



## MEASUREMENT REPORT

### FCC PART 15.247 / ISSED RSS-247 WLAN 802.11b/g/n/ax(SU)

**Applicant Name:**

Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014  
United States

**Date of Testing:**

6/2/2021 - 8/11/2021

**Test Site/Location:**

PCTEST Lab. Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2106080048-01-R1.BCG

**FCC ID:**

BCGA2567

**IC:**

579C-A2567

**APPLICANT:**

Apple Inc.

**Application Type:**

Certification

**Model/HVIN:**

A2567

**EUT Type:**

Tablet Device

**Frequency Range:**

2412 – 2472MHz

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Part(s):**

Part 15 Subpart C (15.247)

**ISED Specification:**

RSS-247 Issue 2


**Test Procedure(s):**

ANSI C63.10-2013, KDB 558074 D01 v05r02,  
KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N:1C2106080048-01-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

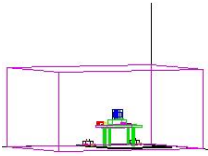
  
Randy Ortanez  
President

FCC ID: BCGA2567 IC: 579C-A2567	 PCTEST Proud to be part of element <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
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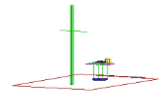
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Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11g	2412 - 2472	142.561	21.54	466.659	26.69	144.544	21.60	481.948	26.83
802.11n	2412 - 2472	118.850	20.75	479.733	26.81	118.850	20.75	516.416	27.13
802.11ax (SU)	2412 - 2467	118.850	20.75	440.555	26.44	118.577	20.74	447.713	26.51

## EUT Overview SISO (Low Data Rate)

Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11g	2412 - 2472	118.850	20.75	439.542	26.43	118.850	20.75	436.516	26.40	237.684	23.76	874.984	29.42
802.11n	2412 - 2472	117.490	20.70	424.620	26.28	118.850	20.75	428.549	26.32	234.963	23.71	853.100	29.31
802.11ax (SU)	2412 - 2467	110.917	20.45	435.512	26.39	112.202	20.50	437.522	26.41	223.357	23.49	872.971	29.41

## EUT Overview CDD (Low Data Rate)

Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11g	2412 - 2472	147.571	21.69	534.564	27.28	141.254	21.50	514.044	27.11
802.11n	2412 - 2472	117.761	20.71	509.331	27.07	118.850	20.75	523.600	27.19
802.11ax (SU)	2412 - 2467	116.413	20.66	503.501	27.02	118.032	20.72	490.908	26.91

## EUT Overview SISO (Mid Data Rate)

Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11g	2412 - 2472	117.490	20.70	401.791	26.04	116.413	20.66	391.742	25.93	233.884	23.69	794.328	29.00
802.11n	2412 - 2472	118.577	20.74	467.735	26.70	117.220	20.69	457.088	26.60	236.048	23.73	924.698	29.66
802.11ax (SU)	2412 - 2467	94.406	19.75	470.977	26.73	95.719	19.81	470.977	26.73	190.108	22.79	941.890	29.74

## EUT Overview CDD (Mid Data Rate)

Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11b	2412 - 2472	199.526	23.00	381.944	25.82	199.526	23.00	376.704	25.76
802.11g	2412 - 2472	118.304	20.73	579.429	27.63	115.345	20.62	568.853	27.55
802.11n	2412 - 2472	118.850	20.75	562.341	27.50	117.490	20.70	563.638	27.51
802.11ax (SU)	2412 - 2467	97.949	19.91	539.511	27.32	99.770	19.99	542.001	27.34

## EUT Overview SISO (High Data Rate)

Mode	Tx Frequency (MHz)	Antenna WF8				Antenna WF7				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11g	2412 - 2472	105.196	20.22	478.630	26.80	110.662	20.44	494.311	26.94	215.774	23.34	972.747	29.88
802.11n	2412 - 2472	111.173	20.46	483.059	26.84	109.901	20.41	504.661	27.03	221.309	23.45	981.748	29.92
802.11ax (SU)	2412 - 2467	89.125	19.50	477.529	26.79	84.528	19.27	474.242	26.76	173.780	22.40	952.796	29.79

## EUT Overview CDD (High Data Rate)

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## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

### 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISED.

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2567, IC: 579C-A2567**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

**Test Device Serial No.:** TK2519LV36, MFW4070T57, GWKWQR6D99

### 2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT

This device supports BT Beamforming

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13*	2472
7	2442		

**Table 2-1. 802.11b/g/n/ax Frequency/ Channel Operations**

\*Channel 13 is disabled for DTS 802.11ax HE20.

**Note:** The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10-2013. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

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Measured Duty Cycles				
802.11 Mode/Band		Duty Cycle [%]		
		Antenna WF8	Antenna WF7	CDD
2.4GHz	b	98.2	98.3	N/A
	g (Low Data Rate)	98.7	98.6	97.8
	g (Mid Data Rate)	97.0	97.2	96.1
	g (High Data Rate)	94.4	94.5	93.9
	n (Low Data Rate)	96.7	96.6	94.1
	n (Mid Data Rate)	93.8	94.1	92.1
	n (High Data Rate)	92.0	92.2	87.8
	11ax (SU) (Low Data Rate)	95.9	96.0	95.8
	11ax (SU) (Mid Data Rate)	92.9	93.0	92.9
	11ax (SU) (High Data Rate)	91.5	91.8	91.4

**Table 2-2. Measured Duty Cycles**

The device employs CDD technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		Antenna WF8	Antenna WF7	Antenna WF8	Antenna WF7	Antenna WF8	Antenna WF7
2.4GHz	11b	✓	✓	✗	✗	✗	✗
	11g	✓	✓	✓	✓	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓

**Table 2-3. Wi-Fi Configurations**

✓ = Support ; ✗ = NOT Support

**SISO** = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – CDD function

**CDD** = Cyclic Delay Diversity - 2Tx Function

Data Rates Supported: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)  
6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g)  
6.5/7.2Mbps, 13/14.4Mbps, 19.5/21.7Mbps, 26/28.9Mbps, 39/43.3Mbps,  
52/57.8Mbps, 58.5/65Mbps, 65/72.2Mbps (n)  
13/14.4Mbps, 26/28.9Mbps, 39/43.3Mbps, 52/57.8Mbps, 78/86.7Mbps,  
104/115.12Mbps, 117/130Mbps, 130/144.4Mbps (CDD n)  
8/8.6Mbps, 16/17.2 Mbps, 24/25.8Mbps, 33/34.4Mbps, 49/51.6Mbps,  
65/68.8Mbps, 73/77.4Mbps, 81/86.0Mbps, 98/103.2Mbps, 108/114.7Mbps (11ax)  
16/17.2Mbps, 32/34.4 Mbps, 48/51.6Mbps, 66/68.8Mbps, 98/103.2Mbps,  
260/275.2Mbps, 146/154.8Mbps, 162/172Mbps, 196/206.4Mbps, 216/Mbps (CDD  
11ax)

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## 2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna WF8	Antenna WF7
2.4	2.2	0.2

Table 2-4. Highest Antenna Gain

## 2.4 Test Support Equipment

1	Apple MacBook Pro	Model: A2141	S/N: C02DV7VKMD6T
	w/AC/DC Adapter	Model: A2166	S/N: N/A
2	Apple USB-C Cable	Model: Chimp	S/N: 420A57
3	USB-C Cable	Model: A146	S/N: N/A
	w/ AC Adapter	Model: A2305	S/N: N/A
4	Apple Pencil	Model: N/A	S/N: GQXYGSXBJKM9
5	DC Power Supply	Model: KPS3010D	S/N: N/A

Table 2-5. Test Support Equipment List

## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, Section 3.3 for radiated emissions test setups, and, 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups. Antenna WF8

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

802.11n CDD mode test data provided in this report covers 802.11n SDM.

802.11ax-SU HE20 2TX CDD mode test data provided in this report covers 802.11ax-SU HE20 2TX SDM.

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The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three groups of data rate have been investigated and only the worst case data rate per group is reported. The worst case data rate for each group per mode are as follows:

- 802.11b:
  - 11Mbps
- 802.11g:
  - Low Data Rate: 12Mbps
  - Mid Data Rate: 24Mbps
  - High Data Rate: 36Mbps
- 802.11n:
  - Low Data Rate: MCS2/MCS10 (SISO/CDD)
  - Mid Data Rate: MCS4/MCS12 (SISO/CDD)
  - High Data Rate: MCS5/MCS13 (SISO/CDD)
- 802.11ax(SU):
  - Low Data Rate: MCS2
  - Mid Data Rate: MCS4
  - High Data Rate: MCS5

For 802.11ax-RU test results, see separate WLAN (OFDMA) report, 1C2106080048-02.BCG

## 2.6 Software and Firmware

The test was conducted with firmware version 19A42380m installed on the EUT.

## 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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## 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“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 antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

### Conclusion:

The EUT unit complies with the requirement of §15.203.

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## 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ( $\pm$ dB)
Conducted Bench Top Measurements	1.65
Line Conducted Disturbance	2.75
Radiated Disturbance (<30MHz)	4.06
Radiated Disturbance (<1GHz)	4.30
Radiated Disturbance (>1GHz)	4.78
Radiated Disturbance (>18GHz)	4.79

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## 6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2496A	Power Meter	11/3/2020	Annual	11/3/2021	184005
Anritsu	MA2411B	Pulse Power Sensor	11/10/2020	Annual	11/10/2021	1726261
Anritsu	MA2411B	Pulse Power Sensor	12/9/2020	Annual	12/9/2021	1726262
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/31/2021	Annual	3/31/2022	MY49430244
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	12/9/2020	Annual	12/9/2021	T058701-01
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	9/15/2020	Annual	9/15/2021	208204
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	5/3/2021	Annual	5/3/2022	205956
Keysight Technology	N9040B	UXA Signal Analyzer	12/19/2020	Annual	12/19/2021	MY57212015
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	12/3/2020	Annual	12/3/2021	102327
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	12/3/2020	Annual	12/3/2021	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/16/2021	Annual	3/16/2022	101619
Rohde & Schwarz	ESW26	EMI Test Receiver	6/11/2021	Annual	6/11/2022	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	11/9/2020	Annual	11/9/2021	101570
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	4/29/2021	Annual	4/29/2022	100051
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	10/2/2020	Annual	10/2/2021	101063
Rohde & Schwarz	HFH2-Z2	Loop Antenna	4/5/2021	Annual	4/5/2022	100519
Rohde & Schwarz	ENV216	Two-Line-V-Network (LISN)	12/7/2020	Annual	12/7/2021	101364

**Table 6-1. Test Equipment List**

### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 13 of 429

## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCGA2567  
 IC: 579C-A2567  
 FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	AC LINE CONDUCTED	PASS	Section 7.9

**Table 7-1. Summary of Test Results**

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "WLAN Automation," Version 4.0.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 1.3.2.

FCC ID: BCGA2567 IC: 579C-A2567	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 7.2 6dB BW and 99% OBW Measurements

§15.247(a.2); RSS-247 [5.2]

### Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

***The minimum permissible 6dB bandwidth is 500 kHz.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2  
KDB 558074 D01 v05r02 – Section 8.2

### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-1. Test Instrument & Measurement Setup**

### Test Notes

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group is reported.

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## Antenna WF8 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	12	16.466	15.805	0.500	Pass
2437	6	g	12	16.462	16.044	0.500	Pass
2462	11	g	12	16.459	15.881	0.500	Pass
2412	1	n	19.5/21.7 (MCS2)	17.689	16.474	0.500	Pass
2437	6	n	19.5/21.7 (MCS2)	17.626	17.006	0.500	Pass
2462	11	n	19.5/21.7 (MCS2)	17.657	16.641	0.500	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	18.862	18.774	0.500	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	18.888	18.961	0.500	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	18.865	18.466	0.500	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF8 (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	24	16.483	16.472	0.500	Pass
2437	6	g	24	16.550	16.521	0.500	Pass
2462	11	g	24	16.482	16.470	0.500	Pass
2412	1	n	39/43.3 (MCS4)	17.703	17.736	0.500	Pass
2437	6	n	39/43.3 (MCS4)	17.719	17.740	0.500	Pass
2462	11	n	39/43.3 (MCS4)	17.674	17.681	0.500	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	18.868	18.997	0.500	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	18.917	19.048	0.500	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	18.869	18.951	0.500	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna WF8 (Mid Data Rate)

FCC ID: BCGA2567 IC: 579C-A2567	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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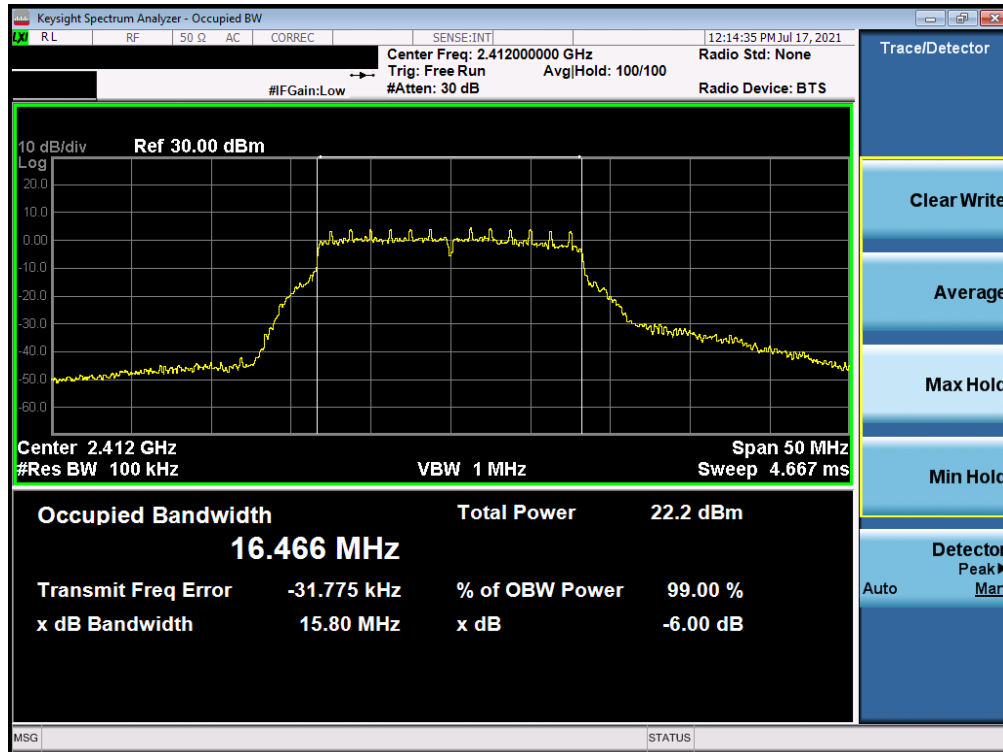


Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	11	12.682	8.545	0.500	Pass
2437	6	b	11	12.762	8.501	0.500	Pass
2462	11	b	11	12.674	8.570	0.500	Pass
2412	1	g	36	16.396	16.107	0.500	Pass
2437	6	g	36	16.428	16.439	0.500	Pass
2462	11	g	36	16.384	16.313	0.500	Pass
2412	1	n	52/57.8 (MCS5)	17.650	17.739	0.500	Pass
2437	6	n	52/57.8 (MCS5)	17.682	17.725	0.500	Pass
2462	11	n	52/57.8 (MCS5)	17.660	17.744	0.500	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	18.951	19.129	0.500	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	18.959	19.126	0.500	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	18.955	19.138	0.500	Pass

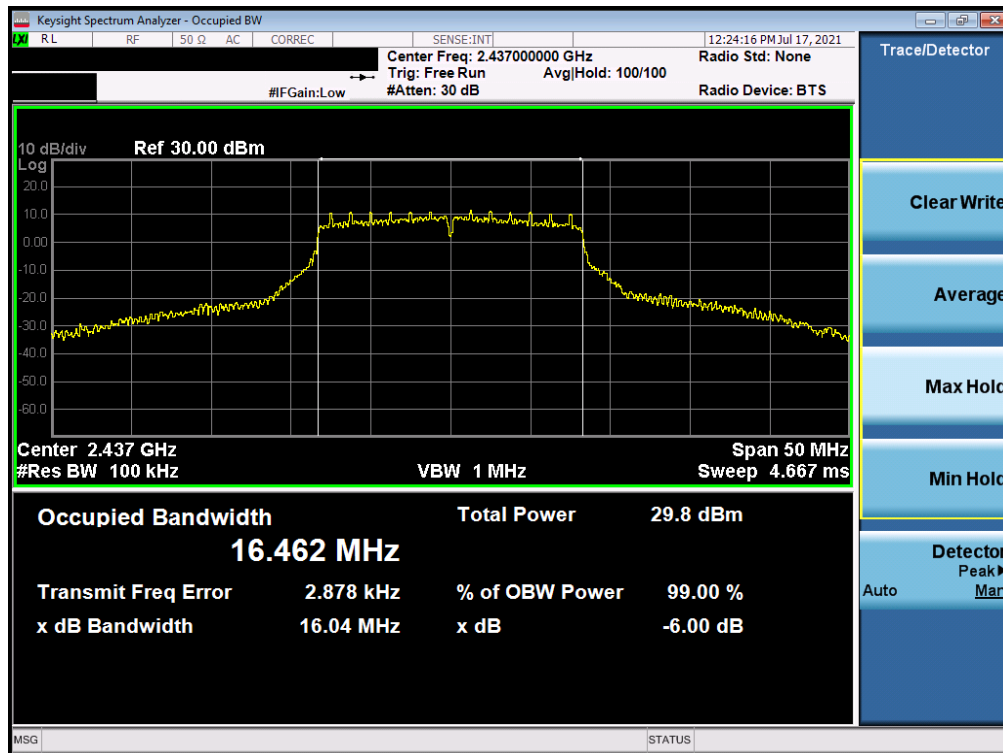
**Table 7-4. Conducted Bandwidth Measurements Antenna WF8 (High Data Rate)**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 17 of 429

## Low Data Rate

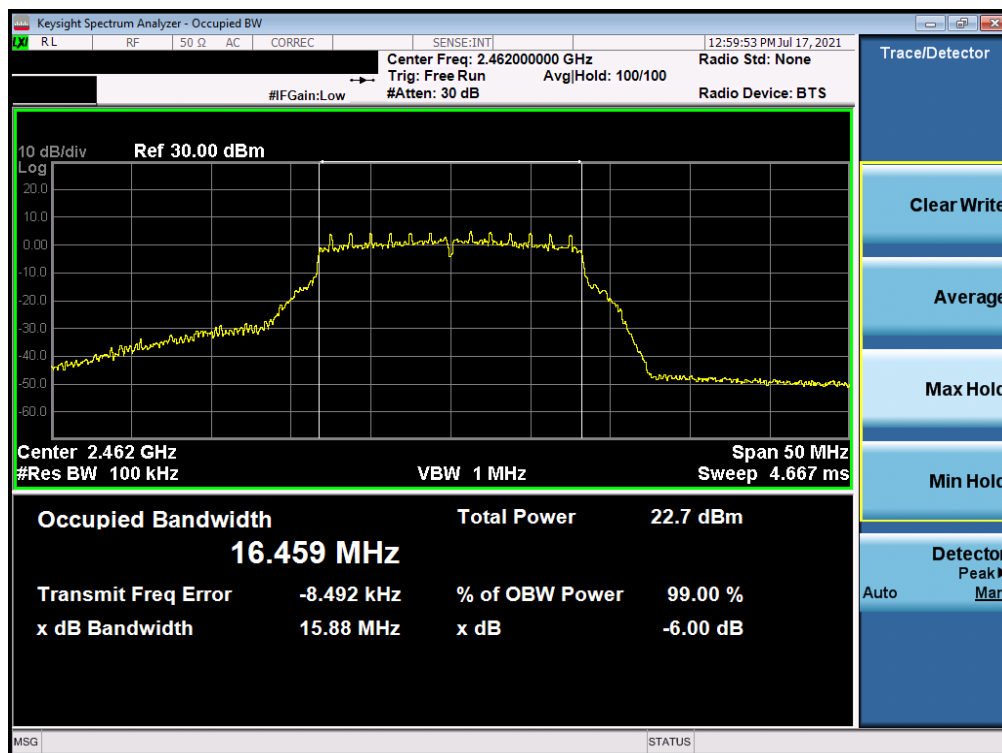


Plot 7-1. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 1) – 12Mbps

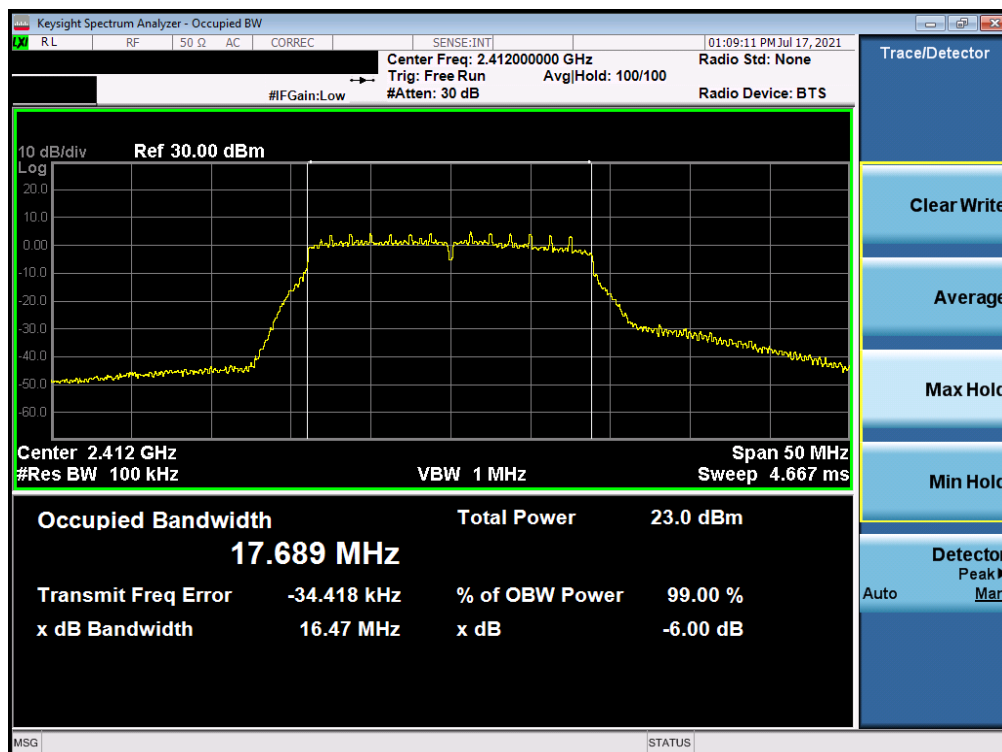


Plot 7-2. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 18 of 429

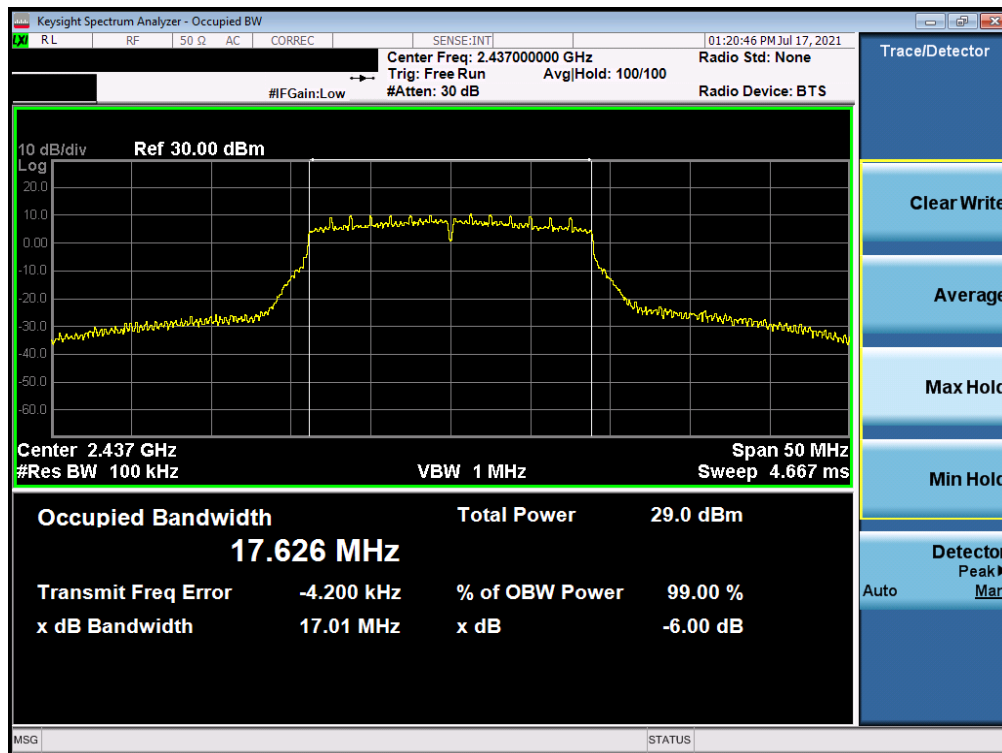


Plot 7-3. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 11) – 12Mbps

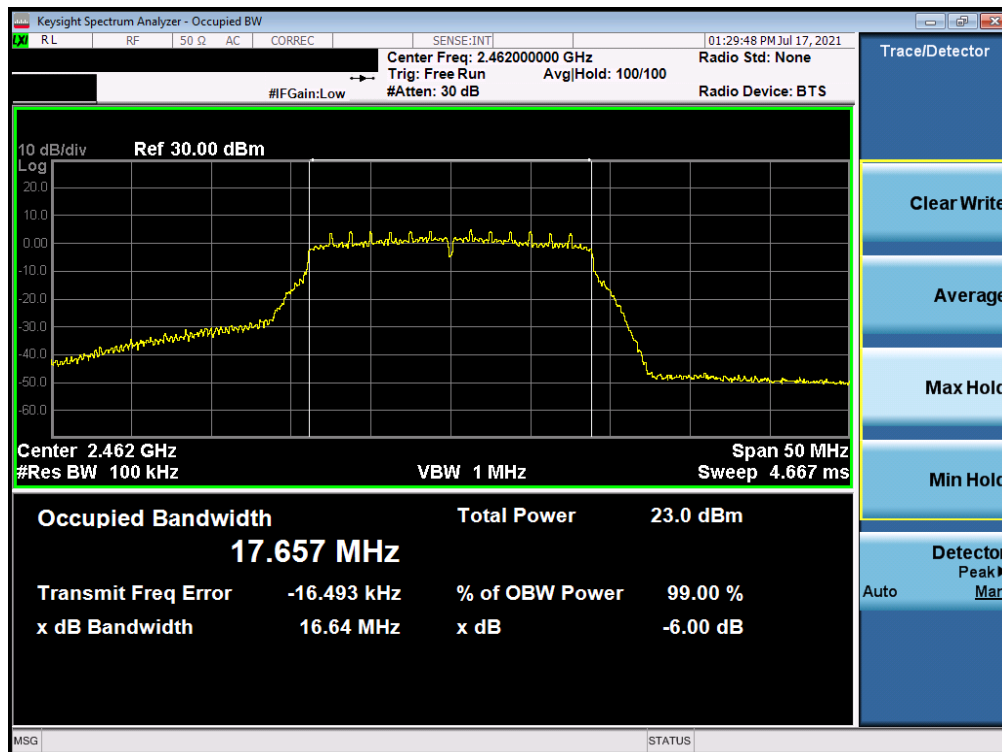


Plot 7-4. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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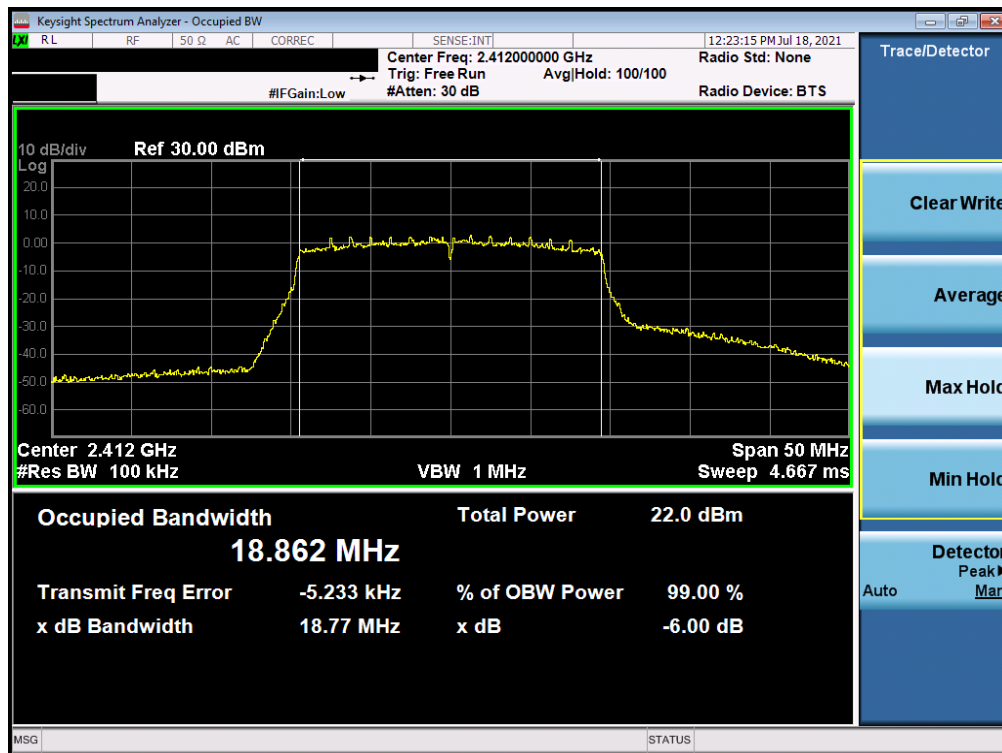


Plot 7-5. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS2

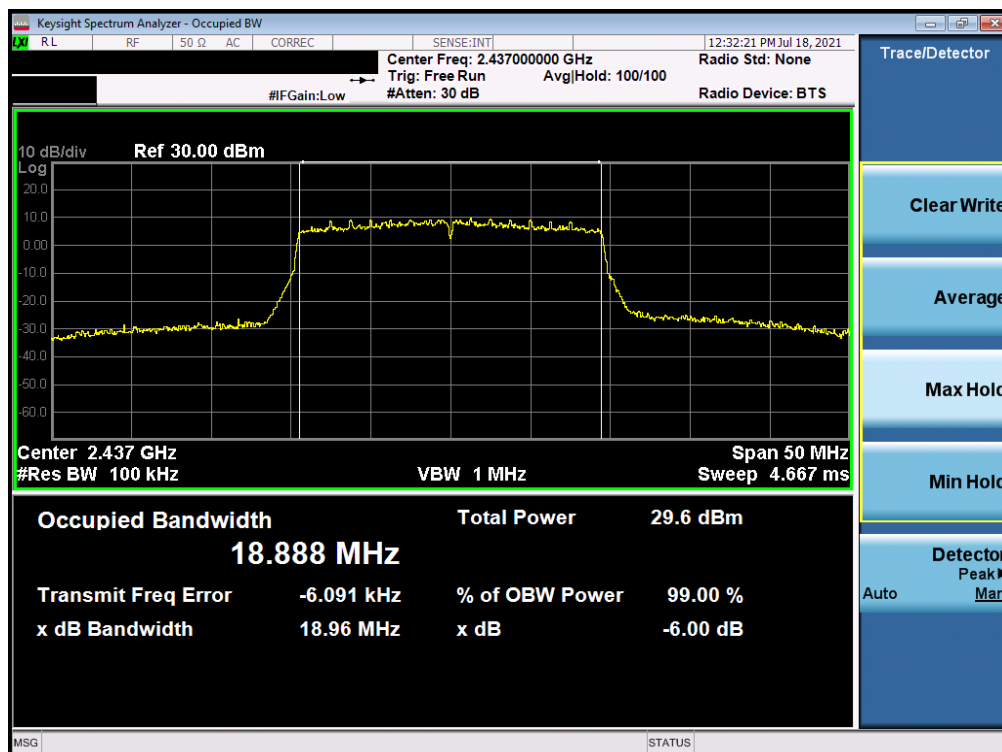


Plot 7-6. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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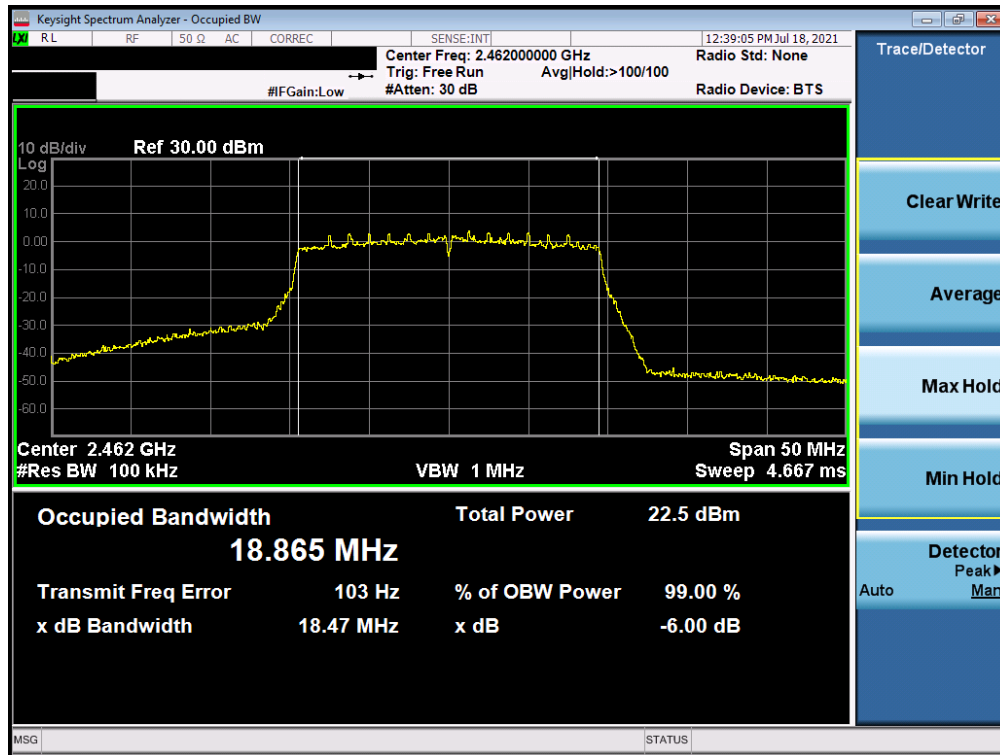


