



MEASUREMENT REPORT

FCC PART 15.247 / ISSED RSS-247 WLAN 802.11b/g/n

Applicant Name:

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

Date of Testing:

06/08/2021-08/06/2021

Test Site/Location:

PCTEST Lab. Morgan Hill, CA, USA

Test Report Serial No.:

1C2106070043-06.BCG

FCC ID: BCG-A2475

IC: 579C-A2475

APPLICANT: Apple Inc.

Application Type:

Certification

Model/HVIN:

A2475

EUT Type:

Watch

Frequency Range:

2412 – 2472MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISSED Specification:


RSS-247 Issue 2

Test Procedure(s):

ANSI C63.10-2013, KDB 558074 D01 v05r02

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.

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.

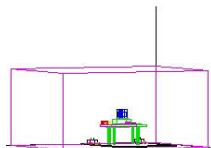

Randy Ortanez
President

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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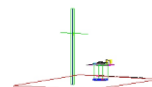
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Mode	Tx Frequency (MHz)	Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11b	2412-2472	79.433	19.00	140.929	21.49
802.11g	2412-2472	70.795	18.50	174.582	22.42
802.11n (MCS0)	2412-2472	70.632	18.49	190.546	22.80
802.11n (MCS7)	2412-2472	44.668	16.50	172.187	22.36

EUT Overview

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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 ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2475** and **IC:579C-A2475**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: VY7XT20NH4, XG52X3G9PJ, T0JV6FY7L4

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter.

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. Frequency/ Channel Operations

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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:

Measured Duty Cycles		
802.11 Mode/Band		Duty Cycle [%]
2.4GHz	b	99.3
	g	98.7
	n (MCS 0)	98.1
	n (MCS 7)	89.5

Table 2-2. Measured Duty Cycles

- 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)
- This device supports simultaneous multi radio transmission, which allows multiple transmitters to transmit simultaneously at the same antenna. The table below shows all configurations possible.

Simultaneous Tx Config	Antenna FCM				
	WLAN	Bluetooth	LTE/WCDMA	UNII	UWB
	802.11 b/g/n	BDR, EDR, HDR4/8, LE	Mid band/ High band	802.11 a/n	Ch.5, Ch.9
Config 1	✓	✗	✗	✗	✓
Config 2	✗	✓	✗	✗	✓
Config 3	✗	✗	✓	✗	✓
Config 4	✗	✓	✓	✗	✗
Config 5	✓	✗	✓	✗	✗
Config 6	✗	✗	✓	✓	✗
Config 7	✗	✓	✗	✓	✗
Config 8	✓	✗	✓	✗	✓
Config 9	✗	✓	✓	✗	✓
Config 10	✗	✓	✓	✓	✗

Table 2-3. Simultaneous Transmission Configurations

✓ = Support; ✗ = NOT Support

- All possible Simultaneous Transmission configurations have been investigated and the worst case configuration was found to be configuration 10 (BT, LTE Band 41 and UNII). These results can be found in the RF Bluetooth, RF Part 27b/ RF RSS-199 and RF UNII reports.

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2.3 Antenna Description

Following antenna gain provided by manufacturer was used for the testing.

Frequency [GHz]	Antenna Gain [dBi]
2.4	-6.40

Table 2-4. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple Macbook	Model:	A1398	S/N:	C2QKP008F6F3
	w/AC/DC Adapter	Model:	A1435	S/N:	N/A
2	Apple USB-C cable	Model:	N/A	S/N:	N/A
	w/ Charging Dock	Model:	A2687	S/N:	FV411420544MW6M4H
	w/Dock	Model:	X241	S/N:	N/A
3	Apple Magnetic Charger	Model:	A2515	S/N:	DLC035200UJMF0AJ
	Apple Magnetic Charger	Model:	A2515	S/N:	DLC035202KRMFR0A2
4	Pathfinder Falcon	Model:	920-098626-01	S/N:	DLC034200APQ6PM1E
	SiP Socket	Model:	P2 X2011S PF 212	S/N:	DLC048500BP0KPG2N
5	Store Bracelet Assy1	Model:	N/A	S/N:	DLC1197001R19G21N

Table 2-5. Test Support Equipment List

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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, 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.

The worst case configuration was investigated for all combinations of the three materials, aluminum, stainless steel, and titanium and various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

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 emissions and radiated emissions below 1GHz, the following configurations were investigated and worst case was reported.

- EUT powered by AC/DC adapter via USB-C cable with magnetic charger
- EUT powered by host PC via USB cable with magnetic charger

Higher and lower data rates were investigated for different test cases and the worst case data is reported in section 7.0.

2.6 Software and Firmware

The test was conducted with firmware version watchOS 8.0 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 65-5. 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, 50 Ω /50 μ H 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 an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are EPCOS 2X60A Power Line Filter (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 that 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_{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 (30MHz - 1GHz)	4.30
Radiated Disturbance (1 - 18GHz)	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
Keysight Technology	N9040B	UXA Signal Analyzer	12/19/2020	Annual	12/19/2021	MY57212015
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
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

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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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
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IC: 579C-A2475
FCC Classification: Digital Transmission Systems (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		PASS	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	Section 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.

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7.2 6dB and 99% Bandwidth Measurement

§15.247(a.2); §2.1049 RSS-247 [5.2]; RSS-Gen [6.7]

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

None.

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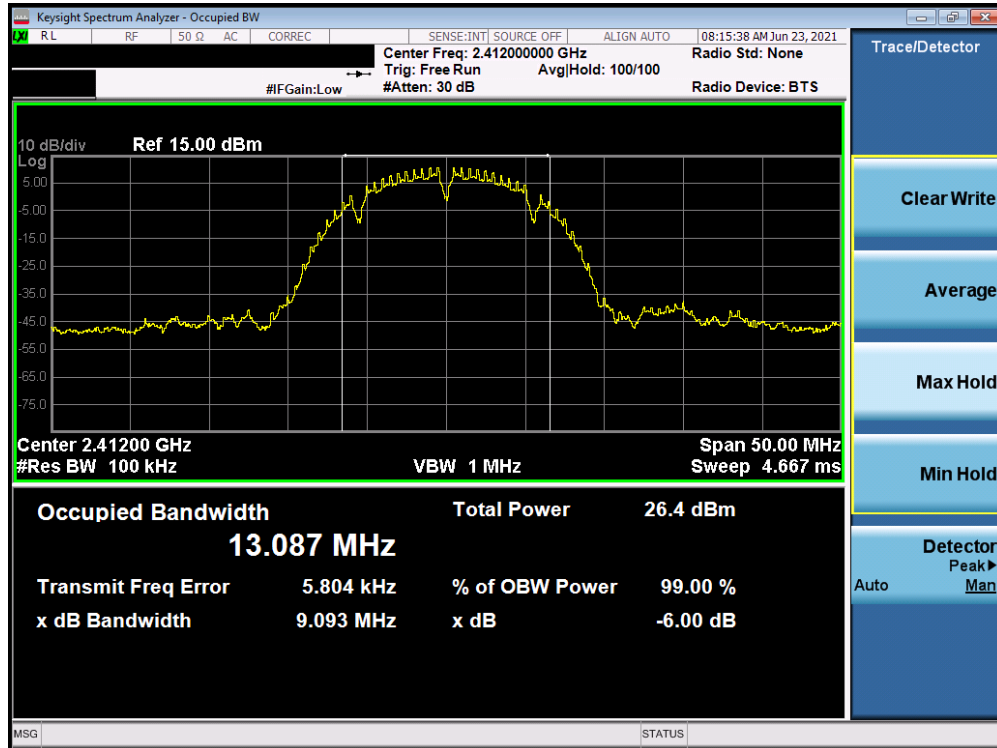
V 10.4 5/21/2021

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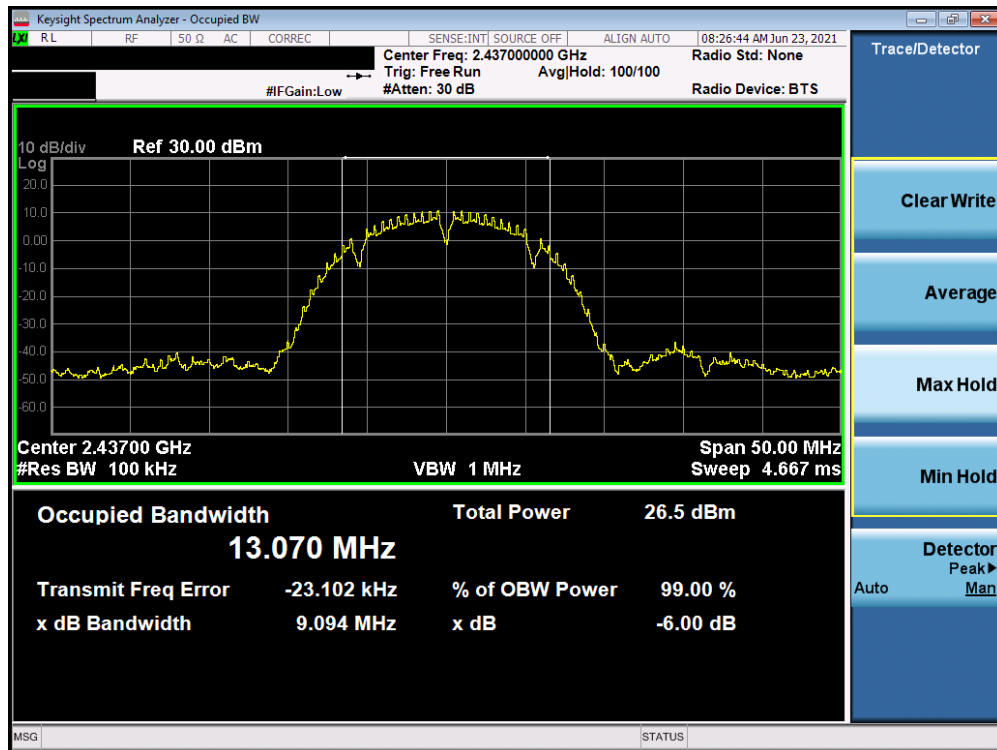
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	1	13.09	9.09	0.500	Pass
2437	6	b	1	13.07	9.09	0.500	Pass
2462	11	b	1	12.99	9.07	0.500	Pass
2412	1	g	6	19.33	18.61	0.500	Pass
2437	6	g	6	19.67	18.37	0.500	Pass
2462	11	g	6	19.38	18.57	0.500	Pass
2412	1	n	6.5/7.2 (MCS0)	19.69	18.40	0.500	Pass
2437	6	n	6.5/7.2 (MCS0)	20.10	18.79	0.500	Pass
2462	11	n	6.5/7.2 (MCS0)	19.42	18.39	0.500	Pass
2412	1	n	65/72.2 (MCS7)	19.34	18.39	0.500	Pass
2437	6	n	65/72.2 (MCS7)	19.44	18.57	0.500	Pass
2462	11	n	65/72.2 (MCS7)	19.30	18.62	0.500	Pass

Table 7-2. Conducted Bandwidth Measurements

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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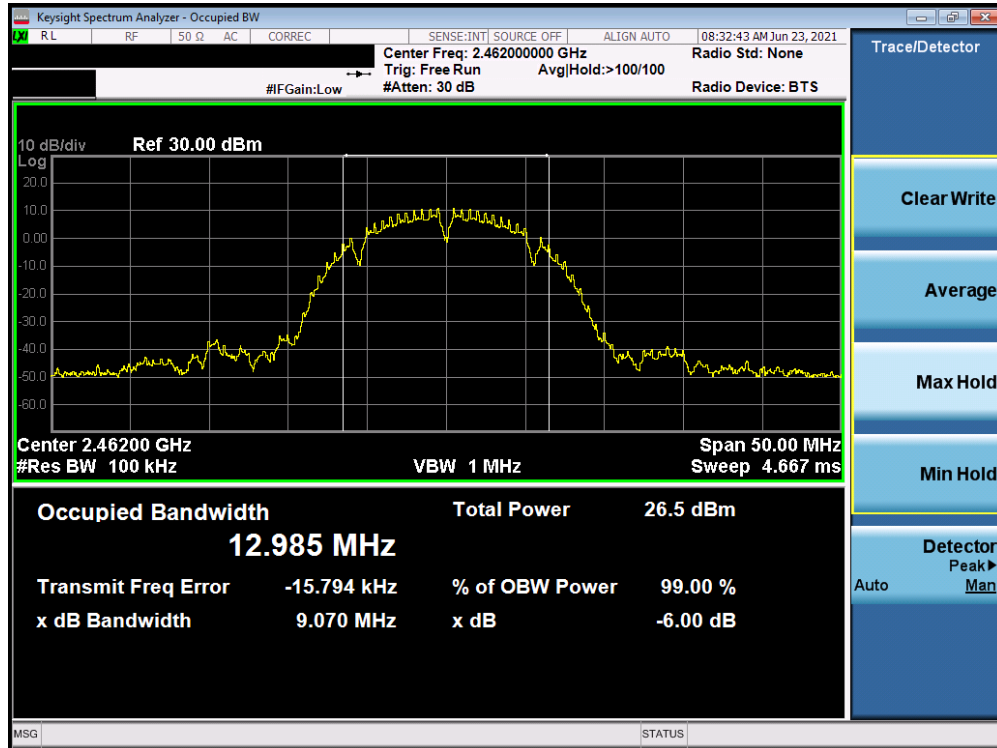


Plot 7-1. 6dB BW and 99% OBW Plot (802.11b – Ch. 1)

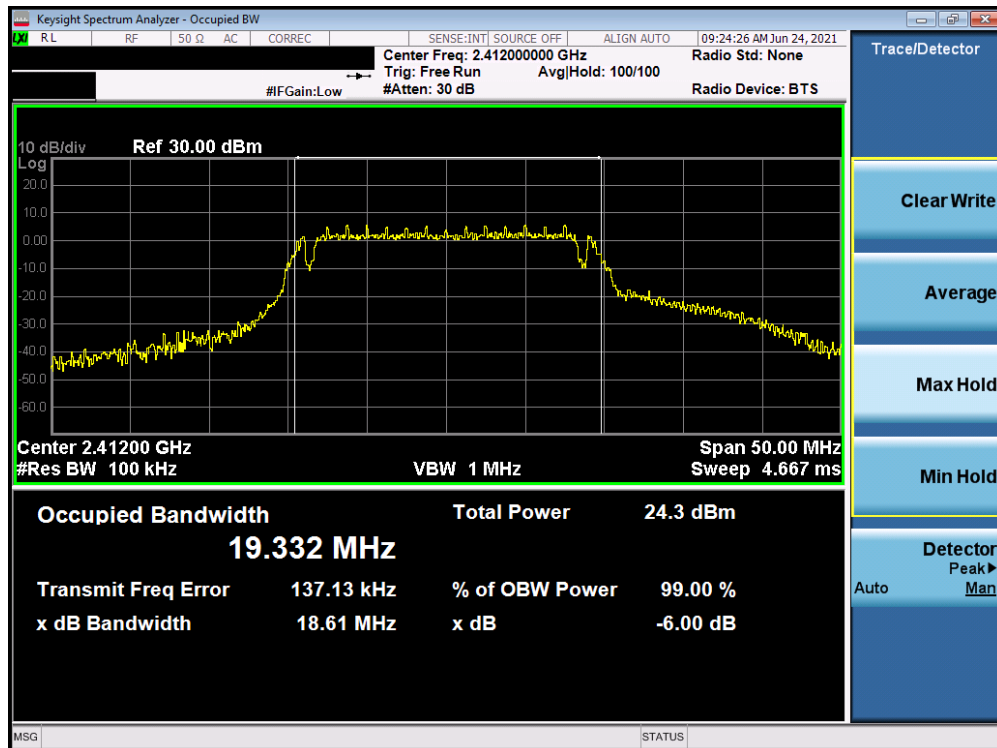


Plot 7-2. 6dB BW and 9% OBW Plot (802.11b – Ch. 6)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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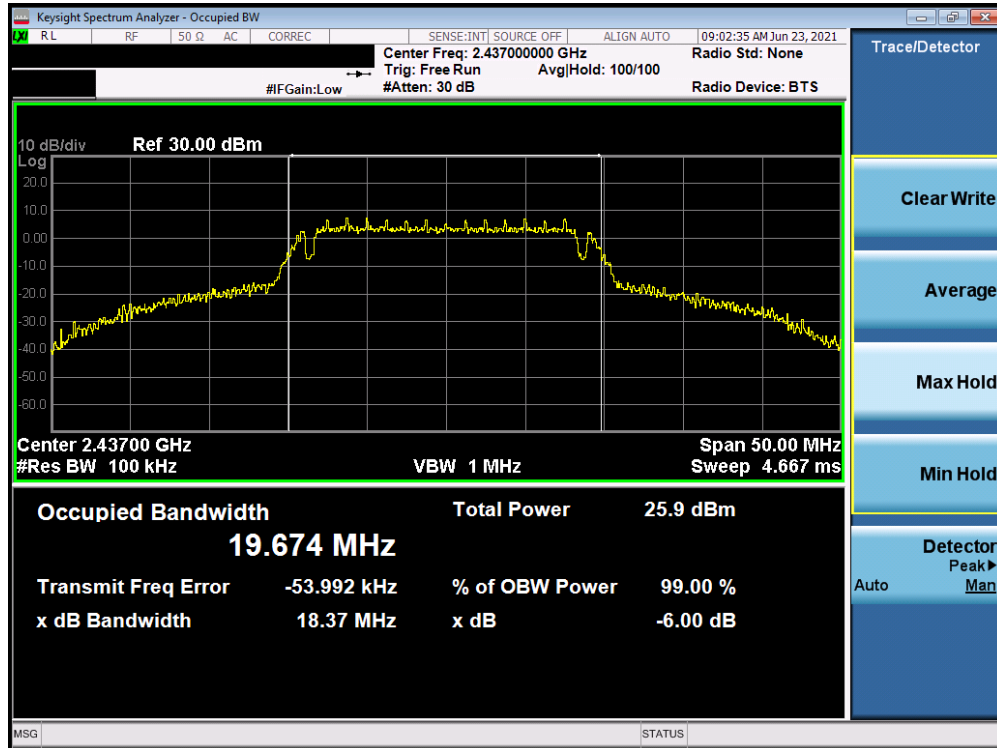


Plot 7-3. 6dB BW and 99% OBW Plot (802.11b – Ch. 11)

