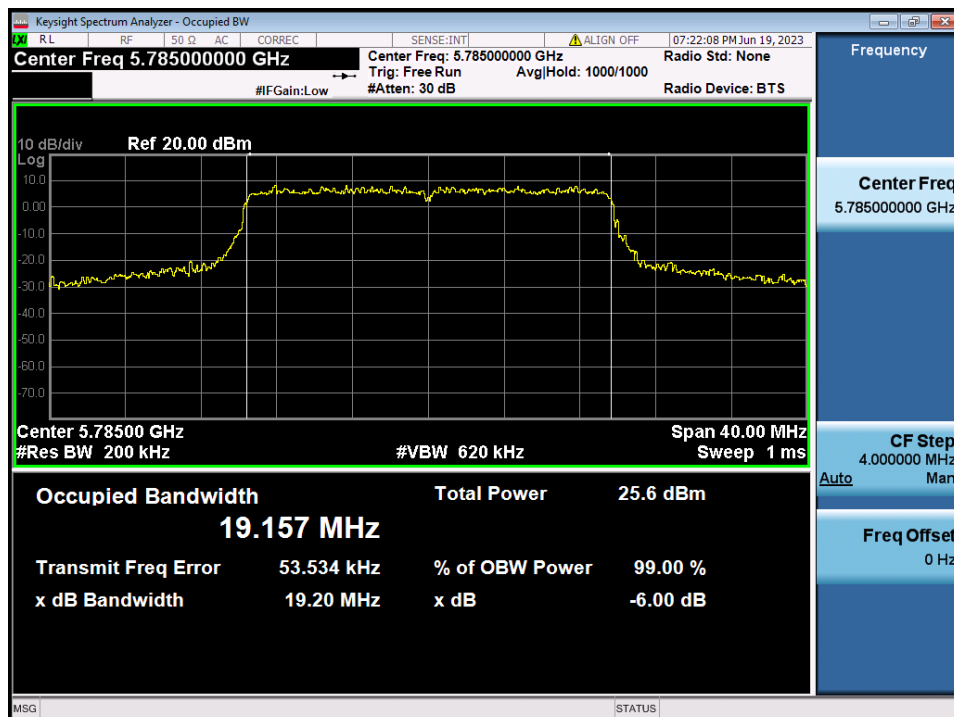
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.149



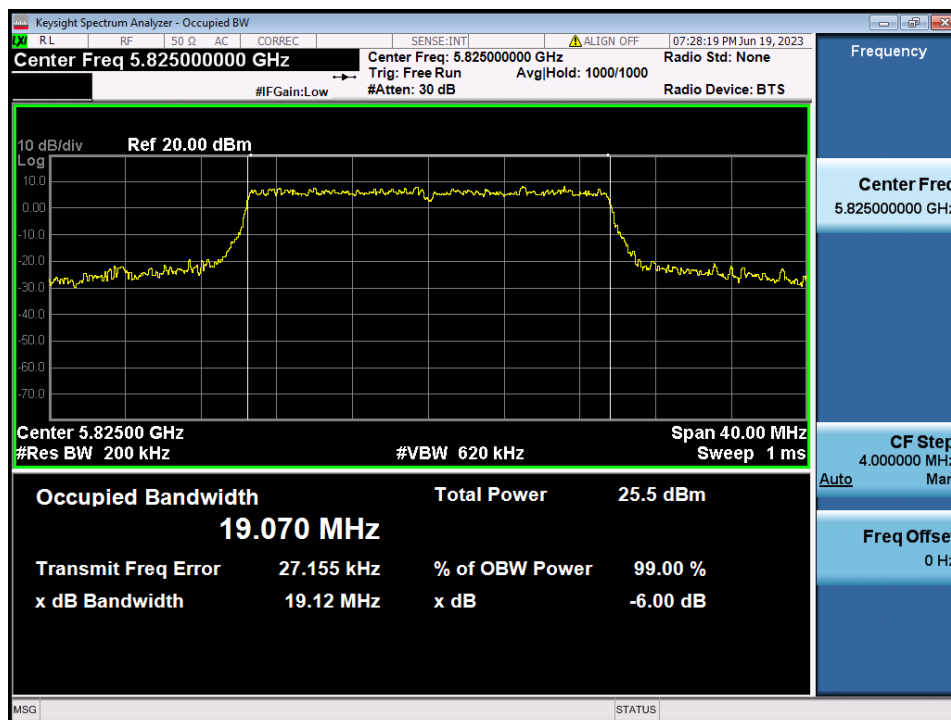
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.157