Plot 7-7. 6dB BW and 99% OBW Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-8. 6dB BW and 99% OBW Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

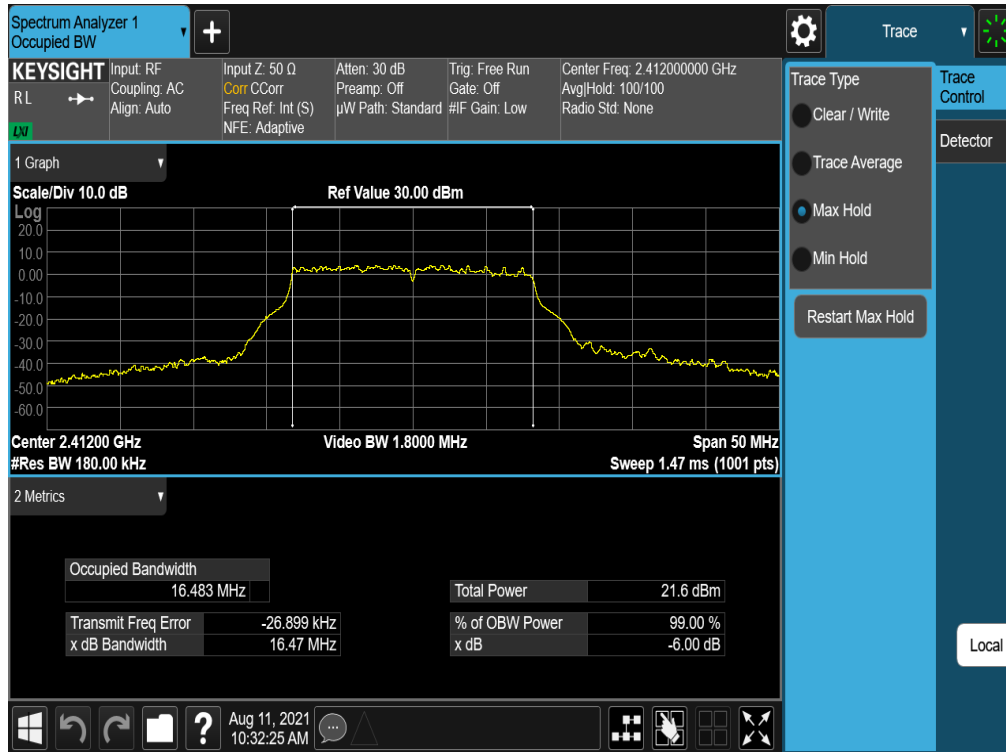
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 21 of 429



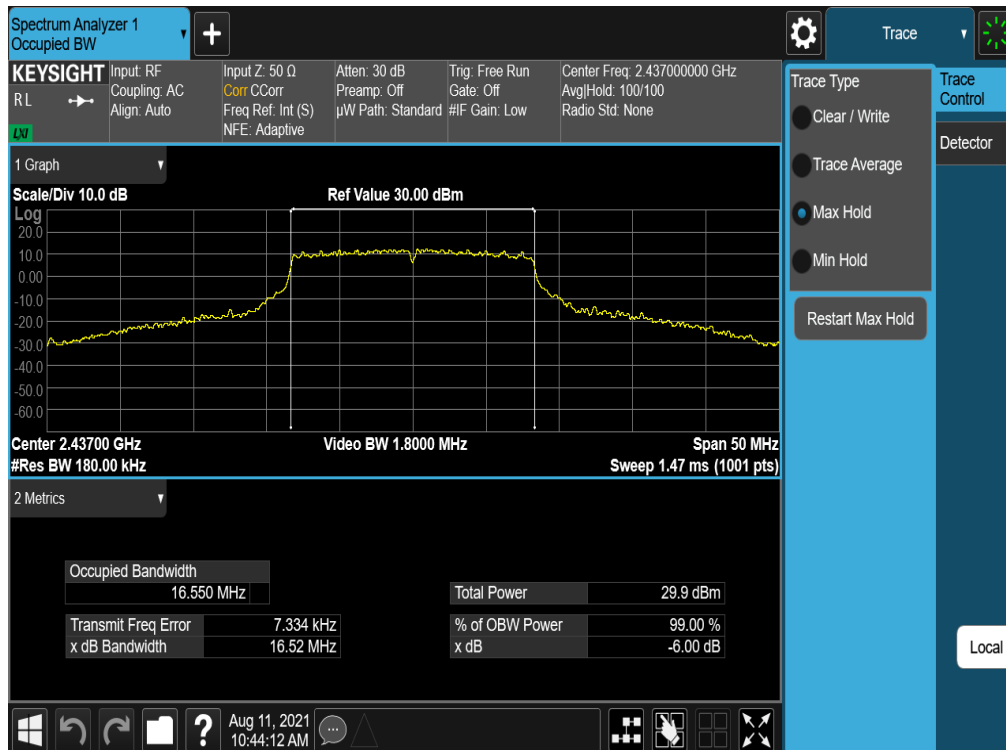
Plot 7-9. 6dB BW and 99% OBW Plot Antenna WF8 (802. 11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## Mid Data Rate

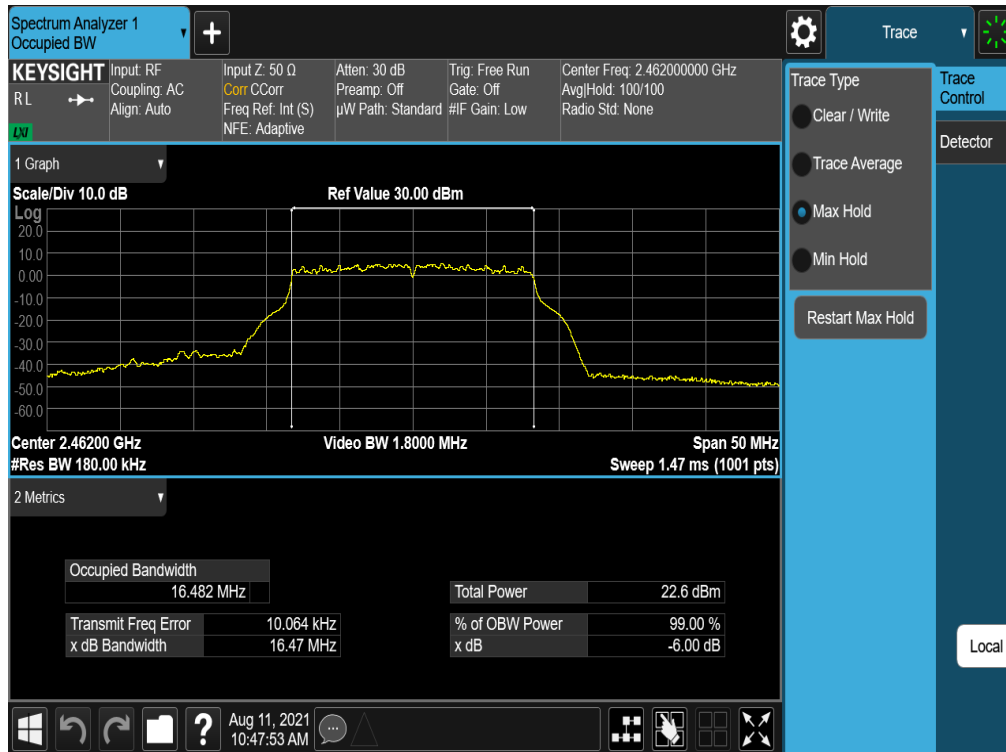


Plot 7-10. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 1) – 24Mbps

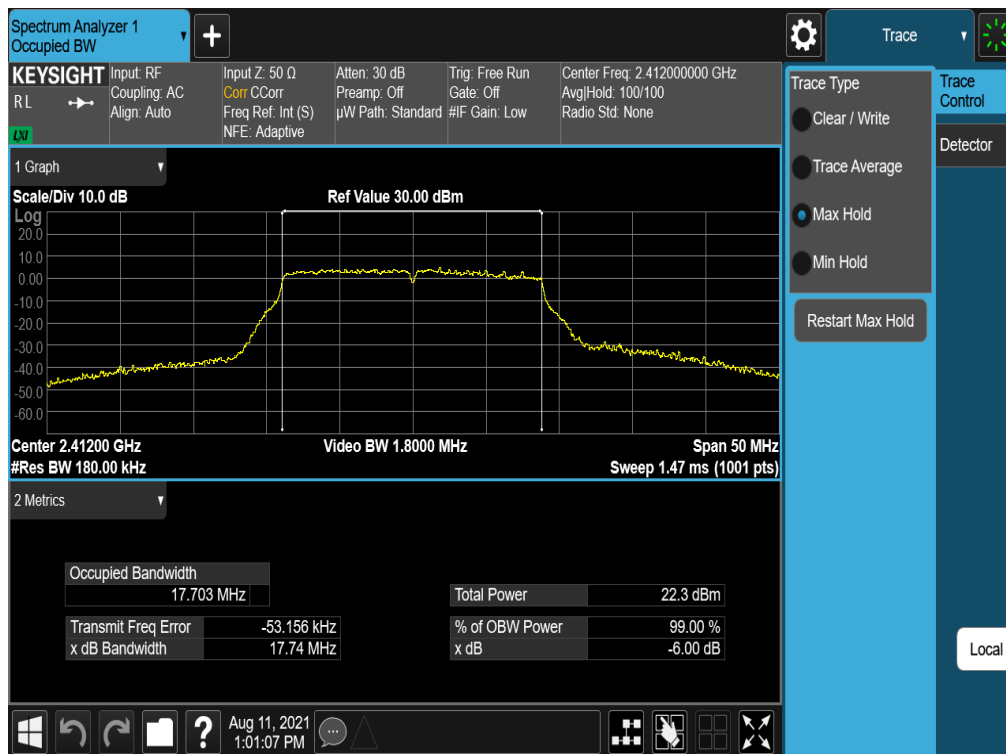


Plot 7-11. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 23 of 429



Plot 7-12. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 11) – 24Mbps



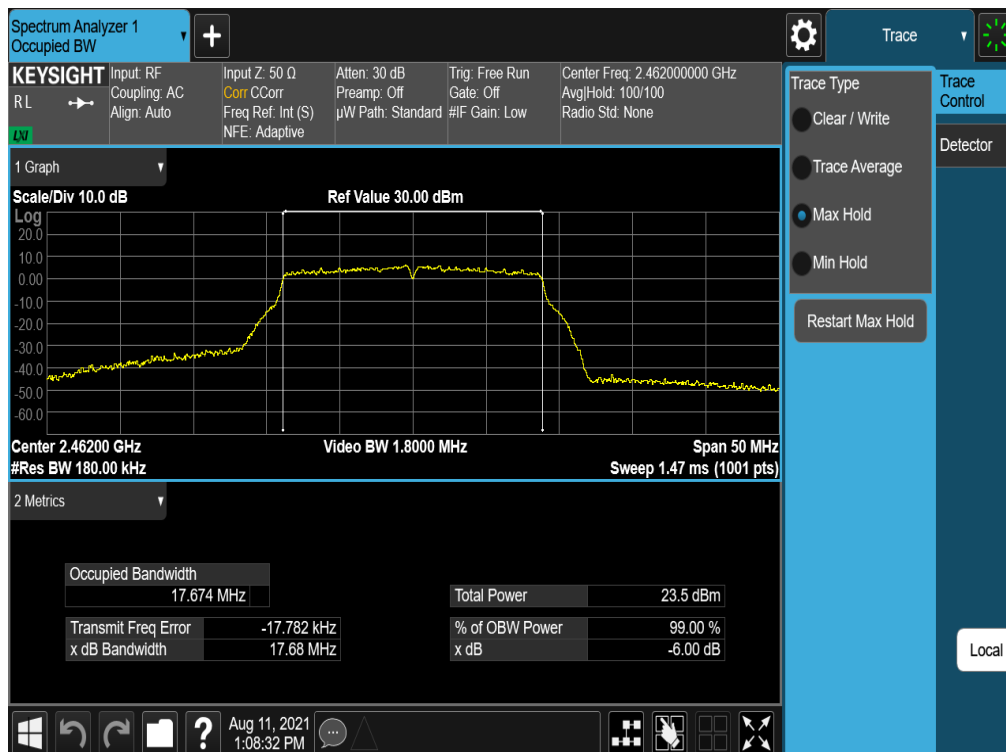
Plot 7-13. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 24 of 429



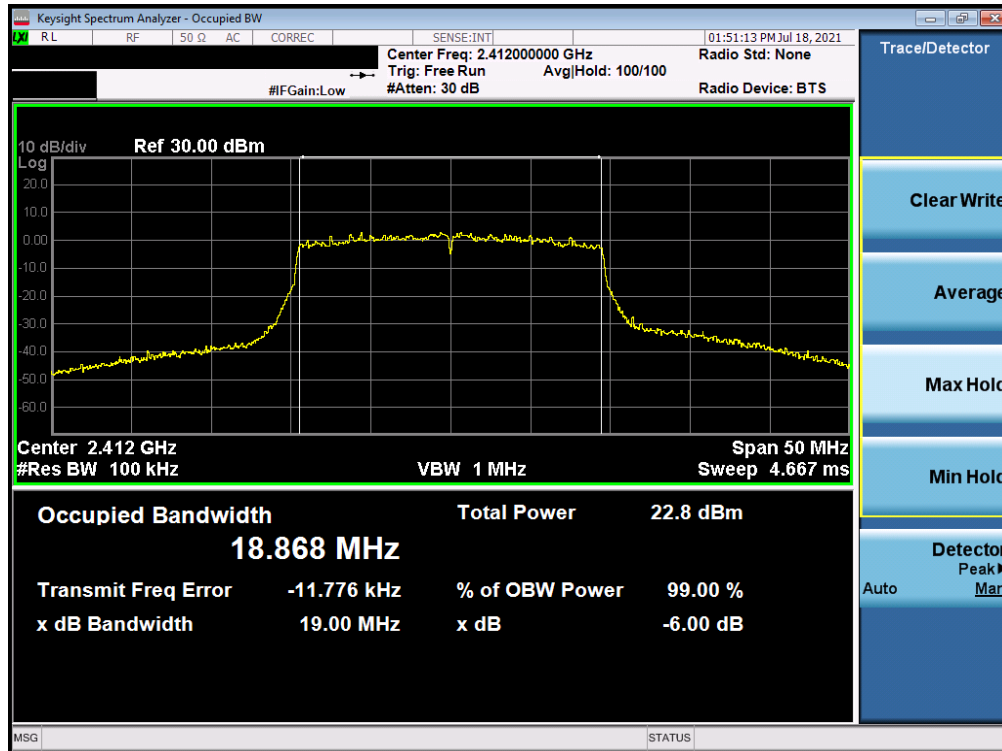


Plot 7-14. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS4

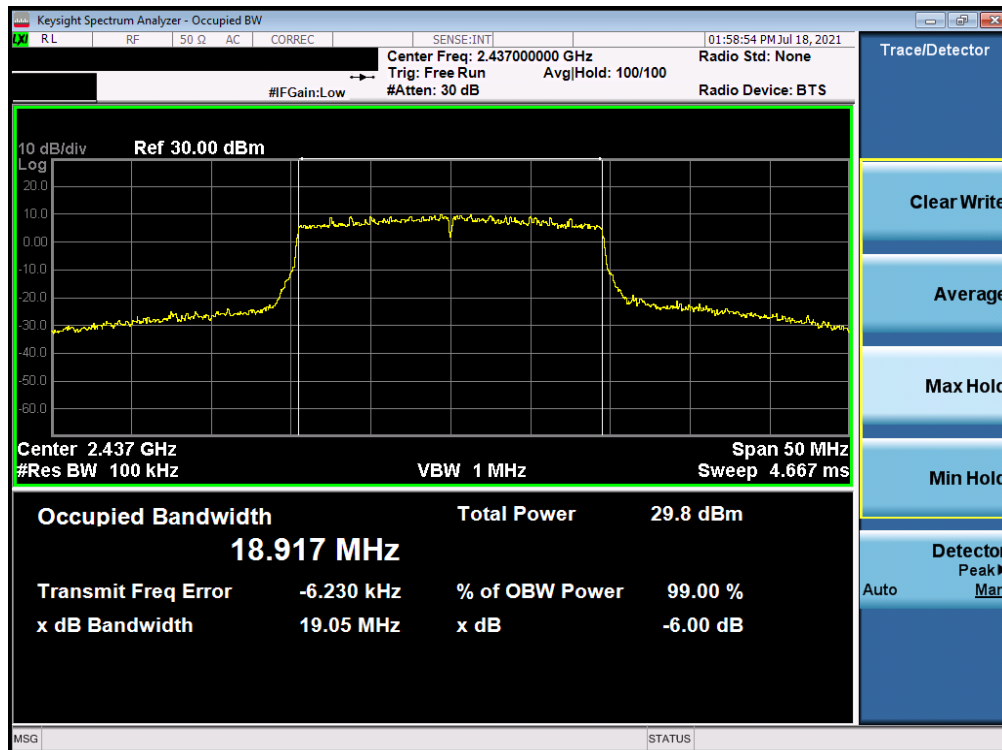


Plot 7-15. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 25 of 429

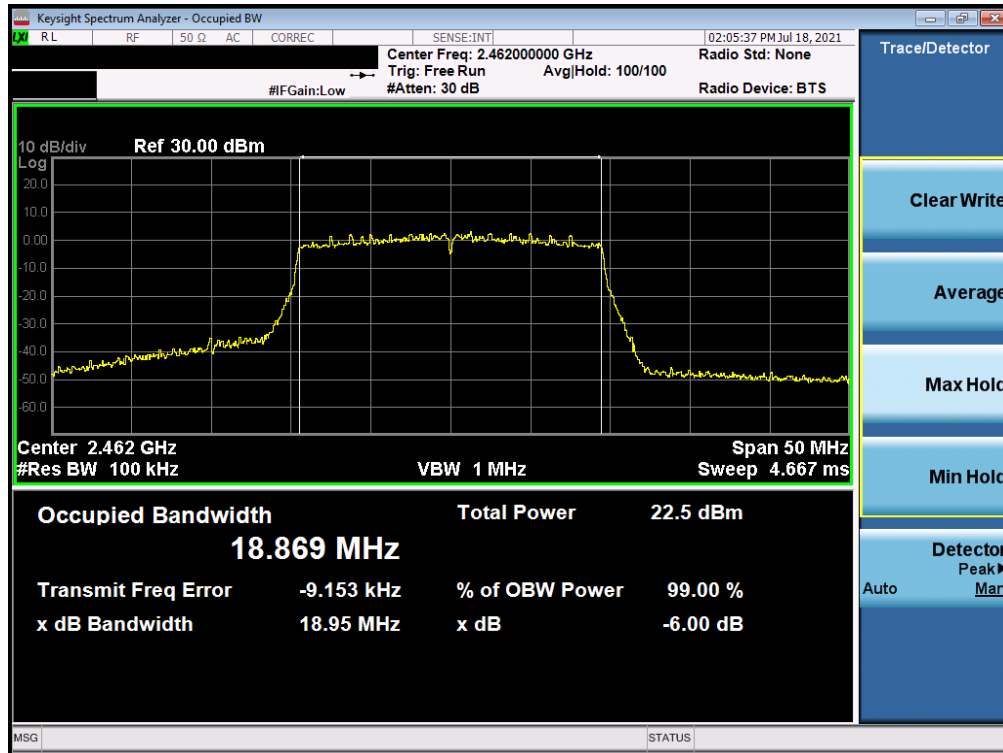


Plot 7-16. 6dB BW and 99% OBW Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



Plot 7-17. 6dB BW and 99% OBW Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

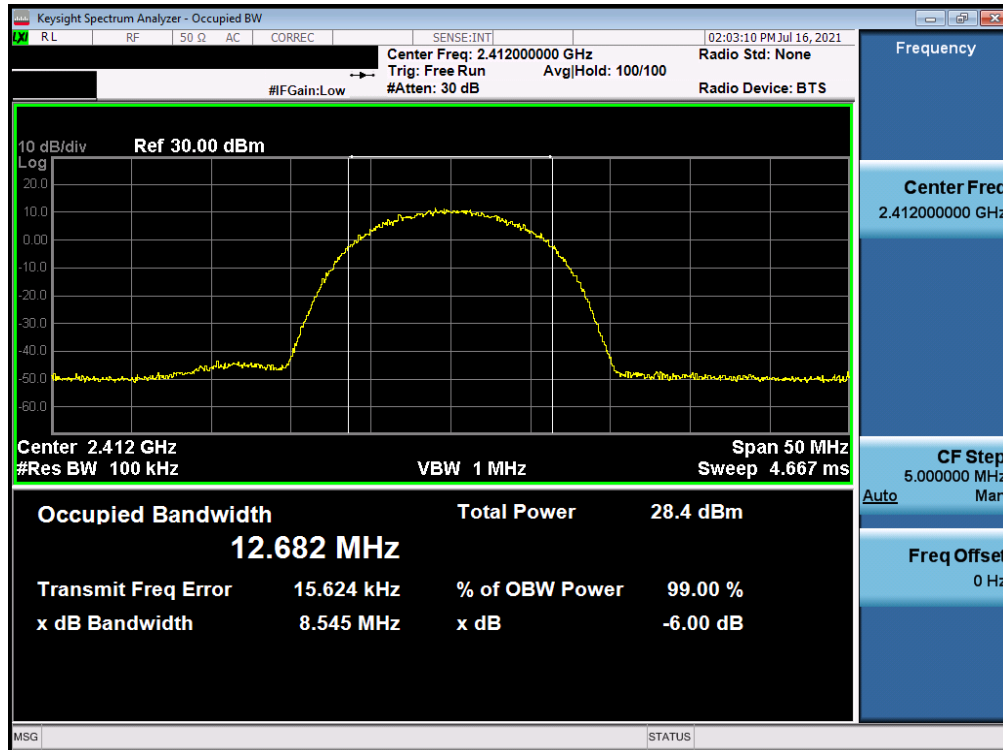
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 26 of 429



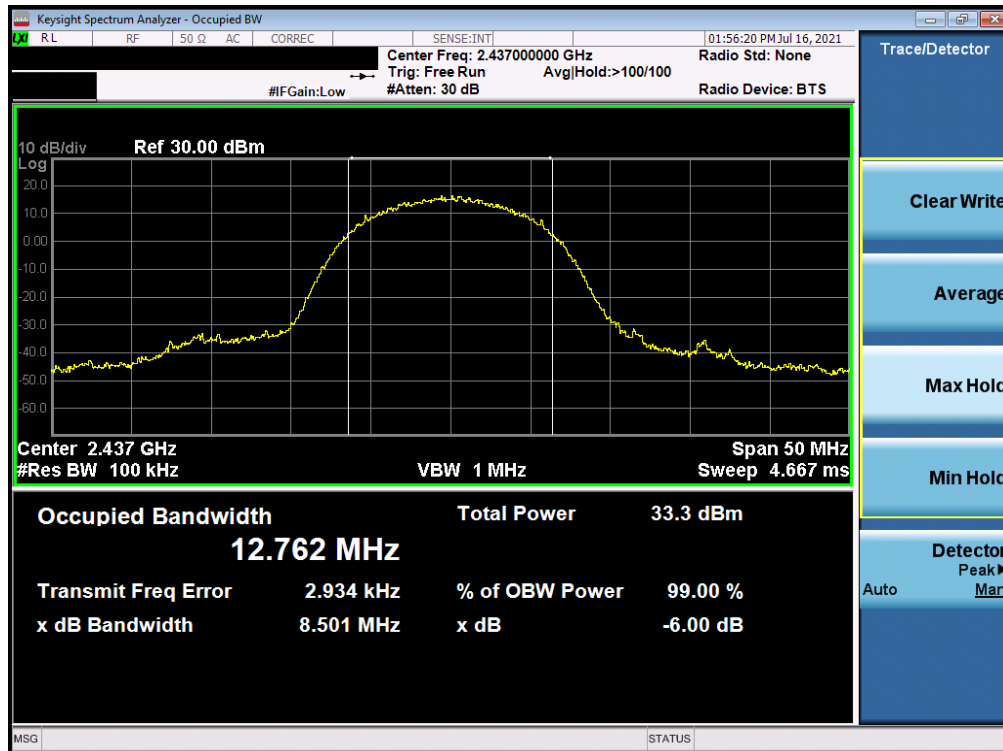
Plot 7-18. 6dB BW and 99% OBW Plot Antenna WF8 (802. 11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 27 of 429

## High Data Rate

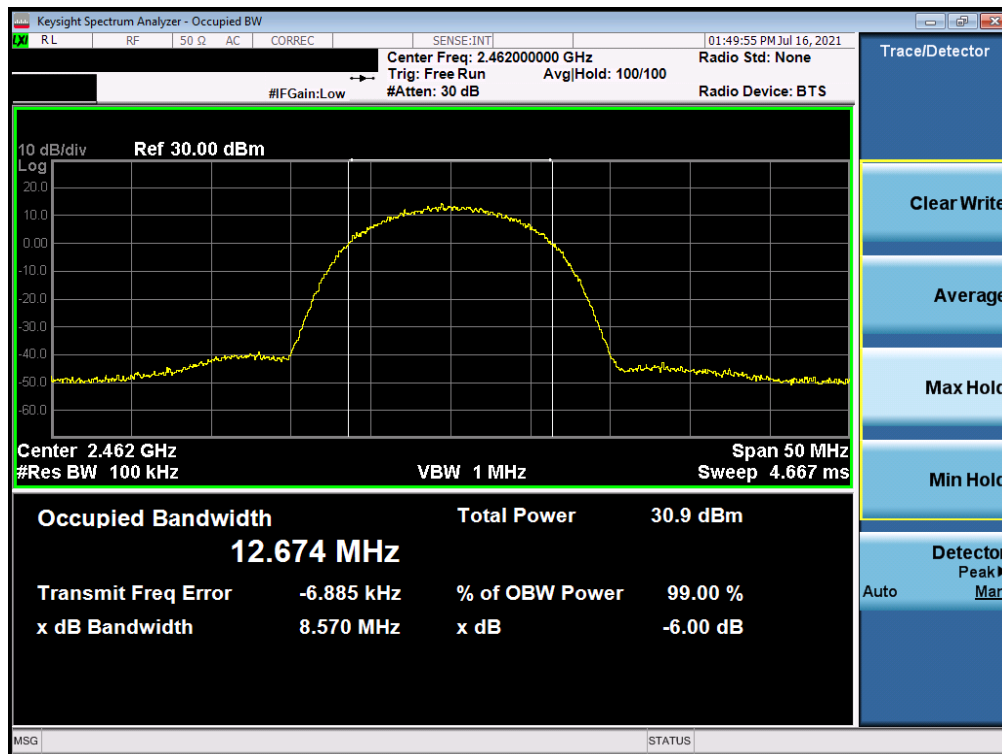


Plot 7-19. 6dB BW and 99% OBW Plot Antenna WF8 (802.11b – Ch. 1) – 11Mbps

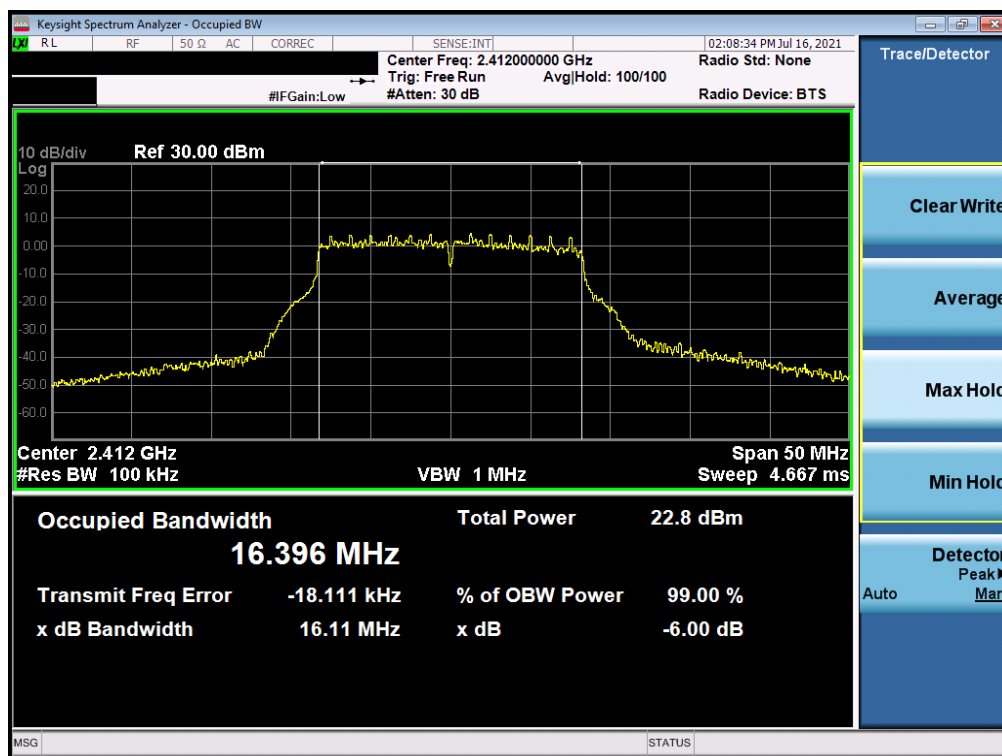


Plot 7-20. 6dB BW and 99% OBW Plot Antenna WF8 (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 28 of 429

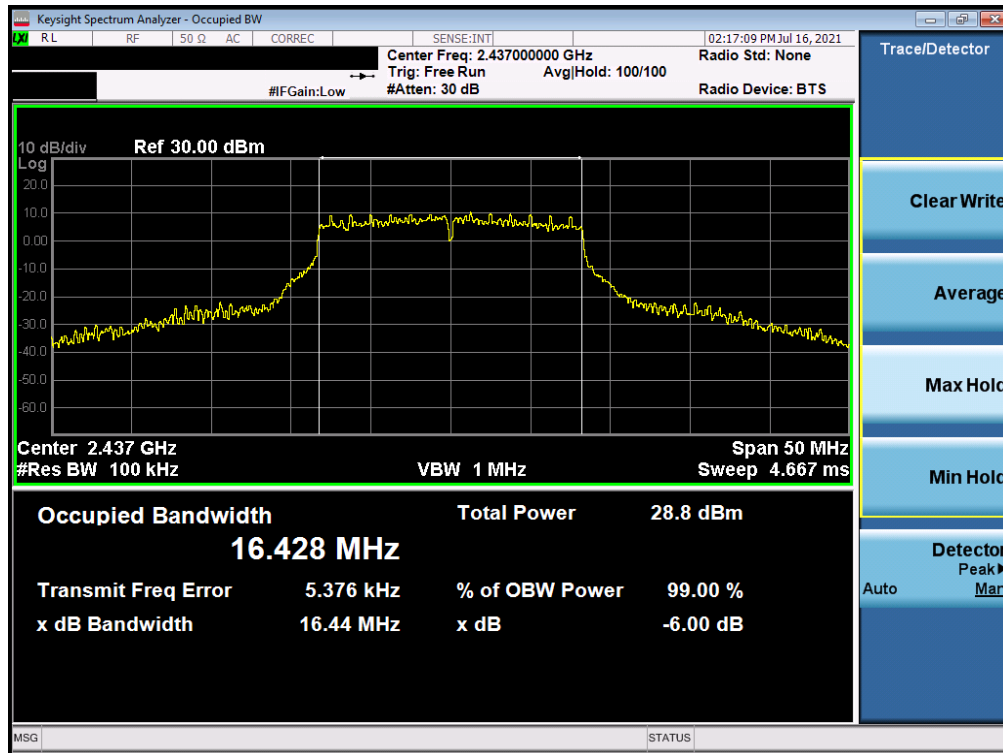


Plot 7-21. 6dB BW and 99% OBW Plot Antenna WF8 (802.11b – Ch. 11) – 11Mbps

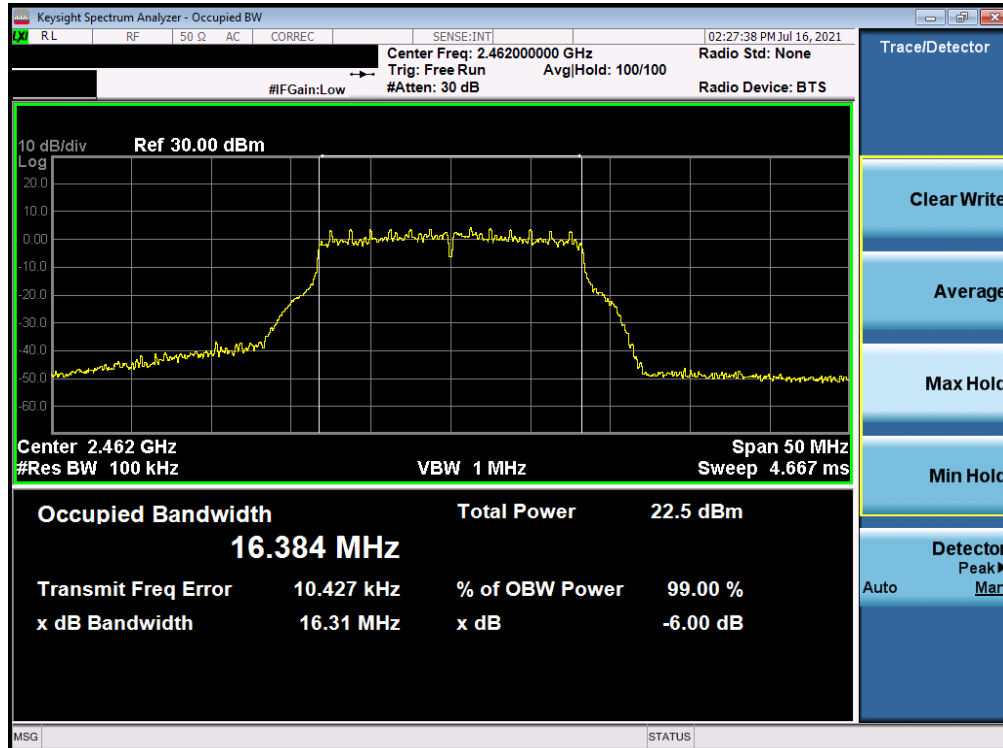


Plot 7-22. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 29 of 429

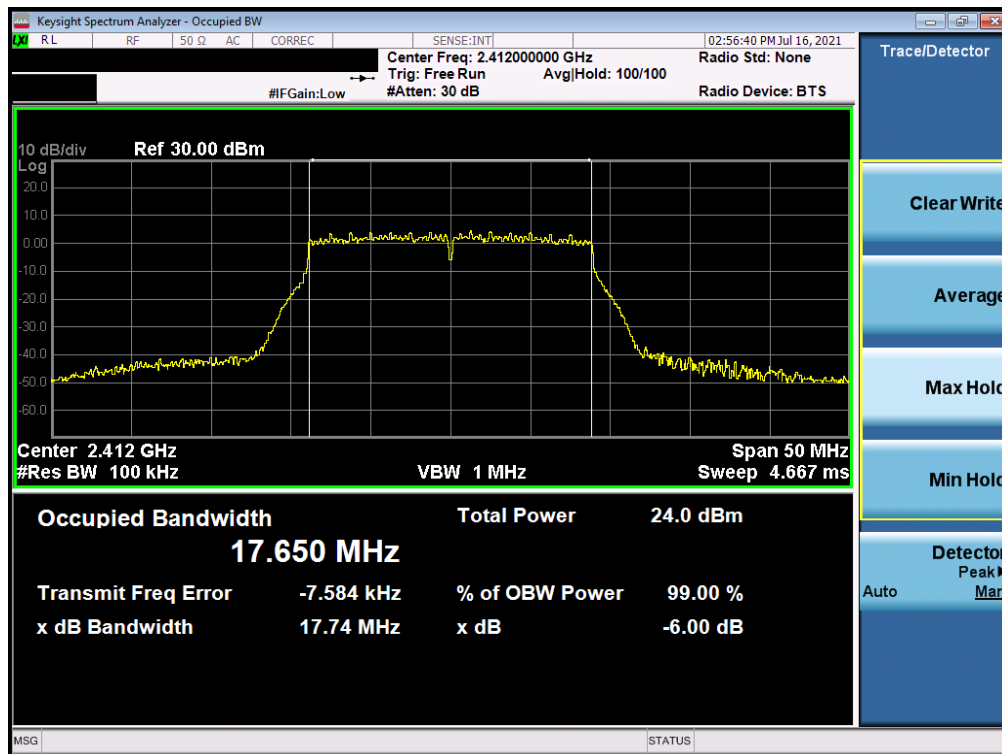


Plot 7-23. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g - Ch. 6) - 36Mbps