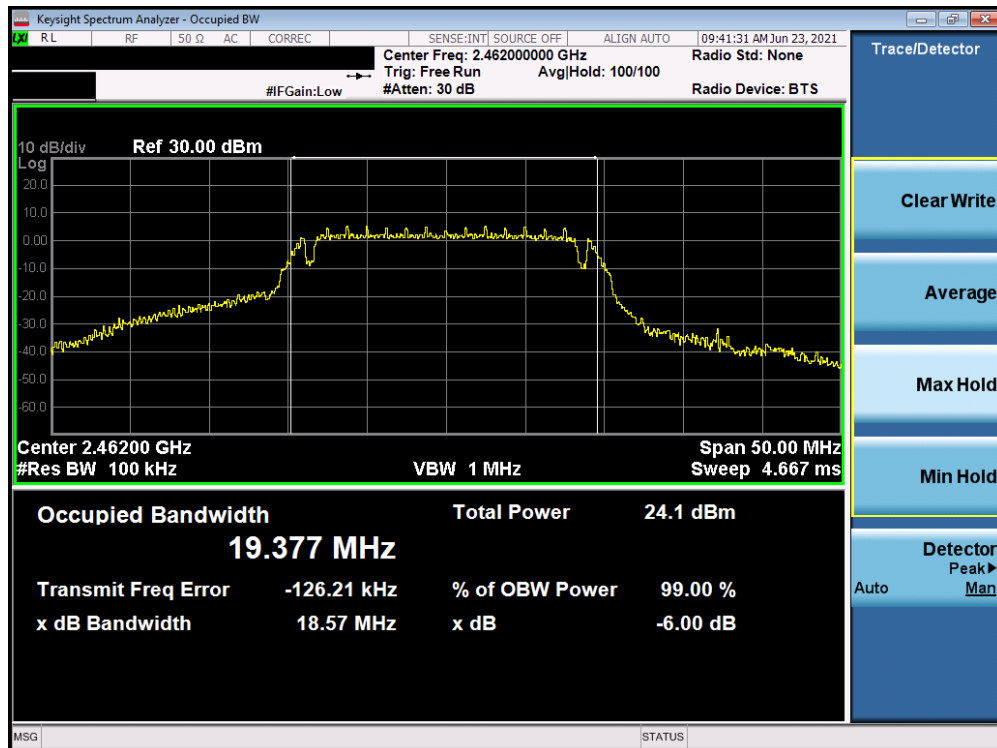


Plot 7-4. 6dB BW and 99% OBW Plot (802.11g – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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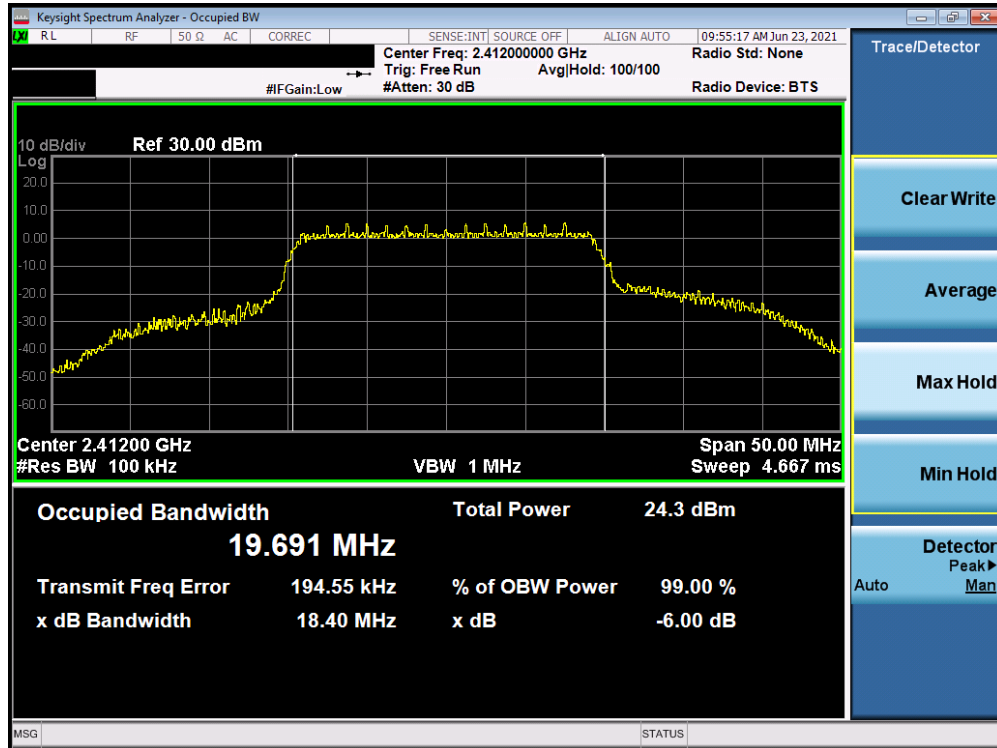


Plot 7-5. 6dB BW and 99% OBW Plot (802.11g – Ch. 6)

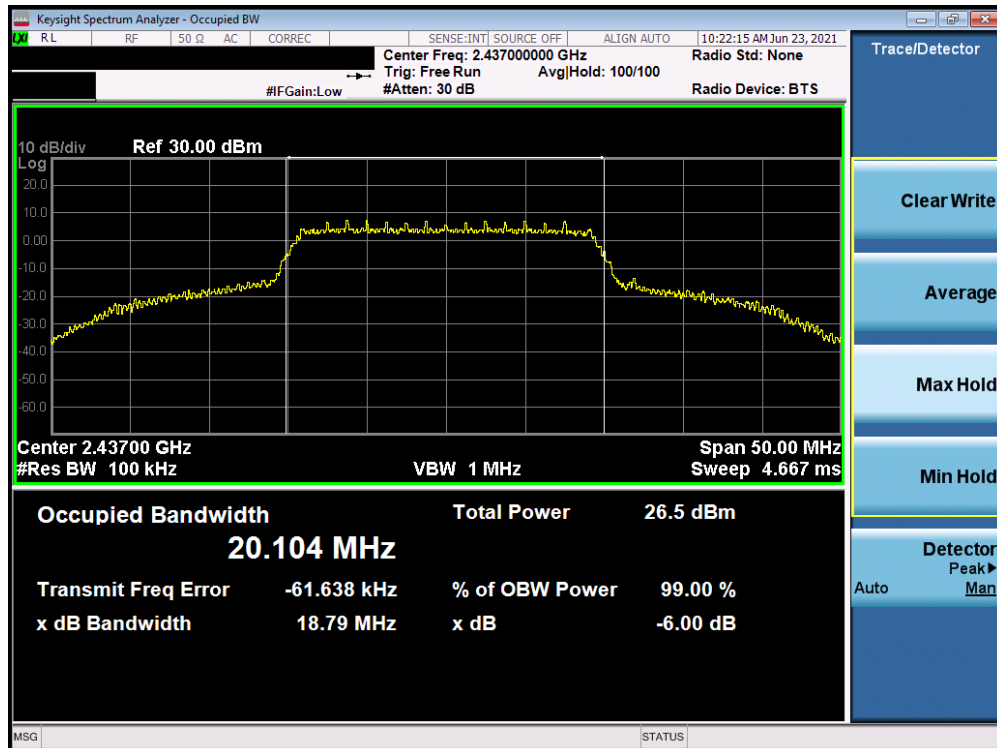


Plot 7-6. 6dB BW and 99% OBW Plot (802.11g – Ch. 11)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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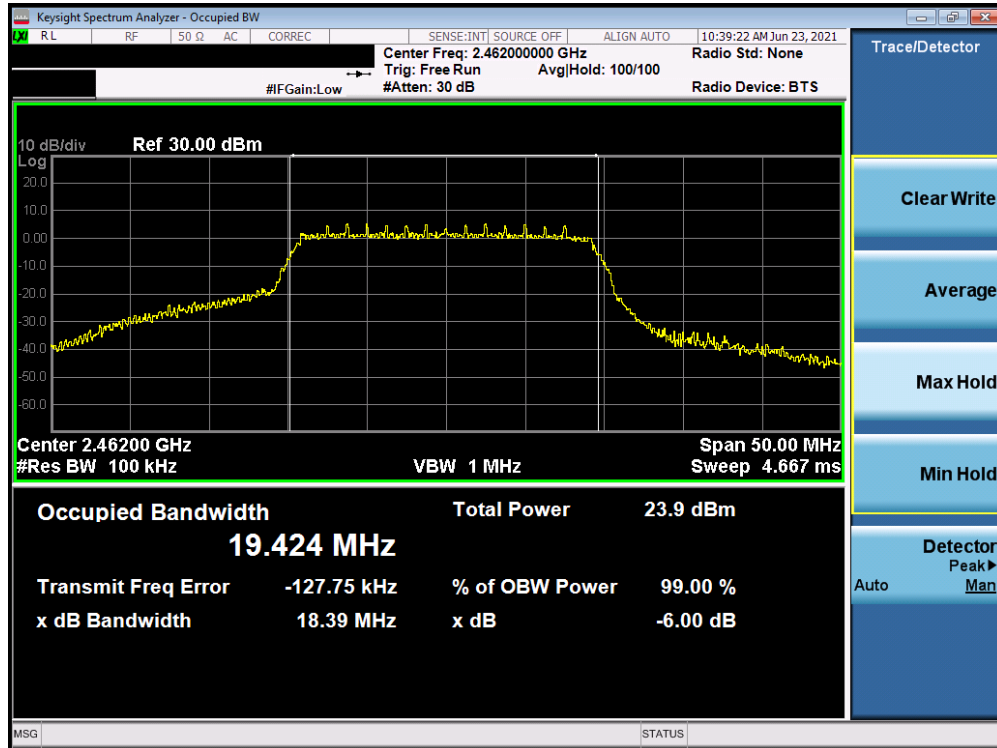


Plot 7-7. 6dB BW and 99% OBW Plot (802.11n MCS0 – Ch. 1)

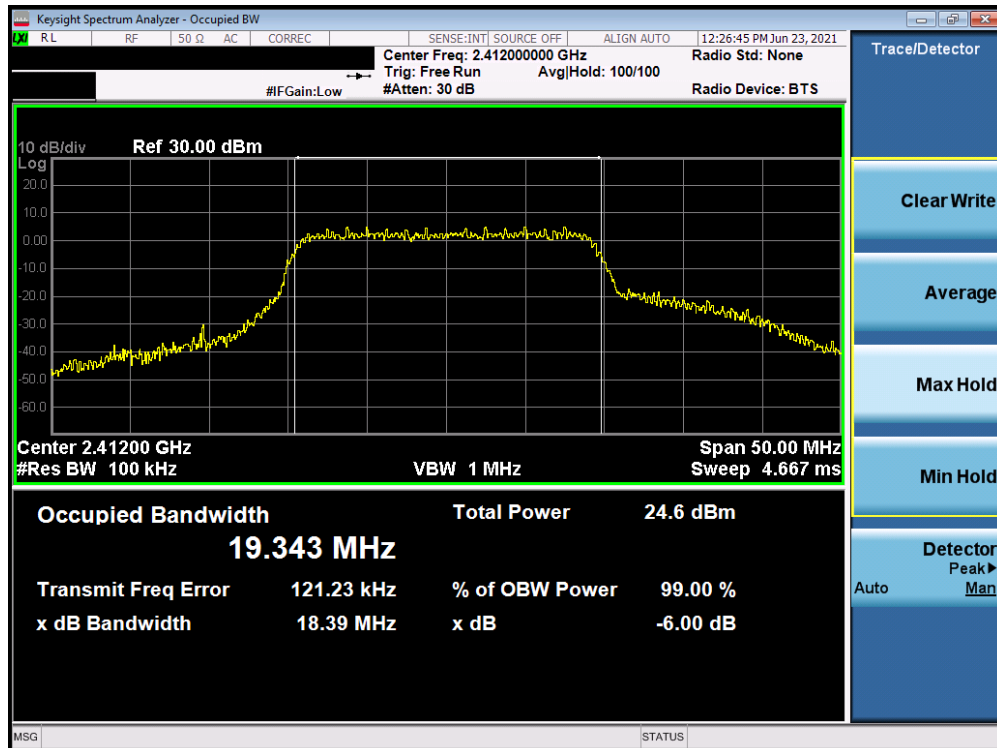


Plot 7-8. 6dB BW and 99% OBW Plot (802.11n MCS0 – Ch. 6)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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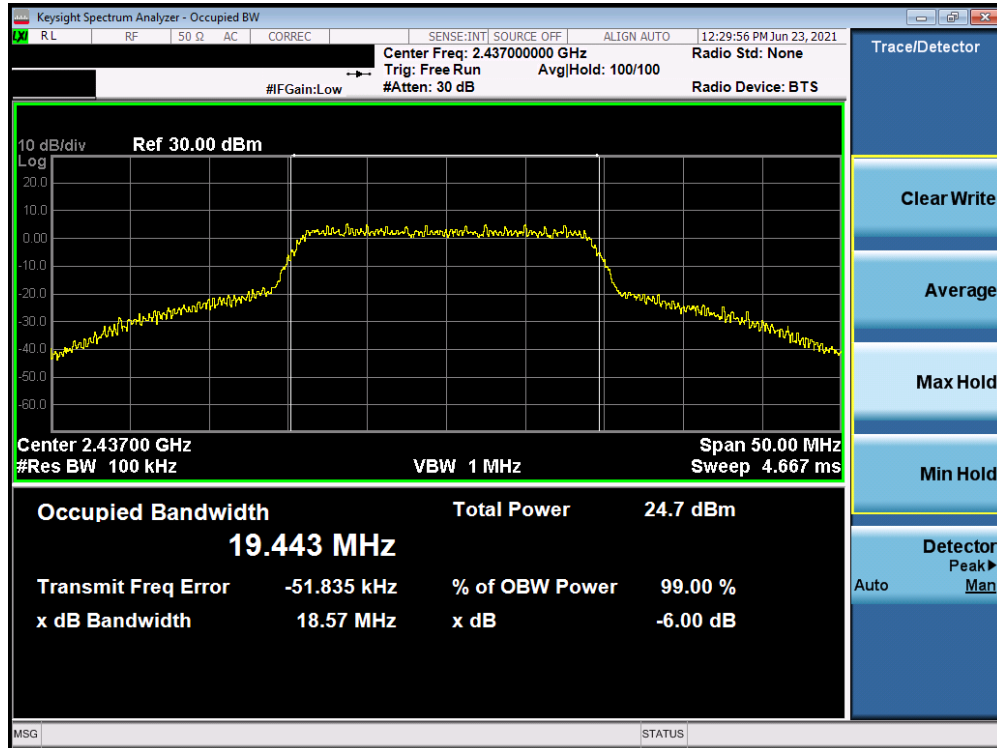


Plot 7-9. 6dB BW and 99% OBW Plot (802.11n MCS0 – Ch. 11)

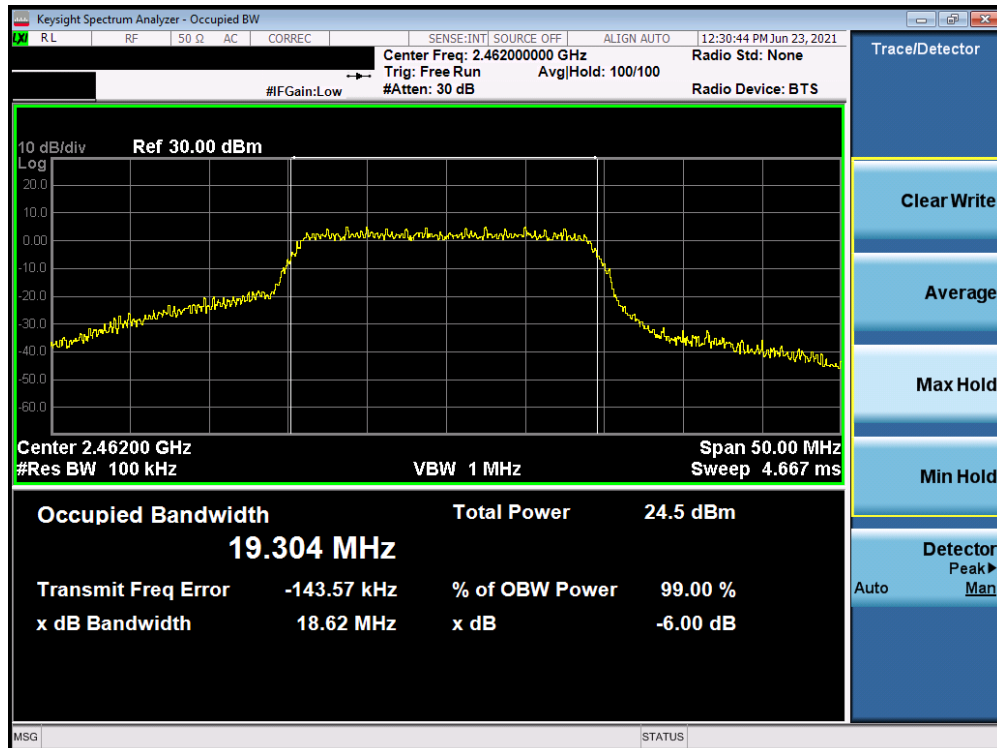


Plot 7-10. 6dB BW and 99% OBW Plot (802.11n MCS7 – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-11. 6dB BW and 99% OBW Plot (802.11n MCS7 – Ch. 6)



Plot 7-12. 6dB BW and 99% OBW Plot (802.11n MCS7 – Ch. 11)

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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)

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

None

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.3.1 Average Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

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 (MCS0)	802.11n (MCS7)						
2412	1	AVG	19.00	17.00	16.98	16.50	30.00	-11.00	-6.40	12.60	36.02	-23.42
2417	2	AVG	18.99	18.38	18.48	16.50	30.00	-11.01	-6.40	12.59	36.02	-23.43
2437	6	AVG	18.90	18.31	18.49	16.45	30.00	-11.10	-6.40	12.50	36.02	-23.52
2452	9	AVG	18.90	18.50	18.49	16.50	30.00	-11.10	-6.40	12.50	36.02	-23.52
2457	10	AVG	19.00	17.90	17.99	16.50	30.00	-11.00	-6.40	12.60	36.02	-23.42
2462	11	AVG	19.00	16.39	16.47	16.48	30.00	-11.00	-6.40	12.60	36.02	-23.42
2467	12	AVG	18.00	15.36	15.50	15.40	30.00	-12.00	-6.40	11.60	36.02	-24.42
2472	13	AVG	16.93	4.32	4.48	4.41	30.00	-13.07	-6.40	10.53	36.02	-25.49