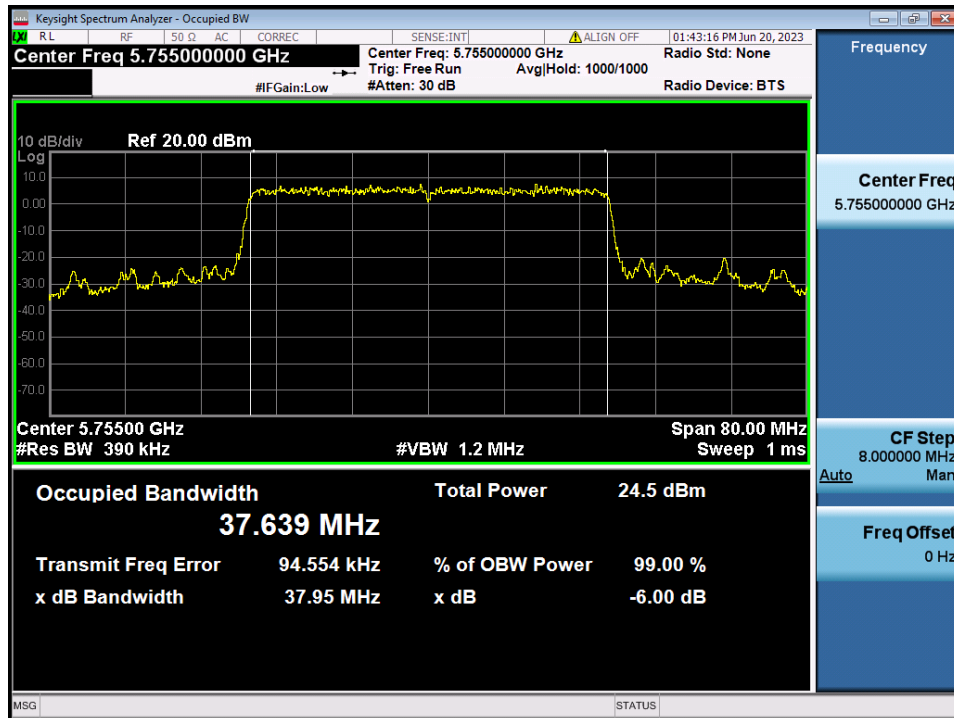
Occupied Bandwidth

Test Mode: 802.11ax HE20 & ANT 2 & 242 Tone & 61 RU & Ch.165



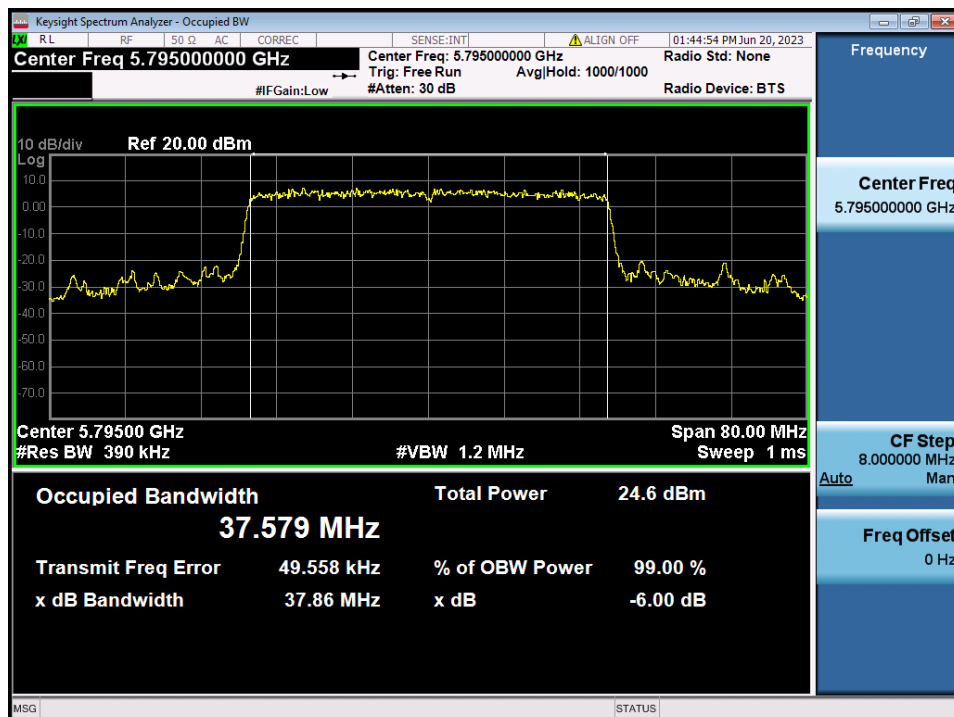
Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & SU & Ch.151