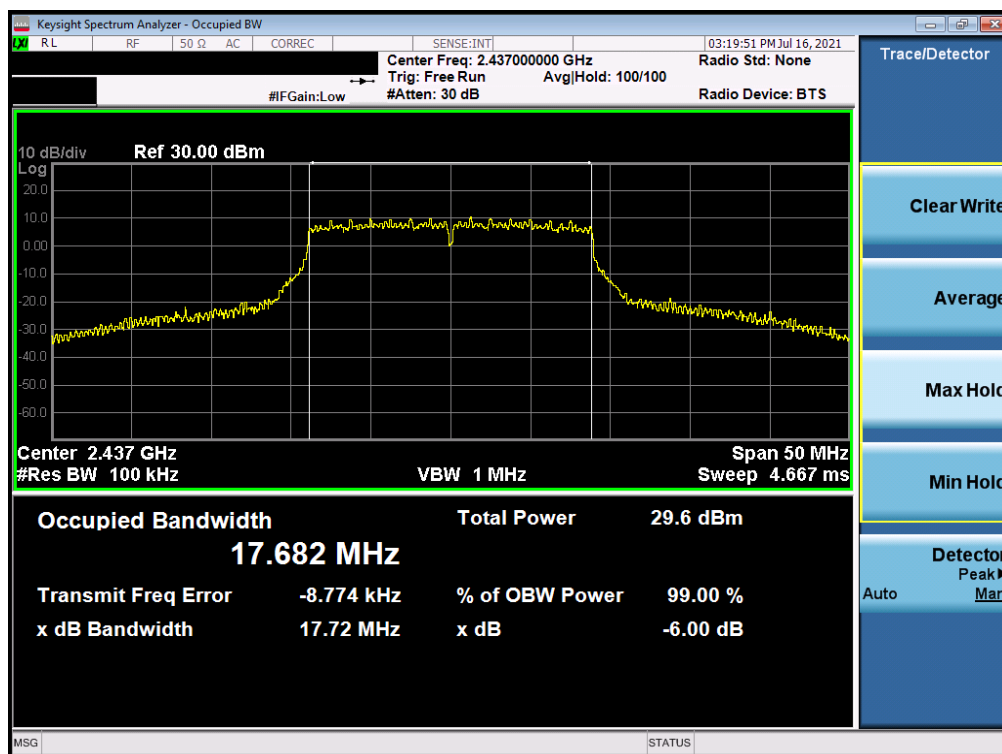


Plot 7-24. 6dB BW and 99% OBW Plot Antenna WF8 (802.11g - Ch. 11) - 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 30 of 429



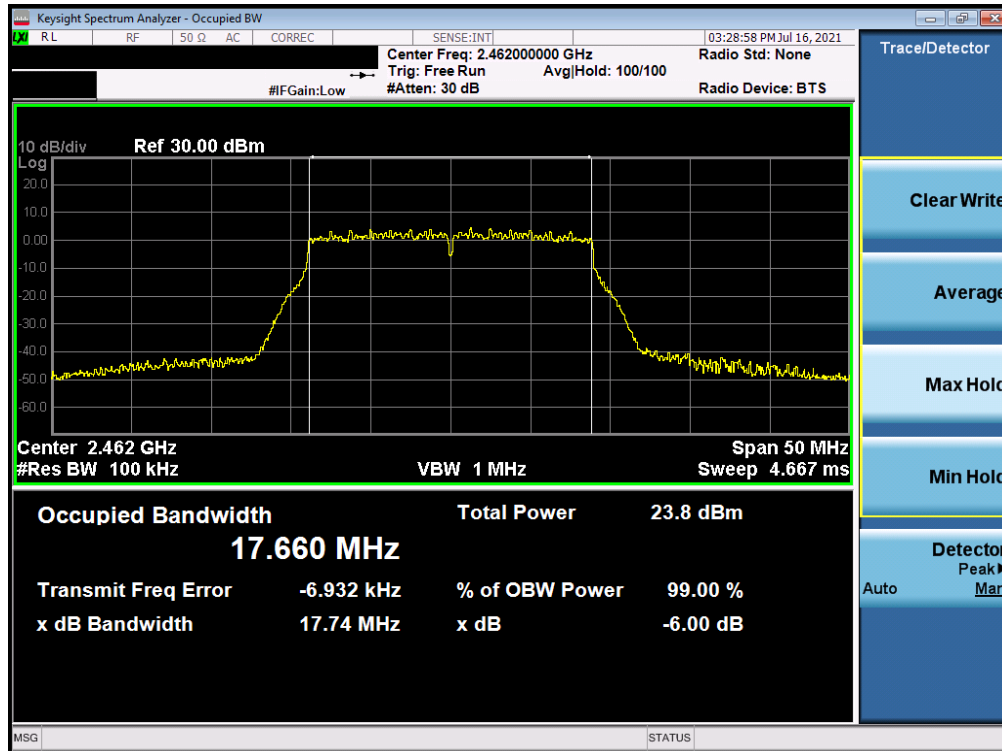
Plot 7-25. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS5



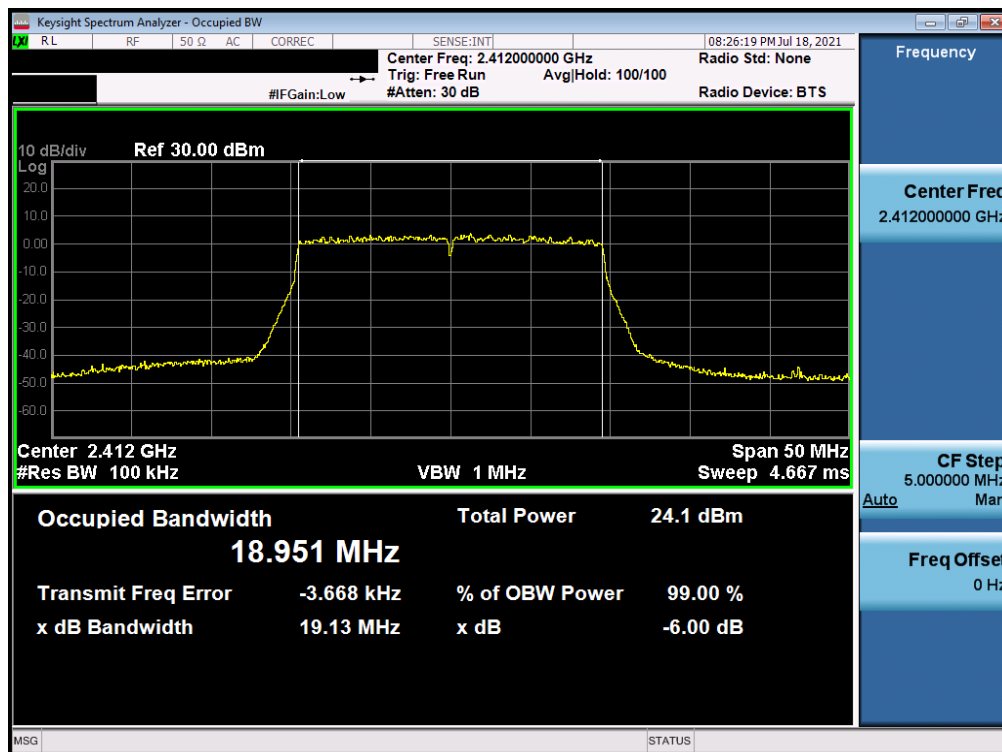
Plot 7-26. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 31 of 429





Plot 7-27. 6dB BW and 99% OBW Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS5



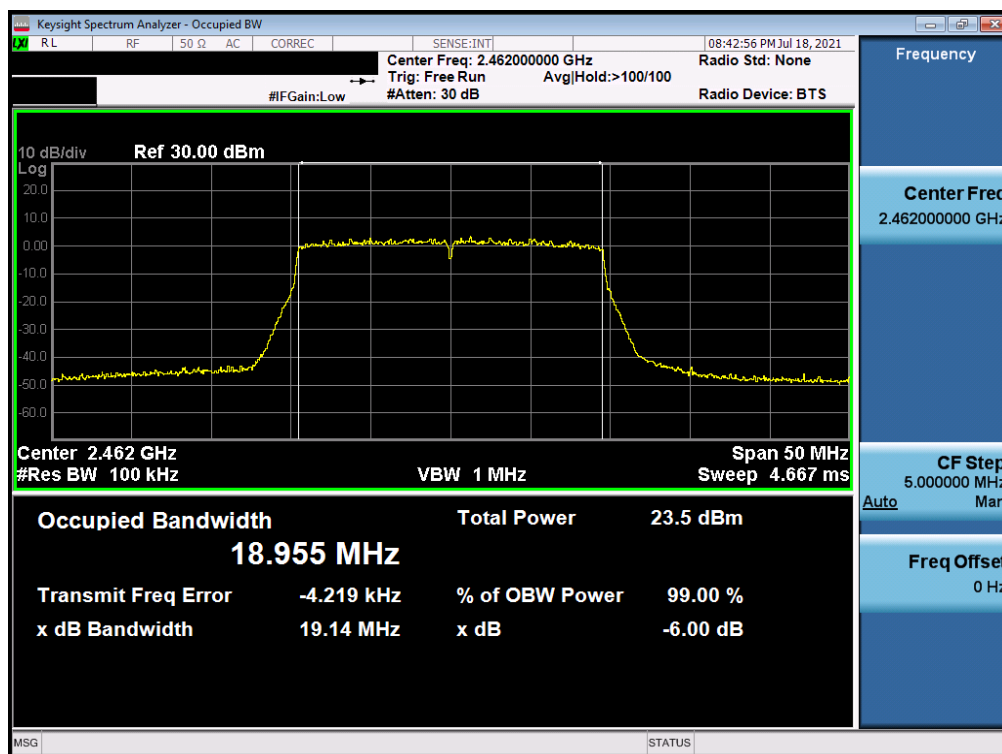
Plot 7-28. 6dB BW and 99% OBW Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 32 of 429





Plot 7-29. 6dB BW and 99% OBW Plot Antenna WF8 (802. 11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-30. 6dB BW and 99% OBW Plot Antenna WF8 (802. 11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 33 of 429

## Antenna WF7 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	12	16.469	15.817	0.500	Pass
2437	6	g	12	16.453	16.049	0.500	Pass
2462	11	g	12	16.459	15.901	0.500	Pass
2412	1	n	19.5/21.7 (MCS2)	17.686	16.471	0.500	Pass
2437	6	n	19.5/21.7 (MCS2)	17.637	17.219	0.500	Pass
2462	11	n	19.5/21.7 (MCS2)	17.678	16.648	0.500	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	18.865	18.817	0.500	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	18.898	18.977	0.500	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	18.888	18.347	0.500	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna WF7 (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	24	16.411	16.145	0.500	Pass
2437	6	g	24	16.448	16.448	0.500	Pass
2462	11	g	24	16.411	16.396	0.500	Pass
2412	1	n	39/43.3 (MCS4)	17.630	17.654	0.500	Pass
2437	6	n	39/43.3 (MCS4)	17.644	17.665	0.500	Pass
2462	11	n	39/43.3 (MCS4)	17.627	17.691	0.500	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	18.878	18.979	0.500	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	18.907	19.015	0.500	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	18.892	19.030	0.500	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna WF7 (Mid Data Rate)

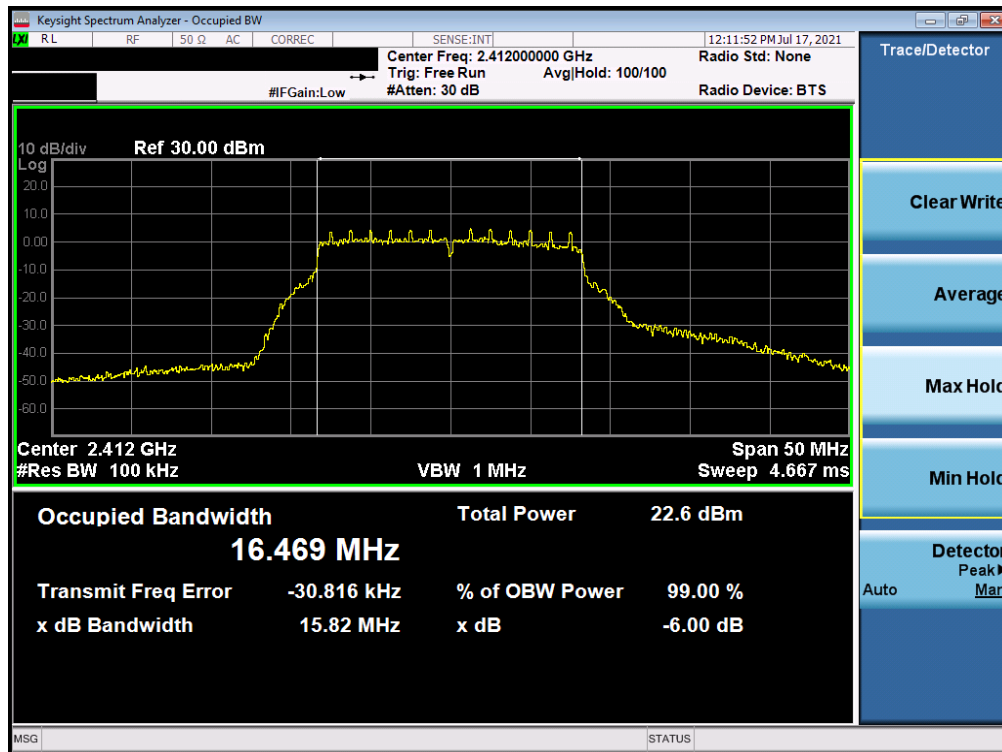
FCC ID: BCGA2567 IC: 579C-A2567	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 34 of 429

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	11	12.703	8.363	0.500	Pass
2437	6	b	11	12.744	8.877	0.500	Pass
2462	11	b	11	12.666	8.551	0.500	Pass
2412	1	g	36	16.399	16.108	0.500	Pass
2437	6	g	36	16.431	16.441	0.500	Pass
2462	11	g	36	16.385	16.319	0.500	Pass
2412	1	n	52/57.8 (MCS5)	17.663	17.761	0.500	Pass
2437	6	n	52/57.8 (MCS5)	17.694	17.741	0.500	Pass
2462	11	n	52/57.8 (MCS5)	17.663	17.754	0.500	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	18.940	19.116	0.500	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	18.957	19.094	0.500	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	18.925	19.078	0.500	Pass

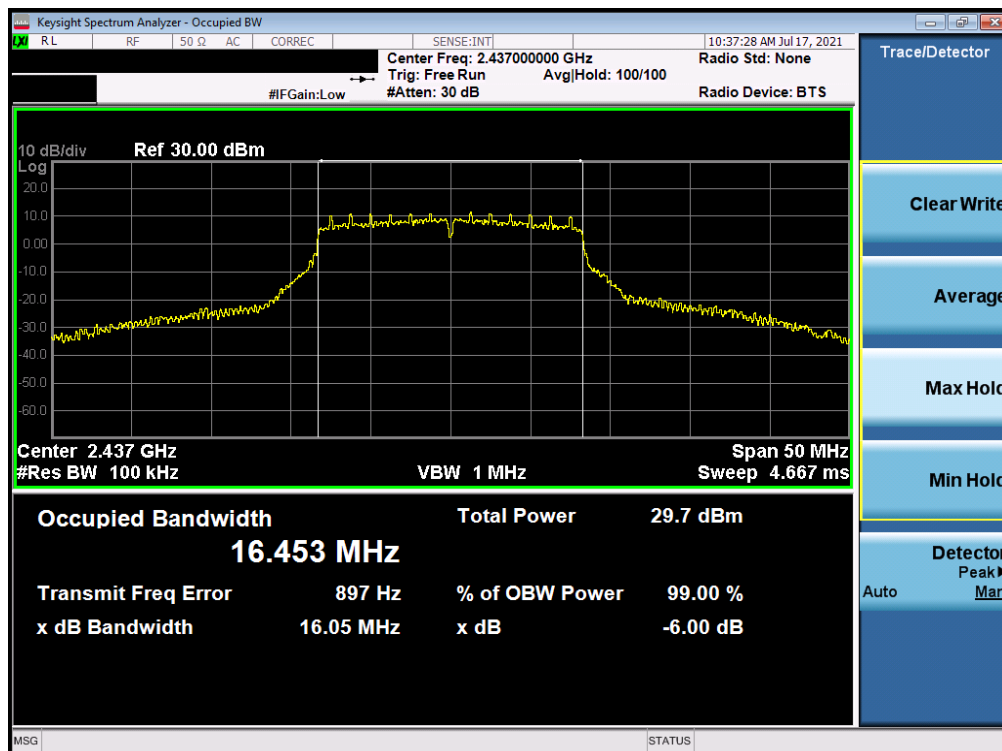
**Table 7-7. Conducted Bandwidth Measurements Antenna WF7 (High Data Rate)**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 35 of 429

## Low Data Rate

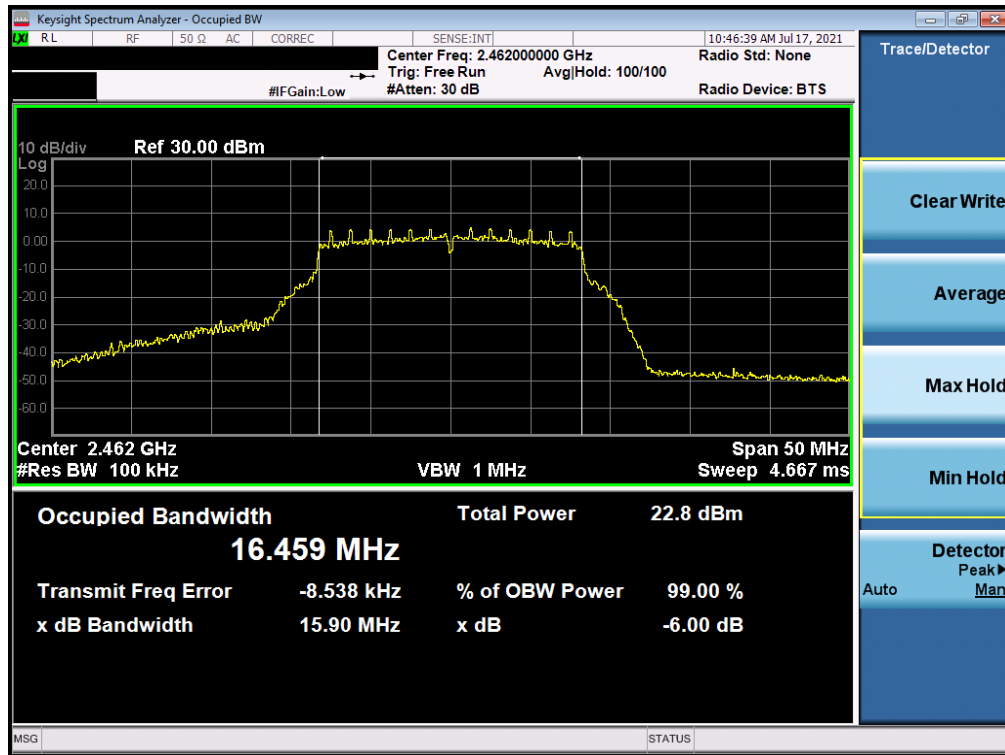


Plot 7-31. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 1) – 12Mbps

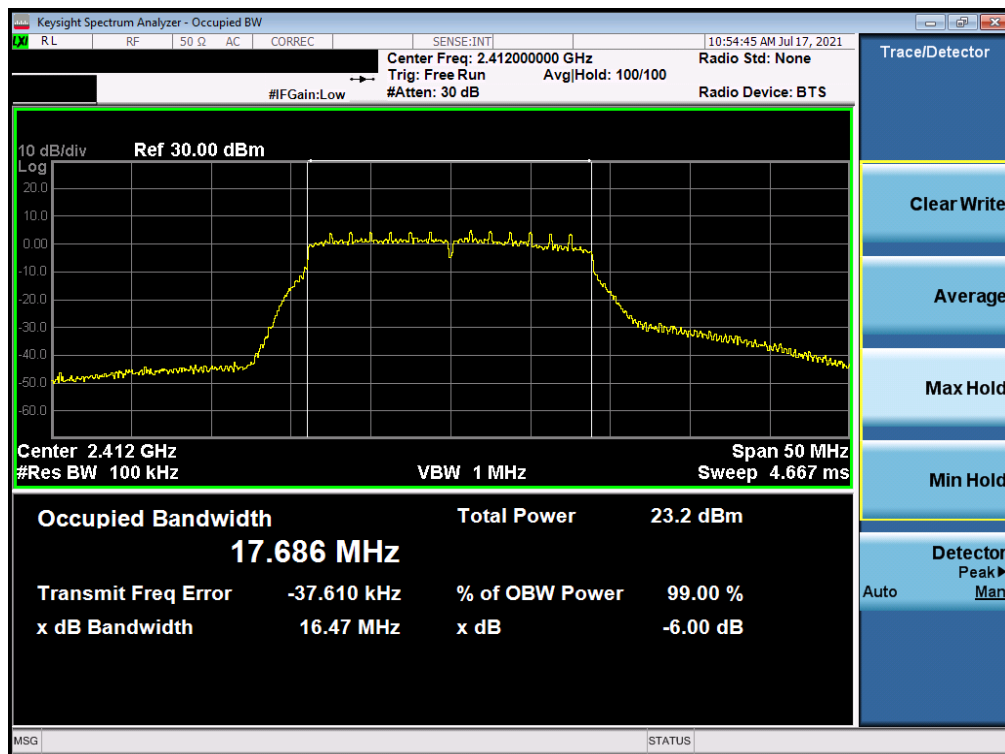


Plot 7-32. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 36 of 429

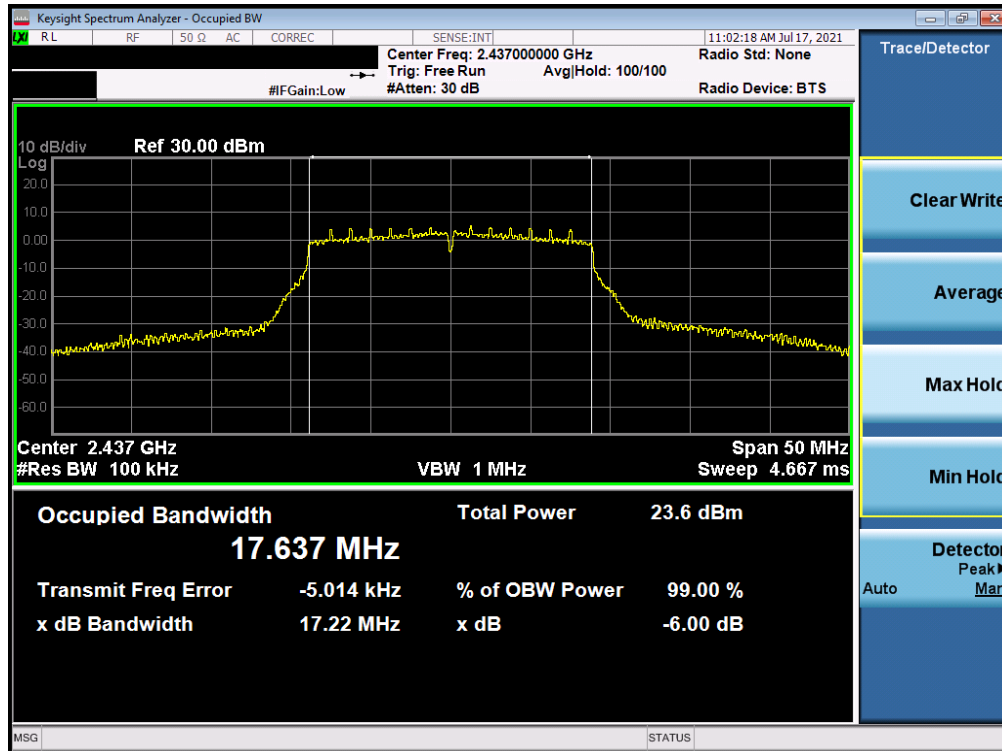


Plot 7-33. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 11) – 12Mbps

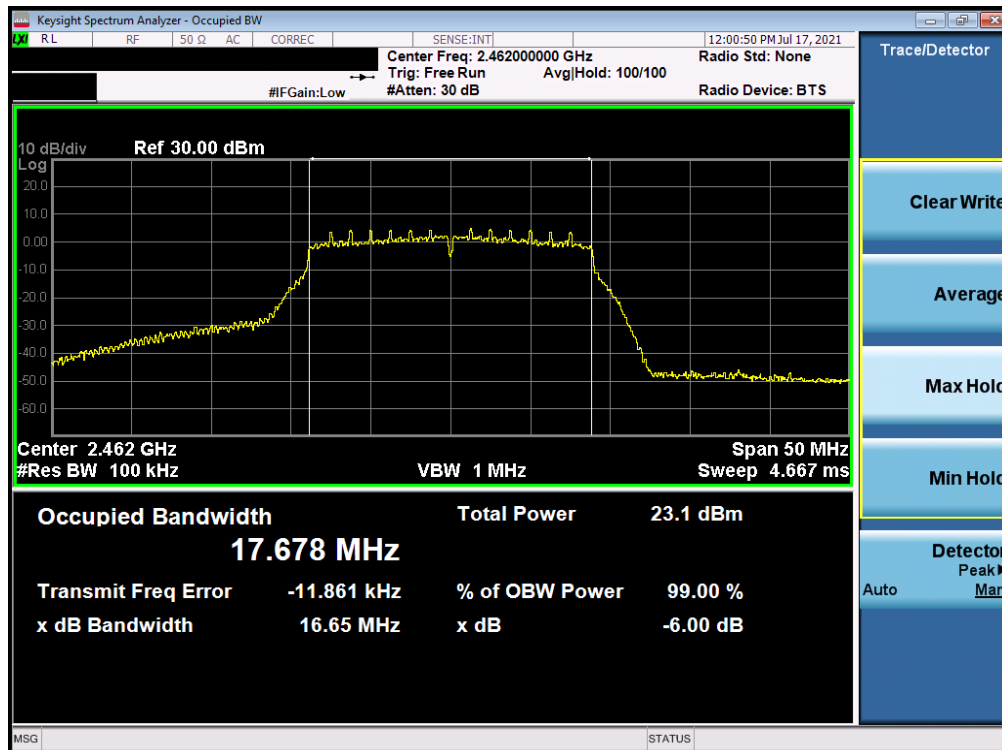


Plot 7-34. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 37 of 429



Plot 7-35. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS2

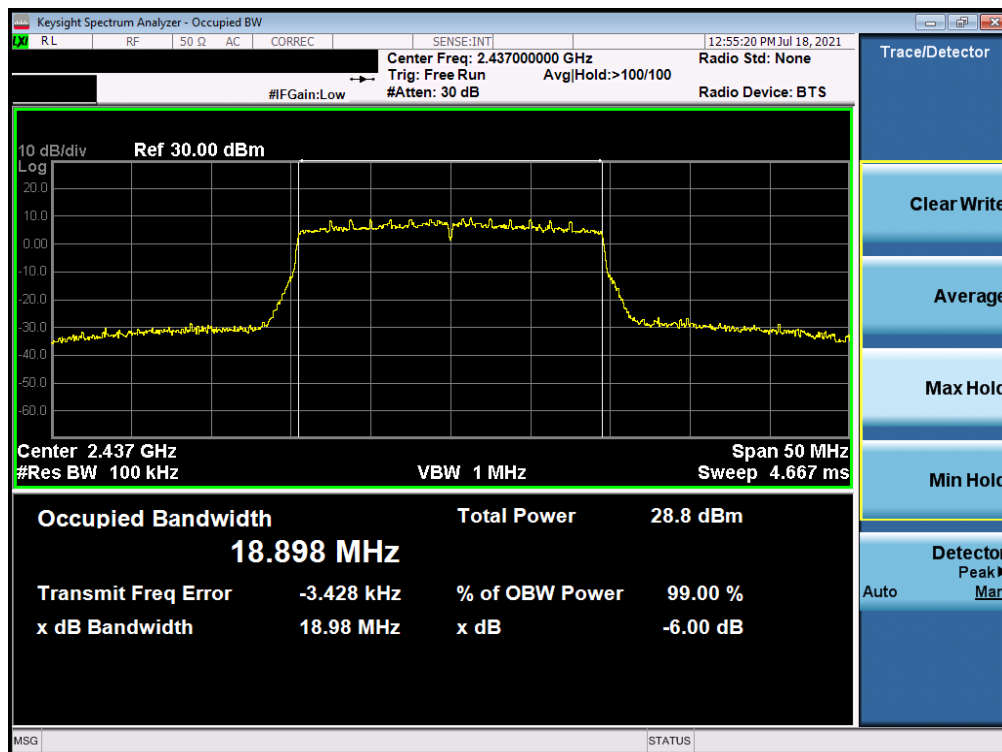


Plot 7-36. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 38 of 429

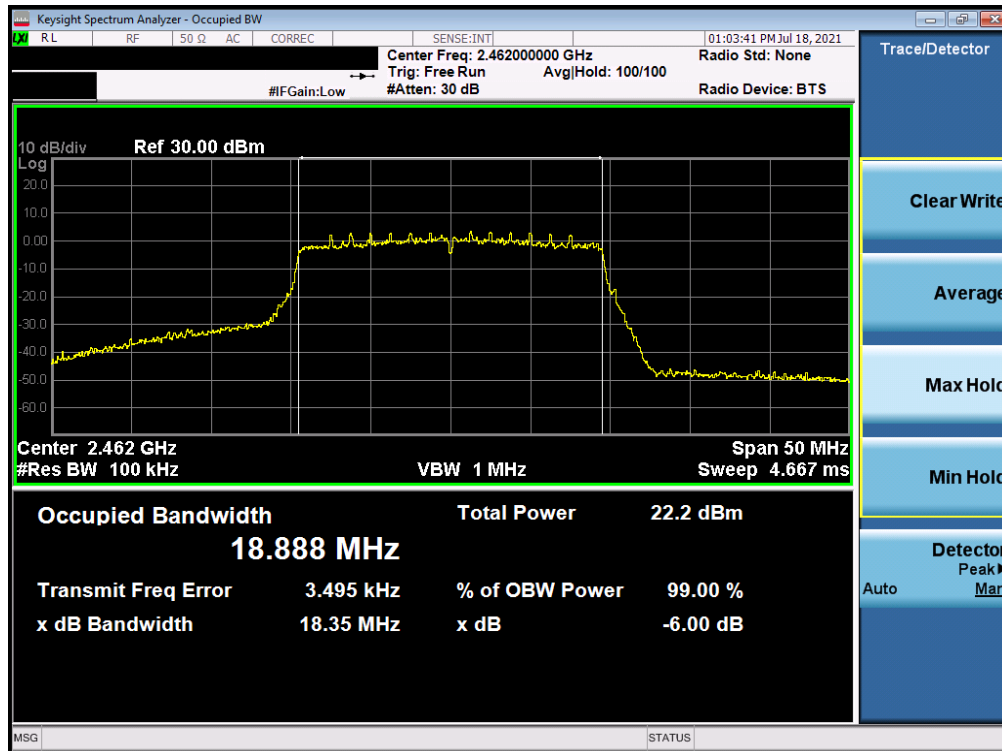


Plot 7-37. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-38. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 39 of 429