Table 7-3. Average Conducted Output Power Measurements

FCC ID: BCG-A2475 IC: 579C-A2475		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.3.2 Peak Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

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 (MCS0)	802.11n (MCS7)						
2412	1	PEAK	21.27	21.65	21.90	22.35	30.00	-7.65	-6.40	15.95	36.02	-20.07
2417	2	PEAK	21.26	22.42	22.30	22.34	30.00	-7.58	-6.40	16.02	36.02	-20.00
2437	6	PEAK	21.19	22.42	22.52	22.30	30.00	-7.48	-6.40	16.12	36.02	-19.90
2452	9	PEAK	21.16	22.40	22.80	22.24	30.00	-7.20	-6.40	16.40	36.02	-19.62
2457	10	PEAK	21.37	22.39	22.70	22.31	30.00	-7.30	-6.40	16.30	36.02	-19.72
2462	11	PEAK	21.49	22.02	21.60	22.36	30.00	-7.64	-6.40	15.96	36.02	-20.06
2467	12	PEAK	20.36	21.19	20.82	21.80	30.00	-8.20	-6.40	15.40	36.02	-20.62
2472	13	PEAK	19.18	13.42	15.85	15.52	30.00	-10.82	-6.40	12.78	36.02	-23.24

Table 7-4. Peak Conducted Output Power Measurements

FCC ID: BCG-A2475 IC: 579C-A2475		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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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

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

None

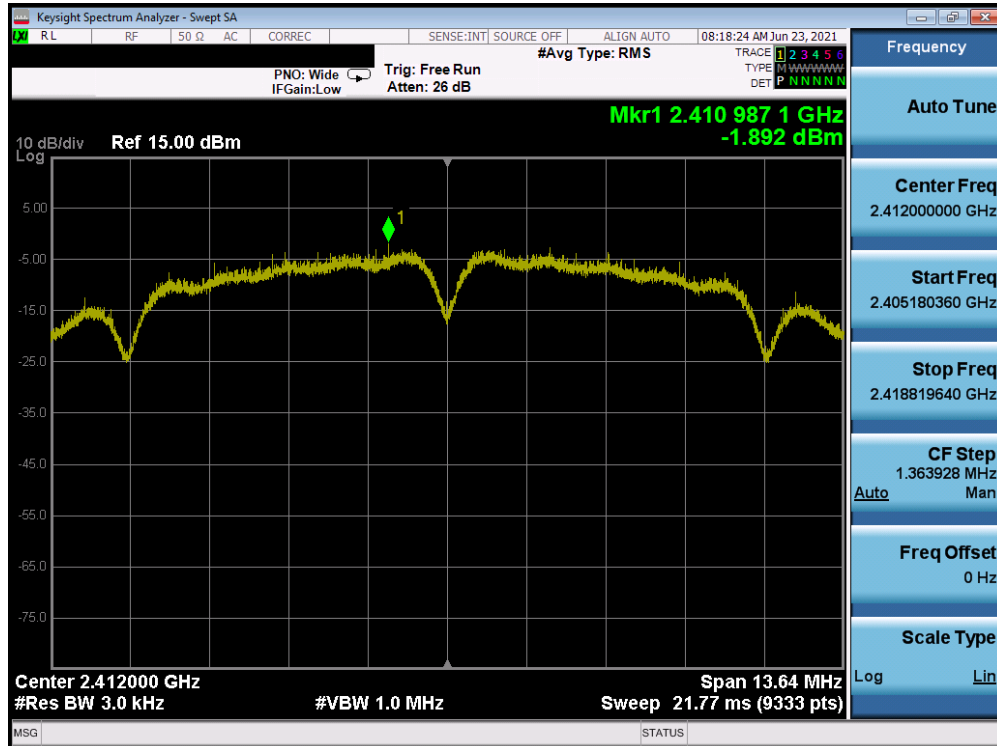
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 26 of 74

Power Spectral Density Measurements

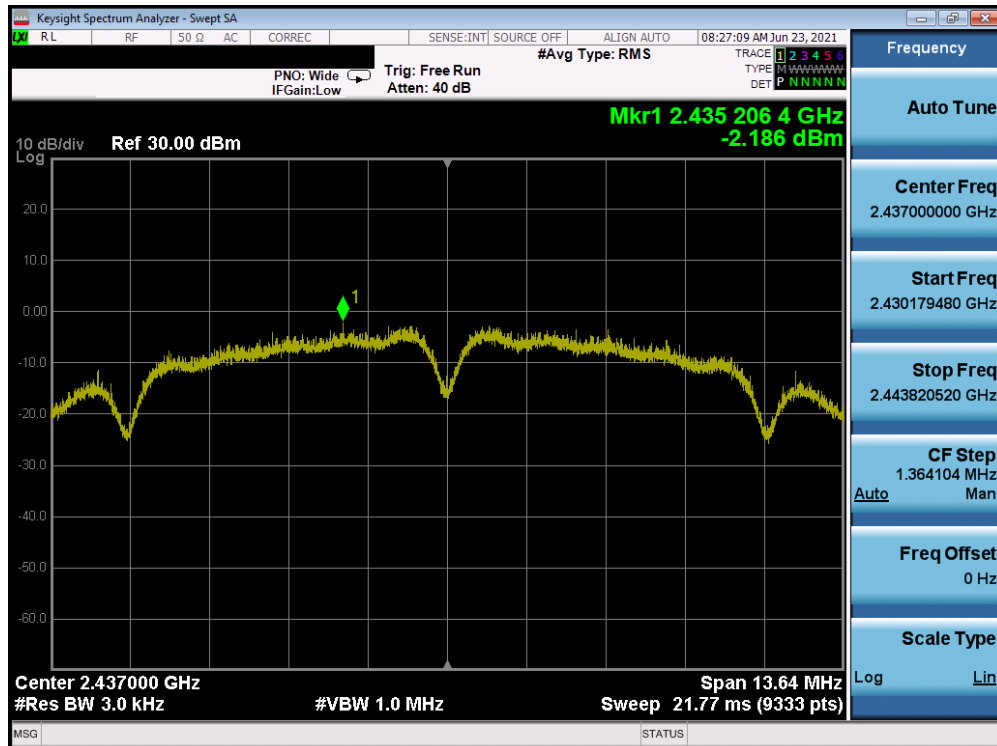
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-1.89	8.00	-9.89	Pass
2437	6	b	1	-2.19	8.00	-10.19	Pass
2462	11	b	1	-2.50	8.00	-10.50	Pass
2412	1	g	6	-7.94	8.00	-15.94	Pass
2437	6	g	6	-6.96	8.00	-14.96	Pass
2462	11	g	6	-8.57	8.00	-16.57	Pass
2412	1	n	6.5/7.2 (MCS0)	-7.55	8.00	-15.55	Pass
2437	6	n	6.5/7.2 (MCS0)	-6.62	8.00	-14.62	Pass
2462	11	n	6.5/7.2 (MCS0)	-8.54	8.00	-16.54	Pass
2412	1	n	65/72.2 (MCS7)	-7.57	8.00	-15.57	Pass
2437	6	n	65/72.2 (MCS7)	-8.33	8.00	-16.33	Pass
2462	11	n	65/72.2 (MCS7)	-7.36	8.00	-15.36	Pass

Table 7-5. Conducted Power Density Measurements

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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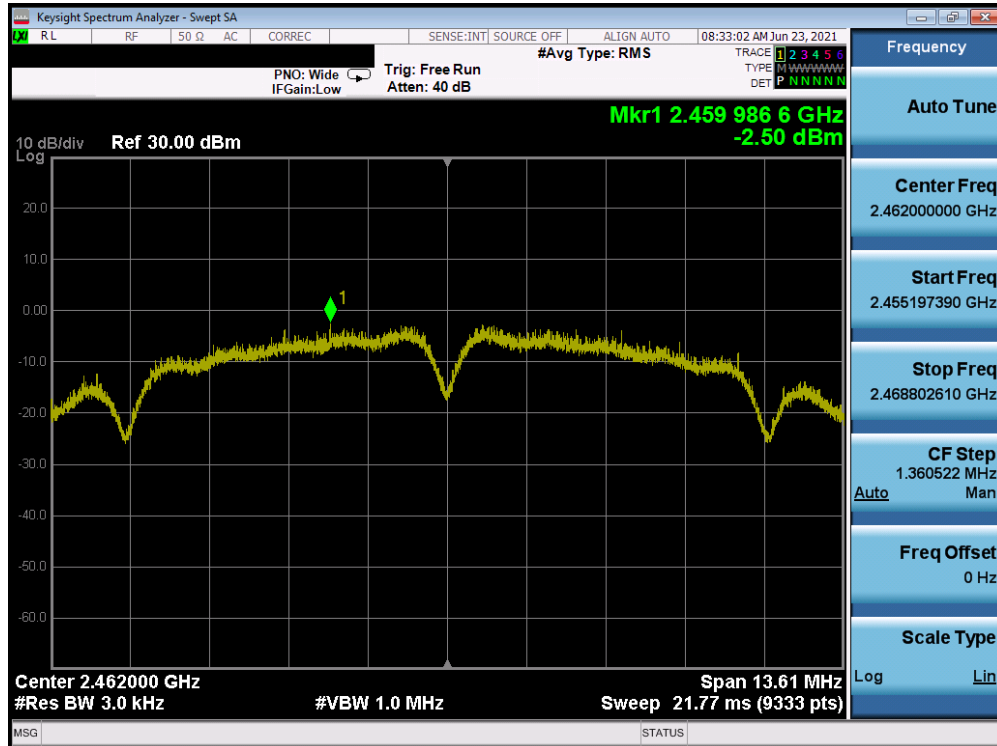


Plot 7-13. Power Spectral Density Plot (802.11b – Ch. 1)

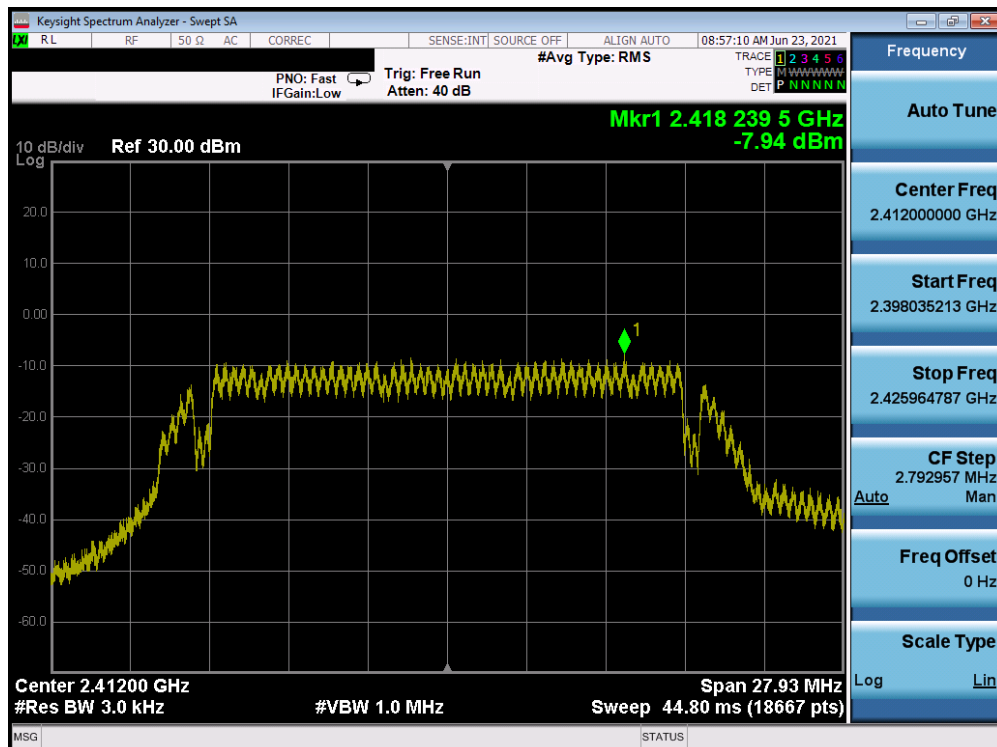


Plot 7-14. Power Spectral Density Plot (802.11b – Ch. 6)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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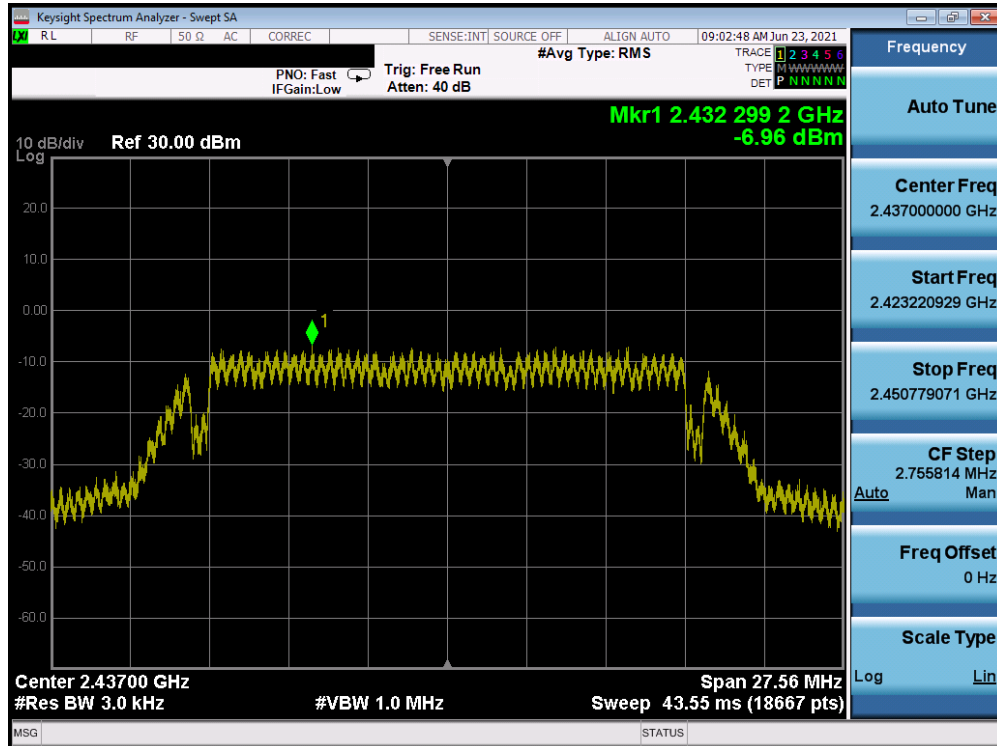


Plot 7-15. Power Spectral Density Plot (802.11b – Ch. 11)

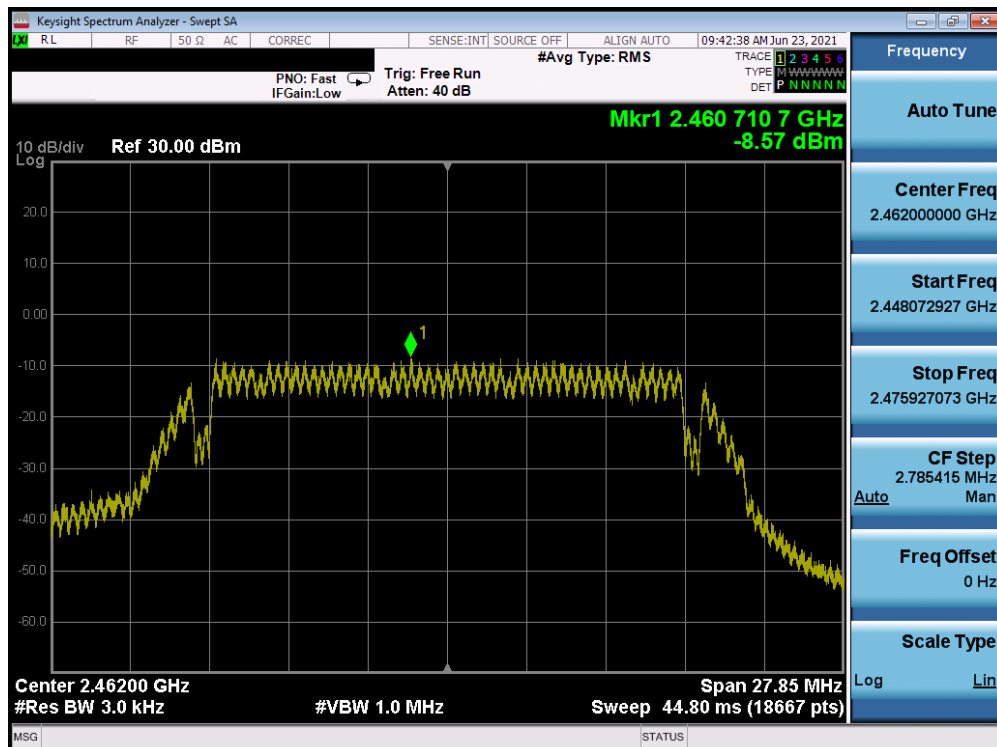


Plot 7-16. Power Spectral Density Plot (802.11g – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 29 of 74