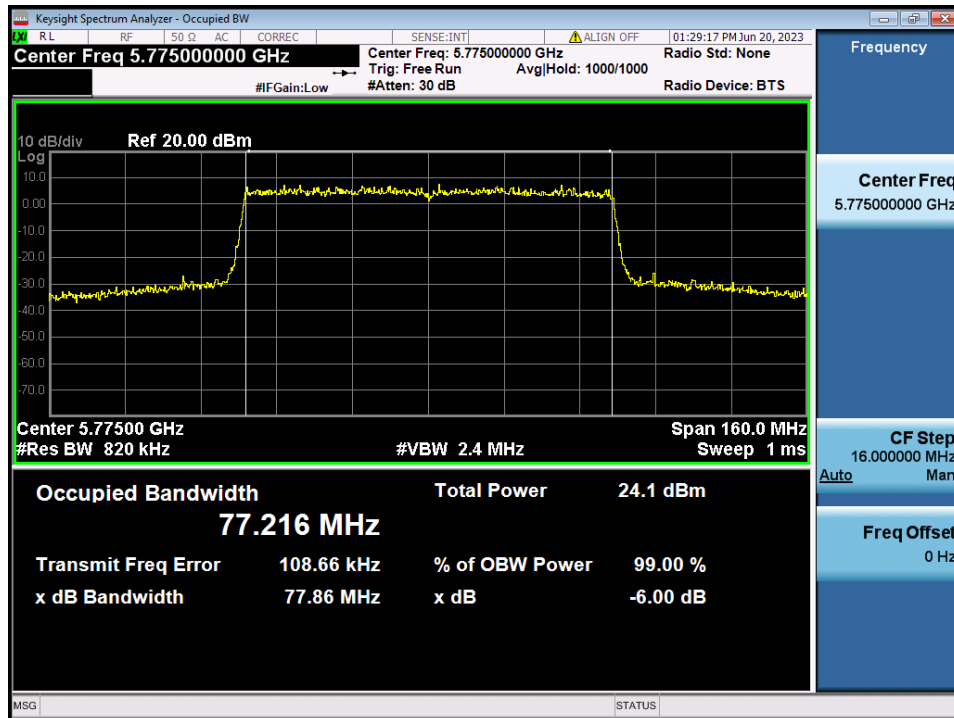
Occupied Bandwidth

Test Mode: 802.11ax HE40 & ANT 2 & SU & Ch.159



Occupied Bandwidth

Test Mode: 802.11ax HE80 & ANT 2 & SU & Ch.155



5.3 Maximum Conducted Output Power

■ Test Requirements

Part. 15.407(a)

(1) For the band 5.15 GHz - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15 GHz - 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25 GHz - 5.35 GHz and 5.47 GHz - 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725 GHz - 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 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

RSS-247[6.2]

(1) For band 5 150 MHz – 5 250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

(2) For band 5 250 MHz – 5 350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

(3) For band 5 470 MHz – 5 600 MHz and 5 650 MHz – 5 725 MHz

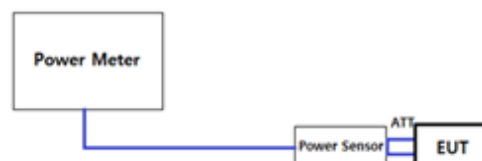
The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

(4) For band 5 725 MHz – 5 850 MHz

The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ Test Configuration



Method PM-G

■ Test Procedure

Method PM-G of KDB789033 D02v02r01

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

■ Test Results: **Comply**

- Summed Output Power: CDD

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE20	5 180	26	0	5.07	3.99	7.57	3.28	10.85
			4	5.42	4.19	7.86	3.28	11.14
			8	5.00	3.98	7.53	3.28	10.81
	5 200	26	0	5.15	4.16	7.69	3.28	10.97
			4	5.30	4.32	7.85	3.28	11.13
			8	4.97	4.11	7.57	3.28	10.85
	5 240	26	0	5.11	4.15	7.67	3.28	10.95
			4	5.18	4.40	7.82	3.28	11.10
			8	4.79	4.25	7.54	3.28	10.82
	5 260	26	0	8.12	7.18	10.69	2.24	12.93
			4	8.43	7.37	10.94	2.24	13.18
			8	7.97	7.20	10.61	2.24	12.85
	5 300	26	0	8.35	7.24	10.84	2.24	13.08
			4	8.20	7.47	10.86	2.24	13.10
			8	8.05	7.31	10.71	2.24	12.95
	5 320	26	0	8.31	7.36	10.87	2.24	13.11
			4	8.33	7.34	10.87	2.24	13.11
			8	8.06	7.22	10.67	2.24	12.91
	5 500	26	0	7.96	7.93	10.96	3.54	14.50
			4	8.19	8.10	11.16	3.54	14.70
			8	7.86	7.90	10.89	3.54	14.43
	5 580	26	0	7.49	7.88	10.70	3.54	14.24
			4	7.70	8.07	10.90	3.54	14.44
			8	7.68	7.80	10.75	3.54	14.29
	5 720	26	0	7.78	7.76	10.78	3.54	14.32
			4	7.81	7.93	10.88	3.54	14.42
			8	7.63	7.60	10.63	3.54	14.17
	5 745	26	0	15.49	15.97	18.75	2.75	21.50
			4	15.48	15.96	18.74	2.75	21.49
			8	15.26	15.89	18.60	2.75	21.35
	5 785	26	0	15.89	15.76	18.84	2.75	21.59
			4	15.95	15.96	18.97	2.75	21.72
			8	15.66	15.62	18.65	2.75	21.40
	5 825	26	0	15.54	15.73	18.65	2.75	21.40
			4	15.71	15.65	18.69	2.75	21.44
			8	15.23	15.55	18.40	2.75	21.15