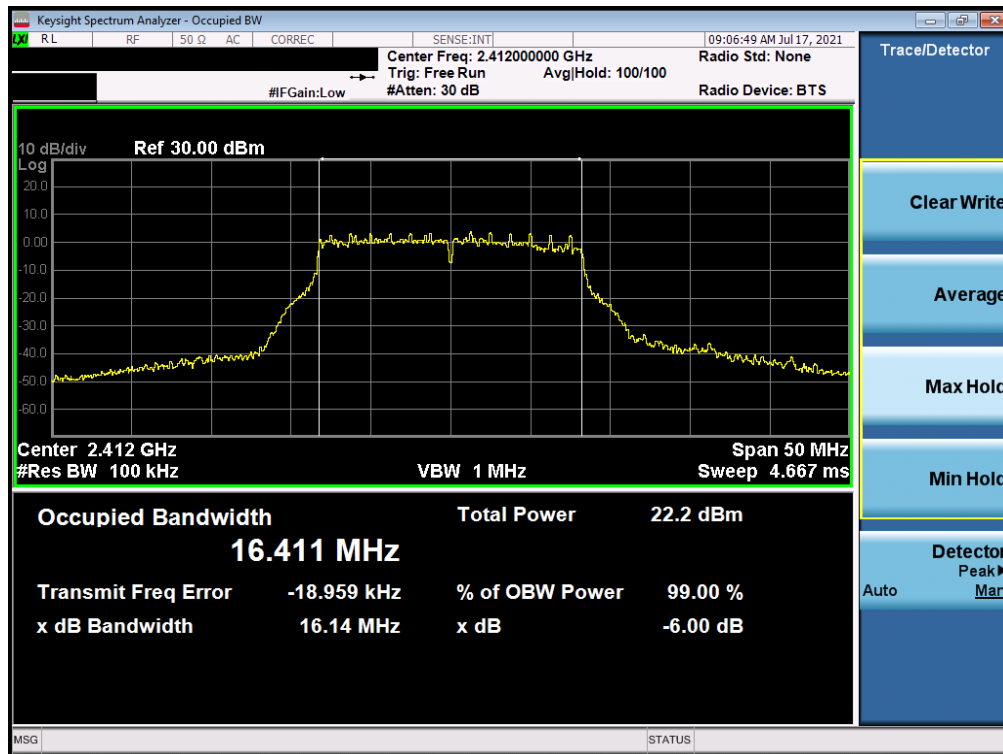


Plot 7-39. 6dB BW and 99% OBW Plot Antenna WF7 (802. 11ax (SU - 2.4GHz) – Ch. 11) – MCS2

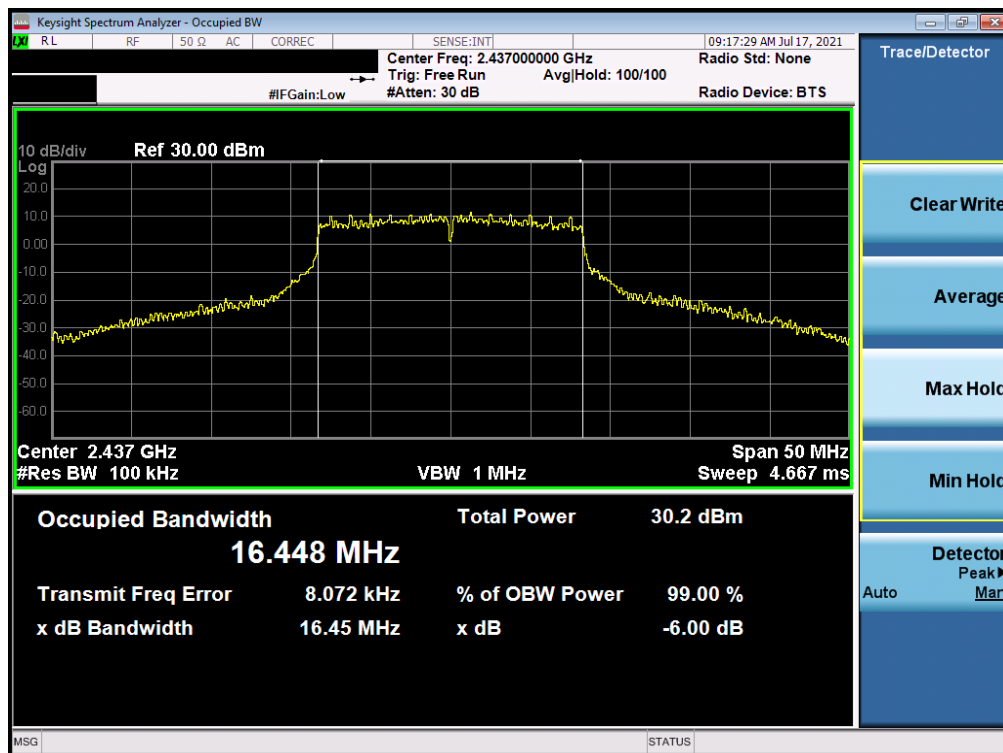
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 40 of 429



## Mid Data Rate

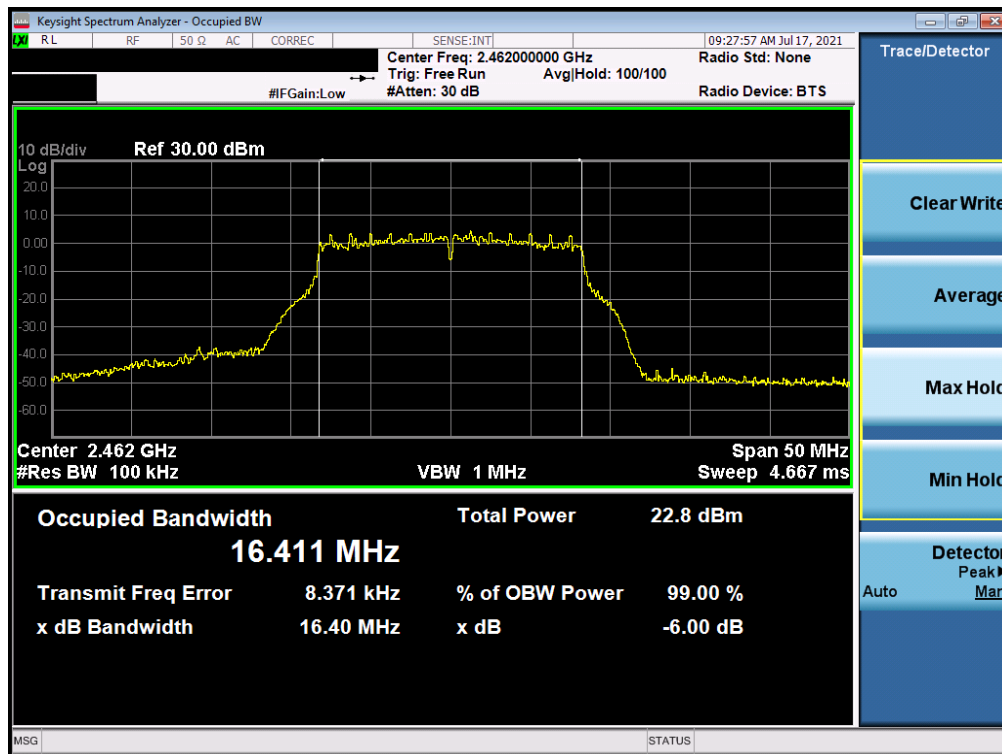


Plot 7-40. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 1) – 24Mbps

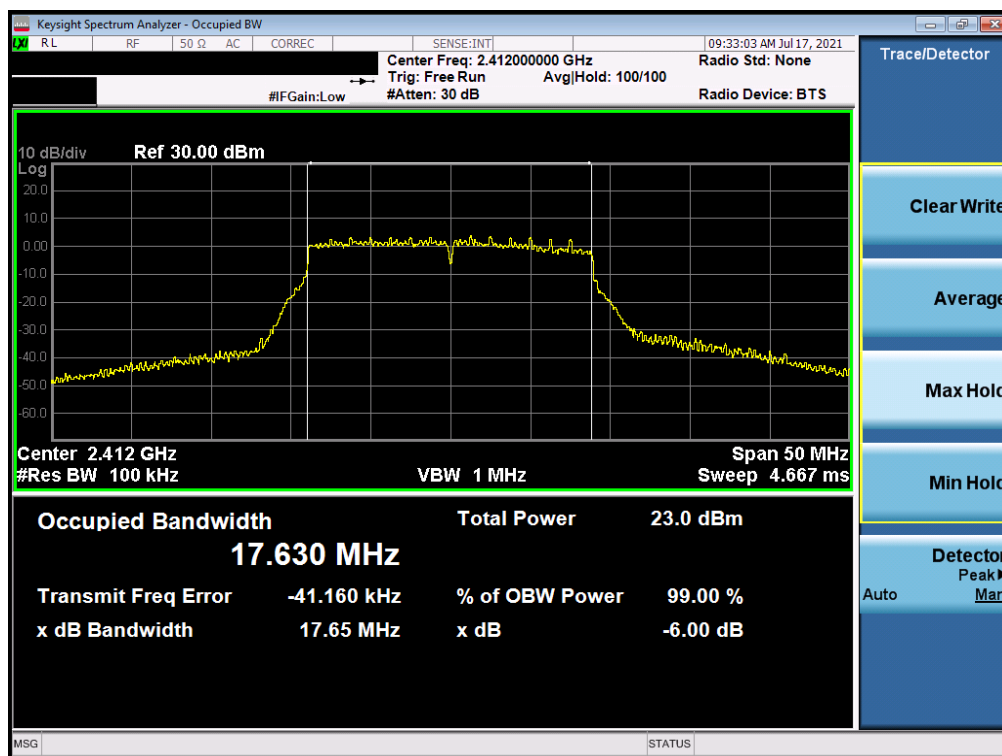


Plot 7-41. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 41 of 429

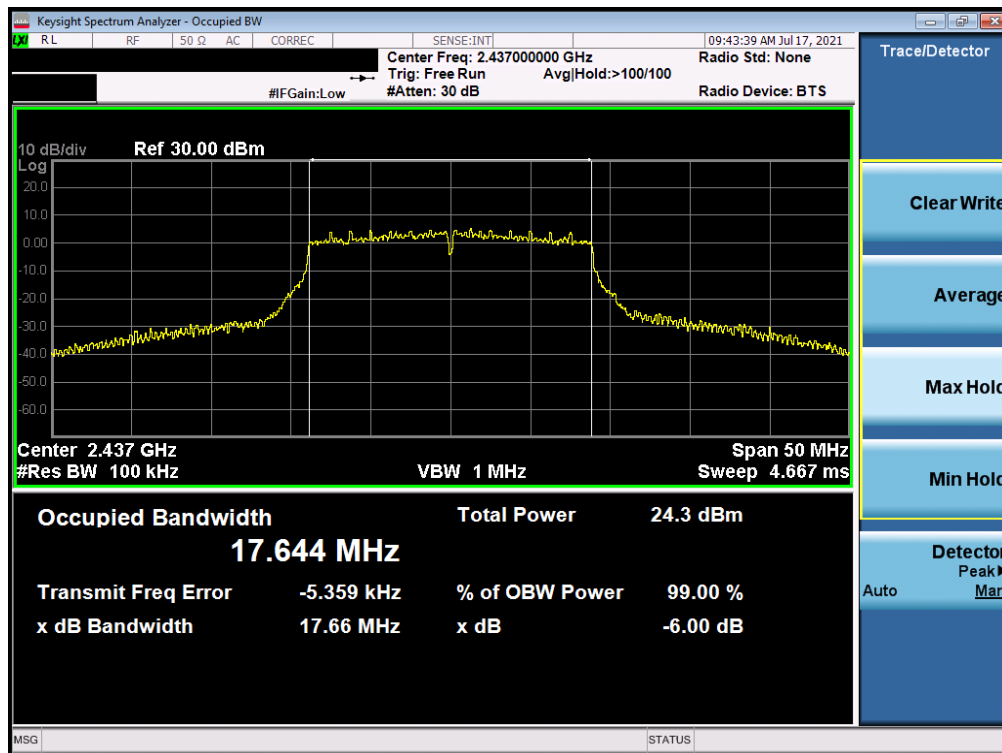


Plot 7-42. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 11) – 24Mbps

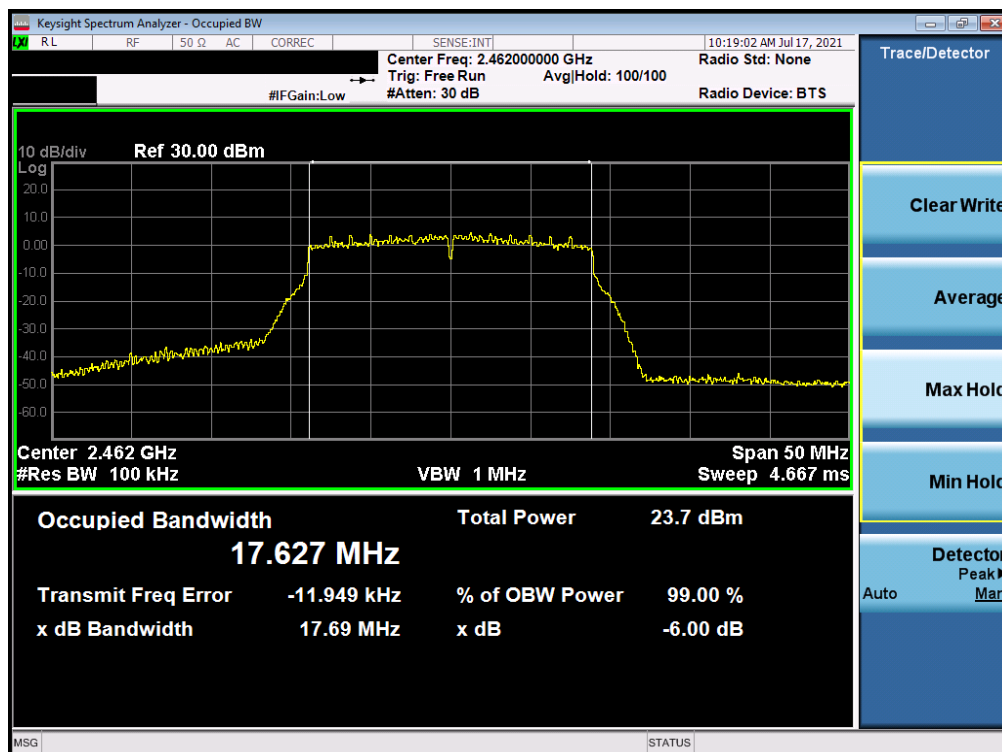


Plot 7-43. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 42 of 429

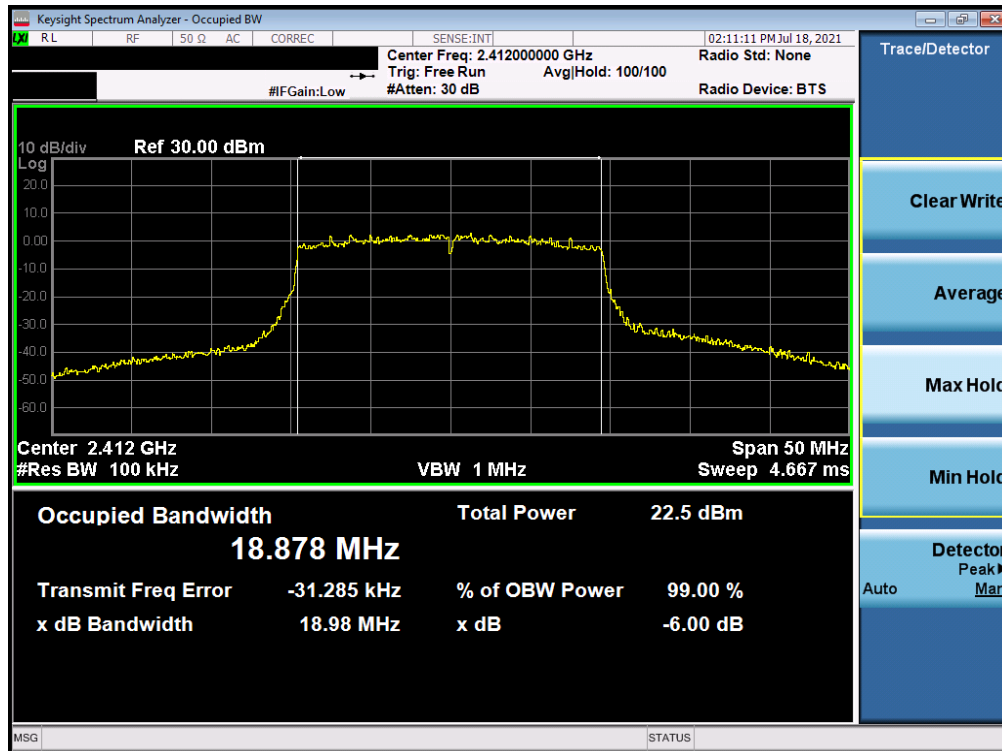


Plot 7-44. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS4

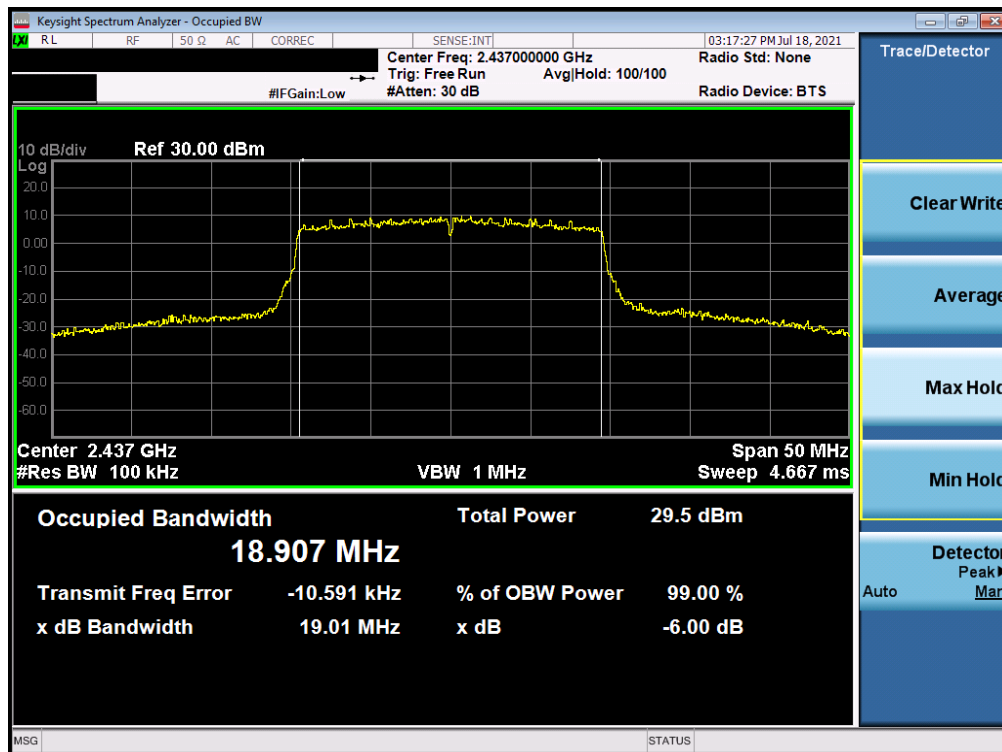


Plot 7-45. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 43 of 429

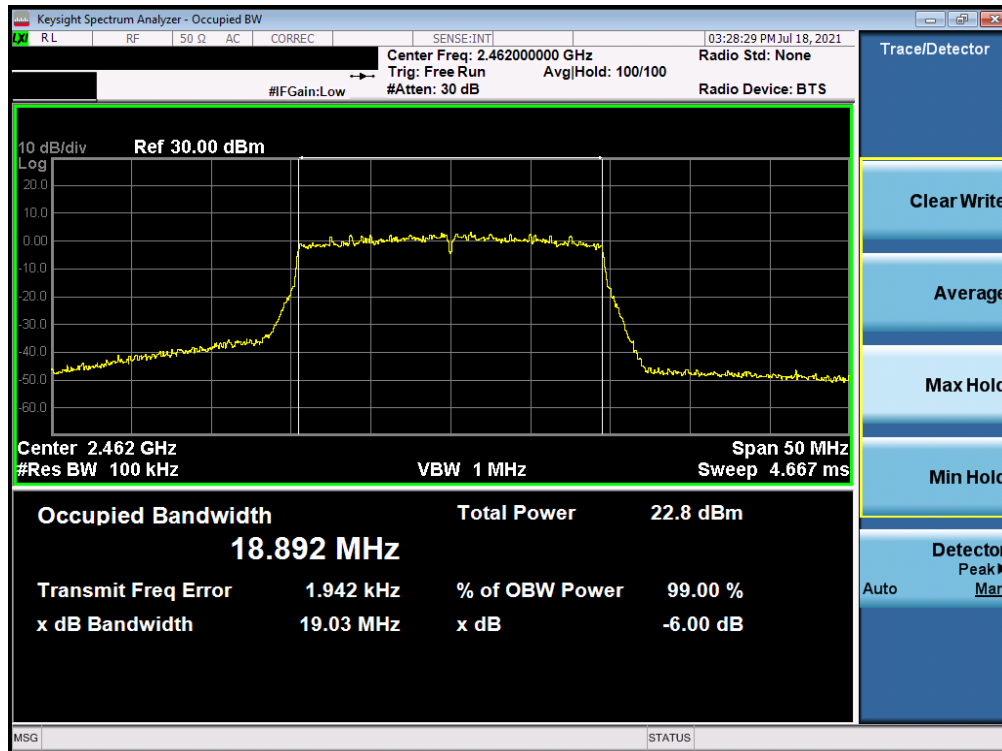


Plot 7-46. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



Plot 7-47. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

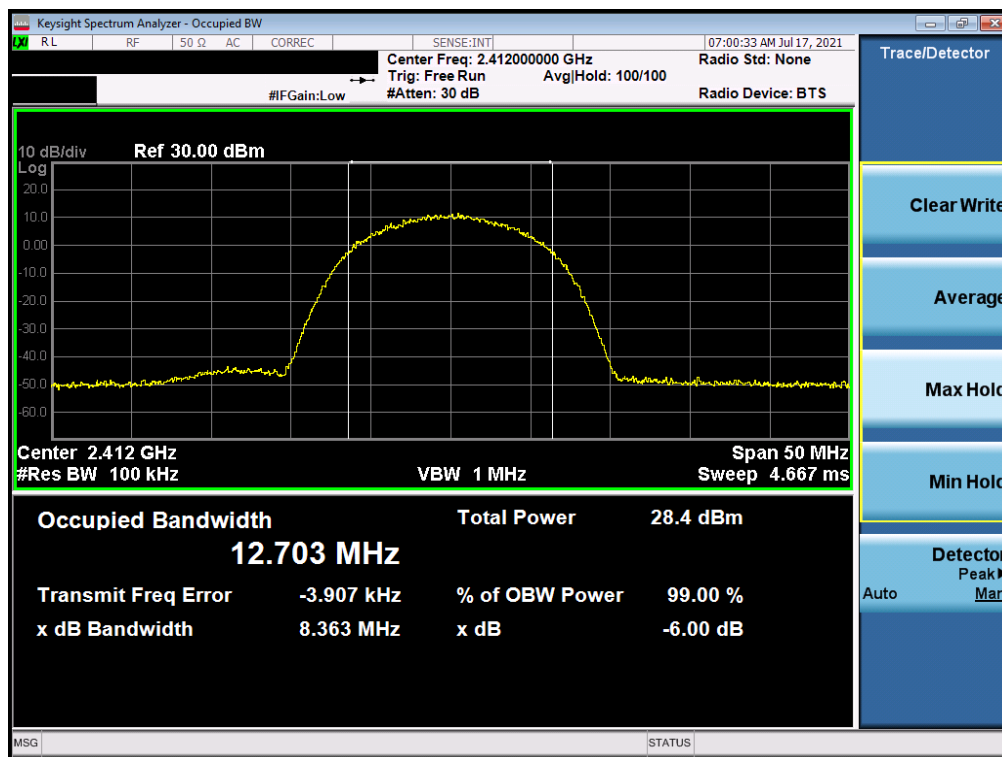
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 44 of 429



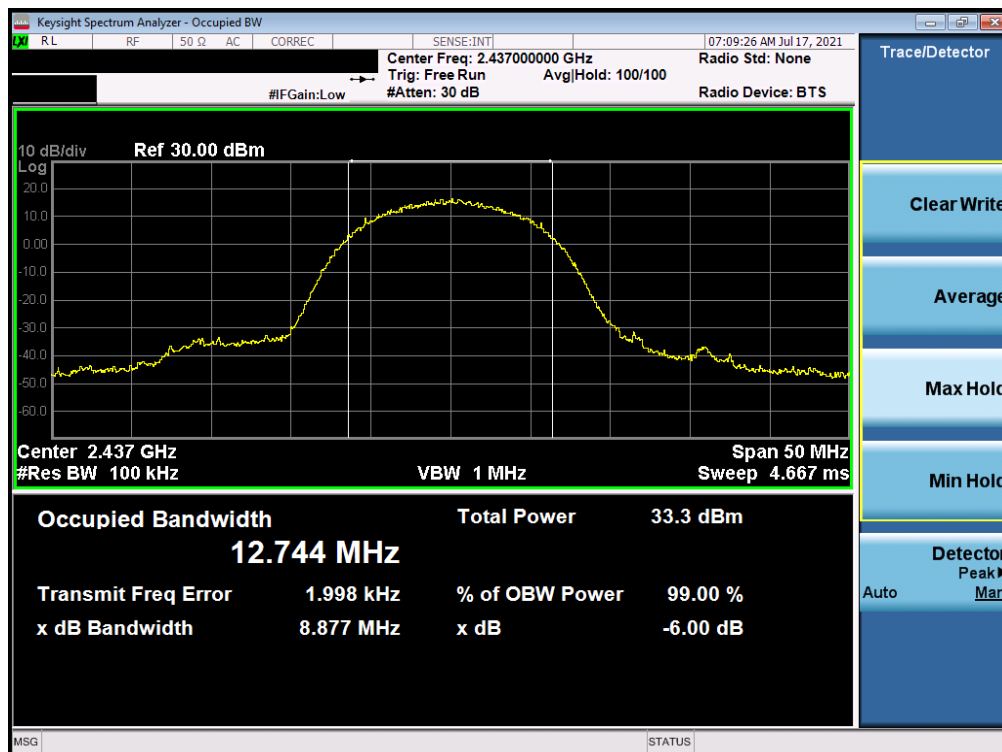
Plot 7-48. 6dB BW and 99% OBW Plot Antenna WF7 (802. 11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 45 of 429

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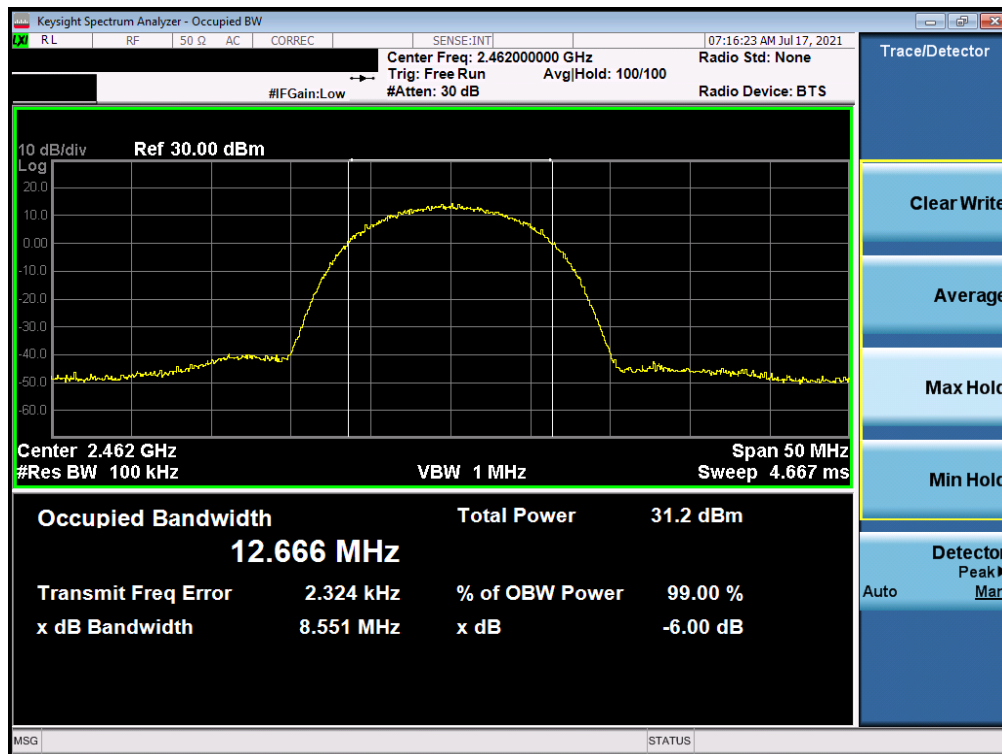


Plot 7-49. 6dB BW and 99% OBW Plot Antenna WF7 (802.11b – Ch. 1) – 11Mbps

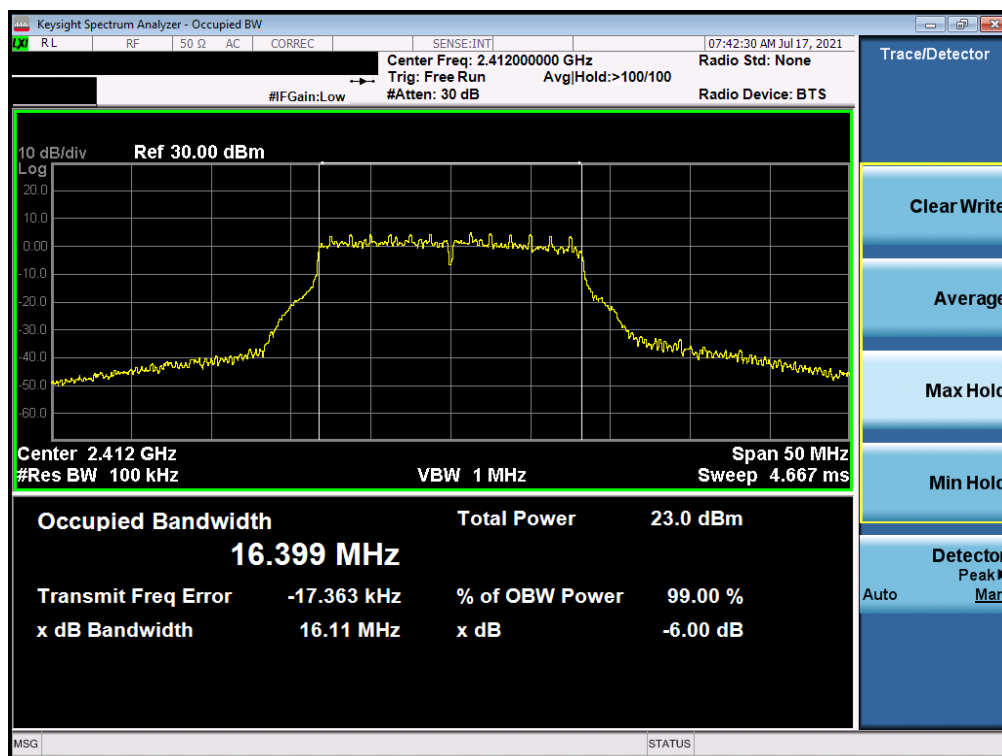


Plot 7-50. 6dB BW and 99% OBW Plot Antenna WF7 (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 46 of 429



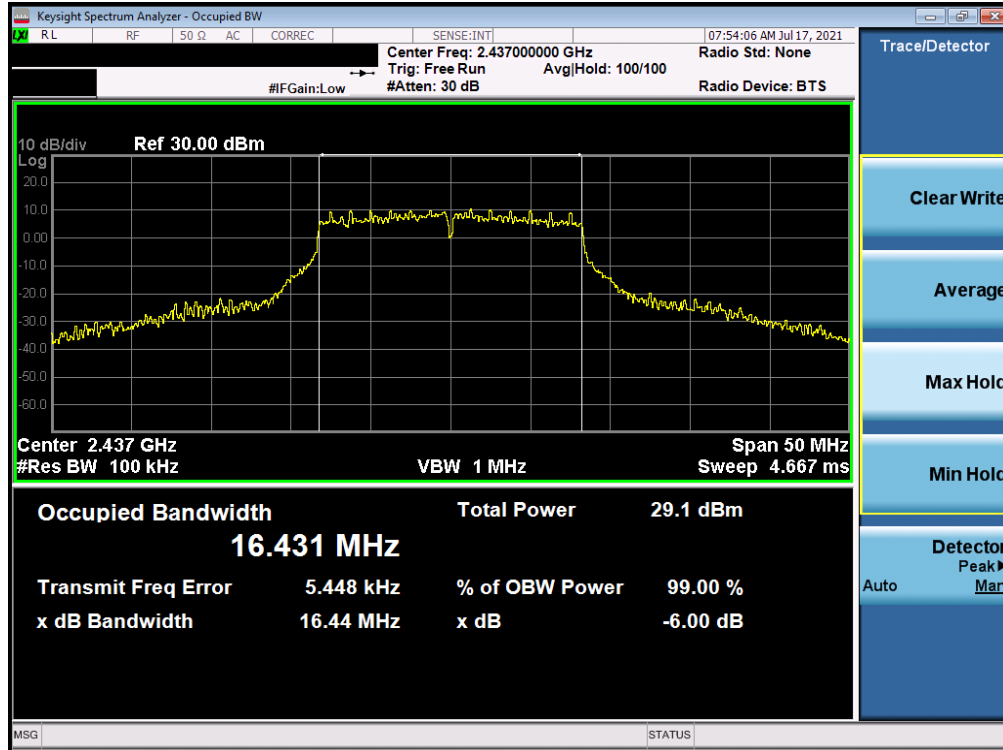
Plot 7-51. 6dB BW and 99% OBW Plot Antenna WF7 (802.11b – Ch. 11) – 11Mbps