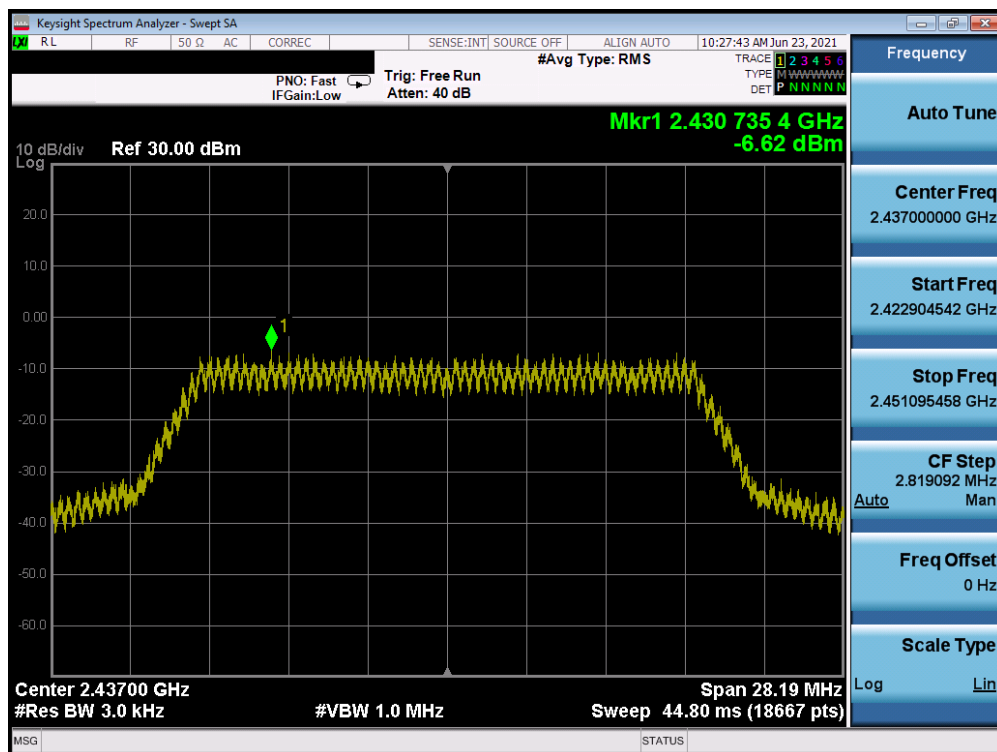
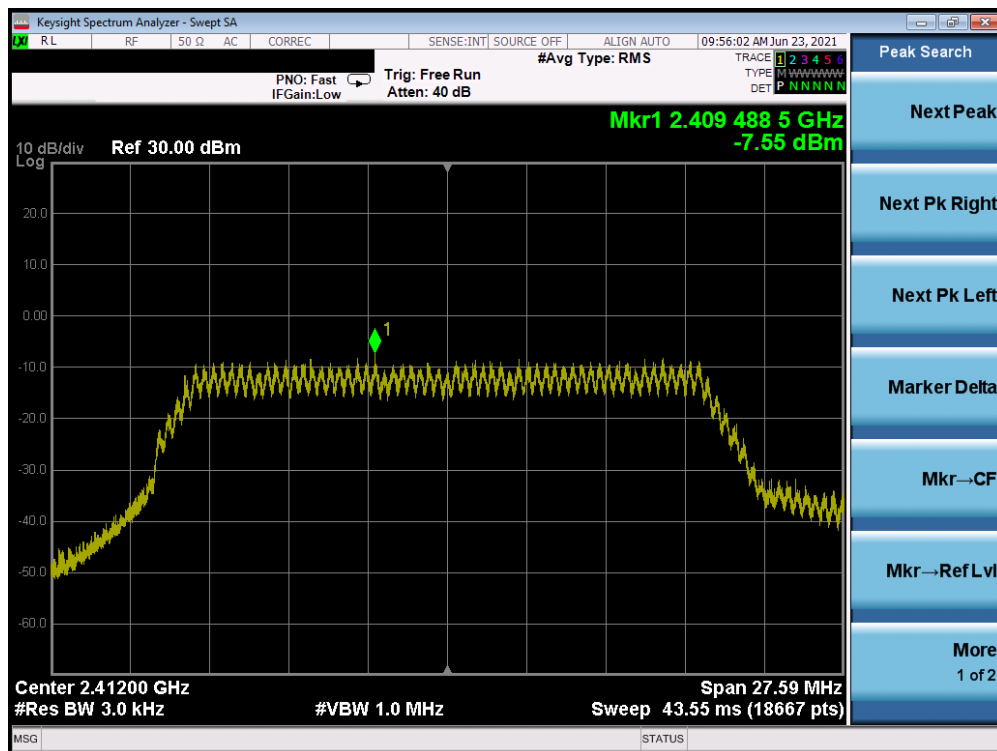


Plot 7-17. Power Spectral Density Plot (802.11g – Ch. 6)

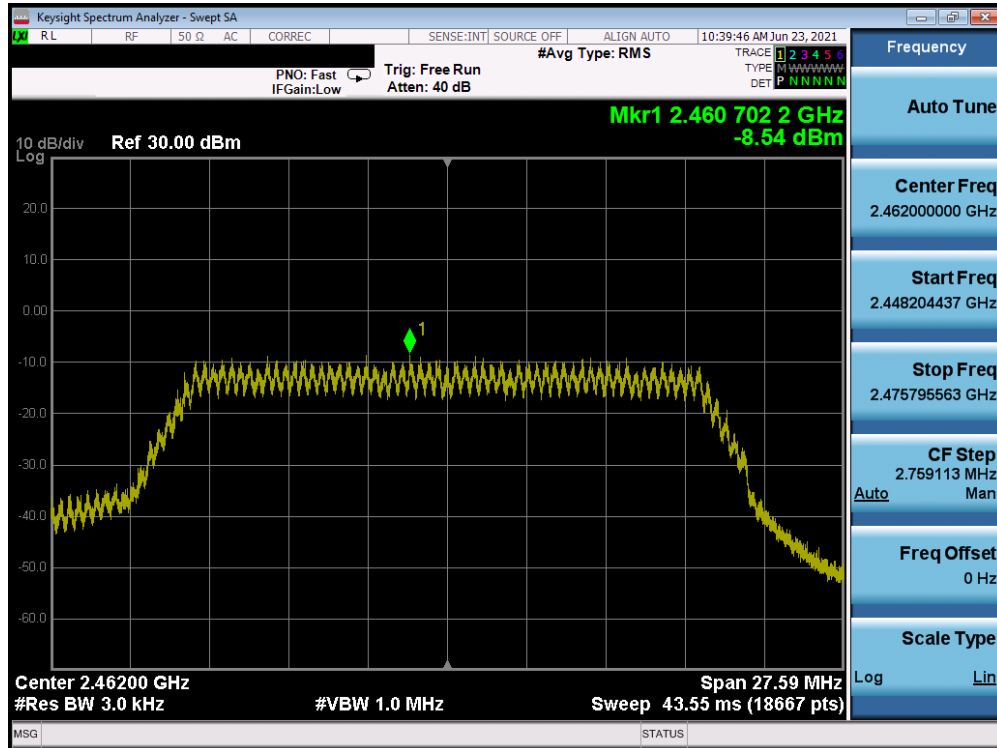


Plot 7-18. Power Spectral Density Plot (802.11g – Ch. 11)

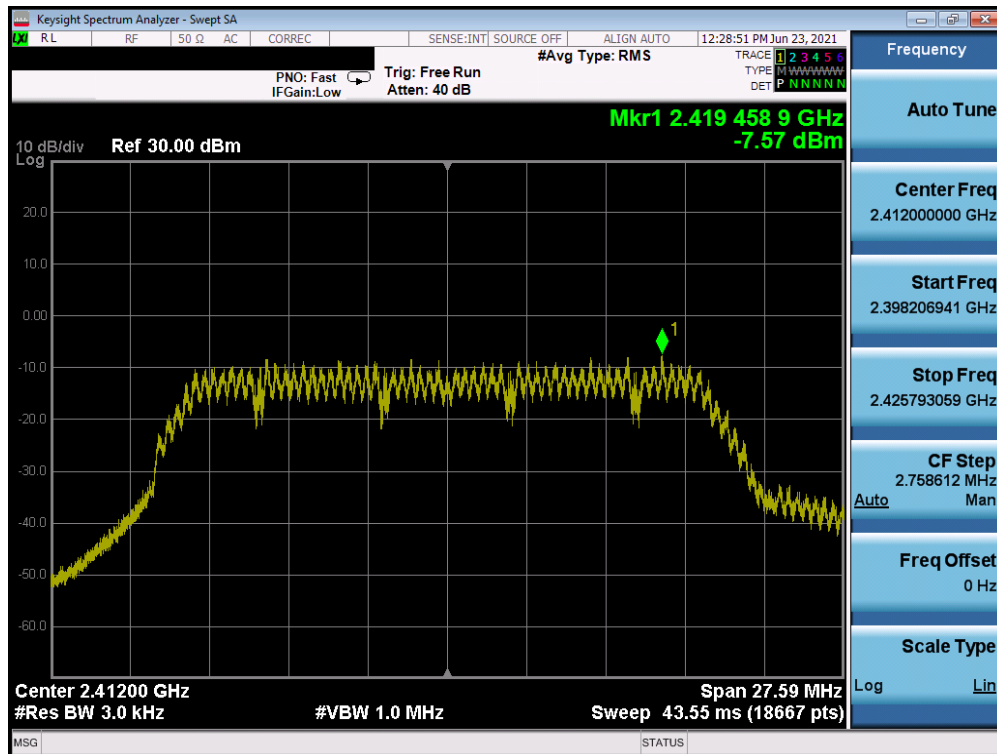
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 30 of 74



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Plot 7-21. Power Spectral Density Plot (802.11n MCS0– Ch. 11)



Plot 7-22. Power Spectral Density Plot (802.11n MCS7 – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are 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 to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6.5/7.2Mbps and 65/72.2Mbps for “n” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None

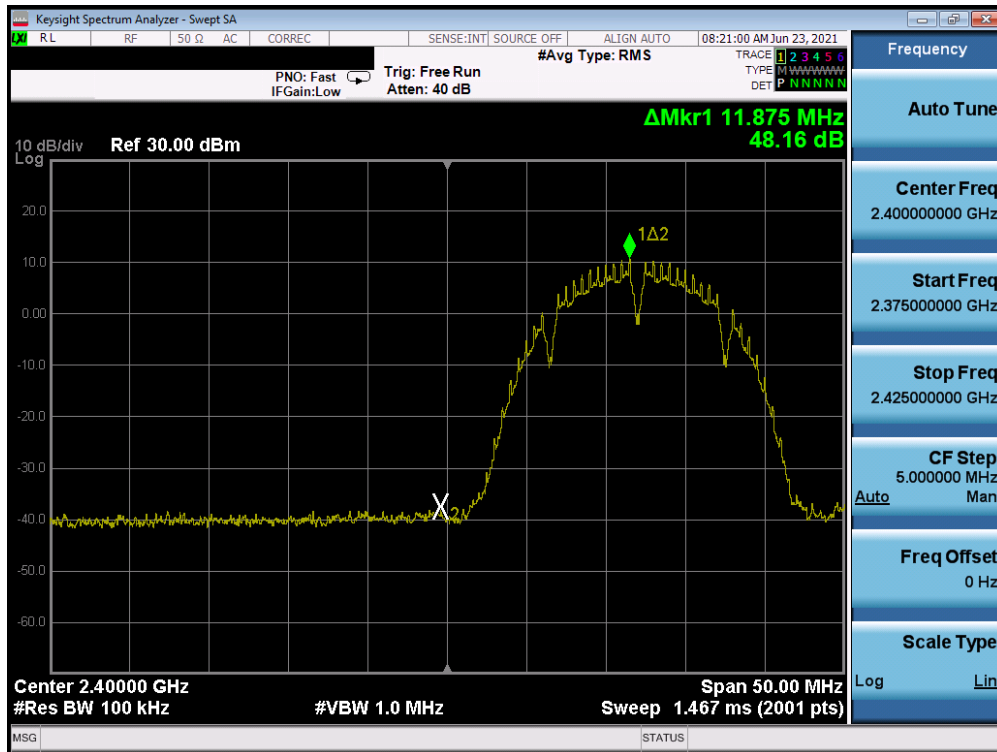
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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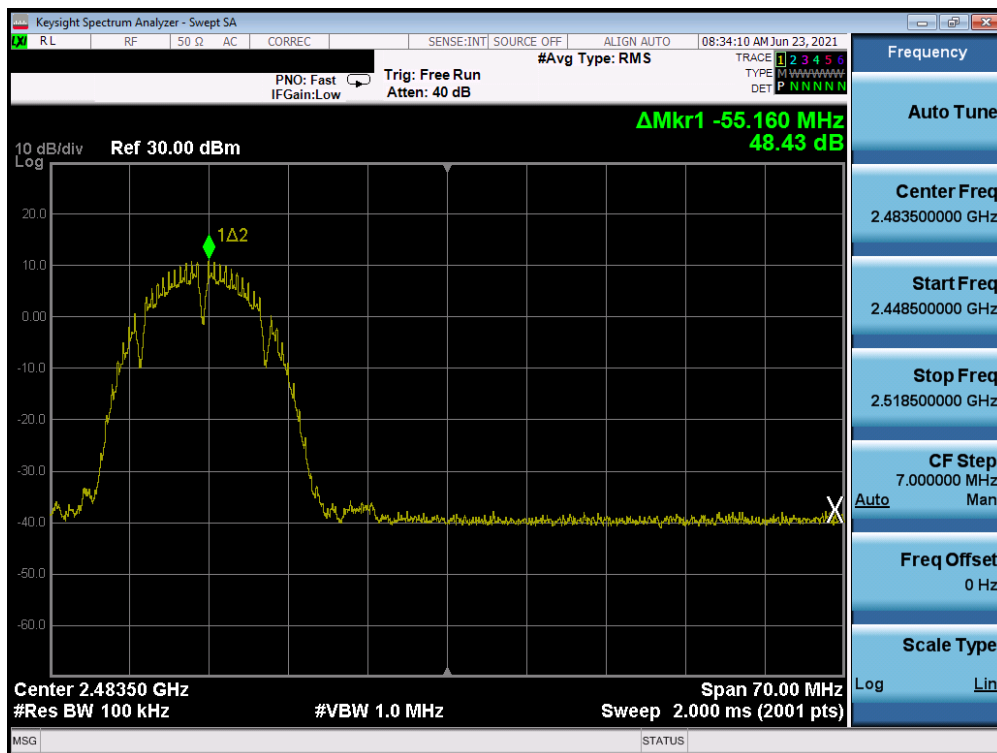
V 10.4 5/21/2021

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Conducted Emissions at the Band Edge

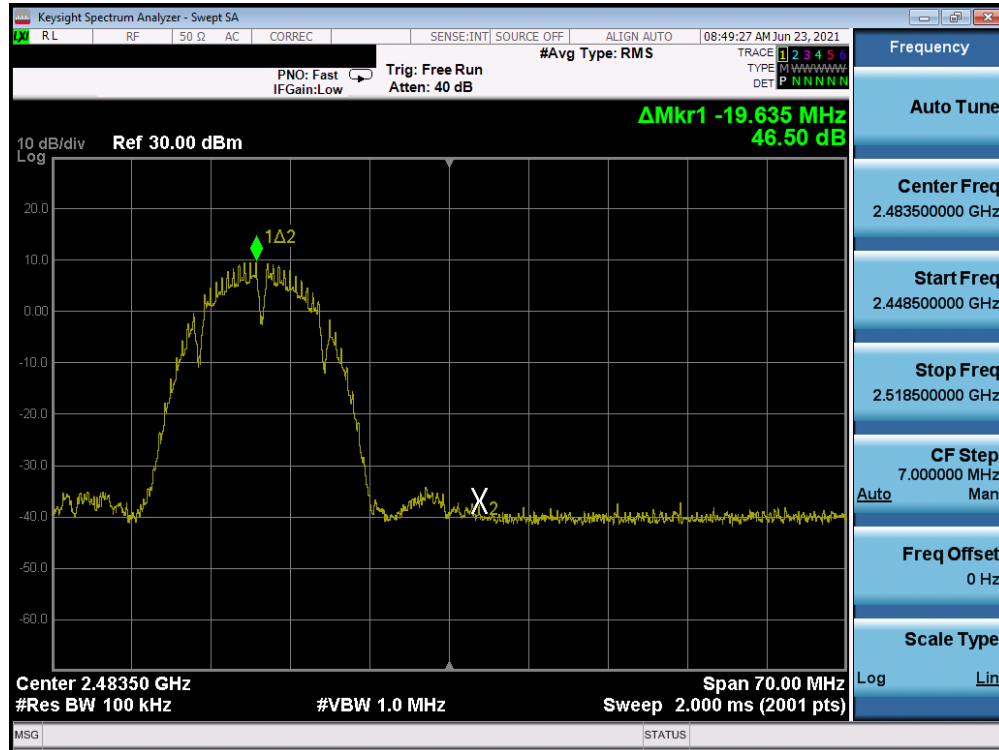


Plot 7-25. Band Edge Plot (802.11b – Ch. 1)

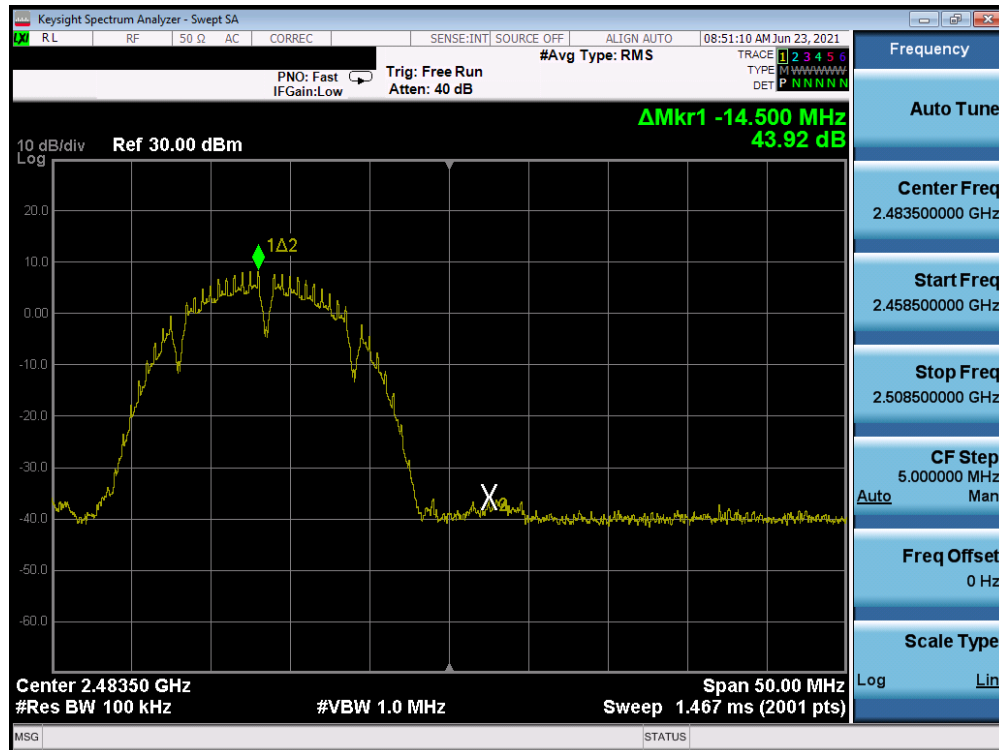


Plot 7-26. Band Edge Plot (802.11b – Ch. 11)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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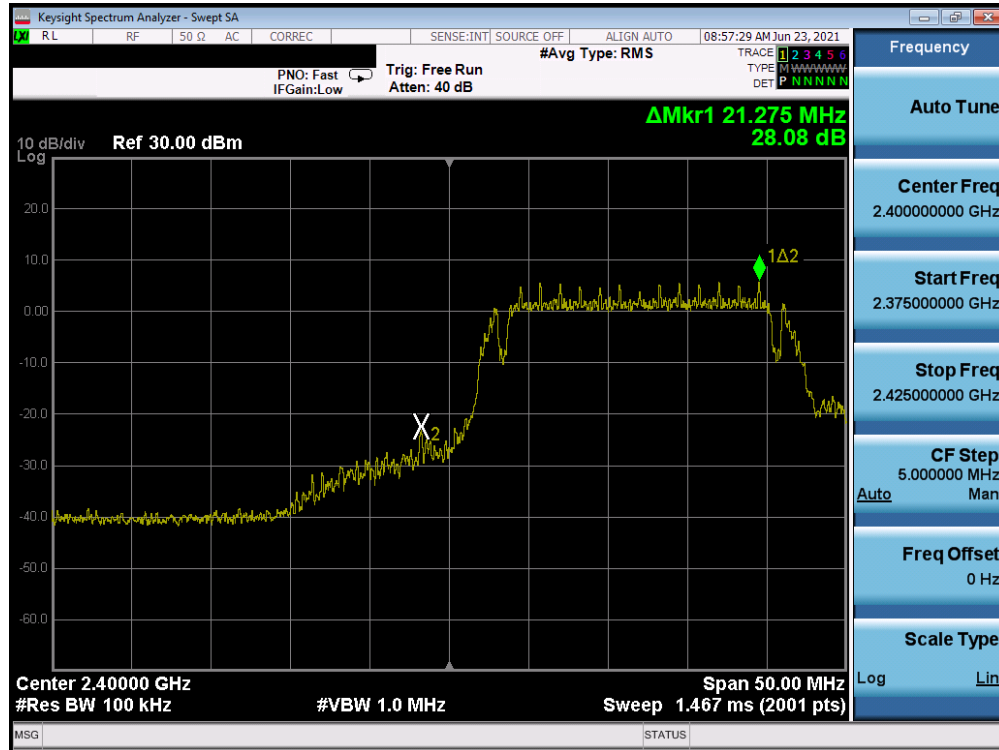