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE20	5 180	52	37	7.08	4.72	9.07	3.28	12.35
			38	7.05	5.00	9.16	3.28	12.44
			40	6.68	4.97	8.92	3.28	12.20
	5 200	52	37	7.17	4.93	9.20	3.28	12.48
			38	7.03	5.29	9.26	3.28	12.54
			40	6.96	5.11	9.14	3.28	12.42
	5 240	52	37	7.00	4.96	9.11	3.28	12.39
			38	7.22	5.31	9.38	3.28	12.66
			40	6.74	5.16	9.03	3.28	12.31
	5 260	52	37	10.05	9.36	12.73	2.24	14.97
			38	9.98	9.54	12.78	2.24	15.02
			40	9.82	9.42	12.63	2.24	14.87
	5 300	52	37	9.89	9.51	12.71	2.24	14.95
			38	9.99	9.62	12.82	2.24	15.06
			40	9.62	9.45	12.55	2.24	14.79
	5 320	52	37	9.96	9.47	12.73	2.24	14.97
			38	9.98	9.53	12.77	2.24	15.01
			40	9.84	9.49	12.68	2.24	14.92
	5 500	52	37	9.89	9.89	12.90	3.54	16.44
			38	9.88	10.01	12.96	3.54	16.50
			40	9.78	9.79	12.80	3.54	16.34
	5 580	52	37	9.36	9.84	12.62	3.54	16.16
			38	9.51	9.83	12.68	3.54	16.22
			40	9.49	9.83	12.67	3.54	16.21
	5 720	52	37	9.52	9.47	12.51	3.54	16.05
			38	9.62	9.73	12.69	3.54	16.23
			40	9.49	9.56	12.54	3.54	16.08
	5 745	52	37	15.79	15.92	18.87	2.75	21.62
			38	15.83	15.88	18.87	2.75	21.62
			40	15.60	15.95	18.79	2.75	21.54
	5 785	52	37	15.77	15.84	18.82	2.75	21.57
			38	15.93	15.84	18.90	2.75	21.65
			40	15.60	15.75	18.69	2.75	21.44
	5 825	52	37	15.66	15.90	18.79	2.75	21.54
			38	15.69	15.78	18.75	2.75	21.50
			40	15.36	15.72	18.55	2.75	21.30

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE20	5 180	106	53	9.23	8.03	11.68	3.28	14.96
			54	9.02	8.34	11.70	3.28	14.98
	5 200	106	53	9.26	8.36	11.84	3.28	15.12
			54	9.05	8.05	11.59	3.28	14.87
	5 240	106	53	9.08	8.45	11.79	3.28	15.07
			54	8.98	8.47	11.74	3.28	15.02
	5 260	106	53	12.34	12.28	15.32	2.24	17.56
			54	12.16	12.34	15.26	2.24	17.50
	5 300	106	53	12.33	12.32	15.34	2.24	17.58
			54	12.31	12.35	15.34	2.24	17.58
	5 320	106	53	12.38	12.35	15.38	2.24	17.62
			54	12.40	12.42	15.42	2.24	17.66
	5 500	106	53	12.49	12.49	15.50	3.54	19.04
			54	12.46	12.48	15.48	3.54	19.02
	5 580	106	53	12.13	12.45	15.30	3.54	18.84
			54	12.16	12.49	15.34	3.54	18.88
	5 720	106	53	12.23	12.30	15.28	3.54	18.82
			54	12.21	12.13	15.18	3.54	18.72
	5 745	106	53	15.30	15.91	18.63	2.75	21.38
			54	15.73	15.97	18.86	2.75	21.61
	5 785	106	53	15.92	15.82	18.88	2.75	21.63
			54	15.78	15.93	18.87	2.75	21.62
	5 825	106	53	15.60	15.64	18.63	2.75	21.38
			54	15.29	15.61	18.46	2.75	21.21

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE20	5 180	242	61	12.20	11.87	15.05	3.28	18.33
	5 200	242	61	12.14	12.16	15.16	3.28	18.44
	5 240	242	61	11.98	12.17	15.09	3.28	18.37
	5 260	242	61	15.12	15.29	18.22	2.24	20.46
	5 300	242	61	14.97	15.21	18.10	2.24	20.34
	5 320	242	61	15.04	15.25	18.16	2.24	20.40
	5 500	242	61	15.20	15.37	18.30	3.54	21.84
	5 580	242	61	14.97	15.42	18.21	3.54	21.75
	5 720	242	61	14.82	15.18	18.01	3.54	21.55
	5 745	242	61	15.10	15.72	18.43	2.75	21.18
	5 785	242	61	15.66	15.67	18.68	2.75	21.43
	5 825	242	61	15.23	15.34	18.30	2.75	21.05
802.11ax HE20	5 180	SU	NA	11.41	10.85	14.15	3.28	17.43
	5 200	SU	NA	11.38	11.13	14.27	3.28	17.55
	5 240	SU	NA	11.23	11.16	14.21	3.28	17.49
	5 260	SU	NA	15.10	15.12	18.12	2.24	20.36
	5 300	SU	NA	15.07	15.47	18.28	2.24	20.52
	5 320	SU	NA	15.17	15.32	18.26	2.24	20.50
	5 500	SU	NA	15.21	15.45	18.34	3.54	21.88
	5 580	SU	NA	14.93	15.46	18.21	3.54	21.75
	5 720	SU	NA	14.85	15.23	18.05	3.54	21.59
	5 745	SU	NA	15.53	15.65	18.60	2.75	21.35
	5 785	SU	NA	15.65	15.68	18.68	2.75	21.43
	5 825	SU	NA	15.24	15.37	18.32	2.75	21.07