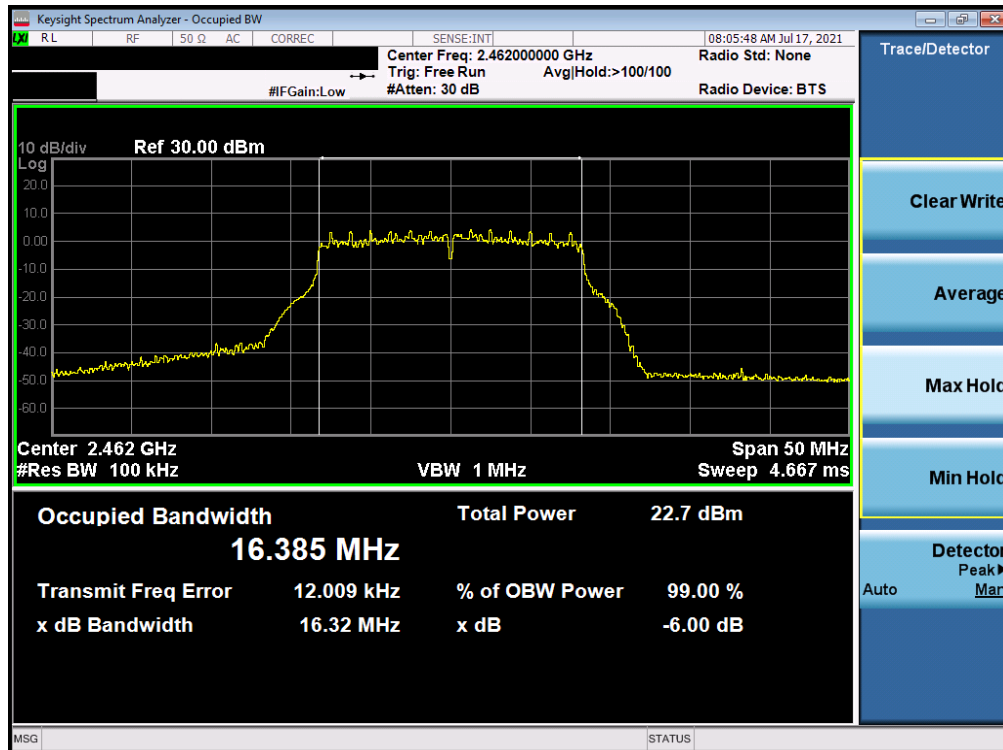
Plot 7-52. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 47 of 429





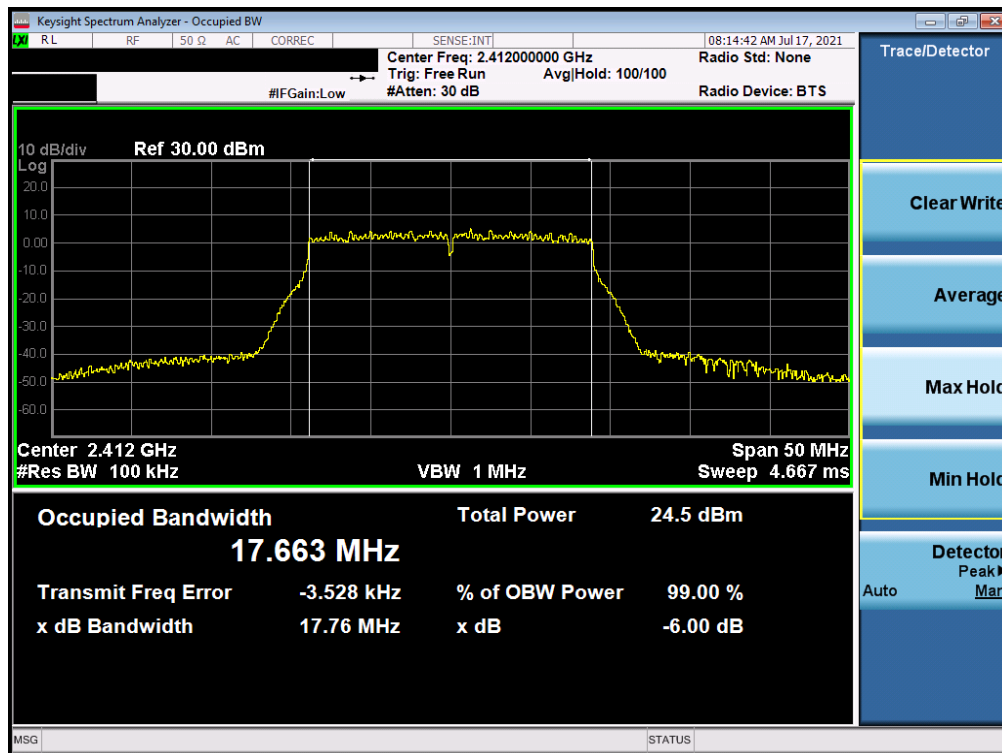
Plot 7-53. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 6) – 36Mbps



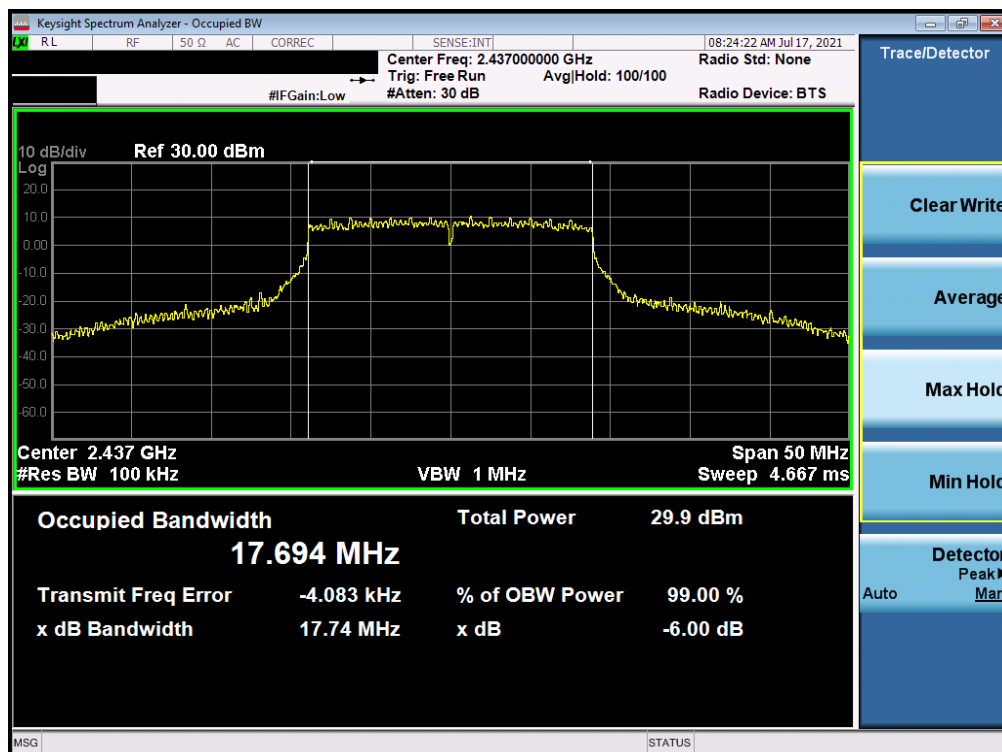
Plot 7-54. 6dB BW and 99% OBW Plot Antenna WF7 (802.11g – Ch. 11) – 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 48 of 429



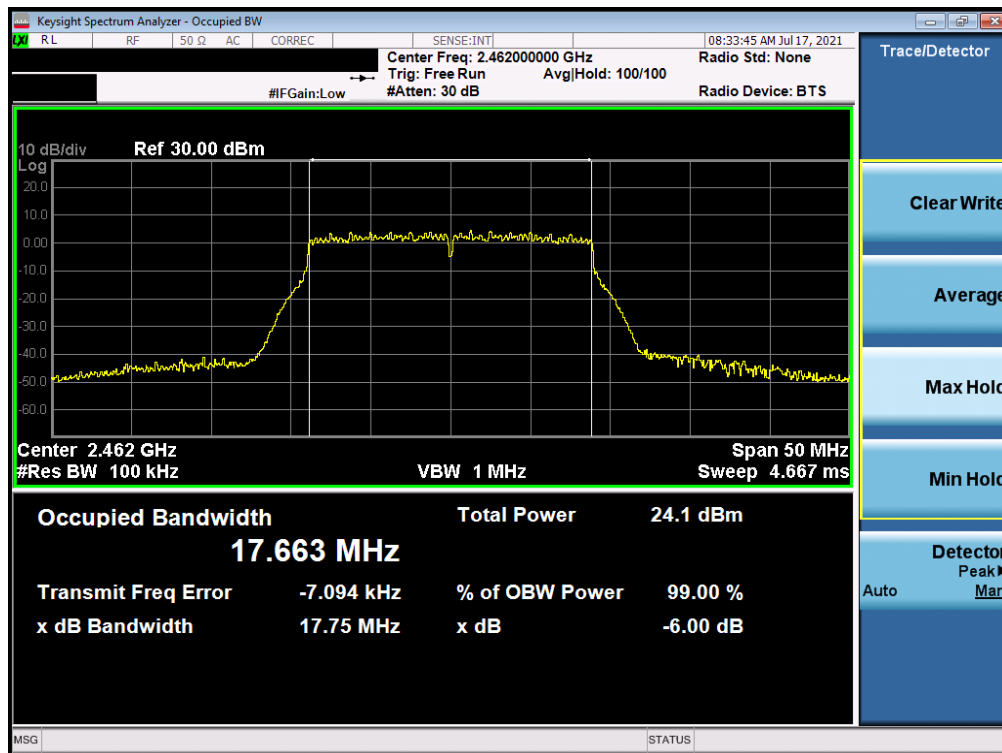


Plot 7-55. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS5

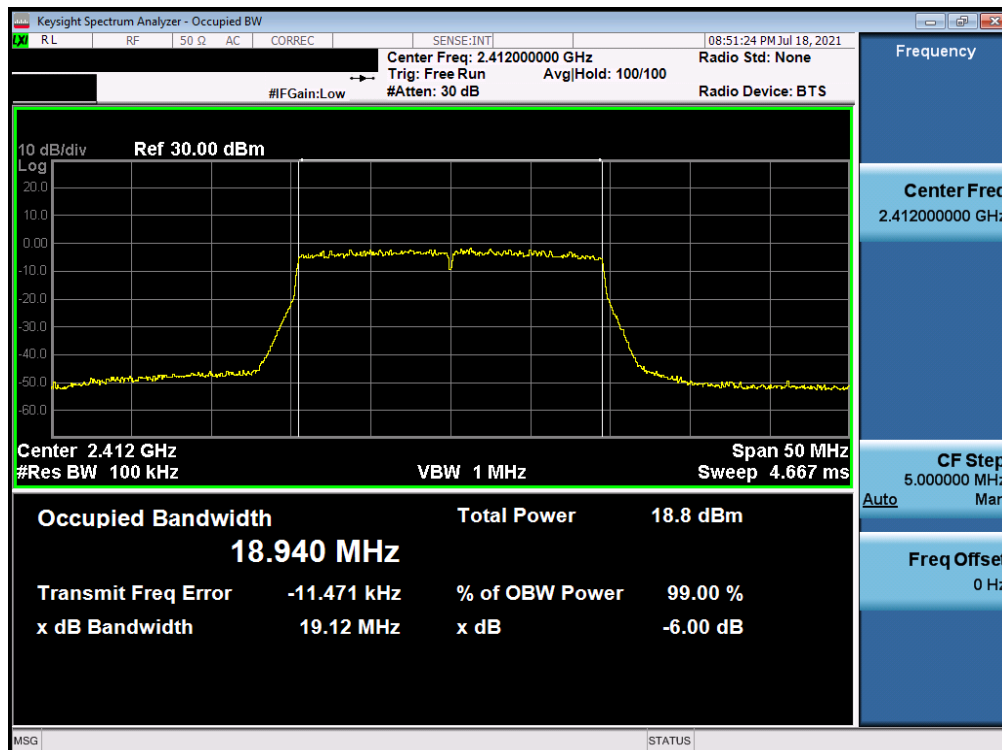


Plot 7-56. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 49 of 429

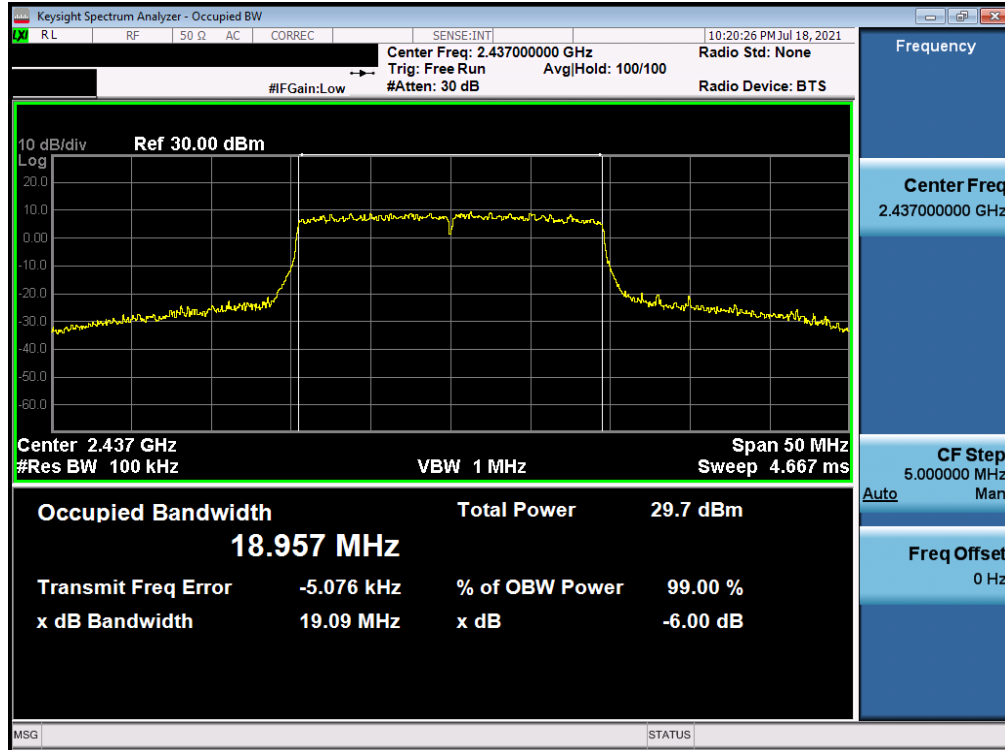


Plot 7-57. 6dB BW and 99% OBW Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS5

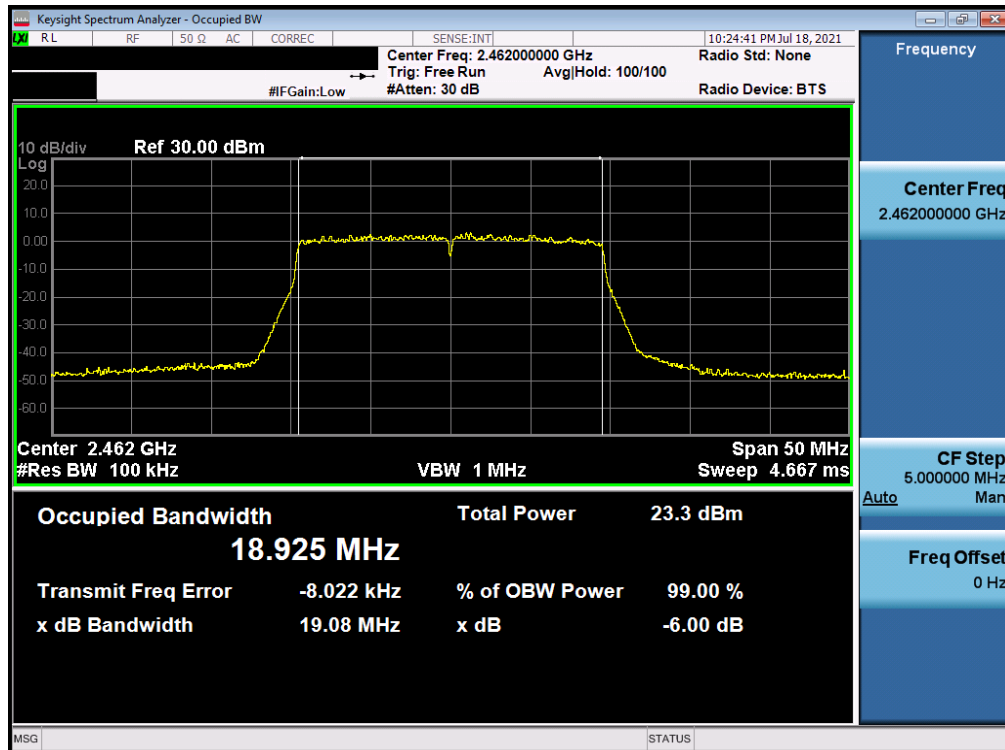


Plot 7-58. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 50 of 429



Plot 7-59. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-60. 6dB BW and 99% OBW Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 51 of 429

## 7.3 Output Power Measurement

**§15.247(b.3); RSS-247 [5.4]**

### **Test Overview and Limits**

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

***The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.***

***The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.***

***For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.***

### **Test Procedure Used**

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method  
KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method  
ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G  
KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)  
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique  
KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

### **Test Settings**

#### **Method PKPM1 (Peak Power Measurement)**

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

#### **Method AVGPM-G (Average Power Measurement)**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements**

### **Test Notes**

1. For 802.11b, the worst case data rate was found to be 11Mbps.
2. 802.11ax does not support channel 13.

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### 7.3.1 Average Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

#### Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	14.94	15.00	14.50	30.00	-15.00	2.20	17.20	36.02	-18.82
2417	2	AVG	19.50	19.50	18.41	30.00	-10.50	2.20	21.70	36.02	-14.32
2422	3	AVG	19.90	19.76	19.50	30.00	-10.10	2.20	22.10	36.02	-13.92
2427	4	AVG	21.00	20.61	20.00	30.00	-9.00	2.20	23.20	36.02	-12.82
2432	5	AVG	21.50	20.75	20.75	30.00	-8.50	2.20	23.70	36.02	-12.32
2437	6	AVG	21.54	20.70	20.74	30.00	-8.46	2.20	23.74	36.02	-12.28
2442	7	AVG	21.44	20.75	20.67	30.00	-8.56	2.20	23.64	36.02	-12.38
2447	8	AVG	20.50	20.50	20.00	30.00	-9.50	2.20	22.70	36.02	-13.32
2452	9	AVG	19.95	20.00	19.00	30.00	-10.00	2.20	22.20	36.02	-13.82
2457	10	AVG	19.50	19.41	17.72	30.00	-10.50	2.20	21.70	36.02	-14.32
2462	11	AVG	15.37	15.40	14.38	30.00	-14.60	2.20	17.60	36.02	-18.42
2467	12	AVG	13.83	13.85	12.50	30.00	-16.15	2.20	16.05	36.02	-19.97
2472	13	AVG	10.00	10.00	-	30.00	-20.00	2.20	12.20	36.02	-23.82

**Table 7-8. Average Conducted Output Power Measurements Antenna WF8 – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	15.00	15.00	14.50	30.00	-15.00	0.20	15.20	36.02	-20.82
2417	2	AVG	19.50	19.50	18.50	30.00	-10.50	0.20	19.70	36.02	-16.32
2422	3	AVG	19.81	19.97	19.41	30.00	-10.03	0.20	20.17	36.02	-15.85
2427	4	AVG	20.90	20.72	20.00	30.00	-9.10	0.20	21.10	36.02	-14.92
2432	5	AVG	21.41	20.75	20.74	30.00	-8.59	0.20	21.61	36.02	-14.41
2437	6	AVG	21.60	20.73	20.72	30.00	-8.40	0.20	21.80	36.02	-14.22
2442	7	AVG	21.50	20.71	20.63	30.00	-8.50	0.20	21.70	36.02	-14.32
2447	8	AVG	20.50	20.50	20.00	30.00	-9.50	0.20	20.70	36.02	-15.32
2452	9	AVG	20.00	19.88	18.98	30.00	-10.00	0.20	20.20	36.02	-15.82
2457	10	AVG	19.48	19.49	17.83	30.00	-10.51	0.20	19.69	36.02	-16.33
2462	11	AVG	15.28	15.38	14.45	30.00	-14.62	0.20	15.58	36.02	-20.44
2467	12	AVG	13.98	13.92	12.50	30.00	-16.02	0.20	14.18	36.02	-21.84
2472	13	AVG	10.00	10.00	-	30.00	-20.00	0.20	10.20	36.02	-25.82

**Table 7-9. Average Conducted Output Power Measurements Antenna WF7 – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	14.00	14.00	17.01	30.00	-12.99	4.27	21.28	36.02	-14.74
2417	2	AVG	17.47	17.50	20.50	30.00	-9.50	4.27	24.77	36.02	-11.25
2422	3	AVG	19.00	19.00	22.01	30.00	-7.99	4.27	26.28	36.02	-9.74
2427	4	AVG	19.92	20.00	22.97	30.00	-7.03	4.27	27.24	36.02	-8.78
2432	5	AVG	20.61	20.75	23.69	30.00	-6.31	4.27	27.96	36.02	-8.06
2437	6	AVG	20.75	20.75	23.76	30.00	-6.24	4.27	28.03	36.02	-7.99
2442	7	AVG	20.70	20.64	23.68	30.00	-6.32	4.27	27.95	36.02	-8.07
2447	8	AVG	19.95	20.00	22.99	30.00	-7.01	4.27	27.26	36.02	-8.76
2452	9	AVG	19.35	19.45	22.41	30.00	-7.59	4.27	26.68	36.02	-9.34
2457	10	AVG	18.00	17.89	20.96	30.00	-9.04	4.27	25.23	36.02	-10.79
2462	11	AVG	14.49	14.50	17.51	30.00	-12.49	4.27	21.78	36.02	-14.24
2467	12	AVG	11.89	11.94	14.93	30.00	-15.07	4.27	19.20	36.02	-16.82
2472	13	AVG	8.16	8.11	11.15	30.00	-18.85	4.27	15.42	36.02	-20.60

**Table 7-10. Average Conducted Output Power Measurements CDD (802.11g) – Low Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 53 of 429

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	13.96	13.91	16.95	30.00	-13.05	4.27	21.22	36.02	-14.80
2417	2	AVG	17.43	17.42	20.44	30.00	-9.56	4.27	24.71	36.02	-11.31
2422	3	AVG	18.98	18.92	21.96	30.00	-8.04	4.27	26.23	36.02	-9.79
2427	4	AVG	20.00	19.95	22.99	30.00	-7.01	4.27	27.26	36.02	-8.76
2432	5	AVG	20.70	20.64	23.68	30.00	-6.32	4.27	27.95	36.02	-8.07
2437	6	AVG	20.65	20.75	23.71	30.00	-6.29	4.27	27.98	36.02	-8.04
2442	7	AVG	20.64	20.74	23.70	30.00	-6.30	4.27	27.97	36.02	-8.05
2447	8	AVG	20.00	19.90	22.96	30.00	-7.04	4.27	27.23	36.02	-8.79
2452	9	AVG	19.40	19.49	22.46	30.00	-7.54	4.27	26.73	36.02	-9.29
2457	10	AVG	17.90	17.98	20.95	30.00	-9.05	4.27	25.22	36.02	-10.80
2462	11	AVG	14.49	14.50	17.51	30.00	-12.49	4.27	21.78	36.02	-14.24
2467	12	AVG	12.00	11.94	14.98	30.00	-15.02	4.27	19.25	36.02	-16.77
2472	13	AVG	8.25	8.25	11.26	30.00	-18.74	4.27	15.53	36.02	-20.49

**Table 7-11. Average Conducted Output Power Measurements CDD (802.11n) – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	13.42	13.48	16.46	30.00	-13.54	4.27	20.73	36.02	-15.29
2417	2	AVG	17.44	17.44	20.45	30.00	-9.55	4.27	24.72	36.02	-11.30
2422	3	AVG	18.50	18.50	21.51	30.00	-8.49	4.27	25.78	36.02	-10.24
2427	4	AVG	19.50	19.23	22.38	30.00	-7.62	4.27	26.65	36.02	-9.37
2432	5	AVG	19.95	20.00	22.99	30.00	-7.01	4.27	27.26	36.02	-8.76
2437	6	AVG	20.45	20.50	23.49	30.00	-6.51	4.27	27.76	36.02	-8.26
2442	7	AVG	20.00	19.88	22.95	30.00	-7.05	4.27	27.22	36.02	-8.80
2447	8	AVG	19.00	19.00	22.01	30.00	-7.99	4.27	26.28	36.02	-9.74
2452	9	AVG	18.25	18.23	21.25	30.00	-8.75	4.27	25.52	36.02	-10.50
2457	10	AVG	17.00	17.00	20.01	30.00	-9.99	4.27	24.28	36.02	-11.74
2462	11	AVG	13.15	13.14	16.16	30.00	-13.84	4.27	20.43	36.02	-15.59
2467	12	AVG	11.89	12.00	14.96	30.00	-15.04	4.27	19.23	36.02	-16.79

**Table 7-12. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 54 of 429

## Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	13.98	14.00	13.50	30.00	-16.00	2.20	16.20	36.02	-19.82
2417	2	AVG	18.47	18.50	17.50	30.00	-11.50	2.20	20.70	36.02	-15.32
2422	3	AVG	19.41	19.50	18.86	30.00	-10.50	2.20	21.70	36.02	-14.32
2427	4	AVG	20.20	20.45	19.47	30.00	-9.55	2.20	22.65	36.02	-13.37
2432	5	AVG	21.00	20.55	19.95	30.00	-9.00	2.20	23.20	36.02	-12.82
2437	6	AVG	21.69	20.71	20.66	30.00	-8.31	2.20	23.89	36.02	-12.13
2442	7	AVG	20.96	20.68	20.00	30.00	-9.04	2.20	23.16	36.02	-12.86
2447	8	AVG	19.96	19.83	19.00	30.00	-10.04	2.20	22.16	36.02	-13.86
2452	9	AVG	19.46	19.50	18.50	30.00	-10.50	2.20	21.70	36.02	-14.32
2457	10	AVG	17.89	18.00	16.99	30.00	-12.00	2.20	20.20	36.02	-15.82
2462	11	AVG	14.99	15.00	14.00	30.00	-15.00	2.20	17.20	36.02	-18.82
2467	12	AVG	12.96	13.00	11.96	30.00	-17.00	2.20	15.20	36.02	-20.82
2472	13	AVG	9.48	9.43	-	30.00	-20.52	2.20	11.68	36.02	-24.34

**Table 7-13. Average Conducted Output Power Measurements Antenna WF8 – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	13.89	14.00	13.46	30.00	-16.00	0.20	14.20	36.02	-21.82
2417	2	AVG	18.36	18.40	17.38	30.00	-11.60	0.20	18.60	36.02	-17.42
2422	3	AVG	19.50	19.50	19.00	30.00	-10.50	0.20	19.70	36.02	-16.32
2427	4	AVG	20.33	20.40	19.34	30.00	-9.60	0.20	20.60	36.02	-15.42
2432	5	AVG	21.00	20.70	19.93	30.00	-9.00	0.20	21.20	36.02	-14.82
2437	6	AVG	21.50	20.75	20.72	30.00	-8.50	0.20	21.70	36.02	-14.32
2442	7	AVG	21.00	20.75	20.00	30.00	-9.00	0.20	21.20	36.02	-14.82
2447	8	AVG	19.98	19.92	18.80	30.00	-10.02	0.20	20.18	36.02	-15.84
2452	9	AVG	19.50	19.42	18.35	30.00	-10.50	0.20	19.70	36.02	-16.32
2457	10	AVG	17.94	18.00	17.00	30.00	-12.00	0.20	18.20	36.02	-17.82
2462	11	AVG	14.78	15.00	13.96	30.00	-15.00	0.20	15.20	36.02	-20.82
2467	12	AVG	12.85	12.94	11.98	30.00	-17.06	0.20	13.14	36.02	-22.88
2472	13	AVG	9.37	9.50	-	30.00	-20.50	0.20	9.70	36.02	-26.32

**Table 7-14. Average Conducted Output Power Measurements Antenna WF7 – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	12.81	12.87	15.85	30.00	-14.15	4.27	20.12	36.02	-15.90
2417	2	AVG	17.42	17.33	20.39	30.00	-9.61	4.27	24.66	36.02	-11.36
2422	3	AVG	18.30	18.45	21.39	30.00	-8.61	4.27	25.66	36.02	-10.36
2427	4	AVG	19.34	19.39	22.38	30.00	-7.62	4.27	26.65	36.02	-9.37
2432	5	AVG	20.00	19.93	22.98	30.00	-7.02	4.27	27.25	36.02	-8.77
2437	6	AVG	20.70	20.66	23.69	30.00	-6.31	4.27	27.96	36.02	-8.06
2442	7	AVG	20.49	20.22	23.37	30.00	-6.63	4.27	27.64	36.02	-8.38
2447	8	AVG	19.50	19.38	22.45	30.00	-7.55	4.27	26.72	36.02	-9.30
2452	9	AVG	18.44	18.50	21.48	30.00	-8.52	4.27	25.75	36.02	-10.27
2457	10	AVG	17.42	17.50	20.47	30.00	-9.53	4.27	24.74	36.02	-11.28
2462	11	AVG	13.90	13.81	16.87	30.00	-13.13	4.27	21.14	36.02	-14.88
2467	12	AVG	11.36	11.34	14.36	30.00	-15.64	4.27	18.63	36.02	-17.39
2472	13	AVG	7.99	8.00	11.01	30.00	-18.99	4.27	15.28	36.02	-20.74

**Table 7-15. Average Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 55 of 429



Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	12.88	12.85	15.88	30.00	-14.12	4.27	20.15	36.02	-15.87
2417	2	AVG	17.40	17.38	20.40	30.00	-9.60	4.27	24.67	36.02	-11.35
2422	3	AVG	18.46	18.50	21.49	30.00	-8.51	4.27	25.76	36.02	-10.26
2427	4	AVG	19.42	19.37	22.41	30.00	-7.59	4.27	26.68	36.02	-9.34
2432	5	AVG	19.99	19.95	22.98	30.00	-7.02	4.27	27.25	36.02	-8.77
2437	6	AVG	20.74	20.69	23.73	30.00	-6.27	4.27	28.00	36.02	-8.02
2442	7	AVG	20.23	20.41	23.33	30.00	-6.67	4.27	27.60	36.02	-8.42
2447	8	AVG	19.43	19.49	22.47	30.00	-7.53	4.27	26.74	36.02	-9.28
2452	9	AVG	18.43	18.48	21.47	30.00	-8.53	4.27	25.74	36.02	-10.28
2457	10	AVG	17.46	17.43	20.46	30.00	-9.54	4.27	24.73	36.02	-11.29
2462	11	AVG	13.99	13.88	16.95	30.00	-13.05	4.27	21.22	36.02	-14.80
2467	12	AVG	11.42	11.44	14.44	30.00	-15.56	4.27	18.71	36.02	-17.31
2472	13	AVG	7.86	7.95	10.92	30.00	-19.08	4.27	15.19	36.02	-20.83

**Table 7-16. Average Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	12.50	12.49	15.51	30.00	-14.49	4.27	19.78	36.02	-16.24
2417	2	AVG	16.88	16.95	19.93	30.00	-10.07	4.27	24.20	36.02	-11.82
2422	3	AVG	17.94	18.00	20.98	30.00	-9.02	4.27	25.25	36.02	-10.77
2427	4	AVG	18.88	18.90	21.90	30.00	-8.10	4.27	26.17	36.02	-9.85
2432	5	AVG	19.47	19.48	22.49	30.00	-7.51	4.27	26.76	36.02	-9.26
2437	6	AVG	19.75	19.81	22.79	30.00	-7.21	4.27	27.06	36.02	-8.96
2442	7	AVG	19.50	19.50	22.51	30.00	-7.49	4.27	26.78	36.02	-9.24
2447	8	AVG	18.24	18.18	21.22	30.00	-8.78	4.27	25.49	36.02	-10.53
2452	9	AVG	17.48	17.47	20.49	30.00	-9.51	4.27	24.76	36.02	-11.26
2457	10	AVG	15.99	15.98	19.00	30.00	-11.00	4.27	23.27	36.02	-12.75
2462	11	AVG	12.67	12.62	15.66	30.00	-14.34	4.27	19.93	36.02	-16.09
2467	12	AVG	10.72	10.89	13.82	30.00	-16.18	4.27	18.09	36.02	-17.93

**Table 7-17. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 56 of 429



## High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	18.50	14.85	15.00	13.97	30.00	-11.50	2.20	20.70	36.02	-15.32
2417	2	AVG	20.00	18.00	18.00	16.95	30.00	-10.00	2.20	22.20	36.02	-13.82
2422	3	AVG	21.37	18.80	18.96	17.99	30.00	-8.63	2.20	23.57	36.02	-12.45
2427	4	AVG	22.90	19.95	19.98	19.00	30.00	-7.10	2.20	25.10	36.02	-10.92
2432	5	AVG	22.95	20.34	20.46	19.46	30.00	-7.05	2.20	25.15	36.02	-10.87
2437	6	AVG	22.98	20.73	20.75	19.91	30.00	-7.02	2.20	25.18	36.02	-10.84
2442	7	AVG	22.78	20.41	20.43	19.43	30.00	-7.22	2.20	24.98	36.02	-11.04
2447	8	AVG	22.85	19.47	19.47	17.90	30.00	-7.15	2.20	25.05	36.02	-10.97
2452	9	AVG	23.00	18.85	19.00	17.30	30.00	-7.00	2.20	25.20	36.02	-10.82
2457	10	AVG	21.50	16.99	17.00	16.00	30.00	-8.50	2.20	23.70	36.02	-12.32
2462	11	AVG	20.95	14.89	14.91	13.50	30.00	-9.05	2.20	23.15	36.02	-12.87
2467	12	AVG	19.41	12.47	12.43	11.49	30.00	-10.59	2.20	21.61	36.02	-14.41
2472	13	AVG	17.47	9.00	8.98	-	30.00	-12.53	2.20	19.67	36.02	-16.35

**Table 7-18. Average Conducted Output Power Measurements Antenna WF8 – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	18.44	15.00	14.97	13.95	30.00	-11.56	0.20	18.64	36.02	-17.38
2417	2	AVG	20.00	17.89	17.80	16.87	30.00	-10.00	0.20	20.20	36.02	-15.82
2422	3	AVG	21.47	18.97	18.97	17.89	30.00	-8.53	0.20	21.67	36.02	-14.35
2427	4	AVG	22.80	19.85	20.00	18.98	30.00	-7.20	0.20	23.00	36.02	-13.02
2432	5	AVG	22.91	20.37	20.47	19.45	30.00	-7.09	0.20	23.11	36.02	-12.91
2437	6	AVG	22.97	20.62	20.70	19.99	30.00	-7.03	0.20	23.17	36.02	-12.85
2442	7	AVG	23.00	20.33	20.39	19.50	30.00	-7.00	0.20	23.20	36.02	-12.82
2447	8	AVG	23.00	19.42	19.50	17.92	30.00	-7.00	0.20	23.20	36.02	-12.82
2452	9	AVG	22.98	19.00	19.00	17.36	30.00	-7.02	0.20	23.18	36.02	-12.84
2457	10	AVG	21.35	16.96	17.00	15.83	30.00	-8.65	0.20	21.55	36.02	-14.47
2462	11	AVG	20.97	14.84	14.93	13.50	30.00	-9.03	0.20	21.17	36.02	-14.85
2467	12	AVG	19.47	12.30	12.50	11.50	30.00	-10.53	0.20	19.67	36.02	-16.35
2472	13	AVG	17.40	9.00	8.97	-	30.00	-12.60	0.20	17.60	36.02	-18.42