Plot 7-27. Band Edge Plot (802.11b – Ch. 12)

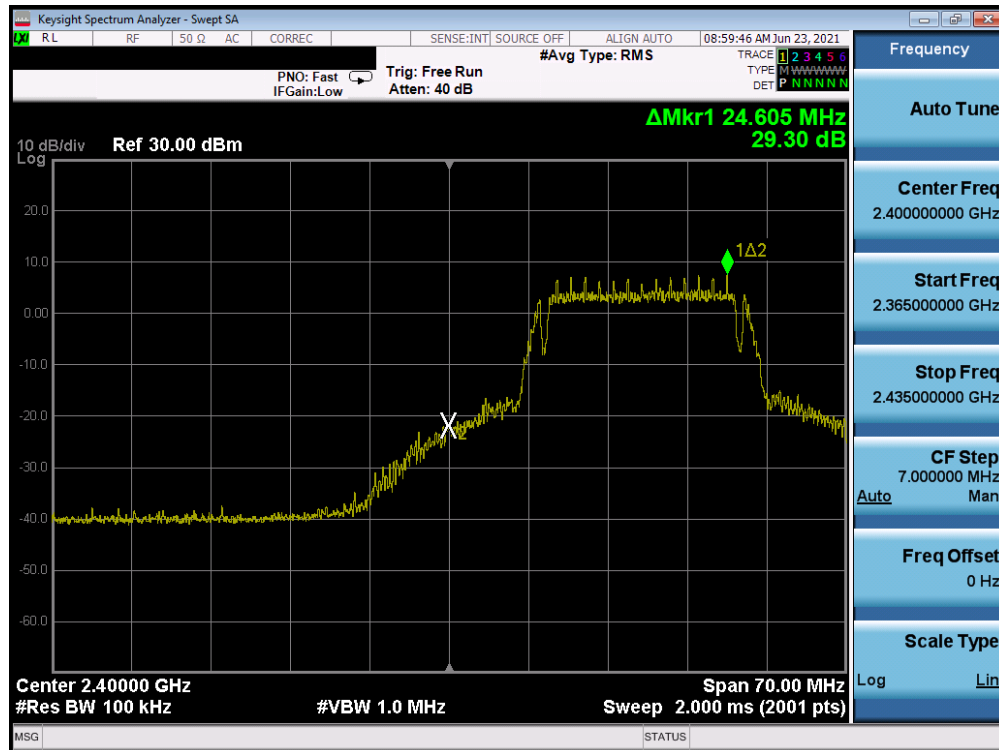


Plot 7-28. Band Edge Plot (802.11b – Ch. 13)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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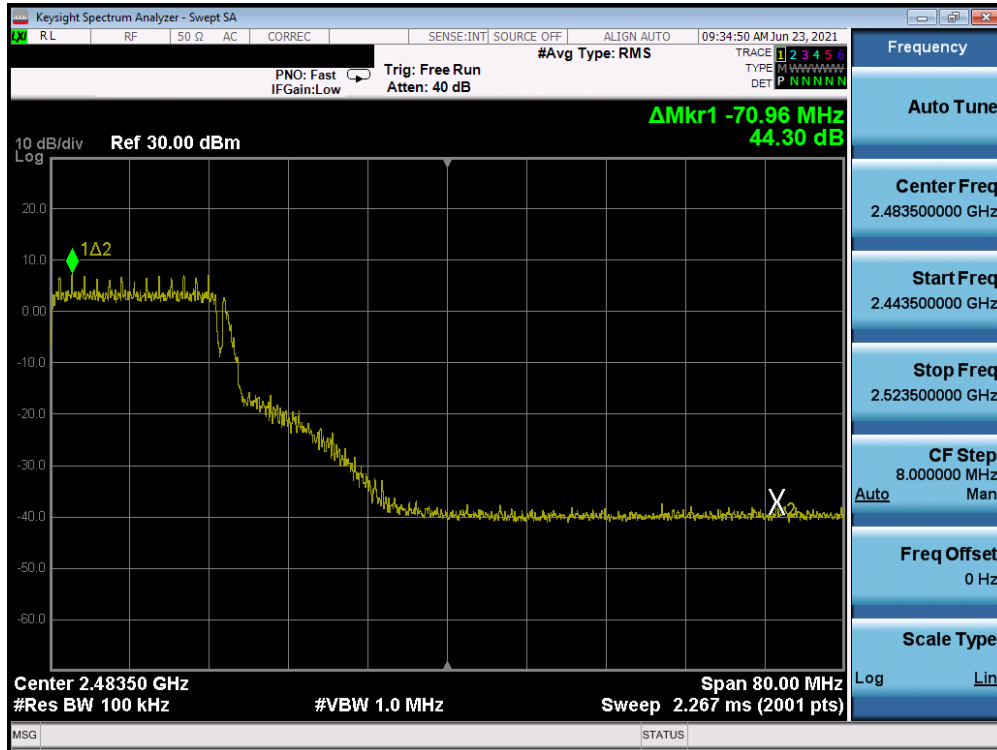


Plot 7-29. Band Edge Plot (802.11g – Ch. 1)

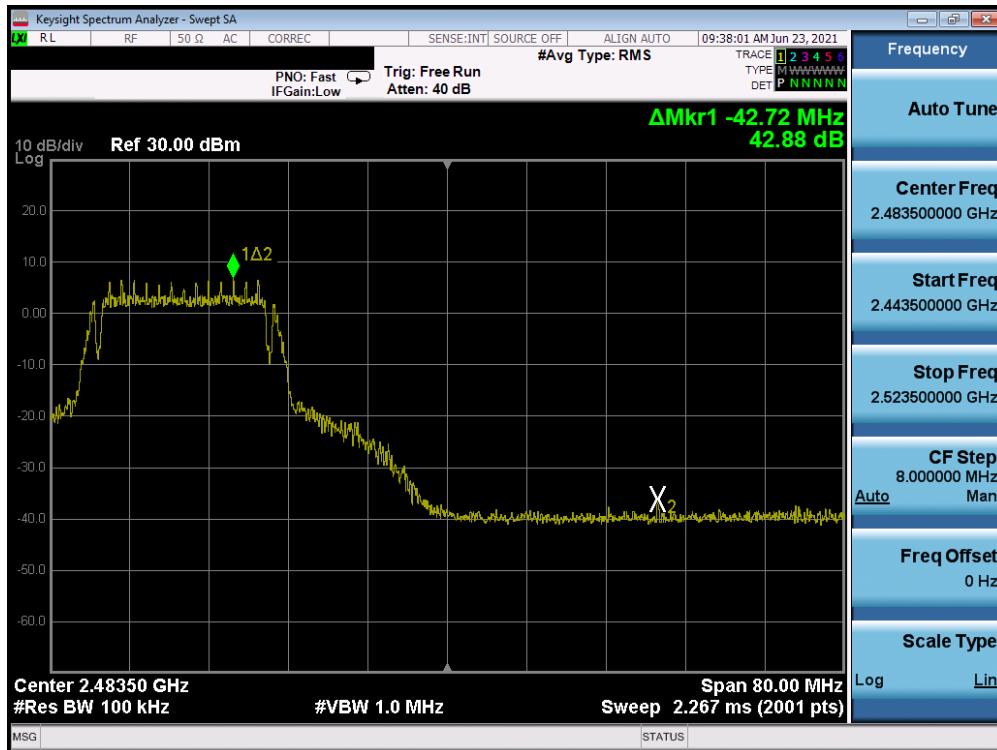


Plot 7-30. Band Edge Plot (802.11g – Ch. 2)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 37 of 74

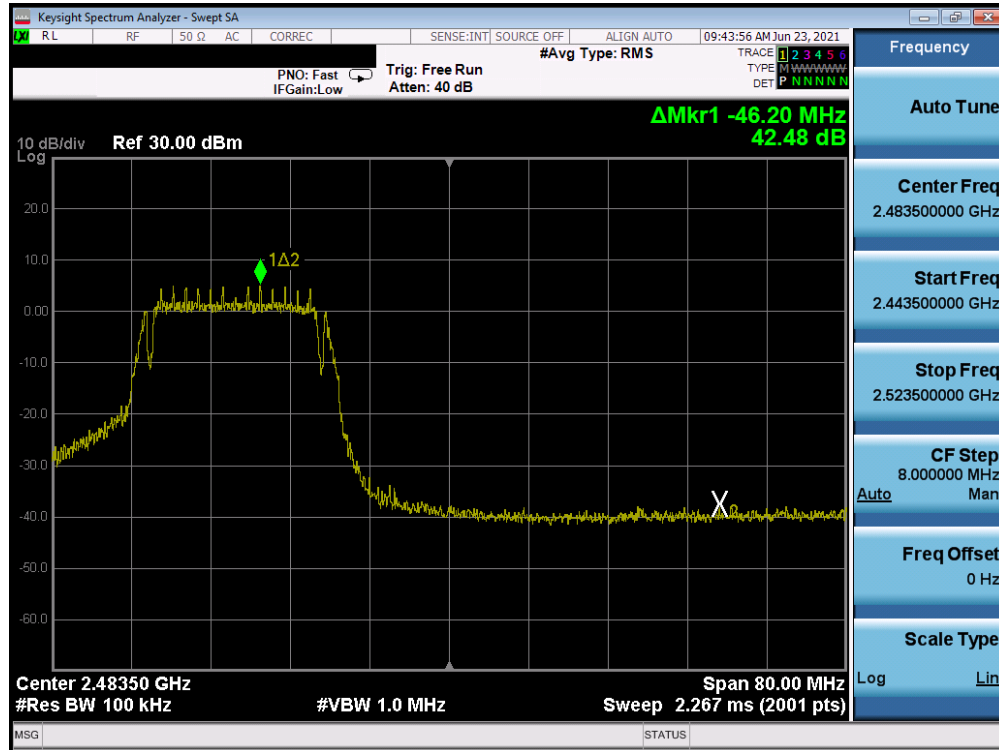


Plot 7-31. Band Edge Plot (802.11g - Ch. 9)

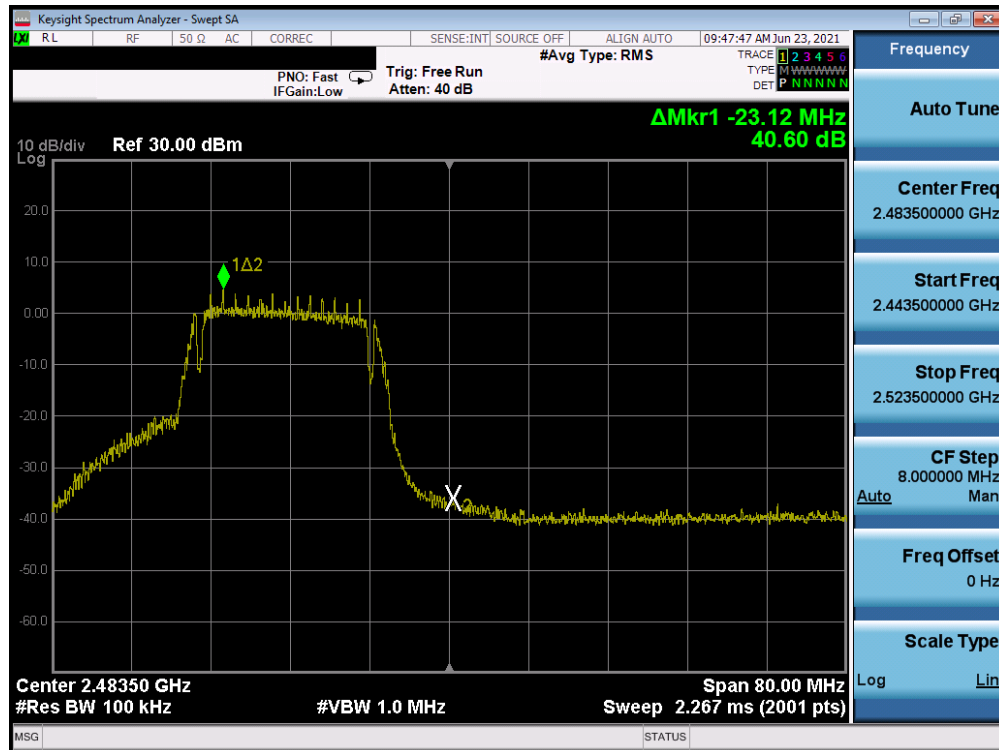


Plot 7-32. Band Edge Plot (802.11g - Ch. 10)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 38 of 74

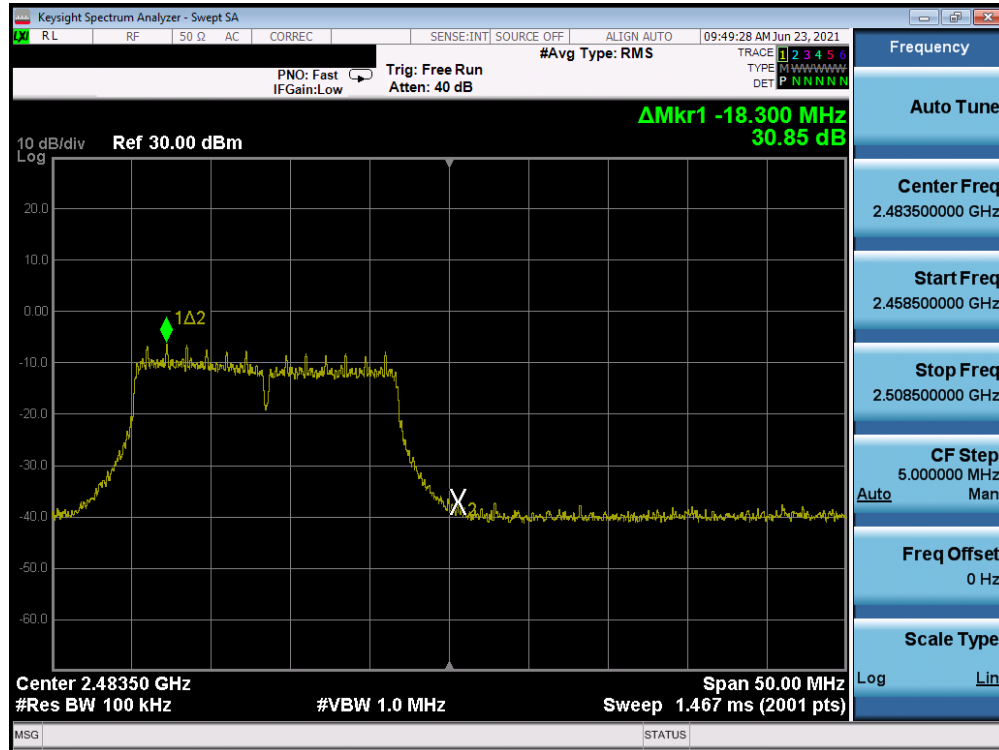


Plot 7-33. Band Edge Plot (802.11g - Ch. 11)