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE40	5 190	26	0	4.11	3.43	6.79	3.28	10.07
			8	4.68	4.15	7.43	3.28	10.71
			17	4.13	3.58	6.87	3.28	10.15
	5 230	26	0	4.16	3.65	6.92	3.28	10.20
			8	4.56	4.35	7.47	3.28	10.75
			17	3.90	3.78	6.85	3.28	10.13
	5 270	26	0	7.62	6.83	10.25	2.24	12.49
			8	8.09	7.49	10.81	2.24	13.05
			17	7.44	6.91	10.19	2.24	12.43
	5 310	26	0	7.49	6.92	10.22	2.24	12.46
			8	7.94	7.53	10.75	2.24	12.99
			17	7.41	7.20	10.32	2.24	12.56
	5 510	26	0	7.27	7.61	10.45	3.54	13.99
			8	7.90	8.31	11.12	3.54	14.66
			17	7.28	7.90	10.61	3.54	14.15
	5 550	26	0	7.20	7.55	10.39	3.54	13.93
			8	7.80	8.29	11.06	3.54	14.60
			17	8.01	8.39	11.21	3.54	14.75
	5 710	26	0	7.05	7.27	10.17	3.54	13.71
			8	7.75	7.78	10.78	3.54	14.32
			17	7.05	7.38	10.23	3.54	13.77
	5 755	26	0	13.81	14.75	17.32	2.75	20.07
			8	14.34	14.93	17.66	2.75	20.41
			17	13.89	14.65	17.30	2.75	20.05
	5 795	26	0	13.49	14.26	16.90	2.75	19.65
			8	14.39	14.92	17.67	2.75	20.42
			17	13.77	14.26	17.03	2.75	19.78

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE40	5 190	52	37	6.34	4.36	8.47	3.28	11.75
			40	6.75	5.01	8.98	3.28	12.26
			44	6.32	4.61	8.56	3.28	11.84
	5 230	52	37	6.37	4.76	8.65	3.28	11.93
			40	6.90	5.24	9.16	3.28	12.44
			44	6.35	4.63	8.58	3.28	11.86
	5 270	52	37	9.48	8.86	12.19	2.24	14.43
			40	9.69	9.62	12.67	2.24	14.91
			44	9.41	9.23	12.33	2.24	14.57
	5 310	52	37	9.25	9.13	12.20	2.24	14.44
			40	9.47	9.55	12.52	2.24	14.76
			44	9.29	9.33	12.32	2.24	14.56
	5 510	52	37	9.21	9.71	12.48	3.54	16.02
			40	9.68	9.96	12.83	3.54	16.37
			44	9.12	9.82	12.49	3.54	16.03
	5 550	52	37	9.05	9.48	12.28	3.54	15.82
			40	9.62	9.98	12.81	3.54	16.35
			44	9.11	9.74	12.45	3.54	15.99
	5 710	52	37	8.87	9.13	12.01	3.54	15.55
			40	9.33	9.54	12.45	3.54	15.99
			44	8.96	9.13	12.06	3.54	15.60
	5 755	52	37	14.01	14.71	17.38	2.75	20.13
			40	14.44	14.97	17.72	2.75	20.47
			44	14.07	14.79	17.46	2.75	20.21
	5 795	52	37	13.75	14.49	17.15	2.75	19.90
			40	14.28	14.99	17.66	2.75	20.41
			44	14.03	14.64	17.36	2.75	20.11

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE40	5 190	106	53	8.53	7.94	11.26	3.28	14.54
			54	8.77	8.28	11.54	3.28	14.82
			56	8.76	7.93	11.38	3.28	14.66
	5 230	106	53	8.74	8.06	11.42	3.28	14.70
			54	8.80	8.43	11.63	3.28	14.91
			56	8.51	8.04	11.29	3.28	14.57
	5 270	106	53	11.64	11.97	14.82	2.24	17.06
			54	11.85	12.37	15.13	2.24	17.37
			56	11.82	12.07	14.96	2.24	17.20
	5 310	106	53	11.61	12.07	14.86	2.24	17.10
			54	11.79	12.37	15.10	2.24	17.34
			56	11.86	12.34	15.12	2.24	17.36
	5 510	106	53	11.97	12.33	15.16	3.54	18.70
			54	12.38	12.39	15.40	3.54	18.94
			56	11.98	12.35	15.18	3.54	18.72
	5 550	106	53	11.79	12.22	15.02	3.54	18.56
			54	12.12	12.39	15.27	3.54	18.81
			56	11.95	12.22	15.10	3.54	18.64
	5 710	106	53	11.56	12.06	14.83	3.54	18.37
			54	11.66	12.27	14.99	3.54	18.53
			56	11.51	12.04	14.79	3.54	18.33
	5 755	106	53	13.90	14.73	17.35	2.75	20.10
			54	14.15	14.94	17.57	2.75	20.32
			56	13.92	14.73	17.35	2.75	20.10
	5 795	106	53	13.64	14.64	17.18	2.75	19.93
			54	14.11	14.96	17.57	2.75	20.32
			56	13.72	14.69	17.24	2.75	19.99