**Table 7-19. Average Conducted Output Power Measurements Antenna WF7 – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	13.97	13.90	16.95	30.00	-13.05	4.27	21.22	36.02	-14.80
2417	2	AVG	16.84	16.93	19.90	30.00	-10.10	4.27	24.17	36.02	-11.85
2422	3	AVG	17.82	18.00	20.92	30.00	-9.08	4.27	25.19	36.02	-10.83
2427	4	AVG	18.91	18.84	21.89	30.00	-8.11	4.27	26.16	36.02	-9.86
2432	5	AVG	19.33	19.32	22.34	30.00	-7.66	4.27	26.61	36.02	-9.41
2437	6	AVG	20.22	20.44	23.34	30.00	-6.66	4.27	27.61	36.02	-8.41
2442	7	AVG	19.76	19.95	22.87	30.00	-7.13	4.27	27.14	36.02	-8.88
2447	8	AVG	18.99	18.91	21.96	30.00	-8.04	4.27	26.23	36.02	-9.79
2452	9	AVG	17.83	17.96	20.91	30.00	-9.09	4.27	25.18	36.02	-10.84
2457	10	AVG	16.41	16.46	19.45	30.00	-10.55	4.27	23.72	36.02	-12.30
2462	11	AVG	13.31	13.45	16.39	30.00	-13.61	4.27	20.66	36.02	-15.36
2467	12	AVG	10.82	11.00	13.92	30.00	-16.08	4.27	18.19	36.02	-17.83
2472	13	AVG	7.50	7.24	10.38	30.00	-19.62	4.27	14.65	36.02	-21.37

**Table 7-20. Average Conducted Output Power Measurements CDD (802.11g) – High Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 57 of 429

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	13.81	13.95	16.89	30.00	-13.11	4.27	21.16	36.02	-14.86
2417	2	AVG	16.90	16.98	19.95	30.00	-10.05	4.27	24.22	36.02	-11.80
2422	3	AVG	17.90	17.85	20.89	30.00	-9.11	4.27	25.16	36.02	-10.86
2427	4	AVG	18.96	18.91	21.95	30.00	-8.05	4.27	26.22	36.02	-9.80
2432	5	AVG	19.50	19.46	22.49	30.00	-7.51	4.27	26.76	36.02	-9.26
2437	6	AVG	20.46	20.41	23.45	30.00	-6.55	4.27	27.72	36.02	-8.30
2442	7	AVG	20.00	20.00	23.01	30.00	-6.99	4.27	27.28	36.02	-8.74
2447	8	AVG	18.97	18.92	21.96	30.00	-8.04	4.27	26.23	36.02	-9.79
2452	9	AVG	17.96	17.84	20.91	30.00	-9.09	4.27	25.18	36.02	-10.84
2457	10	AVG	16.46	16.39	19.44	30.00	-10.56	4.27	23.71	36.02	-12.31
2462	11	AVG	13.39	13.48	16.45	30.00	-13.55	4.27	20.72	36.02	-15.30
2467	12	AVG	11.00	10.82	13.92	30.00	-16.08	4.27	18.19	36.02	-17.83
2472	13	AVG	7.50	7.39	10.46	30.00	-19.54	4.27	14.73	36.02	-21.29

**Table 7-21. Average Conducted Output Power Measurements CDD (802.11n) – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	AVG	12.31	12.28	15.31	30.00	-14.69	4.27	19.58	36.02	-16.44
2417	2	AVG	15.78	15.93	18.87	30.00	-11.13	4.27	23.14	36.02	-12.88
2422	3	AVG	17.33	17.42	20.39	30.00	-9.61	4.27	24.66	36.02	-11.36
2427	4	AVG	18.40	18.35	21.39	30.00	-8.61	4.27	25.66	36.02	-10.36
2432	5	AVG	18.93	18.93	21.94	30.00	-8.06	4.27	26.21	36.02	-9.81
2437	6	AVG	19.50	19.27	22.40	30.00	-7.60	4.27	26.67	36.02	-9.35
2442	7	AVG	18.83	18.85	21.85	30.00	-8.15	4.27	26.12	36.02	-9.90
2447	8	AVG	17.32	17.50	20.42	30.00	-9.58	4.27	24.69	36.02	-11.33
2452	9	AVG	16.80	16.93	19.88	30.00	-10.12	4.27	24.15	36.02	-11.87
2457	10	AVG	14.83	14.92	17.89	30.00	-12.11	4.27	22.16	36.02	-13.86
2462	11	AVG	12.42	12.34	15.39	30.00	-14.61	4.27	19.66	36.02	-16.36
2467	12	AVG	10.40	10.42	13.42	30.00	-16.58	4.27	17.69	36.02	-18.33

**Table 7-22. Average Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of  element	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 58 of 429

## 7.3.2 Peak Output Power Measurement

\$15.247(b.3); RSS-247 [5.4]

### Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	19.07	19.11	18.39	30.00	-10.89	2.20	21.31	36.02	-14.71
2417	2	PEAK	23.72	23.73	22.51	30.00	-6.27	2.20	25.93	36.02	-10.09
2422	3	PEAK	24.04	24.01	23.66	30.00	-5.96	2.20	26.24	36.02	-9.78
2427	4	PEAK	26.42	26.45	26.10	30.00	-3.55	2.20	28.65	36.02	-7.37
2432	5	PEAK	26.69	26.81	26.42	30.00	-3.19	2.20	29.01	36.02	-7.01
2437	6	PEAK	26.68	26.49	26.44	30.00	-3.32	2.20	28.88	36.02	-7.14
2442	7	PEAK	26.64	26.51	26.39	30.00	-3.36	2.20	28.84	36.02	-7.18
2447	8	PEAK	26.23	26.39	26.07	30.00	-3.61	2.20	28.59	36.02	-7.43
2452	9	PEAK	24.15	24.17	23.20	30.00	-5.83	2.20	26.37	36.02	-9.65
2457	10	PEAK	23.68	23.67	21.91	30.00	-6.32	2.20	25.88	36.02	-10.14
2462	11	PEAK	19.51	19.53	18.35	30.00	-10.47	2.20	21.73	36.02	-14.29
2467	12	PEAK	17.83	17.96	16.63	30.00	-12.04	2.20	20.16	36.02	-15.86
2472	13	PEAK	15.75	15.69	-	30.00	-14.25	2.20	17.95	36.02	-18.07

**Table 7-23. Peak Conducted Output Power Measurements Antenna WF8 – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	19.16	19.27	18.45	30.00	-10.73	0.20	19.47	36.02	-16.55
2417	2	PEAK	23.68	23.79	22.74	30.00	-6.21	0.20	23.99	36.02	-12.03
2422	3	PEAK	23.98	24.22	23.59	30.00	-5.78	0.20	24.42	36.02	-11.60
2427	4	PEAK	26.52	26.65	26.15	30.00	-3.35	0.20	26.85	36.02	-9.17
2432	5	PEAK	26.76	27.13	26.51	30.00	-2.87	0.20	27.33	36.02	-8.69
2437	6	PEAK	26.83	26.65	26.51	30.00	-3.17	0.20	27.03	36.02	-8.99
2442	7	PEAK	26.79	26.64	26.46	30.00	-3.21	0.20	26.99	36.02	-9.03
2447	8	PEAK	26.33	26.60	26.17	30.00	-3.40	0.20	26.80	36.02	-9.22
2452	9	PEAK	24.23	24.11	23.18	30.00	-5.77	0.20	24.43	36.02	-11.59
2457	10	PEAK	23.66	23.71	21.94	30.00	-6.29	0.20	23.91	36.02	-12.11
2462	11	PEAK	19.43	19.48	18.45	30.00	-10.52	0.20	19.68	36.02	-16.34
2467	12	PEAK	18.06	18.00	16.59	30.00	-11.94	0.20	18.26	36.02	-17.76
2472	13	PEAK	15.75	15.80	-	30.00	-14.20	0.20	16.00	36.02	-20.02

**Table 7-24. Peak Conducted Output Power Measurements Antenna WF7 – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	18.35	18.19	21.28	30.00	-8.72	4.27	25.55	36.02	-10.47
2417	2	PEAK	21.70	21.77	24.75	30.00	-5.25	4.27	29.02	36.02	-7.00
2422	3	PEAK	23.34	23.16	26.26	30.00	-3.74	4.27	30.53	36.02	-5.49
2427	4	PEAK	25.95	25.99	28.98	30.00	-1.02	4.27	33.25	36.02	-2.77
2432	5	PEAK	26.34	26.40	29.38	30.00	-0.62	4.27	33.65	36.02	-2.37
2437	6	PEAK	26.43	26.38	29.42	30.00	-0.58	4.27	33.69	36.02	-2.33
2442	7	PEAK	26.40	26.35	29.39	30.00	-0.61	4.27	33.66	36.02	-2.36
2447	8	PEAK	26.05	26.01	29.04	30.00	-0.96	4.27	33.31	36.02	-2.71
2452	9	PEAK	23.57	23.63	26.61	30.00	-3.39	4.27	30.88	36.02	-5.14
2457	10	PEAK	22.29	22.00	25.16	30.00	-4.84	4.27	29.43	36.02	-6.59
2462	11	PEAK	18.50	18.57	21.55	30.00	-8.45	4.27	25.82	36.02	-10.20
2467	12	PEAK	16.03	16.04	19.05	30.00	-10.95	4.27	23.32	36.02	-12.70
2472	13	PEAK	13.86	13.73	16.81	30.00	-13.19	4.27	21.08	36.02	-14.94

**Table 7-25. Peak Conducted Output Power Measurements CDD (802.11g) – Low Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 59 of 429

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	18.06	18.09	21.09	30.00	-8.91	4.27	25.36	36.02	-10.66
2417	2	PEAK	21.60	21.55	24.59	30.00	-5.41	4.27	28.86	36.02	-7.16
2422	3	PEAK	23.16	23.11	26.15	30.00	-3.85	4.27	30.42	36.02	-5.60
2427	4	PEAK	26.13	26.13	29.14	30.00	-0.86	4.27	33.41	36.02	-2.61
2432	5	PEAK	26.28	26.30	29.30	30.00	-0.70	4.27	33.57	36.02	-2.45
2437	6	PEAK	26.27	26.32	29.31	30.00	-0.69	4.27	33.58	36.02	-2.44
2442	7	PEAK	26.26	26.31	29.30	30.00	-0.70	4.27	33.57	36.02	-2.45
2447	8	PEAK	26.10	26.08	29.10	30.00	-0.90	4.27	33.37	36.02	-2.65
2452	9	PEAK	23.66	23.74	26.71	30.00	-3.29	4.27	30.98	36.02	-5.04
2457	10	PEAK	22.14	22.25	25.21	30.00	-4.79	4.27	29.48	36.02	-6.54
2462	11	PEAK	18.51	18.60	21.57	30.00	-8.43	4.27	25.84	36.02	-10.18
2467	12	PEAK	16.23	16.11	19.18	30.00	-10.82	4.27	23.45	36.02	-12.57
2472	13	PEAK	13.97	13.84	16.92	30.00	-13.08	4.27	21.19	36.02	-14.83

**Table 7-26. Peak Conducted Output Power Measurements CDD (802.11n) – Low Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	17.29	17.34	20.33	30.00	-9.67	4.27	24.60	36.02	-11.42
2417	2	PEAK	21.56	21.52	24.55	30.00	-5.45	4.27	28.82	36.02	-7.20
2422	3	PEAK	22.73	22.59	25.67	30.00	-4.33	4.27	29.94	36.02	-6.08
2427	4	PEAK	25.90	25.68	28.80	30.00	-1.20	4.27	33.07	36.02	-2.95
2432	5	PEAK	26.12	26.14	29.14	30.00	-0.86	4.27	33.41	36.02	-2.61
2437	6	PEAK	26.39	26.41	29.41	30.00	-0.59	4.27	33.68	36.02	-2.34
2442	7	PEAK	26.19	26.07	29.14	30.00	-0.86	4.27	33.41	36.02	-2.61
2447	8	PEAK	25.61	25.62	28.63	30.00	-1.37	4.27	32.90	36.02	-3.12
2452	9	PEAK	22.48	22.30	25.40	30.00	-4.60	4.27	29.67	36.02	-6.35
2457	10	PEAK	21.14	21.10	24.13	30.00	-5.87	4.27	28.40	36.02	-7.62
2462	11	PEAK	17.24	17.16	20.21	30.00	-9.79	4.27	24.48	36.02	-11.54
2467	12	PEAK	15.97	16.09	19.04	30.00	-10.96	4.27	23.31	36.02	-12.71

**Table 7-27. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567	 Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 60 of 429

## Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	20.68	20.52	19.59	30.00	-9.32	2.20	22.88	36.02	-13.14
2417	2	PEAK	25.32	25.24	24.29	30.00	-4.68	2.20	27.52	36.02	-8.50
2422	3	PEAK	25.90	25.90	25.34	30.00	-4.10	2.20	28.10	36.02	-7.92
2427	4	PEAK	26.71	27.02	26.57	30.00	-2.98	2.20	29.22	36.02	-6.80
2432	5	PEAK	27.06	27.03	26.78	30.00	-2.94	2.20	29.26	36.02	-6.76
2437	6	PEAK	27.28	27.07	27.02	30.00	-2.72	2.20	29.48	36.02	-6.54
2442	7	PEAK	27.04	27.06	26.82	30.00	-2.94	2.20	29.26	36.02	-6.76
2447	8	PEAK	26.64	26.85	26.38	30.00	-3.15	2.20	29.05	36.02	-6.97
2452	9	PEAK	26.03	25.96	25.12	30.00	-3.97	2.20	28.23	36.02	-7.79
2457	10	PEAK	24.84	24.85	23.82	30.00	-5.15	2.20	27.05	36.02	-8.97
2462	11	PEAK	21.95	21.93	20.78	30.00	-8.05	2.20	24.15	36.02	-11.87
2467	12	PEAK	19.94	20.04	18.73	30.00	-9.96	2.20	22.24	36.02	-13.78
2472	13	PEAK	17.38	17.07	-	30.00	-12.62	2.20	19.58	36.02	-16.44

**Table 7-28. Peak Conducted Output Power Measurements Antenna WF8 – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	20.63	20.39	19.28	30.00	-9.37	0.20	20.83	36.02	-15.19
2417	2	PEAK	25.10	24.99	23.85	30.00	-4.90	0.20	25.30	36.02	-10.72
2422	3	PEAK	25.89	25.94	25.33	30.00	-4.06	0.20	26.14	36.02	-9.88
2427	4	PEAK	26.66	27.03	26.36	30.00	-2.97	0.20	27.23	36.02	-8.79
2432	5	PEAK	26.93	27.14	26.61	30.00	-2.86	0.20	27.34	36.02	-8.68
2437	6	PEAK	27.11	27.19	26.91	30.00	-2.81	0.20	27.39	36.02	-8.63
2442	7	PEAK	27.01	27.18	26.65	30.00	-2.82	0.20	27.38	36.02	-8.64
2447	8	PEAK	26.52	26.05	26.10	30.00	-3.48	0.20	26.72	36.02	-9.30
2452	9	PEAK	25.96	25.81	24.82	30.00	-4.04	0.20	26.16	36.02	-9.86
2457	10	PEAK	24.79	24.86	23.62	30.00	-5.14	0.20	25.06	36.02	-10.96
2462	11	PEAK	21.76	21.79	20.36	30.00	-8.21	0.20	21.99	36.02	-14.03
2467	12	PEAK	19.78	19.71	18.51	30.00	-10.22	0.20	19.98	36.02	-16.04
2472	13	PEAK	17.28	16.85	-	30.00	-12.72	0.20	17.48	36.02	-18.54

**Table 7-29. Peak Conducted Output Power Measurements Antenna WF7 – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	18.53	18.59	21.57	30.00	-8.43	4.27	25.84	36.02	-10.18
2417	2	PEAK	23.41	23.29	26.36	30.00	-3.64	4.27	30.63	36.02	-5.39
2422	3	PEAK	24.29	24.26	27.29	30.00	-2.71	4.27	31.56	36.02	-4.46
2427	4	PEAK	25.40	25.37	28.40	30.00	-1.60	4.27	32.67	36.02	-3.35
2432	5	PEAK	25.77	25.65	28.72	30.00	-1.28	4.27	32.99	36.02	-3.03
2437	6	PEAK	26.04	25.93	29.00	30.00	-1.00	4.27	33.27	36.02	-2.75
2442	7	PEAK	25.93	25.81	28.88	30.00	-1.12	4.27	33.15	36.02	-2.87
2447	8	PEAK	25.51	25.37	28.45	30.00	-1.55	4.27	32.72	36.02	-3.30
2452	9	PEAK	24.43	24.40	27.43	30.00	-2.57	4.27	31.70	36.02	-4.32
2457	10	PEAK	23.55	23.62	26.60	30.00	-3.40	4.27	30.87	36.02	-5.15
2462	11	PEAK	20.07	19.70	22.90	30.00	-7.10	4.27	27.17	36.02	-8.85
2467	12	PEAK	17.27	17.28	20.29	30.00	-9.71	4.27	24.56	36.02	-11.46
2472	13	PEAK	14.80	14.86	17.84	30.00	-12.16	4.27	22.11	36.02	-13.91

**Table 7-30. Peak Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 61 of 429

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	19.26	19.18	22.23	30.00	-7.77	4.27	26.50	36.02	-9.52
2417	2	PEAK	23.72	23.76	26.75	30.00	-3.25	4.27	31.02	36.02	-5.00
2422	3	PEAK	25.14	25.17	28.17	30.00	-1.83	4.27	32.44	36.02	-3.58
2427	4	PEAK	26.70	26.60	29.66	30.00	-0.34	4.27	33.93	36.02	-2.09
2432	5	PEAK	25.94	25.82	28.89	30.00	-1.11	4.27	33.16	36.02	-2.86
2437	6	PEAK	26.22	26.12	29.18	30.00	-0.82	4.27	33.45	36.02	-2.57
2442	7	PEAK	26.03	26.03	29.04	30.00	-0.96	4.27	33.31	36.02	-2.71
2447	8	PEAK	25.69	25.64	28.68	30.00	-1.32	4.27	32.95	36.02	-3.07
2452	9	PEAK	25.08	25.08	28.09	30.00	-1.91	4.27	32.36	36.02	-3.66
2457	10	PEAK	24.23	24.16	27.21	30.00	-2.79	4.27	31.48	36.02	-4.54
2462	11	PEAK	20.69	20.59	23.65	30.00	-6.35	4.27	27.92	36.02	-8.10
2467	12	PEAK	18.11	18.15	21.14	30.00	-8.86	4.27	25.41	36.02	-10.61
2472	13	PEAK	15.00	15.19	18.11	30.00	-11.89	4.27	22.38	36.02	-13.64

**Table 7-31. Peak Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	18.33	18.38	21.37	30.00	-8.63	4.27	25.64	36.02	-10.38
2417	2	PEAK	23.44	23.43	26.45	30.00	-3.55	4.27	30.72	36.02	-5.30
2422	3	PEAK	24.57	24.47	27.53	30.00	-2.47	4.27	31.80	36.02	-4.22
2427	4	PEAK	26.30	26.24	29.28	30.00	-0.72	4.27	33.55	36.02	-2.47
2432	5	PEAK	26.64	26.55	29.61	30.00	-0.39	4.27	33.88	36.02	-2.14
2437	6	PEAK	26.73	26.73	29.74	30.00	-0.26	4.27	34.01	36.02	-2.01
2442	7	PEAK	26.66	26.57	29.63	30.00	-0.37	4.27	33.90	36.02	-2.12
2447	8	PEAK	25.96	25.83	28.91	30.00	-1.09	4.27	33.18	36.02	-2.84
2452	9	PEAK	24.07	23.97	27.03	30.00	-2.97	4.27	31.30	36.02	-4.72
2457	10	PEAK	22.60	22.55	25.59	30.00	-4.41	4.27	29.86	36.02	-6.16
2462	11	PEAK	19.21	19.11	22.17	30.00	-7.83	4.27	26.44	36.02	-9.58
2467	12	PEAK	17.18	17.37	20.29	30.00	-9.71	4.27	24.56	36.02	-11.46

**Table 7-32. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of  element	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 62 of 429

## High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	21.49	24.79	24.52	23.84	30.00	-5.21	2.20	26.99	36.02	-9.03
2417	2	PEAK	23.11	26.54	26.60	26.19	30.00	-3.40	2.20	28.80	36.02	-7.22
2422	3	PEAK	24.42	27.15	26.98	26.55	30.00	-2.85	2.20	29.35	36.02	-6.67
2427	4	PEAK	25.77	27.29	27.33	27.07	30.00	-2.67	2.20	29.53	36.02	-6.49
2432	5	PEAK	25.76	27.42	27.46	27.19	30.00	-2.54	2.20	29.66	36.02	-6.36
2437	6	PEAK	25.75	27.63	27.50	27.32	30.00	-2.37	2.20	29.83	36.02	-6.19
2442	7	PEAK	25.82	25.80	27.46	27.12	30.00	-2.54	2.20	29.66	36.02	-6.36
2447	8	PEAK	25.50	27.29	27.14	26.55	30.00	-2.71	2.20	29.49	36.02	-6.53
2452	9	PEAK	25.81	27.04	26.96	26.30	30.00	-2.96	2.20	29.24	36.02	-6.78
2457	10	PEAK	24.54	26.53	26.21	25.44	30.00	-3.47	2.20	28.73	36.02	-7.29
2462	11	PEAK	23.89	25.12	24.90	23.37	30.00	-4.88	2.20	27.32	36.02	-8.70
2467	12	PEAK	22.37	22.79	22.00	21.21	30.00	-7.21	2.20	24.99	36.02	-11.03
2472	13	PEAK	20.48	17.70	18.64	-	30.00	-9.52	2.20	22.68	36.02	-13.34

**Table 7-33. Peak Conducted Output Power Measurements Antenna WF8 – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	21.28	24.62	24.62	23.57	30.00	-5.38	0.20	24.82	36.02	-11.20
2417	2	PEAK	23.02	26.35	26.54	26.05	30.00	-3.46	0.20	26.74	36.02	-9.28
2422	3	PEAK	24.26	26.93	27.00	26.50	30.00	-3.00	0.20	27.20	36.02	-8.82
2427	4	PEAK	25.68	27.33	27.33	27.10	30.00	-2.67	0.20	27.53	36.02	-8.49
2432	5	PEAK	25.76	27.55	27.41	27.20	30.00	-2.45	0.20	27.75	36.02	-8.27
2437	6	PEAK	25.72	27.55	27.51	27.34	30.00	-2.45	0.20	27.75	36.02	-8.27
2442	7	PEAK	25.70	27.53	27.35	27.12	30.00	-2.47	0.20	27.73	36.02	-8.29
2447	8	PEAK	25.76	27.22	27.03	26.62	30.00	-2.78	0.20	27.42	36.02	-8.60
2452	9	PEAK	25.70	27.01	26.98	26.32	30.00	-2.99	0.20	27.21	36.02	-8.81
2457	10	PEAK	24.36	25.90	25.89	25.44	30.00	-4.10	0.20	26.10	36.02	-9.92
2462	11	PEAK	23.88	24.45	24.74	23.08	30.00	-5.26	0.20	24.94	36.02	-11.08
2467	12	PEAK	22.35	22.74	22.15	21.07	30.00	-7.26	0.20	22.94	36.02	-13.08
2472	13	PEAK	20.32	17.65	18.39	-	30.00	-9.68	0.20	20.52	36.02	-15.50

**Table 7-34. Peak Conducted Output Power Measurements Antenna WF7 – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	20.60	20.57	23.60	30.00	-6.40	4.27	27.87	36.02	-8.15
2417	2	PEAK	23.84	23.93	26.90	30.00	-3.10	4.27	31.17	36.02	-4.85
2422	3	PEAK	24.73	24.91	27.83	30.00	-2.17	4.27	32.10	36.02	-3.92
2427	4	PEAK	26.30	26.32	29.32	30.00	-0.68	4.27	33.59	36.02	-2.43
2432	5	PEAK	26.52	26.52	29.53	30.00	-0.47	4.27	33.80	36.02	-2.22
2437	6	PEAK	26.80	26.94	29.88	30.00	-0.12	4.27	34.15	36.02	-1.87
2442	7	PEAK	26.64	26.76	29.71	30.00	-0.29	4.27	33.98	36.02	-2.04
2447	8	PEAK	26.35	26.35	29.36	30.00	-0.64	4.27	33.63	36.02	-2.39
2452	9	PEAK	24.85	24.80	27.84	30.00	-2.16	4.27	32.11	36.02	-3.91
2457	10	PEAK	23.47	23.50	26.50	30.00	-3.50	4.27	30.77	36.02	-5.25
2462	11	PEAK	20.30	20.41	23.37	30.00	-6.63	4.27	27.64	36.02	-8.38
2467	12	PEAK	17.82	18.11	20.98	30.00	-9.02	4.27	25.25	36.02	-10.77
2472	13	PEAK	15.35	14.98	18.18	30.00	-11.82	4.27	22.45	36.02	-13.57

**Table 7-35. Peak Conducted Output Power Measurements CDD (802.11g) – High Data Rate**

FCC ID: BCGA2567 IC: 579C-A2567		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 63 of 429

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	22.83	23.03	25.94	30.00	-4.06	4.27	30.21	36.02	-5.81
2417	2	PEAK	25.50	25.55	28.54	30.00	-1.46	4.27	32.81	36.02	-3.21
2422	3	PEAK	26.03	26.07	29.06	30.00	-0.94	4.27	33.33	36.02	-2.69
2427	4	PEAK	26.52	26.53	29.54	30.00	-0.46	4.27	33.81	36.02	-2.21
2432	5	PEAK	26.68	26.78	29.74	30.00	-0.26	4.27	34.01	36.02	-2.01
2437	6	PEAK	26.46	27.03	29.76	30.00	-0.24	4.27	34.03	36.02	-1.99
2442	7	PEAK	26.84	26.98	29.92	30.00	-0.08	4.27	34.19	36.02	-1.83
2447	8	PEAK	26.48	26.50	29.50	30.00	-0.50	4.27	33.77	36.02	-2.25
2452	9	PEAK	26.11	26.07	29.10	30.00	-0.90	4.27	33.37	36.02	-2.65
2457	10	PEAK	25.30	25.12	28.22	30.00	-1.78	4.27	32.49	36.02	-3.53
2462	11	PEAK	22.47	22.63	25.56	30.00	-4.44	4.27	29.83	36.02	-6.19
2467	12	PEAK	19.84	19.75	22.81	30.00	-7.19	4.27	27.08	36.02	-8.94
2472	13	PEAK	16.32	16.34	19.34	30.00	-10.66	4.27	23.61	36.02	-12.41

**Table 7-36. Peak Conducted Output Power Measurements CDD (802.11n) – High Data Rate**

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7	Summed						
2412	1	PEAK	21.72	21.43	24.59	30.00	-5.41	4.27	28.86	36.02	-7.16
2417	2	PEAK	24.93	24.98	27.97	30.00	-2.03	4.27	32.24	36.02	-3.78
2422	3	PEAK	25.85	25.93	28.90	30.00	-1.10	4.27	33.17	36.02	-2.85
2427	4	PEAK	26.38	26.40	29.40	30.00	-0.60	4.27	33.67	36.02	-2.35
2432	5	PEAK	26.58	26.70	29.65	30.00	-0.35	4.27	33.92	36.02	-2.10
2437	6	PEAK	26.79	26.76	29.79	30.00	-0.21	4.27	34.06	36.02	-1.96
2442	7	PEAK	26.57	26.61	29.60	30.00	-0.40	4.27	33.87	36.02	-2.15
2447	8	PEAK	25.85	26.06	28.97	30.00	-1.03	4.27	33.24	36.02	-2.78
2452	9	PEAK	25.59	25.81	28.71	30.00	-1.29	4.27	32.98	36.02	-3.04
2457	10	PEAK	24.18	24.18	27.19	30.00	-2.81	4.27	31.46	36.02	-4.56
2462	11	PEAK	21.78	21.60	24.70	30.00	-5.30	4.27	28.97	36.02	-7.05
2467	12	PEAK	19.68	19.67	22.69	30.00	-7.31	4.27	26.96	36.02	-9.06

**Table 7-37. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate**

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<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 64 of 429



**Note:**

Per ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7 were first measured separately during CDD transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi}$$

**Sample CDD Calculation:**

At 2412MHz the average conducted output power was measured to be 20.65 dBm for Antenna WF8 and 20.75 dBm for Antenna WF7.

$$\text{Antenna WF8} + \text{Antenna WF7} = \text{CDD}$$

$$(20.65 \text{ dBm} + 20.75 \text{ dBm}) = (116.145 \text{ mW} + 118.850 \text{ mW}) = 234.995 \text{ mW} = 23.71 \text{ dBm}$$

**Sample e.i.r.p. Calculation:**

At 2412MHz, the average conducted output power was calculated to be 23.71dBm with directional gain of 4.27 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$23.71 \text{ dBm} + 5.02 \text{ dBi} = 27.98 \text{ dBm}$$

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## 7.4 Power Spectral Density

**§15.247(e); RSS-247 [5.2]**

### Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

***The maximum permissible power spectral density is 8 dBm in any 3 kHz band.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

### Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group is reported.