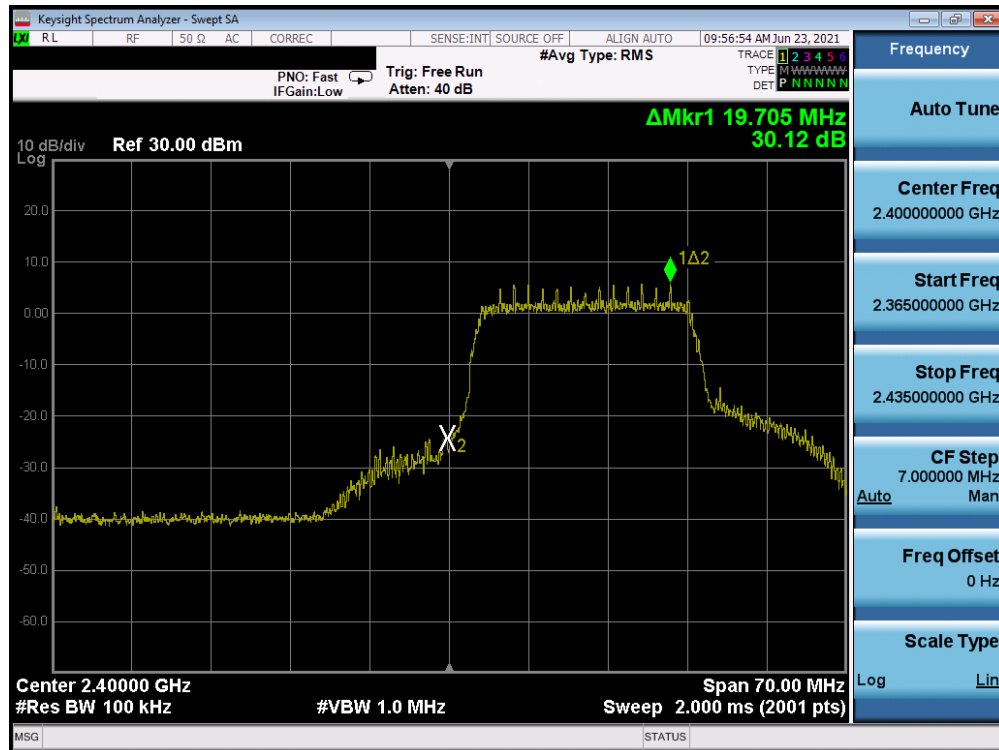


Plot 7-34. Band Edge Plot (802.11g - Ch. 12)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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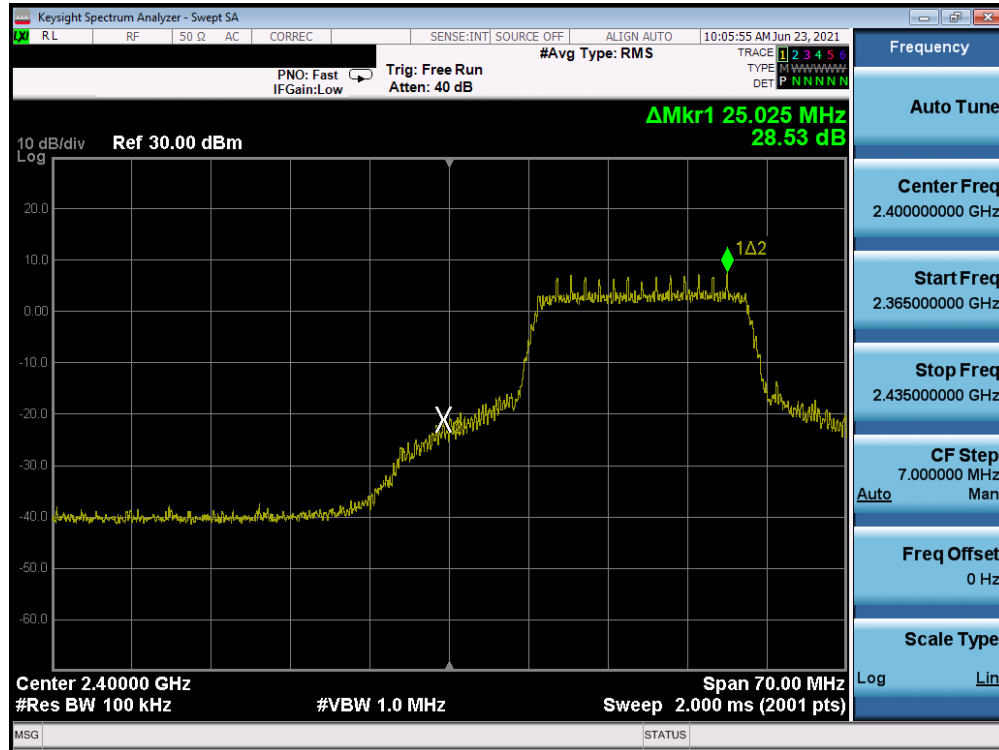


Plot 7-35. Band Edge Plot (802.11g – Ch. 13)

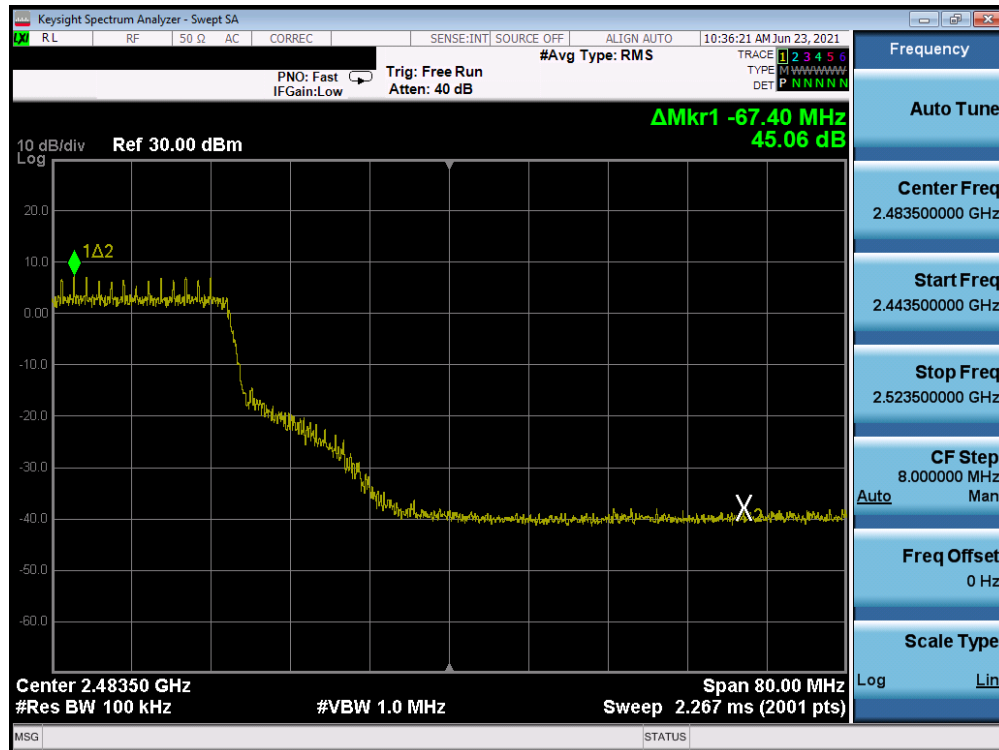


Plot 7-36. Band Edge Plot (802.11n MCS0 – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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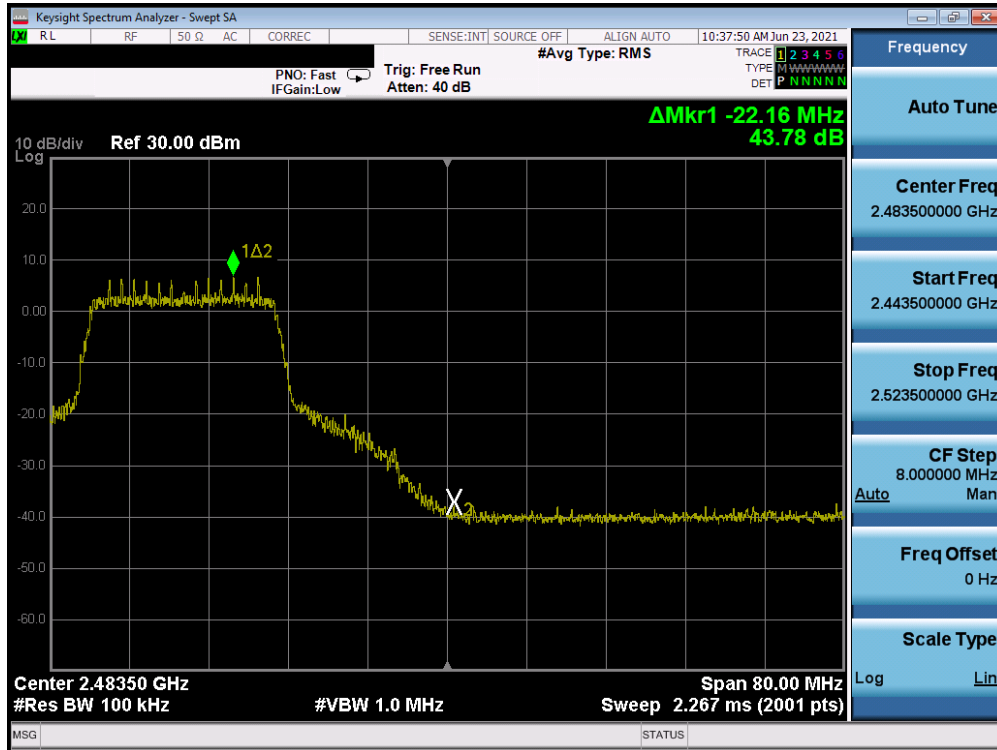


Plot 7-37. Band Edge Plot (802.11n MCS0 – Ch. 2)

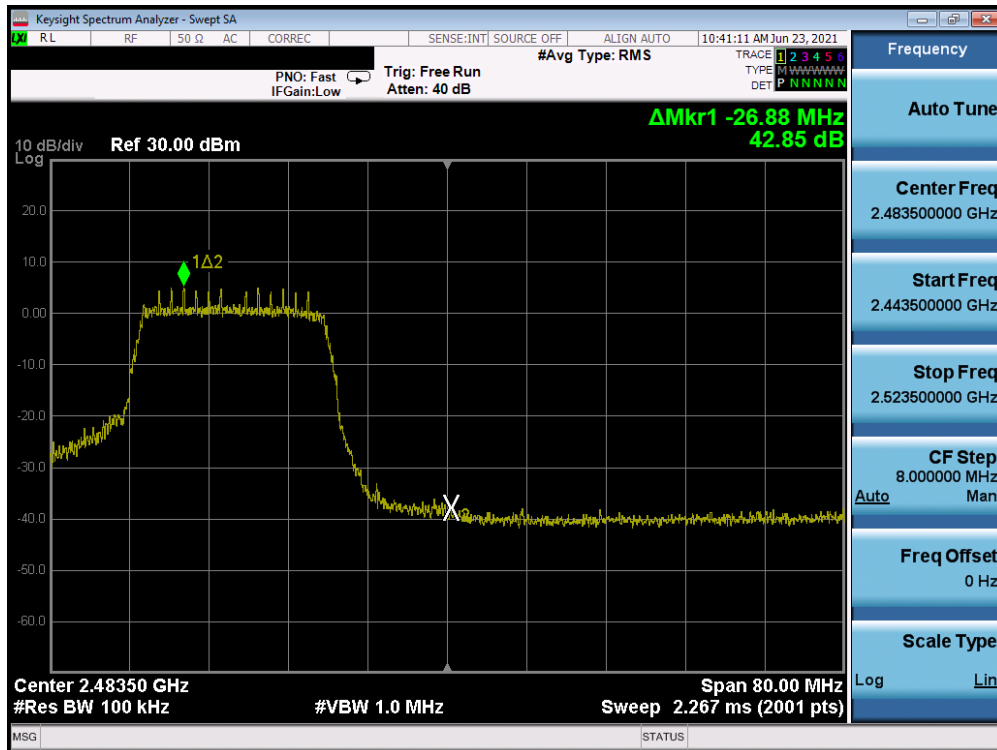


Plot 7-38. Band Edge Plot (802.11n MCS0 – Ch. 9)

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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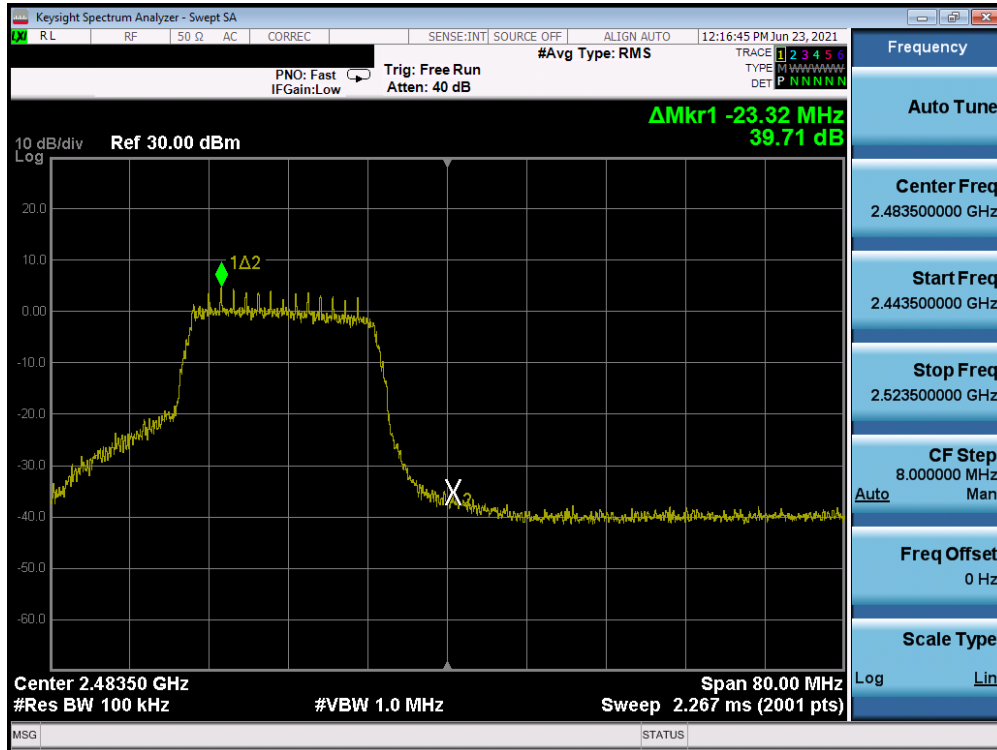


Plot 7-39. Band Edge Plot (802.11n MCS0 – Ch. 10)

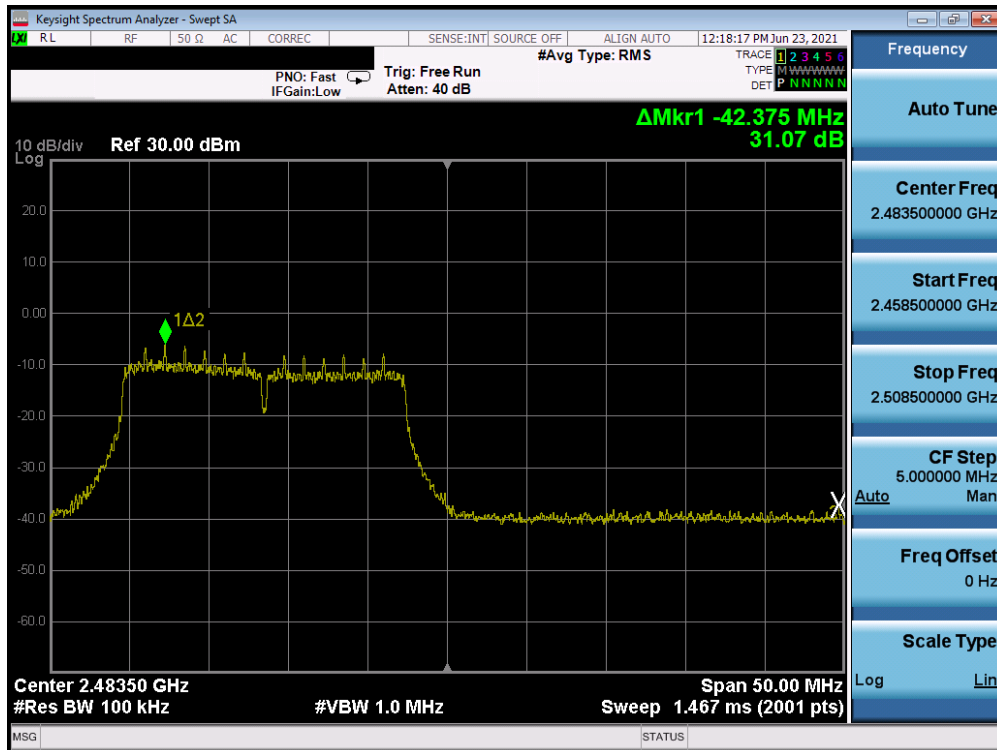


Plot 7-40. Band Edge Plot (802.11n MCS0 – Ch. 11)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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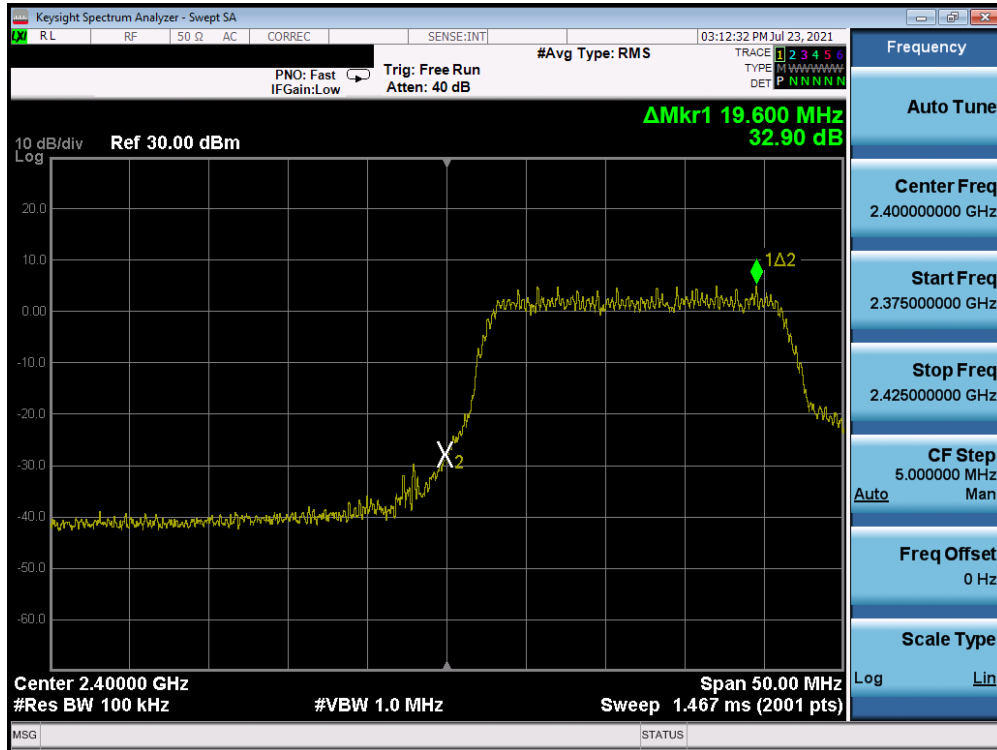


Plot 7-41. Band Edge Plot (802.11n MCS0 – Ch. 12)