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE40	5 190	242	61	11.45	11.83	14.65	3.28	17.93
			62	11.58	12.06	14.84	3.28	18.12
	5 230	242	61	11.54	12.01	14.79	3.28	18.07
			62	11.46	12.03	14.76	3.28	18.04
	5 270	242	61	13.69	14.06	16.89	2.24	19.13
			62	13.82	14.18	17.01	2.24	19.25
	5 310	242	61	13.43	14.05	16.76	2.24	19.00
			62	13.68	14.18	16.95	2.24	19.19
	5 510	242	61	13.85	14.70	17.31	3.54	20.85
			62	13.95	14.76	17.38	3.54	20.92
	5 550	242	61	14.11	14.67	17.41	3.54	20.95
			62	14.09	14.67	17.40	3.54	20.94
	5 710	242	61	13.23	14.19	16.75	3.54	20.29
			62	13.35	14.26	16.84	3.54	20.38
	5 755	242	61	13.83	14.57	17.23	2.75	19.98
			62	13.96	14.74	17.38	2.75	20.13
	5 795	242	61	13.82	14.40	17.13	2.75	19.88
			62	13.74	14.62	17.21	2.75	19.96
802.11ax HE40	5 190	484	65	13.13	13.28	16.22	3.28	19.50
	5 230	484	65	13.10	13.30	16.21	3.28	19.49
	5 270	484	65	13.36	13.40	16.39	2.24	18.63
	5 310	484	65	13.13	13.53	16.34	2.24	18.58
	5 510	484	65	13.21	13.70	16.47	3.54	20.01
	5 550	484	65	13.30	14.07	16.71	3.54	20.25
	5 710	484	65	13.05	13.38	16.23	3.54	19.77
	5 755	484	65	13.21	13.91	16.58	2.75	19.33
	5 795	484	65	13.36	13.91	16.65	2.75	19.40
802.11ax HE40	5 190	SU	NA	13.60	13.74	16.68	3.28	19.96
	5 230	SU	NA	13.61	13.93	16.78	3.28	20.06
	5 270	SU	NA	13.79	13.87	16.84	2.24	19.08
	5 310	SU	NA	13.57	13.91	16.75	2.24	18.99
	5 510	SU	NA	13.70	14.26	17.00	3.54	20.54
	5 550	SU	NA	14.05	14.38	17.23	3.54	20.77
	5 710	SU	NA	13.23	13.68	16.47	3.54	20.01
	5 755	SU	NA	13.79	14.43	17.13	2.75	19.88
	5 795	SU	NA	13.90	14.31	17.12	2.75	19.87

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE80	5 210	26	0	4.19	3.52	6.88	3.28	10.16
			18	4.28	3.33	6.84	3.28	10.12
			36	3.89	4.07	6.99	3.28	10.27
	5 290	26	0	7.95	6.88	10.46	2.24	12.70
			18	7.21	6.09	9.70	2.24	11.94
			36	7.32	6.92	10.13	2.24	12.37
	5 530	26	0	7.36	7.70	10.54	3.54	14.08
			18	6.90	7.18	10.05	3.54	13.59
			36	7.32	7.61	10.48	3.54	14.02
	5 690	26	0	7.05	7.57	10.33	3.54	13.87
			18	6.40	6.82	9.63	3.54	13.17
			36	6.98	7.45	10.23	3.54	13.77
802.11ax HE80	5 210	52	0	13.13	13.87	16.53	2.75	19.28
			18	13.18	13.84	16.53	2.75	19.28
			36	13.30	13.66	16.49	2.75	19.24
	5 290	52	37	6.38	4.59	8.59	3.28	11.87
			44	6.44	4.83	8.72	3.28	12.00
			52	6.38	4.93	8.73	3.28	12.01
	5 530	52	37	9.51	9.10	12.32	2.24	14.56
			44	9.37	9.26	12.33	2.24	14.57
			52	9.10	9.30	12.21	2.24	14.45
	5 690	52	37	9.24	9.73	12.50	3.54	16.04
			44	9.37	9.92	12.66	3.54	16.20
			52	9.17	9.58	12.39	3.54	15.93
	5 775	52	37	8.85	9.39	12.14	3.54	15.68
			44	9.03	9.38	12.22	3.54	15.76
			52	8.89	9.15	12.03	3.54	15.57

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE80	5 210	106	53	8.84	7.91	11.41	3.28	14.69
			56	8.72	7.95	11.36	3.28	14.64
			60	8.48	8.26	11.38	3.28	14.66
	5 290	106	53	11.84	11.87	14.87	2.24	17.11
			56	11.81	11.88	14.86	2.24	17.10
			60	11.69	11.81	14.76	2.24	17.00
	5 530	106	53	11.88	11.87	14.89	3.54	18.43
			56	11.89	11.81	14.86	3.54	18.40
			60	11.81	11.86	14.85	3.54	18.39
	5 690	106	53	11.71	11.80	14.77	3.54	18.31
			56	11.78	11.83	14.82	3.54	18.36
			60	11.78	11.79	14.80	3.54	18.34
	5 775	106	53	13.22	13.77	16.51	2.75	19.26
			56	13.35	13.71	16.54	2.75	19.29
			60	13.28	13.65	16.48	2.75	19.23
802.11ax HE80	5 210	242	61	11.77	11.83	14.81	3.28	18.09
			62	11.35	11.45	14.41	3.28	17.69
			64	11.76	11.88	14.83	3.28	18.11
	5 290	242	61	12.59	12.89	15.75	2.24	17.99
			62	12.11	12.54	15.34	2.24	17.58
			64	12.55	12.94	15.76	2.24	18.00
	5 530	242	61	13.26	13.26	16.27	3.54	19.81
			62	12.48	13.13	15.83	3.54	19.37
			64	13.15	13.44	16.31	3.54	19.85
	5 690	242	61	12.62	13.07	15.86	3.54	19.40
			62	12.05	12.77	15.44	3.54	18.98
			64	13.60	13.97	16.80	3.54	20.34
	5 775	242	61	13.25	13.58	16.43	2.75	19.18
			62	12.72	13.10	15.92	2.75	18.67
			64	13.20	13.57	16.40	2.75	19.15