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<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 66 of 429

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## Antenna WF8 Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	12	-8.98	8.00	-16.98	Pass
2437	6	g	12	-2.00	8.00	-10.00	Pass
2462	11	g	12	-9.28	8.00	-17.28	Pass
2412	1	n	19.5/21.7 (MCS2)	-9.23	8.00	-17.23	Pass
2437	6	n	19.5/21.7 (MCS2)	-2.71	8.00	-10.71	Pass
2462	11	n	19.5/21.7 (MCS2)	-9.33	8.00	-17.33	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	-11.97	8.00	-19.97	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	-4.92	8.00	-12.92	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	-11.48	8.00	-19.48	Pass

Table 7-38. Conducted Power Density Measurements Antenna WF8 (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	24	-10.14	8.00	-18.14	Pass
2437	6	g	24	-2.34	8.00	-10.34	Pass
2462	11	g	24	-9.57	8.00	-17.57	Pass
2412	1	n	39/43.3 (MCS4)	-9.66	8.00	-17.66	Pass
2437	6	n	39/43.3 (MCS4)	-2.93	8.00	-10.93	Pass
2462	11	n	39/43.3 (MCS4)	-8.59	8.00	-16.59	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	-10.74	8.00	-18.74	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	-3.60	8.00	-11.60	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	-11.15	8.00	-19.15	Pass

Table 7-39. Conducted Power Density Measurements Antenna WF8 (Mid Data Rate)

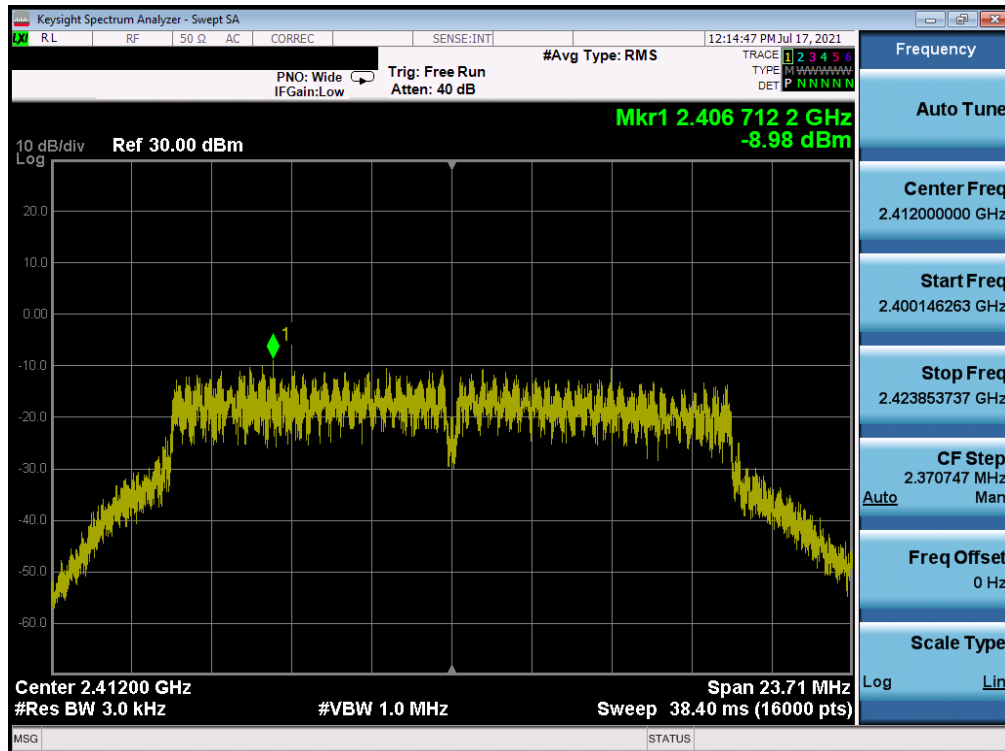
FCC ID: BCGA2567 IC: 579C-A2567	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 67 of 429

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	11	-2.99	8.00	-10.99	Pass
2437	6	b	11	1.36	8.00	-6.64	Pass
2462	11	b	11	-0.19	8.00	-8.19	Pass
2412	1	g	36	-9.10	8.00	-17.10	Pass
2437	6	g	36	-3.35	8.00	-11.35	Pass
2462	11	g	36	-9.98	8.00	-17.98	Pass
2412	1	n	52/57.8 (MCS5)	-8.61	8.00	-16.61	Pass
2437	6	n	52/57.8 (MCS5)	-3.31	8.00	-11.31	Pass
2462	11	n	52/57.8 (MCS5)	-8.82	8.00	-16.82	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	-10.28	8.00	-18.28	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	-3.71	8.00	-11.71	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	-9.67	8.00	-17.67	Pass

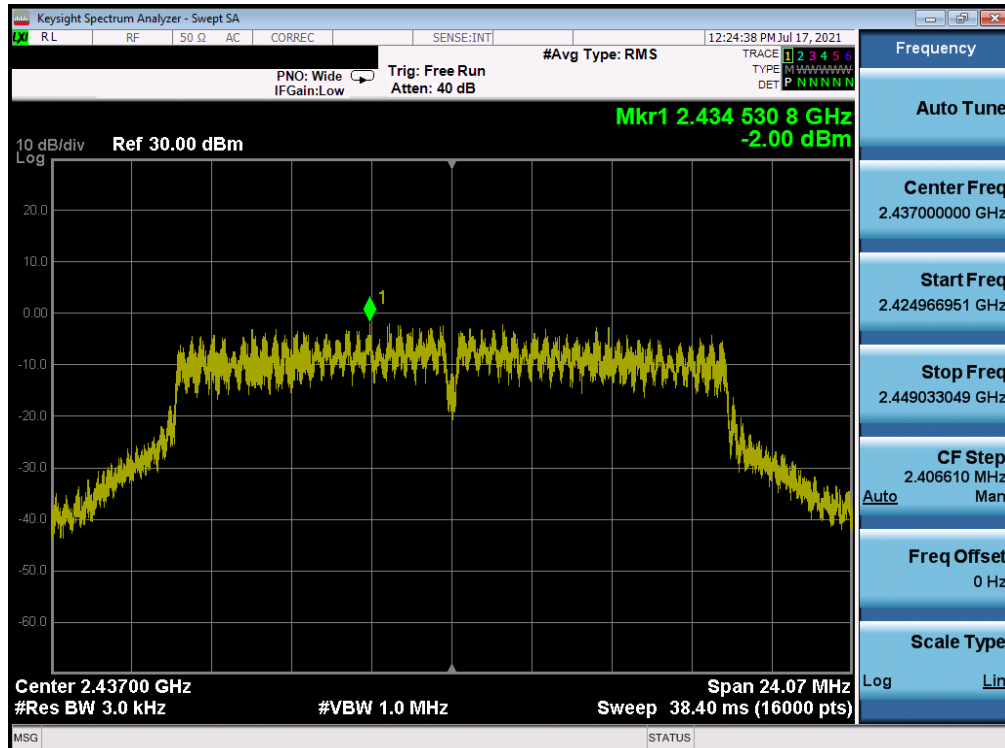
**Table 7-40. Conducted Power Density Measurements Antenna WF8 (High Data Rate)**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of element	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-01-R1.BCG	<b>Test Dates:</b> 6/2/2021 - 8/11/2021	<b>EUT Type:</b> Tablet Device	Page 68 of 429

## Low Data Rate

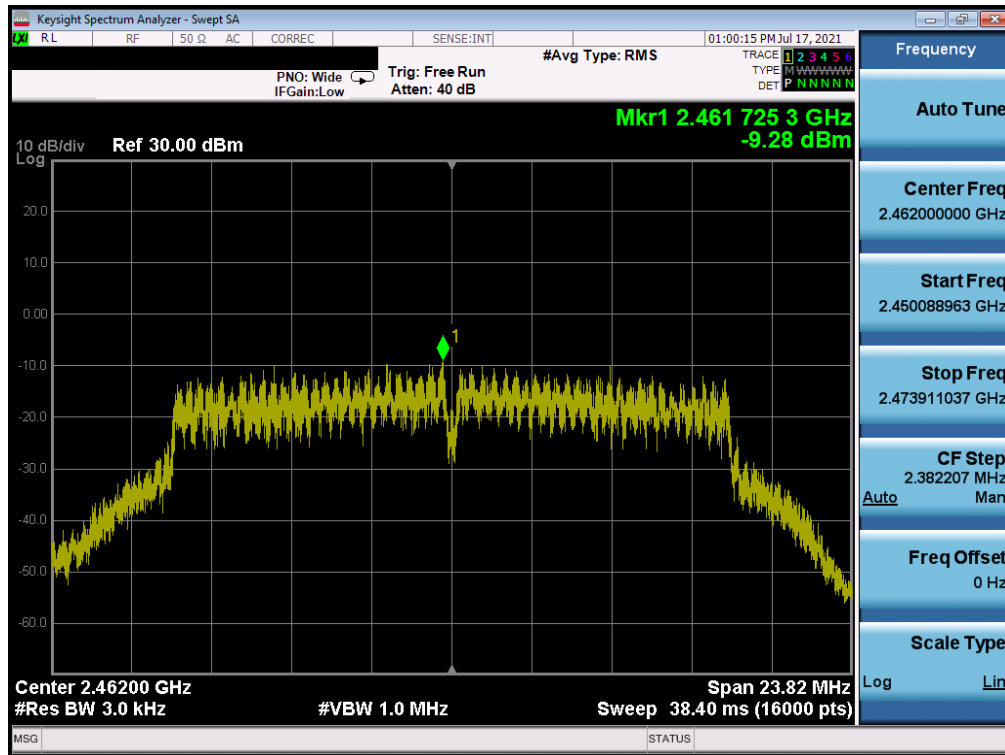


Plot 7-61. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 1) – 12Mbps

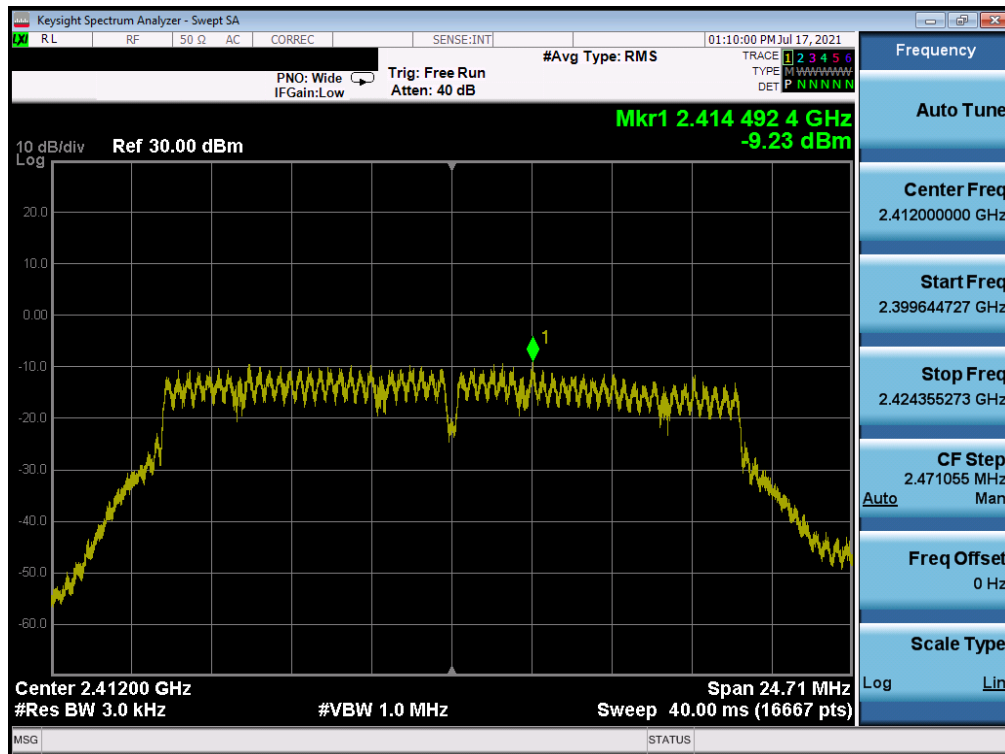


Plot 7-62. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 69 of 429

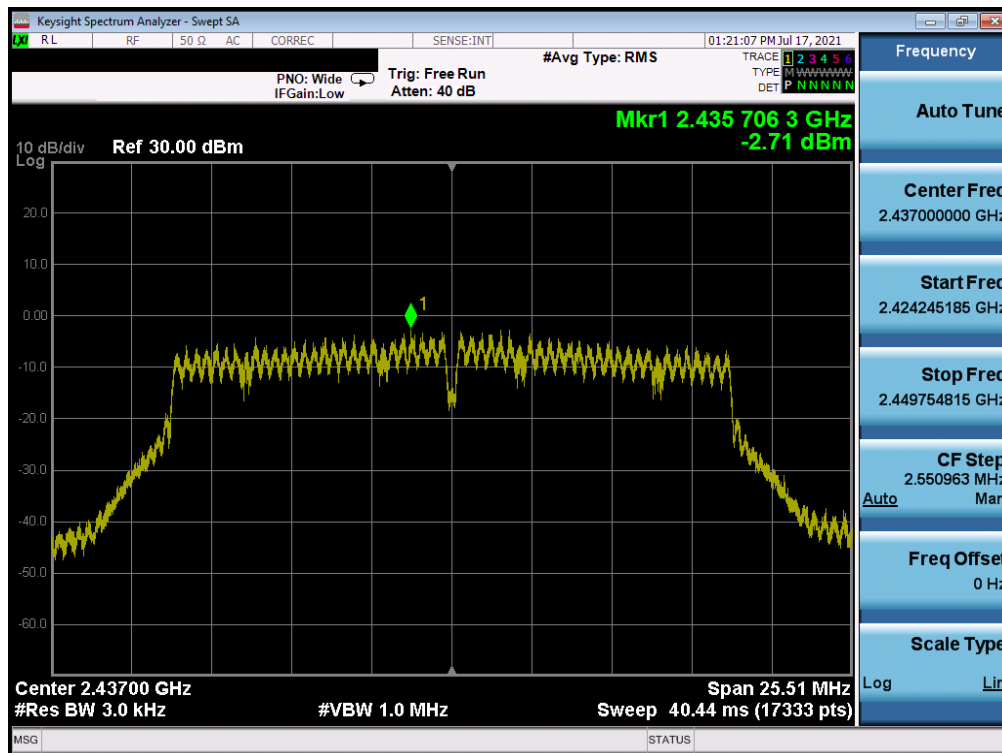


Plot 7-63. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 11) – 12Mbps

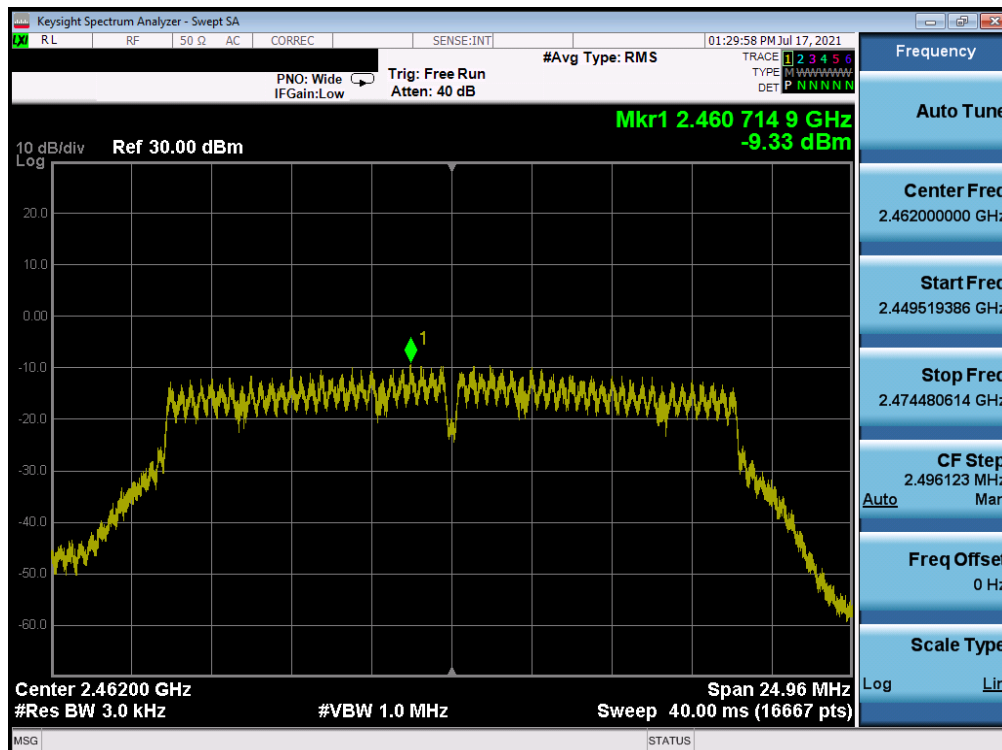


Plot 7-64. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 70 of 429

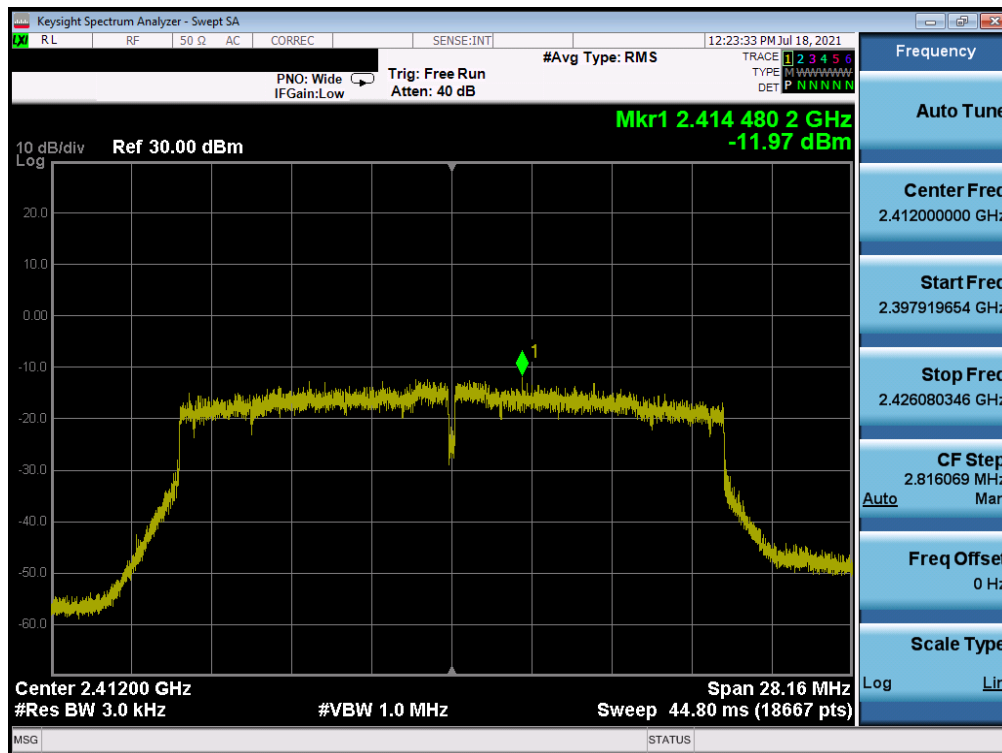


Plot 7-65. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS2

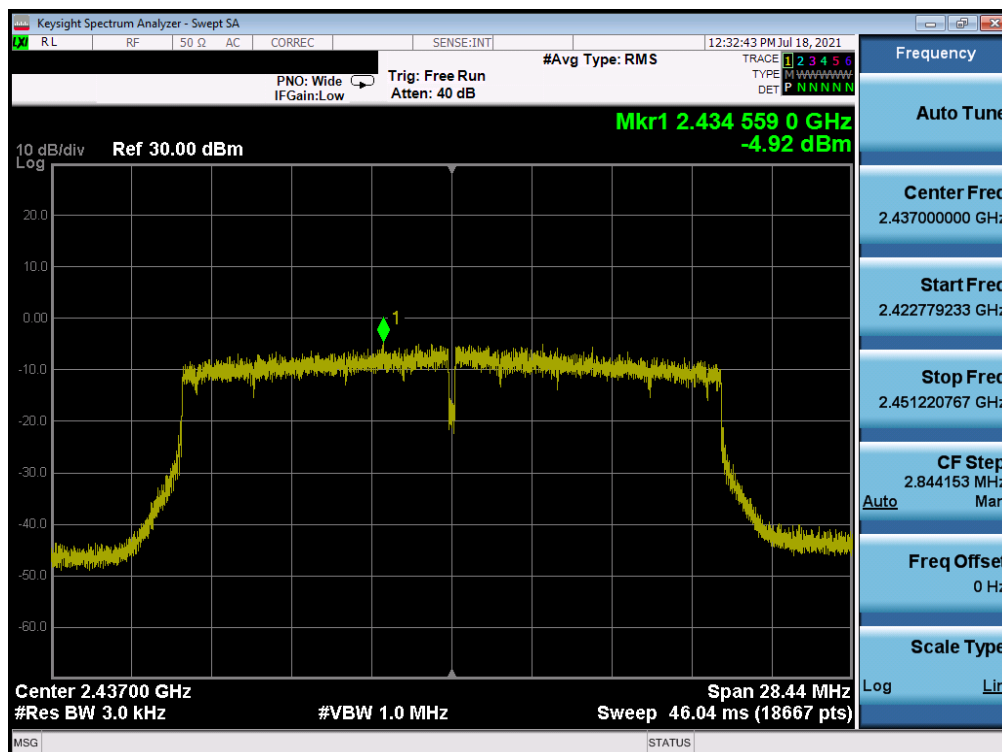


Plot 7-66. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 71 of 429



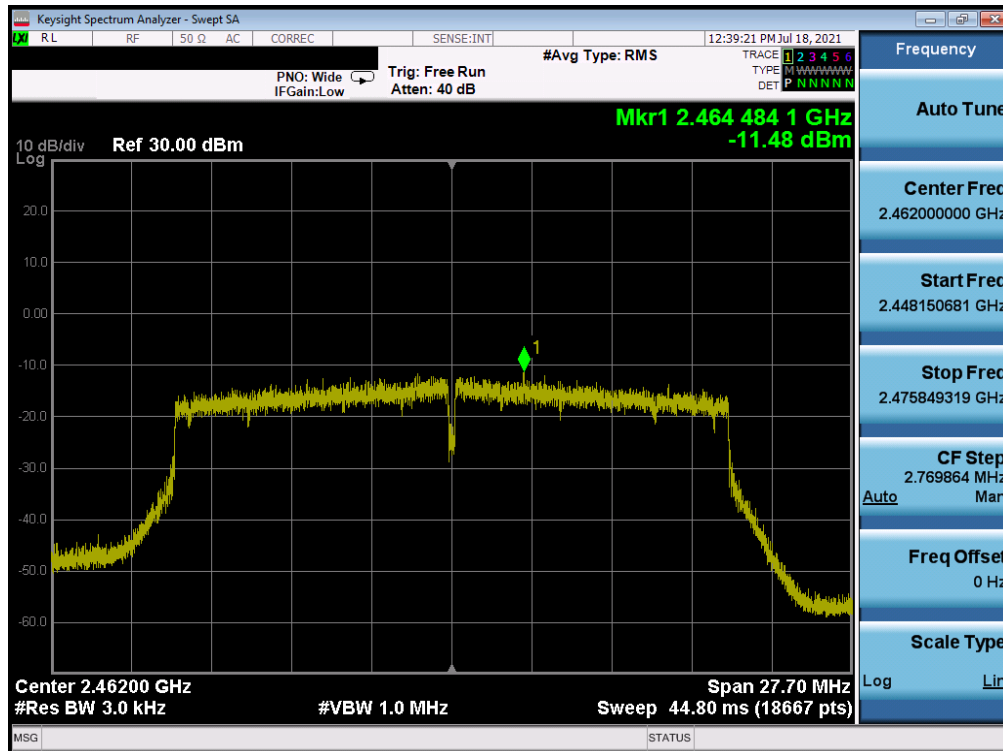
Plot 7-67. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



Plot 7-68. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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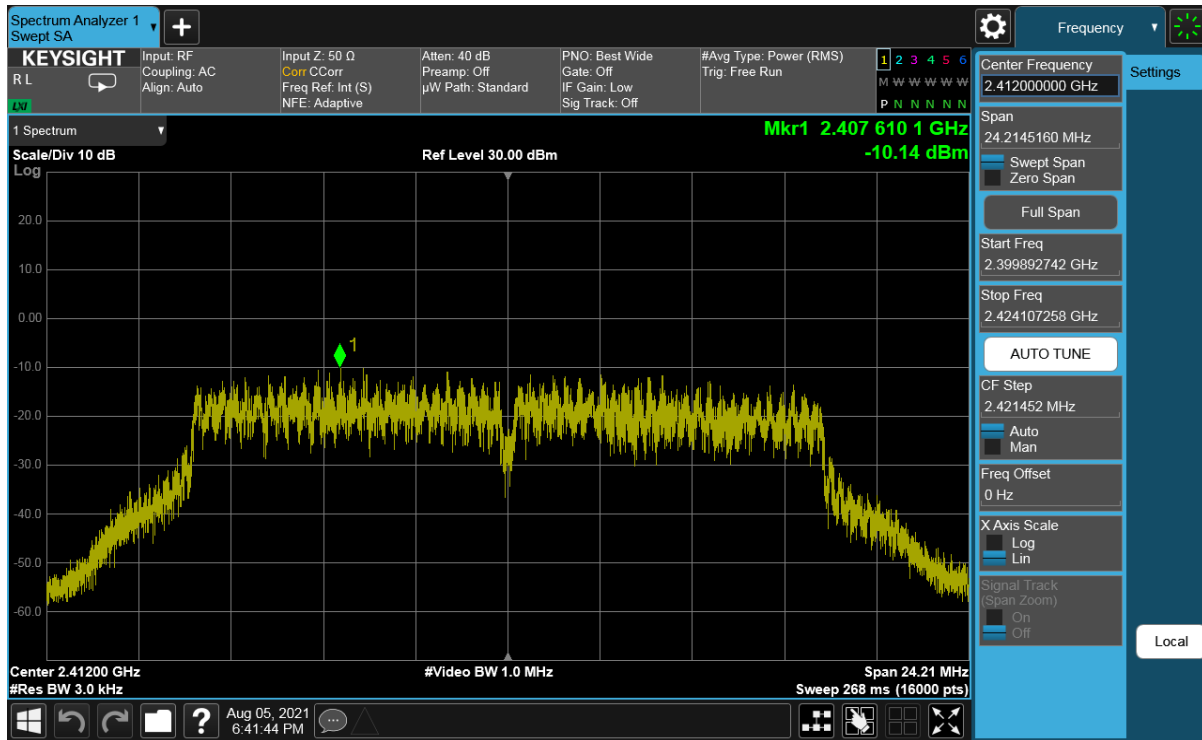




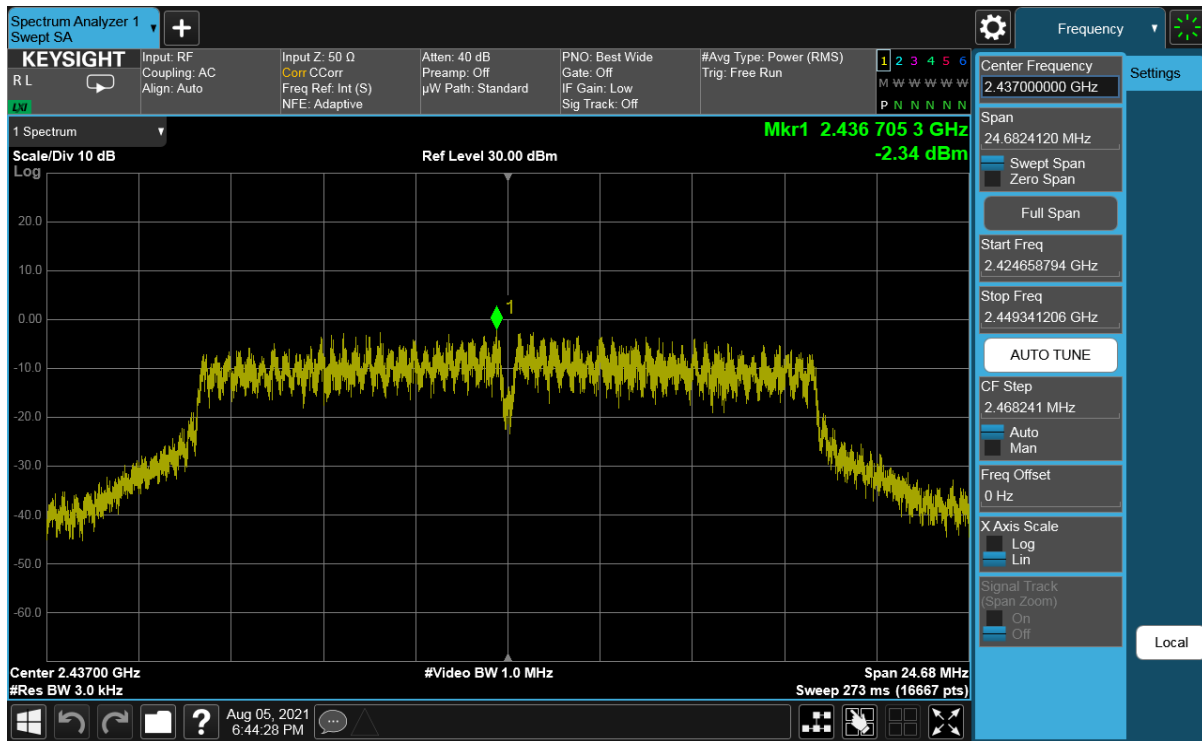
Plot 7-69. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## Mid Data Rate

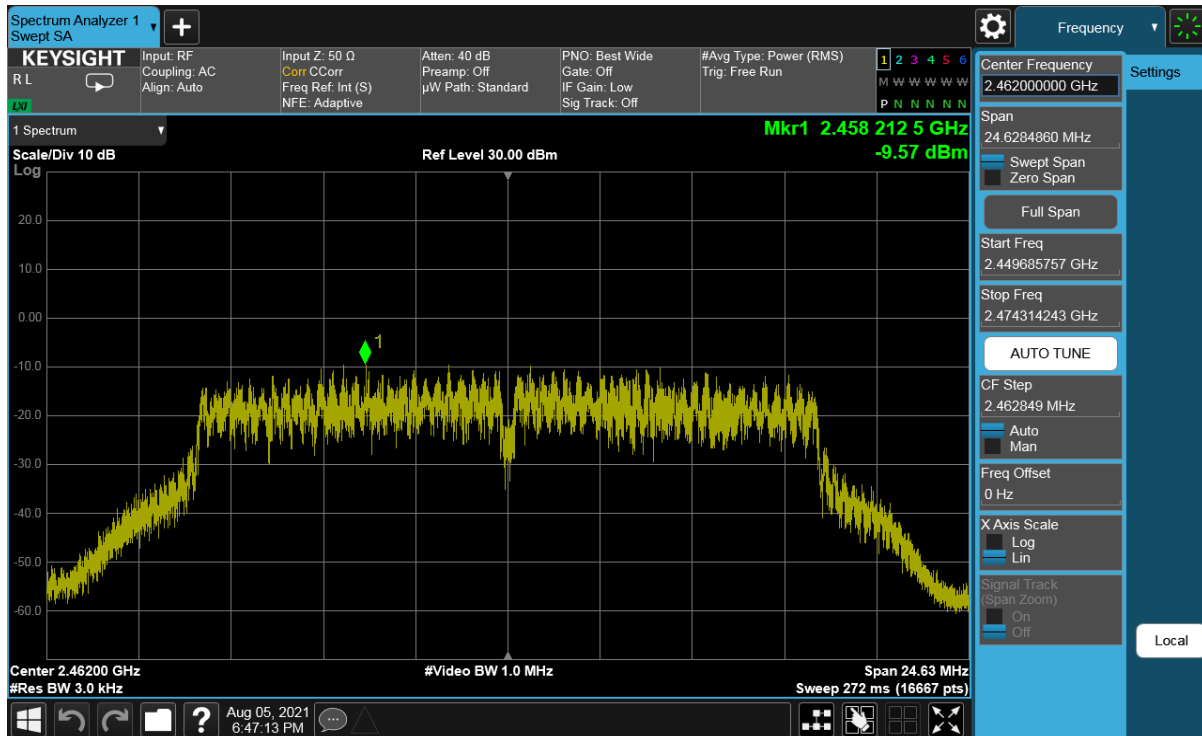


Plot 7-70. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 1) – 24Mbps

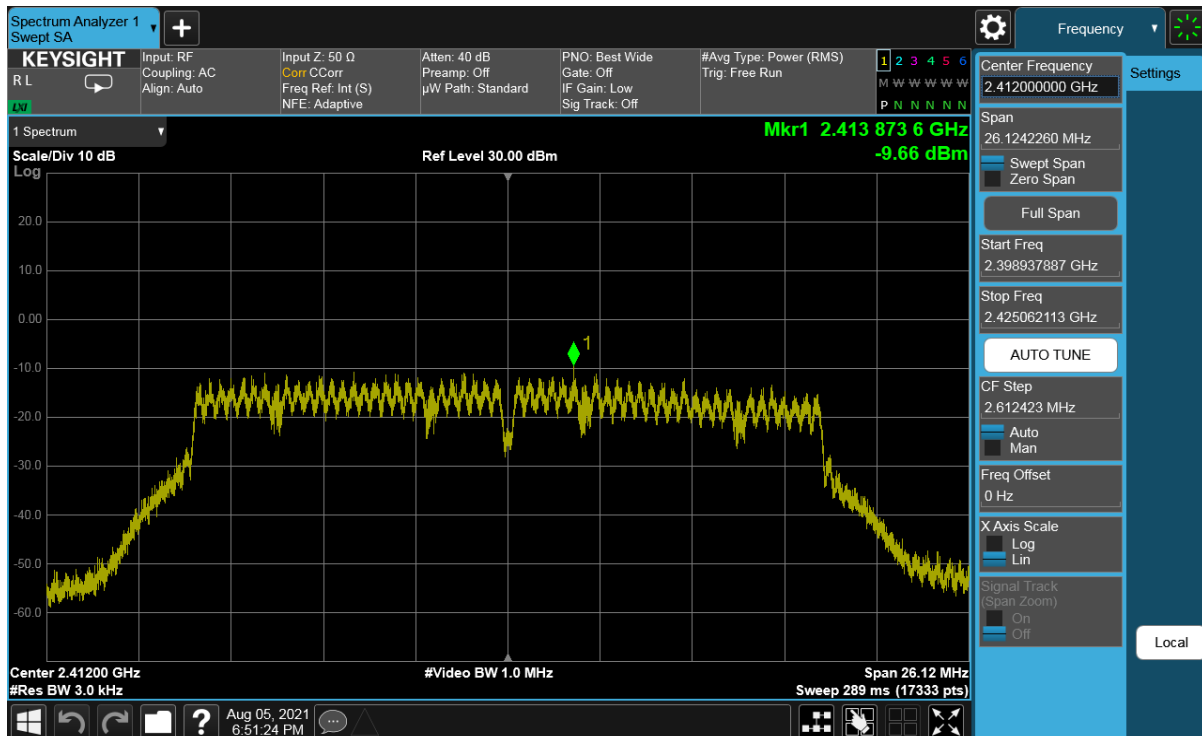


Plot 7-71. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 74 of 429

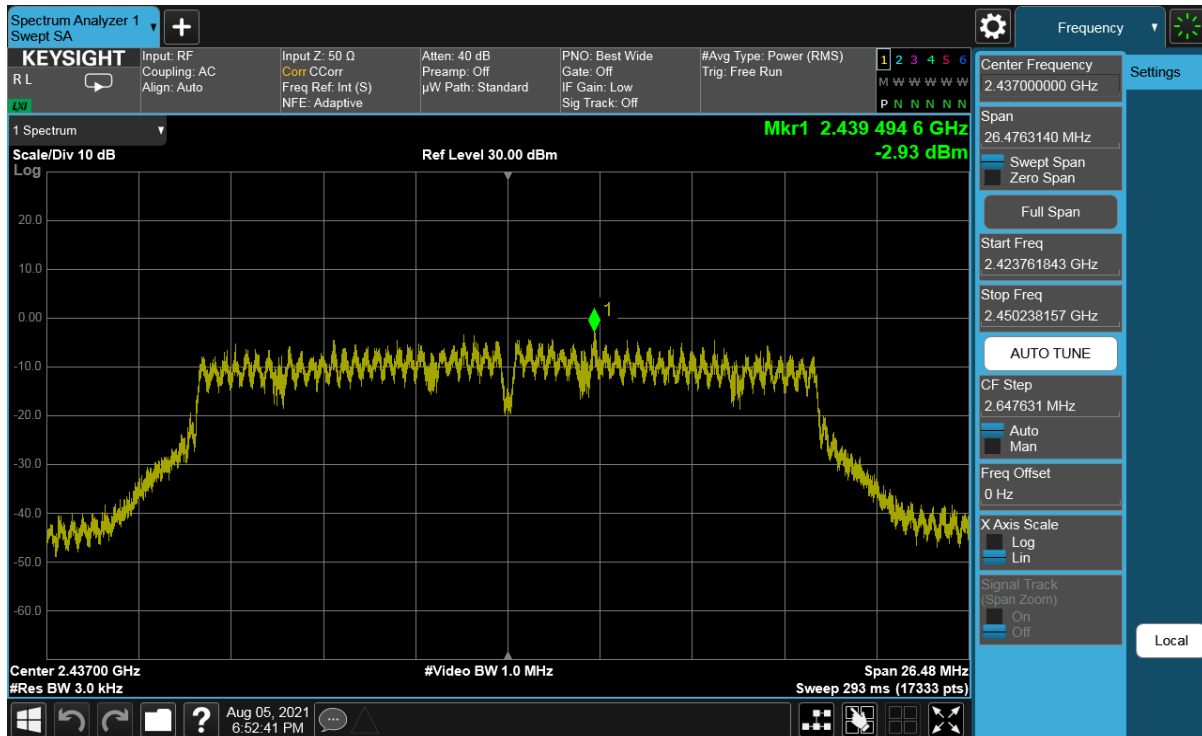


Plot 7-72. Power Spectral Density Plot Antenna WF8 (802.11g - Ch. 11) - 24Mbps

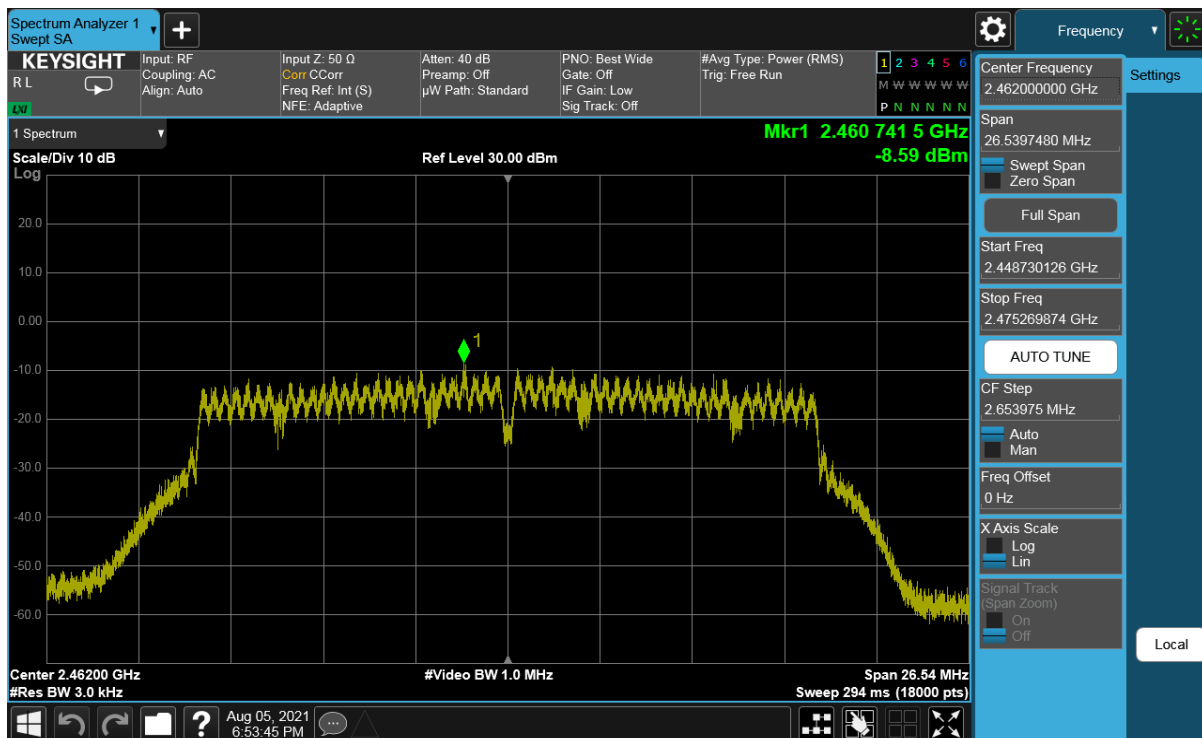


Plot 7-73. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) - Ch. 1) - MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 75 of 429