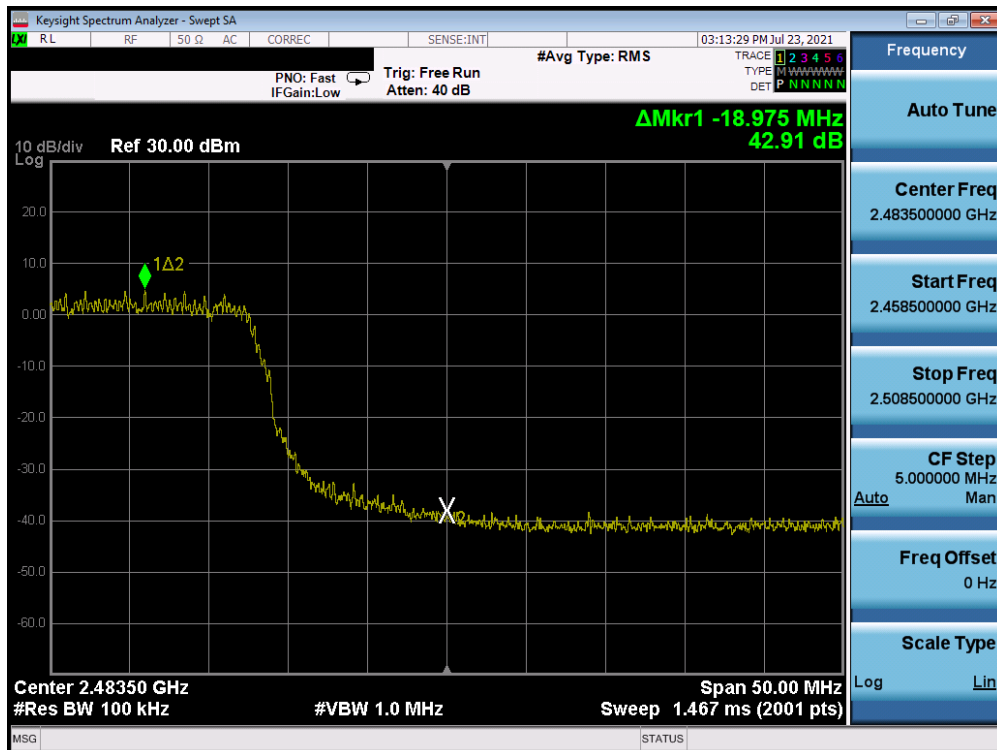


Plot 7-42. Band Edge Plot (802.11n MCS0 – Ch. 13)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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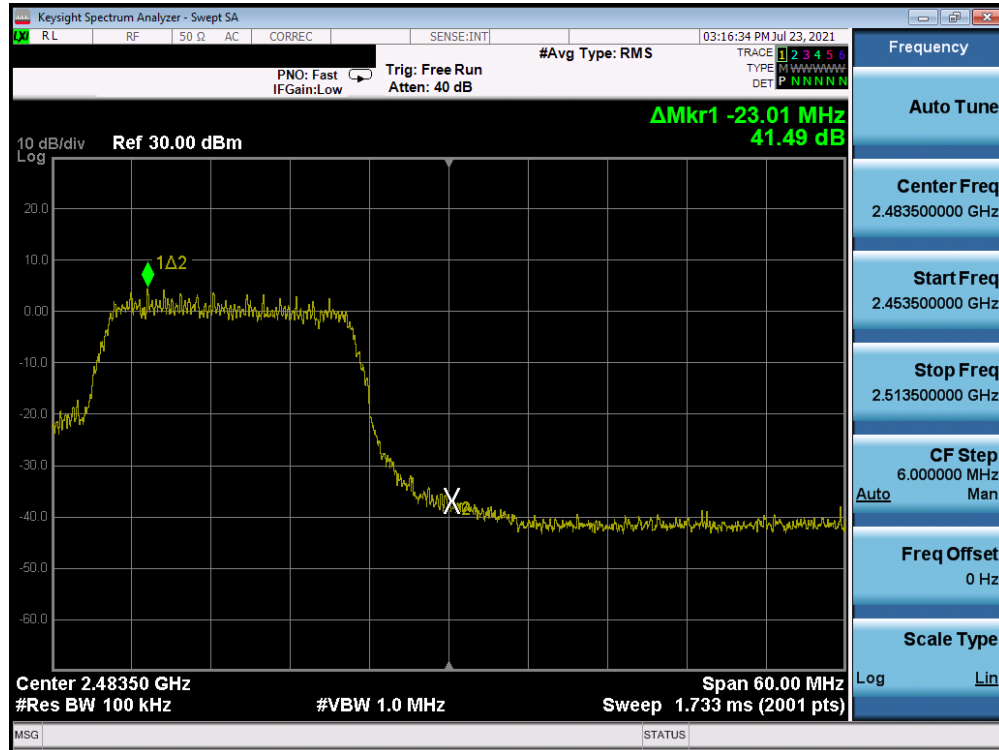


Plot 7-43. Band Edge Plot (802.11n MCS7 – Ch. 1)

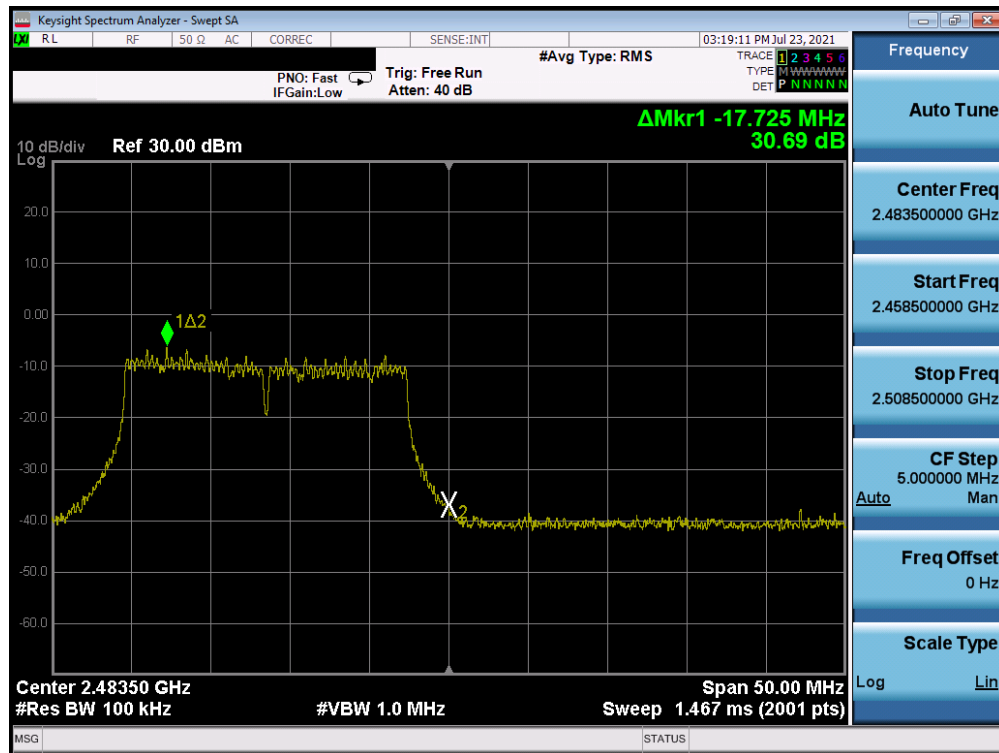


Plot 7-44. Band Edge Plot (802.11n MCS7 – Ch. 11)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-45. Band Edge Plot (802.11n MCS7 – Ch. 12)



Plot 7-46. Band Edge Plot (802.11n MCS7 – Ch. 13)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are 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 to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n”, modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10-2013 – Section 14.3.3
KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = 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 7-5. Test Instrument & Measurement Setup

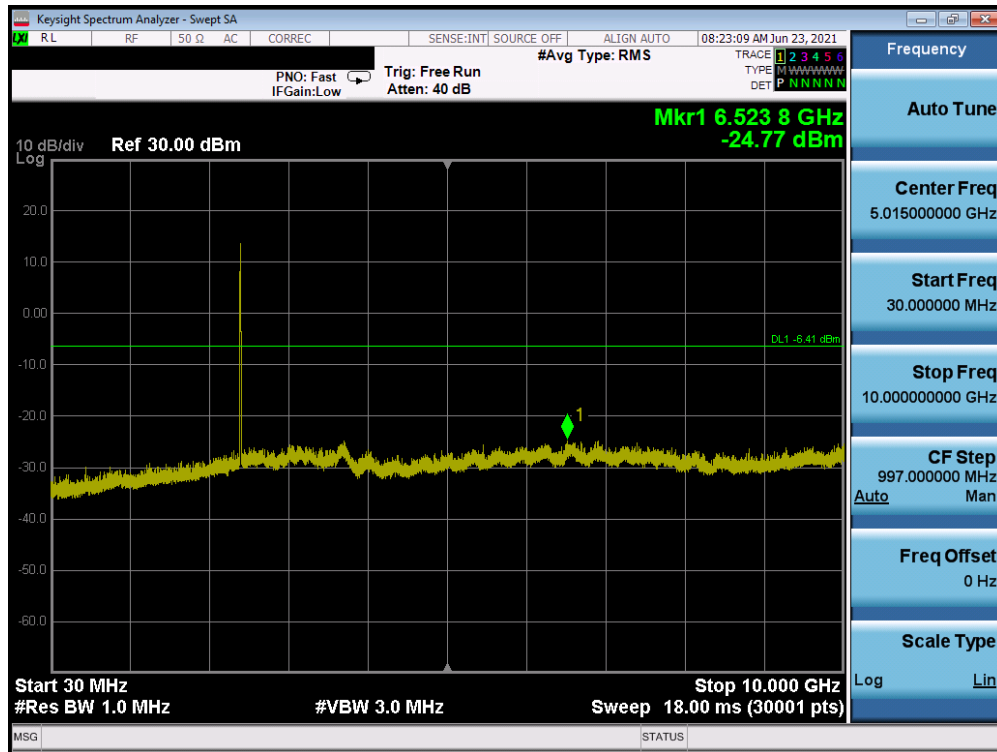
FCC ID: BCG-A2475 IC: 579C-A2475	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 46 of 74

Test Notes

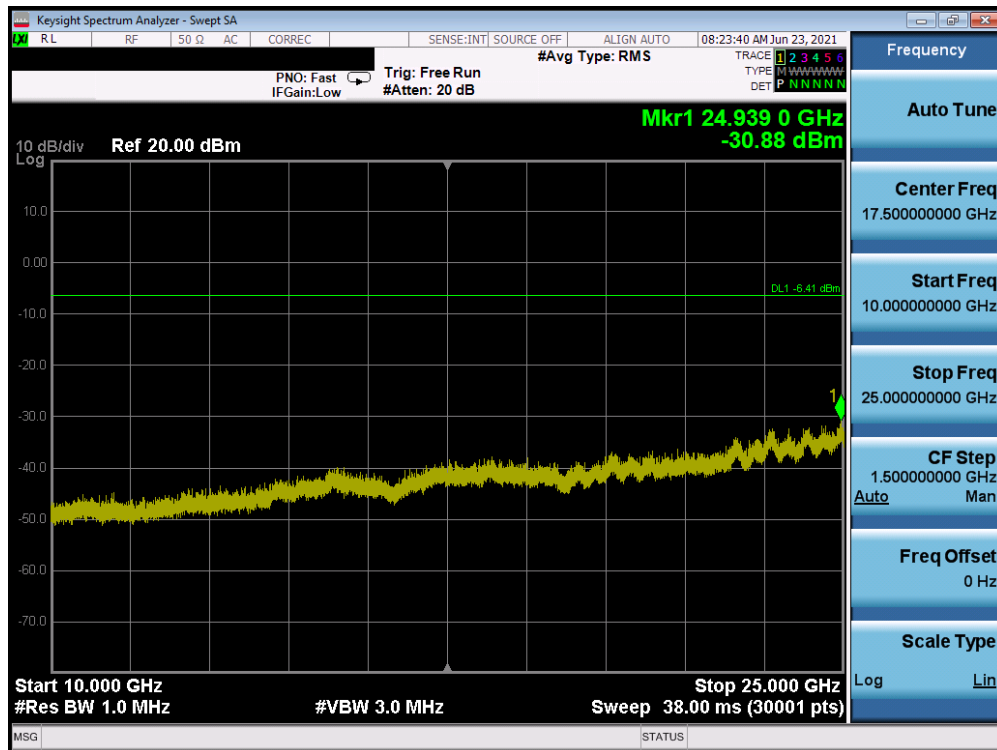
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
5. The unit was tested with all possible modes and only the highest emission is reported.

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Conducted Spurious Emission

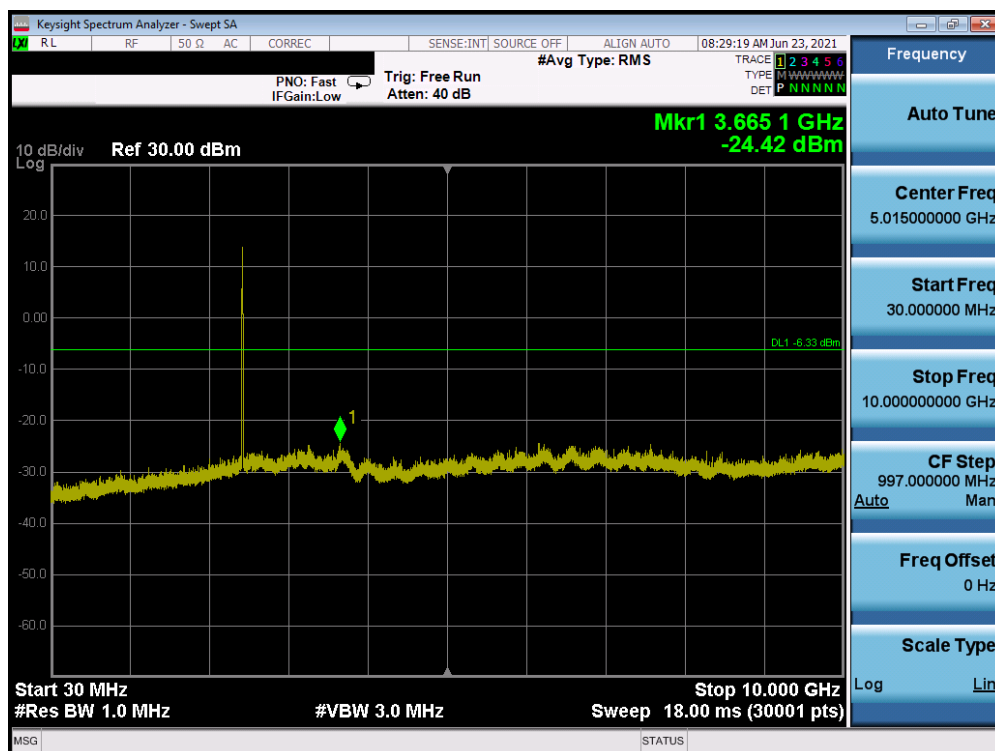


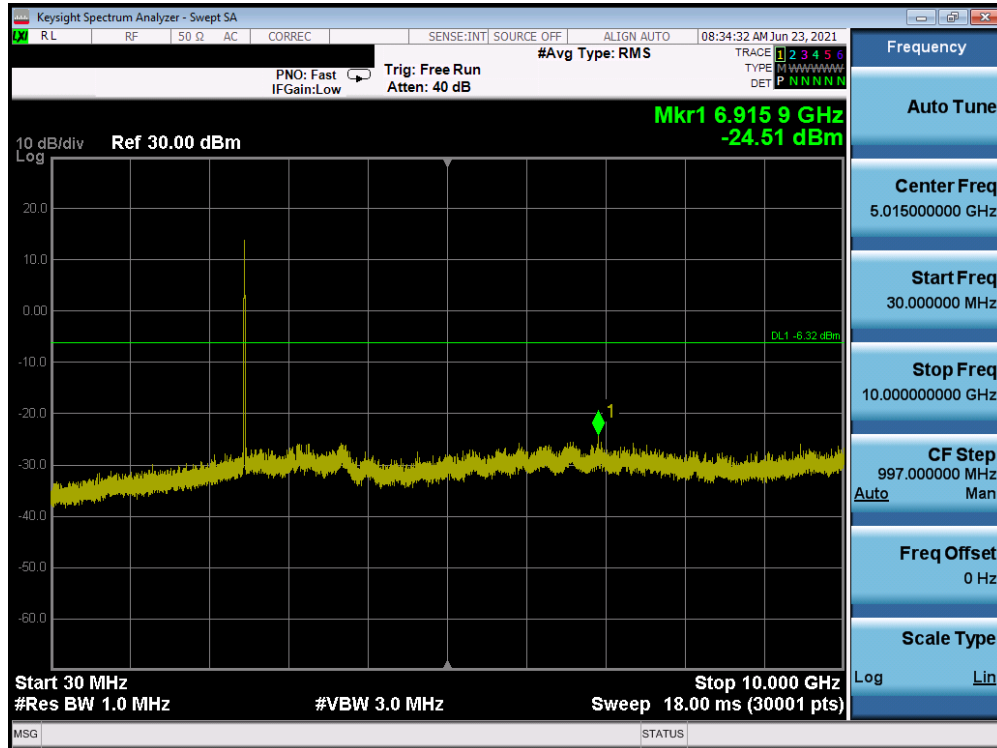
Plot 7-47. Conducted Spurious Plot (802.11b – Ch. 1)



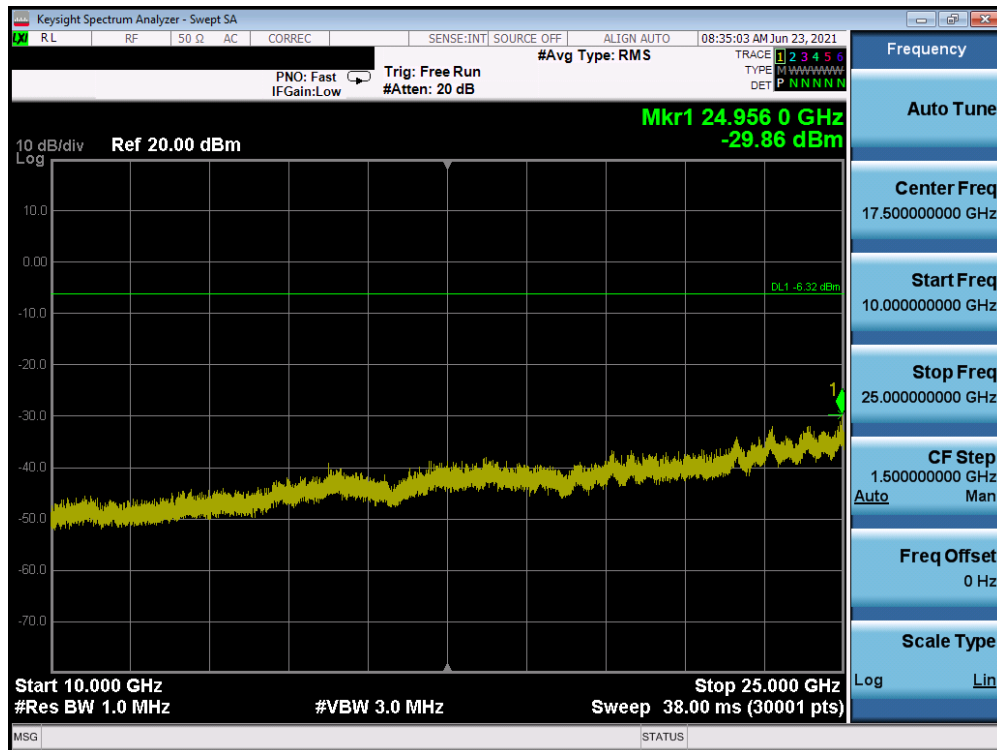
Plot 7-48. Conducted Spurious Plot (802.11b – Ch. 1)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-51. Conducted Spurious Plot (802.11b – Ch. 11)