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (CDD)		
802.11ax HE80	5 210	484	65	12.18	12.28	15.24	3.28	18.52
			66	12.10	12.53	15.33	3.28	18.61
	5 290	484	65	12.04	12.30	15.18	2.24	17.42
			66	12.05	12.46	15.27	2.24	17.51
	5 530	484	65	12.22	13.03	15.65	3.54	19.19
			66	12.15	12.98	15.60	3.54	19.14
	5 690	484	65	12.02	12.47	15.26	3.54	18.80
			66	12.03	12.39	15.22	3.54	18.76
802.11ax HE80	5 775	484	65	12.47	12.99	15.75	2.75	18.50
			66	12.51	13.11	15.83	2.75	18.58
	5 210	996	67	12.04	12.07	15.07	3.28	18.35
	5 290	996	67	12.08	12.27	15.19	2.24	17.43
	5 530	996	67	12.03	12.71	15.39	3.54	18.93
802.11ax HE80	5 690	996	67	12.04	12.25	15.16	3.54	18.70
	5 775	996	67	12.37	12.81	15.61	2.75	18.36
	5 210	SU	NA	12.39	12.53	15.47	3.28	18.75
	5 290	SU	NA	12.16	12.68	15.44	2.24	17.68
	5 530	SU	NA	12.26	12.98	15.65	3.54	19.19
802.11ax HE80	5 690	SU	NA	12.07	12.66	15.39	3.54	18.93
	5 775	SU	NA	12.81	13.17	16.00	2.75	18.75

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

- Summed Output Power: SDM

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (SDM)		
802.11ax HE20	5 180	26	0	5.00	3.91	7.50	0.28	7.78
			4	5.37	4.09	7.79	0.28	8.07
			8	4.93	3.89	7.45	0.28	7.73
	5 200	26	0	5.06	4.06	7.60	0.28	7.88
			4	5.21	4.25	7.77	0.28	8.05
			8	4.88	4.01	7.48	0.28	7.76
	5 240	26	0	5.06	4.09	7.61	0.28	7.89
			4	5.11	4.30	7.73	0.28	8.01
			8	4.71	4.18	7.46	0.28	7.74
	5 260	26	0	8.06	7.09	10.61	-0.74	9.87
			4	8.33	7.28	10.85	-0.74	10.11
			8	7.88	7.14	10.54	-0.74	9.80
	5 300	26	0	8.25	7.16	10.75	-0.74	10.01
			4	8.15	7.41	10.81	-0.74	10.07
			8	7.99	7.23	10.64	-0.74	9.90
	5 320	26	0	8.25	7.28	10.80	-0.74	10.06
			4	8.26	7.28	10.81	-0.74	10.07
			8	8.01	7.16	10.62	-0.74	9.88
	5 500	26	0	7.87	7.85	10.87	0.55	11.42
			4	8.11	8.05	11.09	0.55	11.64
			8	7.76	7.81	10.80	0.55	11.35
	5 580	26	0	7.40	7.78	10.60	0.55	11.15
			4	7.61	7.99	10.81	0.55	11.36
			8	7.63	7.75	10.70	0.55	11.25
	5 720	26	0	7.72	7.66	10.70	0.55	11.25
			4	7.76	7.83	10.81	0.55	11.36
			8	7.54	7.53	10.55	0.55	11.10
	5 745	26	0	15.44	15.90	18.69	-0.25	18.44
			4	15.40	15.90	18.67	-0.25	18.42
			8	15.16	15.84	18.52	-0.25	18.27
	5 785	26	0	15.83	15.70	18.78	-0.25	18.53
			4	15.90	15.86	18.89	-0.25	18.64
			8	15.56	15.57	18.58	-0.25	18.33
	5 825	26	0	15.46	15.63	18.56	-0.25	18.31
			4	15.65	15.57	18.62	-0.25	18.37
			8	15.15	15.48	18.33	-0.25	18.08