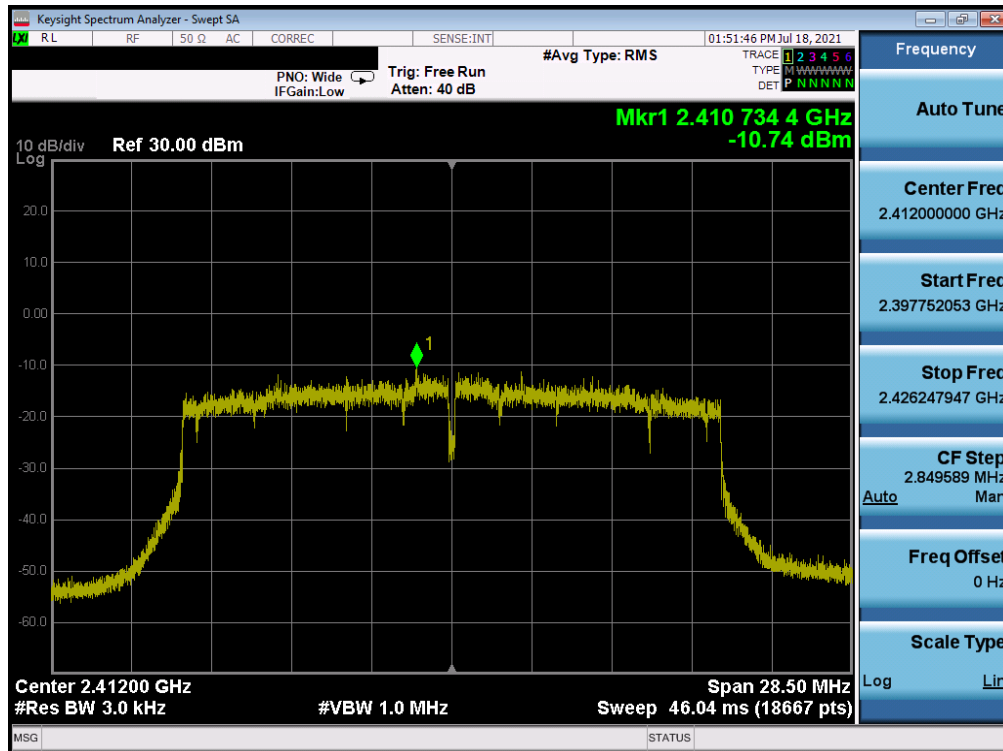


Plot 7-74. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS4

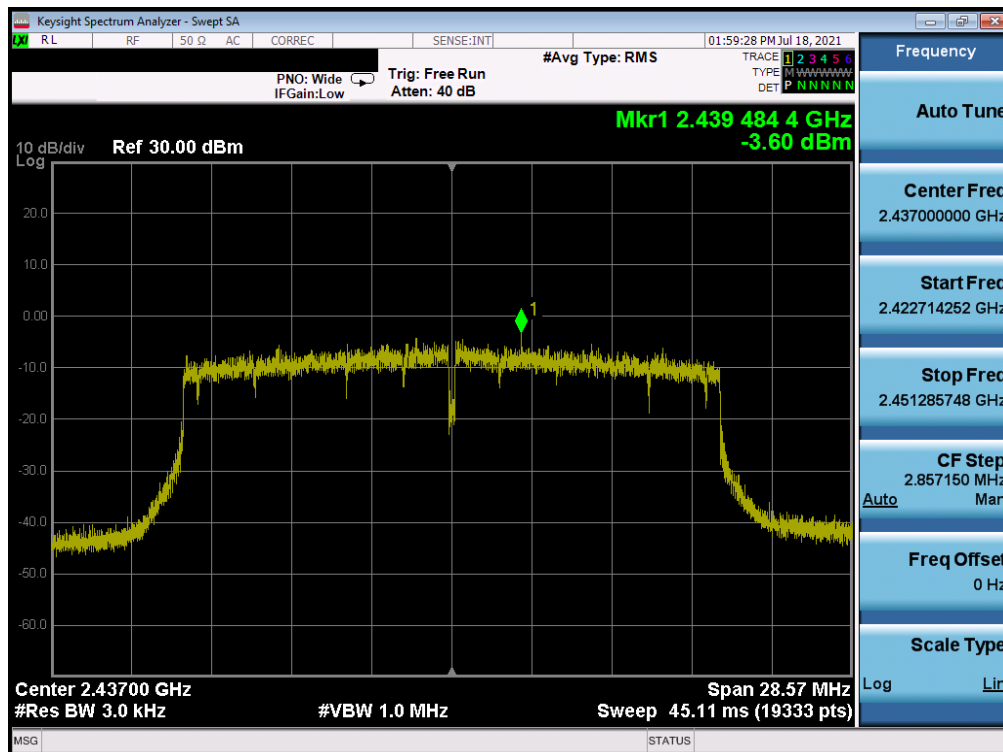


Plot 7-75. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 76 of 429

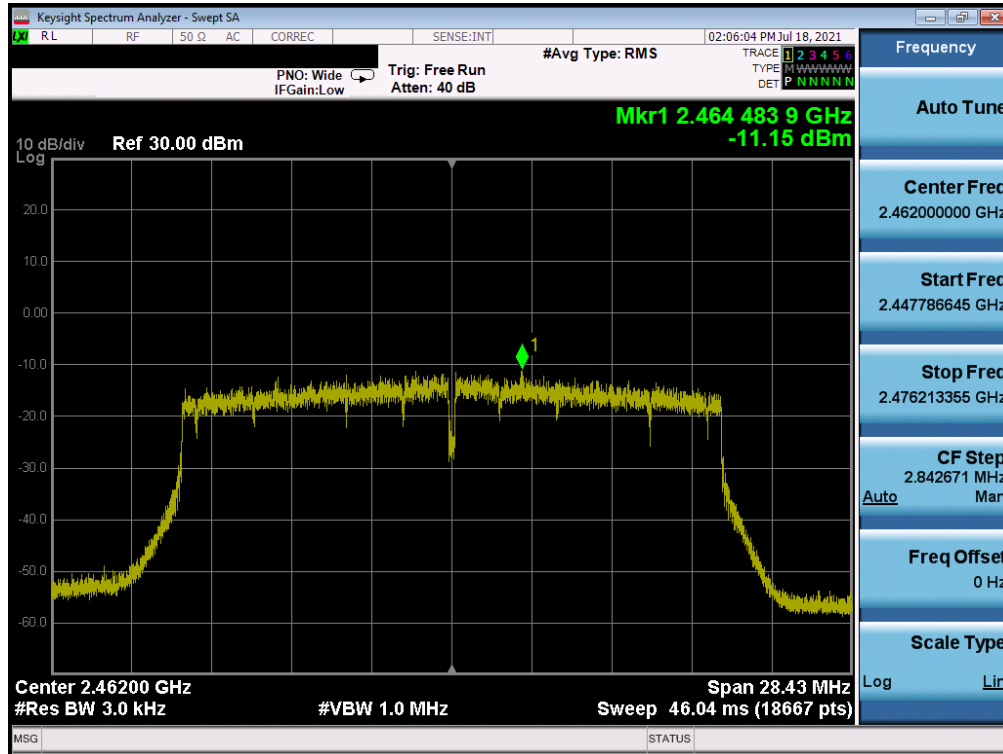


Plot 7-76. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS4



Plot 7-77. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS4

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-78. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

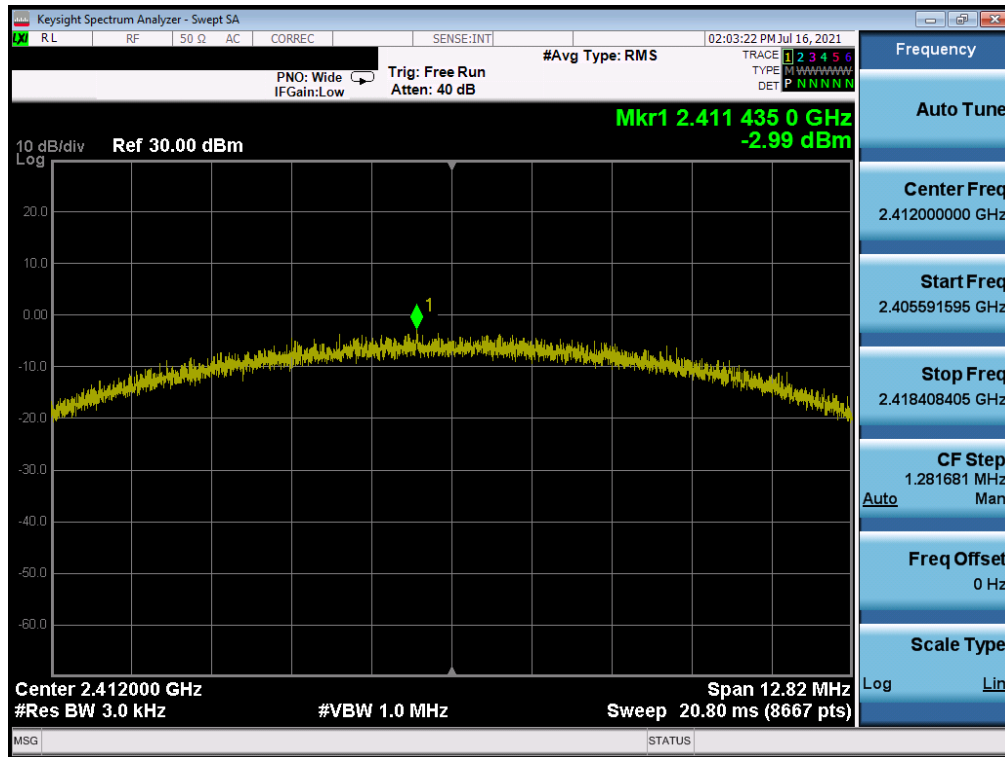
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 78 of 429

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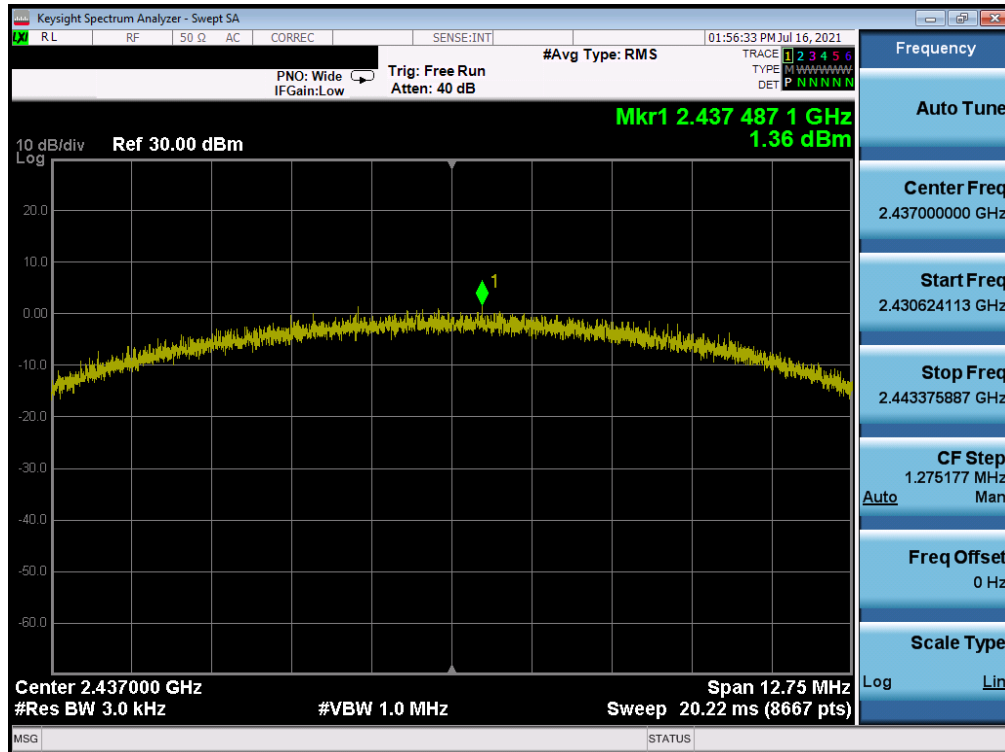
V 10.4 5/21/2021

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## High Data Rate

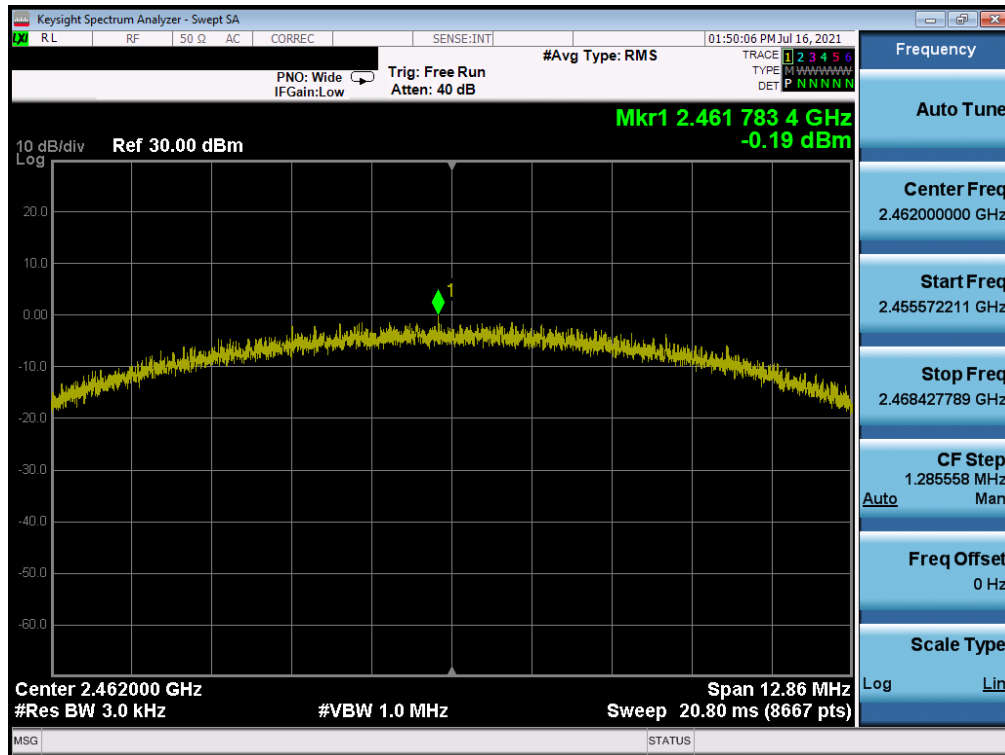


Plot 7-79. Power Spectral Density Plot Antenna WF8 (802.11b – Ch. 1) – 11Mbps

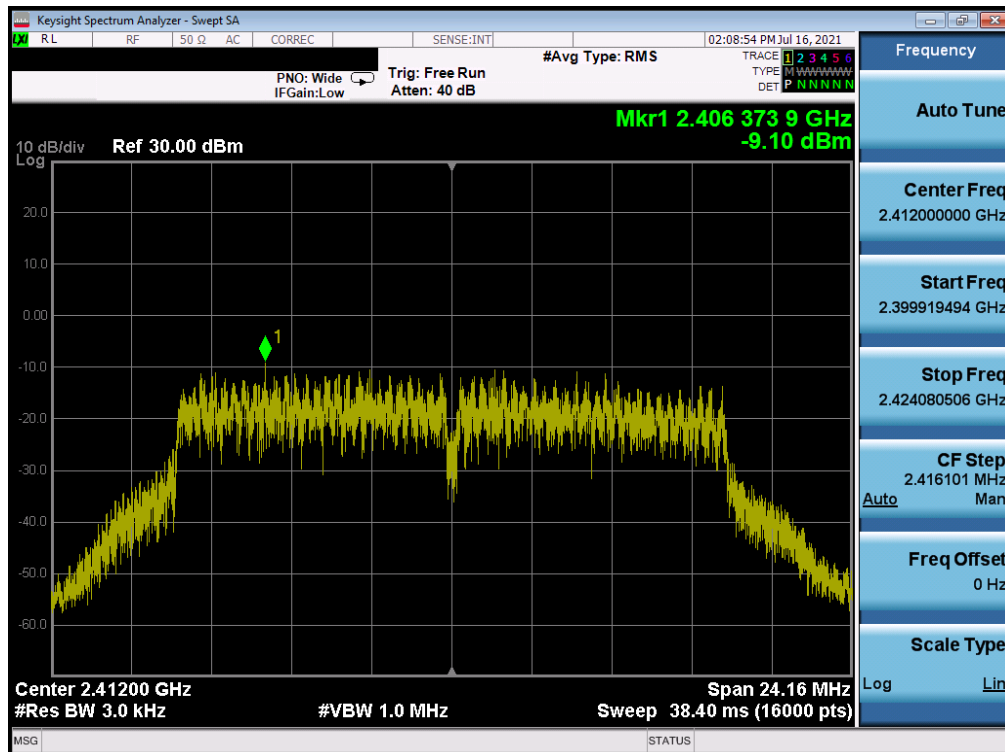


Plot 7-80. Power Spectral Density Plot Antenna WF8 (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 79 of 429



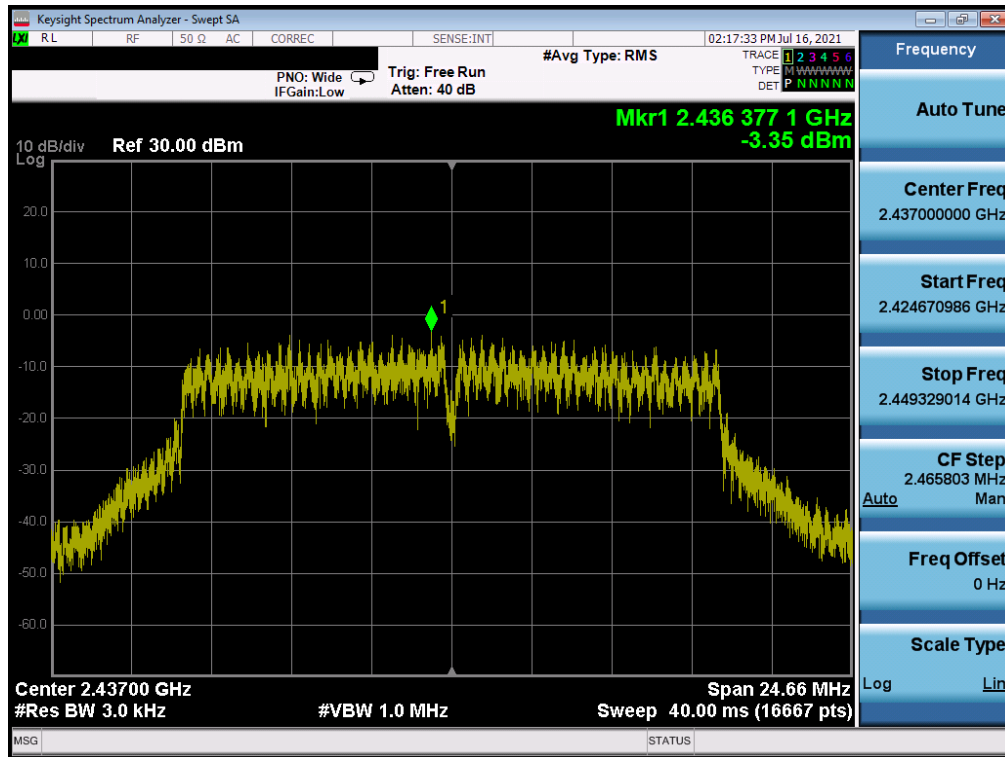
Plot 7-81. Power Spectral Density Plot Antenna WF8 (802.11b – Ch. 11) – 11Mbps



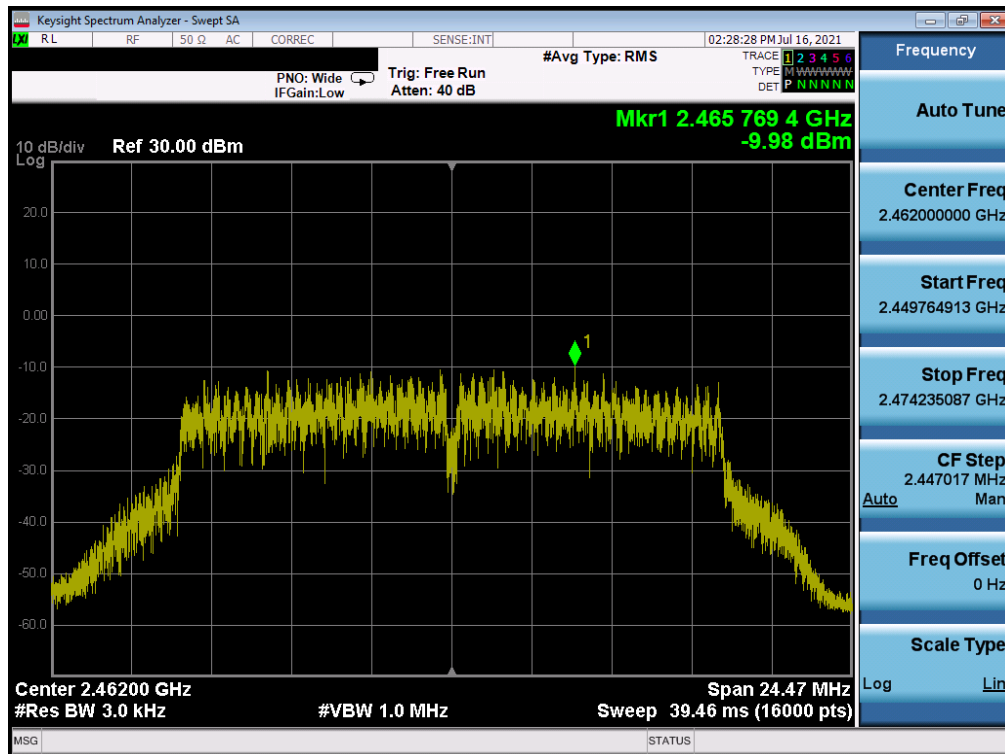
Plot 7-82. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 80 of 429



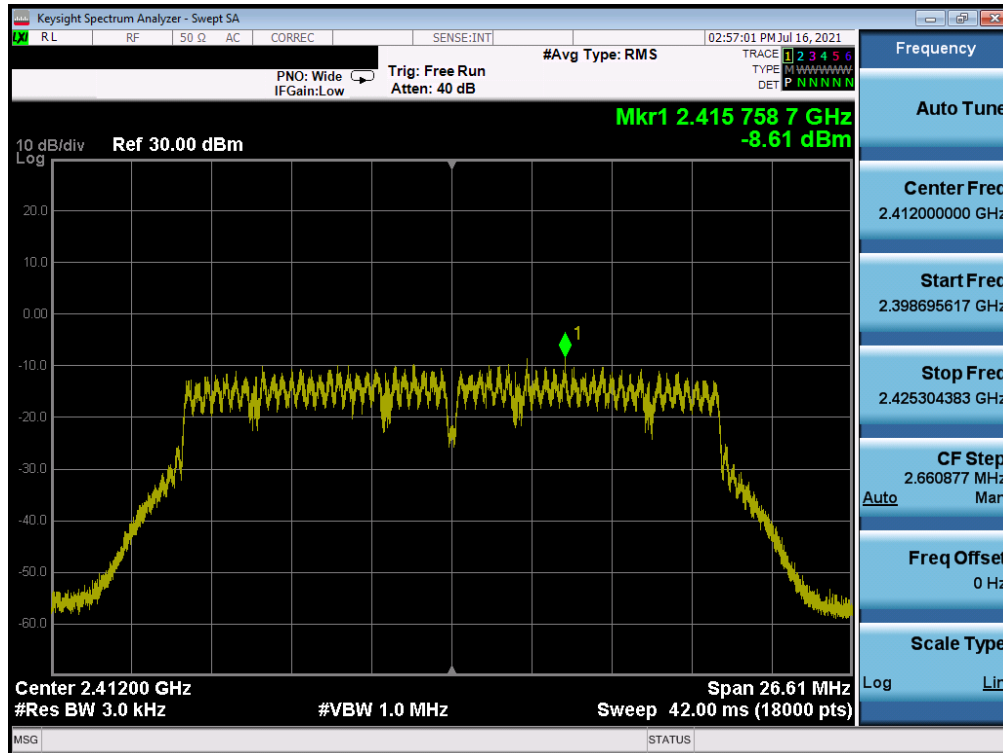


Plot 7-83. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 6) – 36Mbps

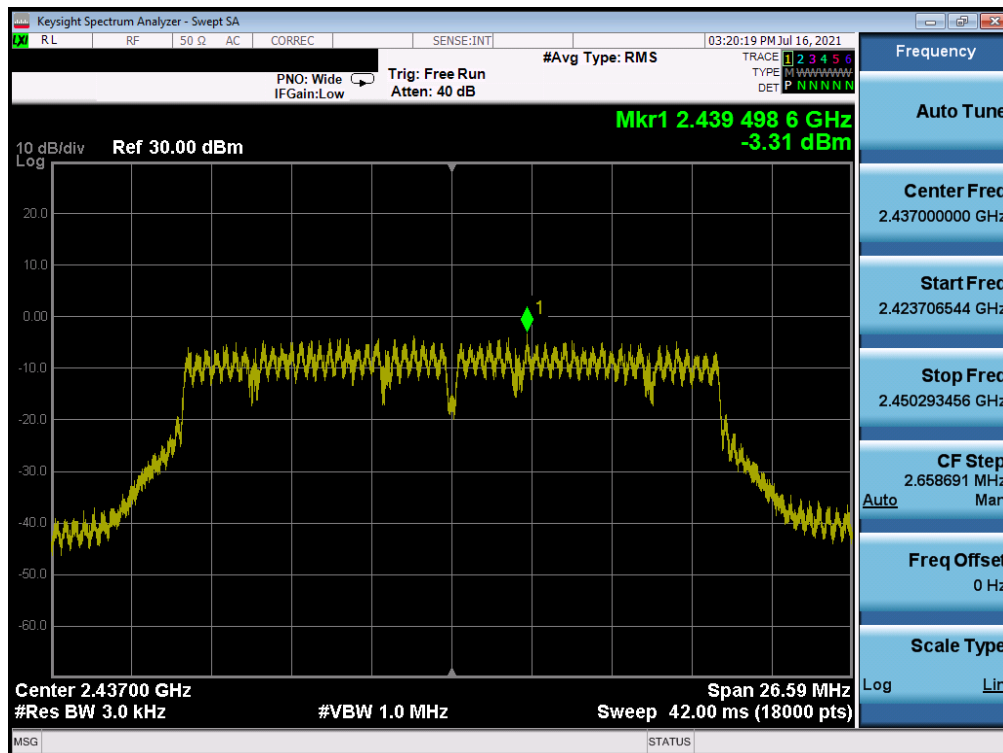


Plot 7-84. Power Spectral Density Plot Antenna WF8 (802.11g – Ch. 11) – 36Mbps

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 81 of 429

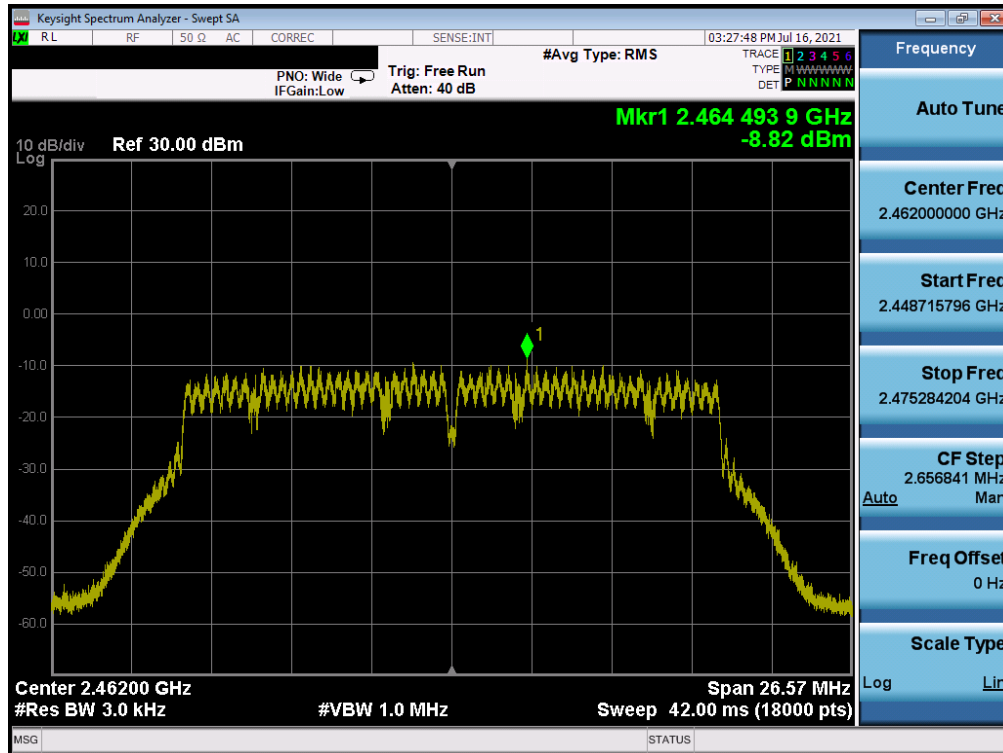


Plot 7-85. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS5

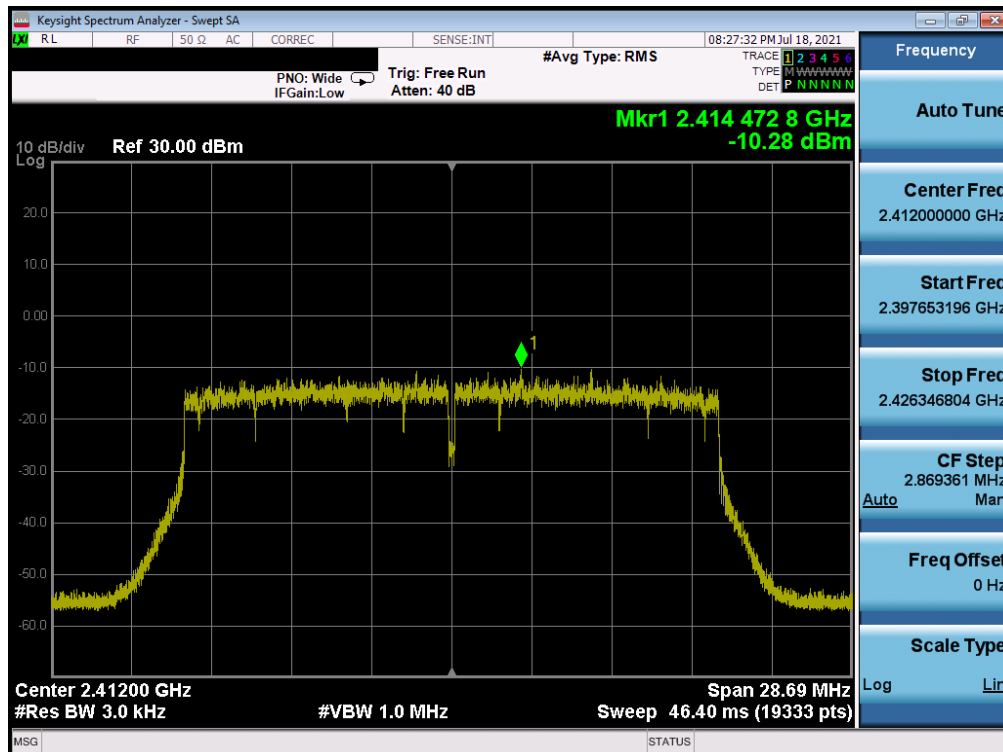


Plot 7-86. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 82 of 429



Plot 7-87. Power Spectral Density Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS5



Plot 7-88. Power Spectral Density Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-01-R1.BCG	Test Dates: 6/2/2021 - 8/11/2021	EUT Type: Tablet Device	Page 83 of 429