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (SDM)		
802.11ax HE20	5 180	52	37	6.98	4.62	8.97	0.28	9.25
			38	6.97	4.91	9.07	0.28	9.35
			40	6.62	4.90	8.85	0.28	9.13
	5 200	52	37	7.10	4.84	9.13	0.28	9.41
			38	6.97	5.21	9.19	0.28	9.47
			40	6.88	5.02	9.06	0.28	9.34
	5 240	52	37	6.93	4.91	9.05	0.28	9.33
			38	7.13	5.26	9.31	0.28	9.59
			40	6.66	5.09	8.96	0.28	9.24
	5 260	52	37	9.99	9.29	12.66	-0.74	11.92
			38	9.93	9.48	12.72	-0.74	11.98
			40	9.72	9.33	12.54	-0.74	11.80
	5 300	52	37	9.79	9.43	12.62	-0.74	11.88
			38	9.93	9.53	12.74	-0.74	12.00
			40	9.52	9.35	12.45	-0.74	11.71
	5 320	52	37	9.88	9.37	12.64	-0.74	11.90
			38	9.90	9.47	12.70	-0.74	11.96
			40	9.75	9.41	12.59	-0.74	11.85
	5 500	52	37	9.79	9.80	12.81	0.55	13.36
			38	9.82	9.94	12.89	0.55	13.44
			40	9.68	9.73	12.72	0.55	13.27
	5 580	52	37	9.26	9.74	12.52	0.55	13.07
			38	9.45	9.73	12.60	0.55	13.15
			40	9.44	9.75	12.61	0.55	13.16
	5 720	52	37	9.42	9.40	12.42	0.55	12.97
			38	9.55	9.68	12.63	0.55	13.18
			40	9.42	9.49	12.47	0.55	13.02
	5 745	52	37	15.69	15.83	18.77	-0.25	18.52
			38	15.73	15.78	18.77	-0.25	18.52
			40	15.50	15.88	18.70	-0.25	18.45
	5 785	52	37	15.68	15.74	18.72	-0.25	18.47
			38	15.83	15.78	18.82	-0.25	18.57
			40	15.50	15.68	18.60	-0.25	18.35
	5 825	52	37	15.59	15.84	18.73	-0.25	18.48
			38	15.62	15.69	18.67	-0.25	18.42
			40	15.28	15.65	18.48	-0.25	18.23

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (SDM)		
802.11ax HE20	5 180	106	53	9.17	7.97	11.62	0.28	11.90
			54	8.94	8.25	11.62	0.28	11.90
	5 200	106	53	9.18	8.26	11.75	0.28	12.03
			54	8.96	7.98	11.51	0.28	11.79
	5 240	106	53	9.00	8.36	11.70	0.28	11.98
			54	8.88	8.37	11.64	0.28	11.92
	5 260	106	53	12.29	12.20	15.26	-0.74	14.52
			54	12.10	12.24	15.18	-0.74	14.44
	5 300	106	53	12.23	12.25	15.25	-0.74	14.51
			54	12.22	12.25	15.25	-0.74	14.51
	5 320	106	53	12.31	12.27	15.30	-0.74	14.56
			54	12.34	12.35	15.36	-0.74	14.62
	5 500	106	53	12.49	12.48	15.50	0.55	16.05
			54	12.38	12.46	15.43	0.55	15.98
	5 580	106	53	12.06	12.46	15.27	0.55	15.82
			54	12.07	12.41	15.25	0.55	15.80
	5 720	106	53	12.18	12.23	15.22	0.55	15.77
			54	12.11	12.03	15.08	0.55	15.63
	5 745	106	53	15.24	15.82	18.55	-0.25	18.30
			54	15.67	15.91	18.80	-0.25	18.55
	5 785	106	53	15.87	15.74	18.82	-0.25	18.57
			54	15.70	15.83	18.78	-0.25	18.53
	5 825	106	53	15.53	15.54	18.55	-0.25	18.30
			54	15.24	15.56	18.41	-0.25	18.16

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain

Mode	Freq.[MHz]	Tone	RU Index	Test Result [dBm]			Antenna Gain(dBi)	e.i.r.p ^{Note1} (dBm)
				ANT 1	ANT 2	ANT1+ANT2 (SDM)		
802.11ax HE20	5 180	242	61	12.11	11.80	14.97	0.28	15.25
	5 200	242	61	12.06	12.10	15.09	0.28	15.37
	5 240	242	61	11.92	12.10	15.02	0.28	15.30
	5 260	242	61	15.05	15.23	18.15	-0.74	17.41
	5 300	242	61	14.90	15.16	18.04	-0.74	17.30
	5 320	242	61	14.96	15.16	18.07	-0.74	17.33
	5 500	242	61	15.13	15.48	18.32	0.55	18.87
	5 580	242	61	14.87	15.33	18.12	0.55	18.67
	5 720	242	61	14.74	15.08	17.92	0.55	18.47
	5 745	242	61	15.00	15.66	18.35	-0.25	18.10
	5 785	242	61	15.57	15.62	18.61	-0.25	18.36
	5 825	242	61	15.17	15.26	18.23	-0.25	17.98
802.11ax HE20	5 180	SU	NA	11.33	10.78	14.07	0.28	14.35
	5 200	SU	NA	11.31	11.05	14.19	0.28	14.47
	5 240	SU	NA	11.18	11.10	14.15	0.28	14.43
	5 260	SU	NA	15.05	15.07	18.07	-0.74	17.33
	5 300	SU	NA	15.00	15.39	18.21	-0.74	17.47
	5 320	SU	NA	15.08	15.25	18.18	-0.74	17.44
	5 500	SU	NA	15.15	15.48	18.33	0.55	18.88
	5 580	SU	NA	14.86	15.37	18.13	0.55	18.68
	5 720	SU	NA	14.76	15.16	17.97	0.55	18.52
	5 745	SU	NA	15.46	15.57	18.53	-0.25	18.28
	5 785	SU	NA	15.59	15.58	18.60	-0.25	18.35
	5 825	SU	NA	15.14	15.29	18.23	-0.25	17.98

Note 1: e.i.r.p= Conducted Output Power + Antenna Gain