Plot 7-52. Conducted Spurious Plot (802.11b – Ch. 11)

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7.7 Radiated Spurious Emission Measurements – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-6 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-6. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3
 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

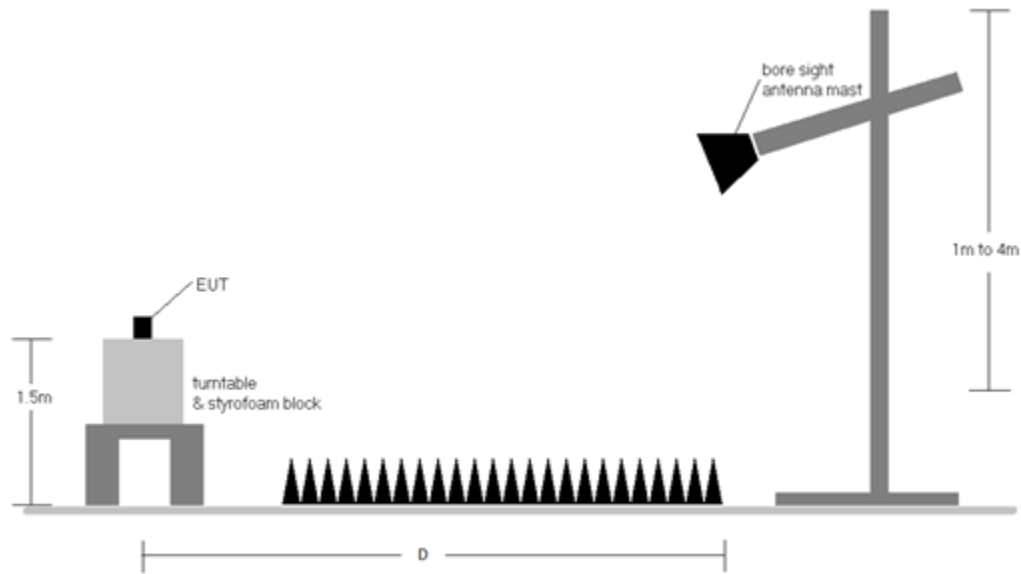


Figure 7-6. Radiated Measurement Setup

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamp Gain} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}_{\mu\text{V/m}}] - \text{Limit} [\text{dB}_{\mu\text{V/m}}]$

Radiated Band Edge Measurement Offset

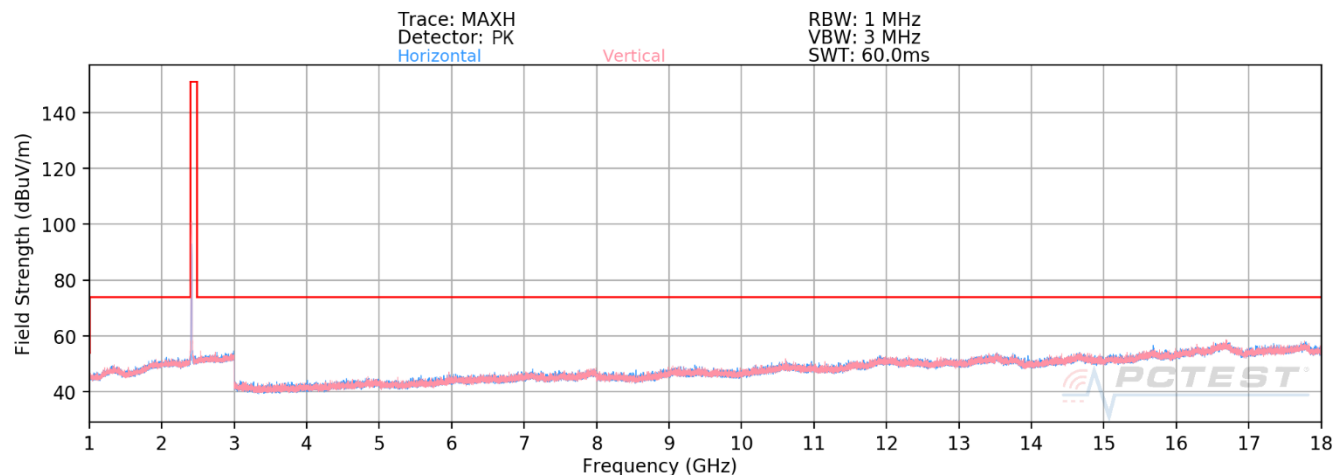
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.2 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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7.7.1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



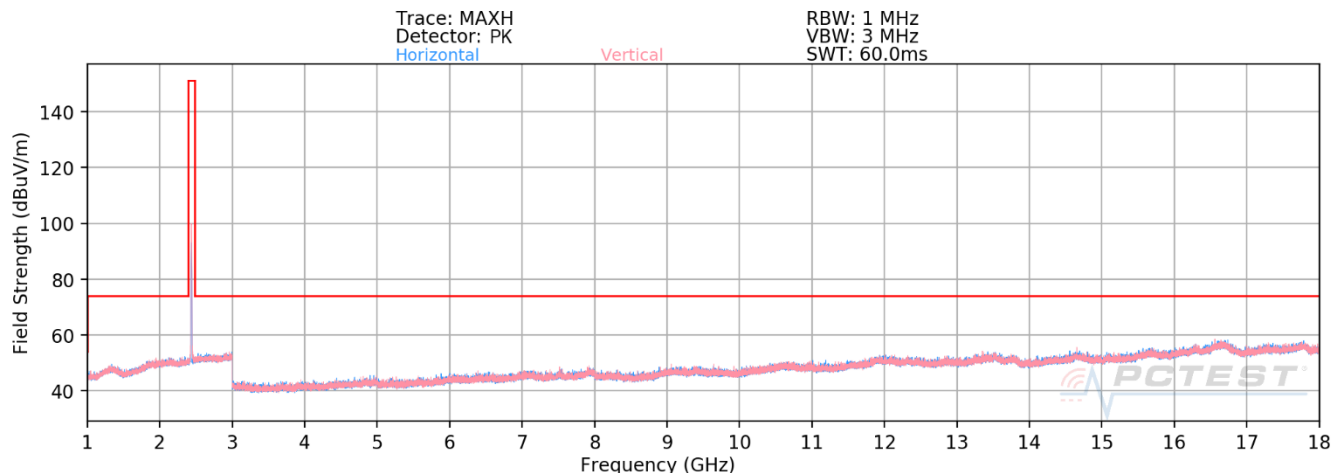
Plot 7-53. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 1)

Mode: 802.11b
Data Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	-	-	-81.65	8.25	33.60	53.98	-20.38
4824.00	Peak	H	-	-	-70.67	8.25	44.58	73.98	-29.40
12060.00	Avg	H	-	-	-83.74	18.11	41.37	53.98	-12.61
12060.00	Peak	H	-	-	-71.98	18.11	53.13	73.98	-20.85

Table 7-7. Radiated Spurious Emissions Measurements

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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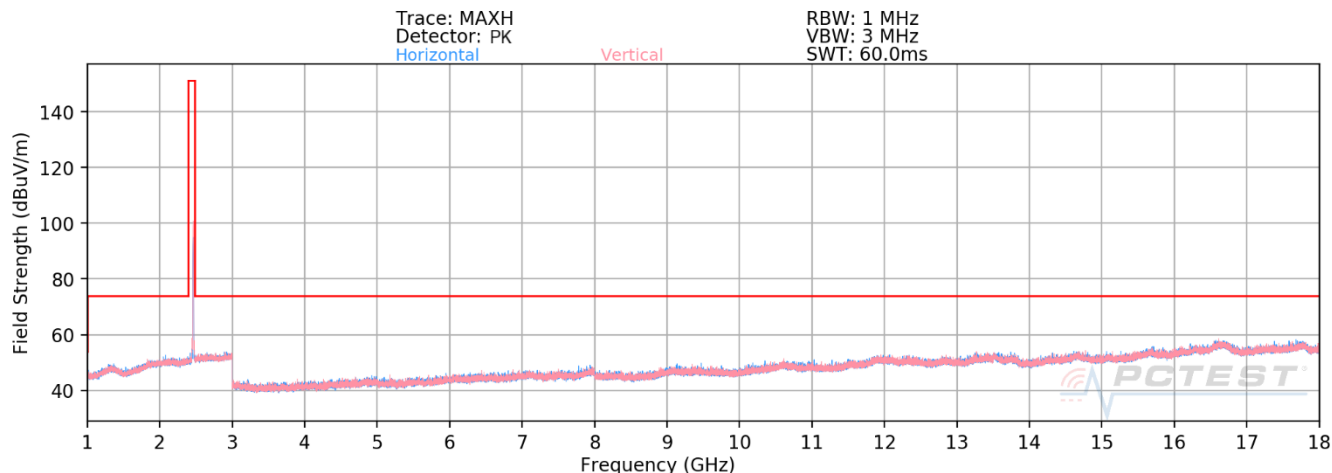
Plot 7-54. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 6)

Mode: 802.11b
Data Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.55	8.13	33.58	53.98	-20.40
4874.00	Peak	H	-	-	-70.03	8.13	45.10	73.98	-28.88
7311.00	Avg	H	273	129	-79.82	11.66	38.84	53.98	-15.14
7311.00	Peak	H	273	129	-70.65	11.66	48.01	73.98	-25.97
12185.00	Avg	H	-	-	-83.96	17.85	40.89	53.98	-13.08
12185.00	Peak	H	-	-	-72.54	17.85	52.31	73.98	-21.66

Table 7-8. Radiated Spurious Emissions Measurements

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-55. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 11)

Mode: 802.11b
Data Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

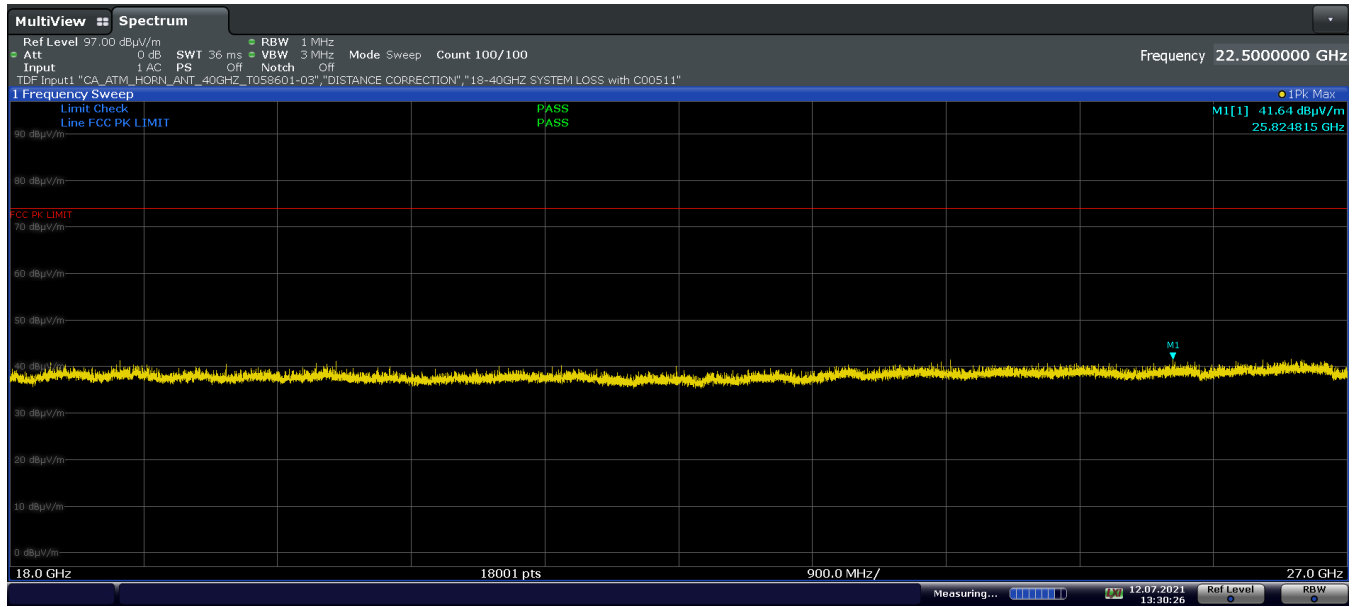
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.49	8.00	33.51	53.98	-20.47
4924.00	Peak	H	-	-	-70.55	8.00	44.45	73.98	-29.53
7386.00	Avg	H	262	36	-81.03	12.14	38.11	53.98	-15.87
7386.00	Peak	H	262	36	-70.53	12.14	48.61	73.98	-25.37
12310.00	Avg	H	-	-	-84.62	18.56	40.94	53.98	-13.04
12310.00	Peak	H	-	-	-73.42	18.56	52.14	73.98	-21.84

Table 7-9. Radiated Spurious Emissions Measurements

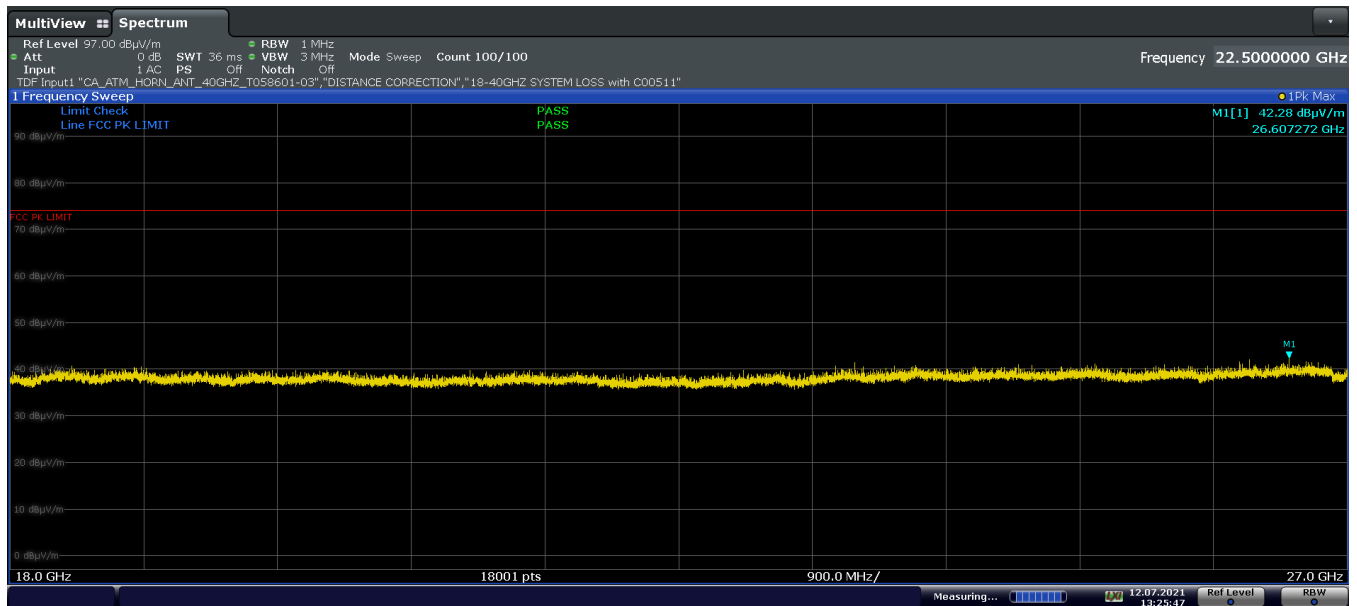
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 56 of 74

Radiated Spurious Emissions – Above 18GHz

\$15.209; RSS-Gen [8.9]



Plot 7-56. Radiated Spurious Plot above 18GHz (802.11b – Ch. 6 Pol H)



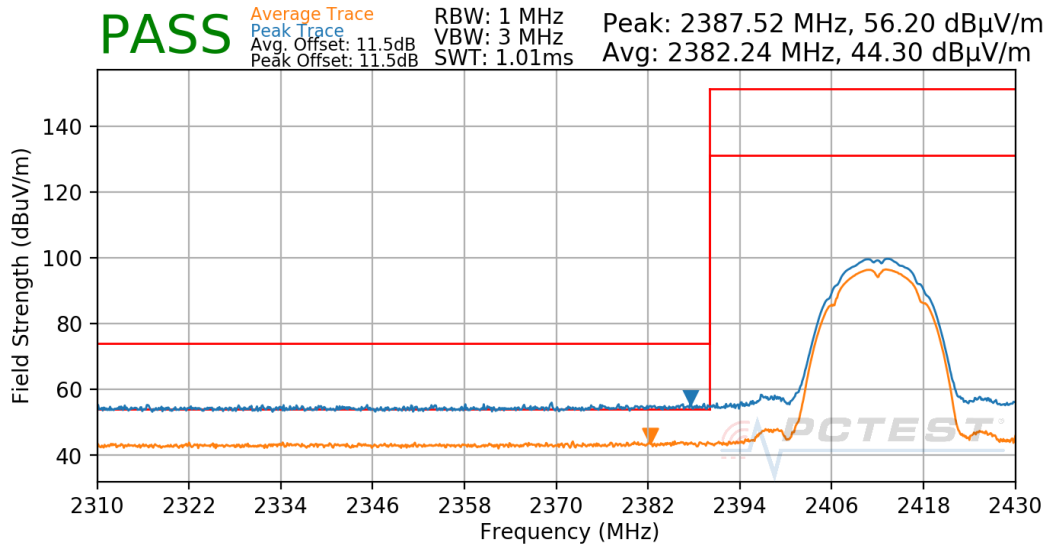
Plot 7-57. Radiated Spurious Plot above 18GHz (802.11b – Ch. 6 Pol V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 57 of 74

7.7.2 Radiated Restricted Band Edge Measurements

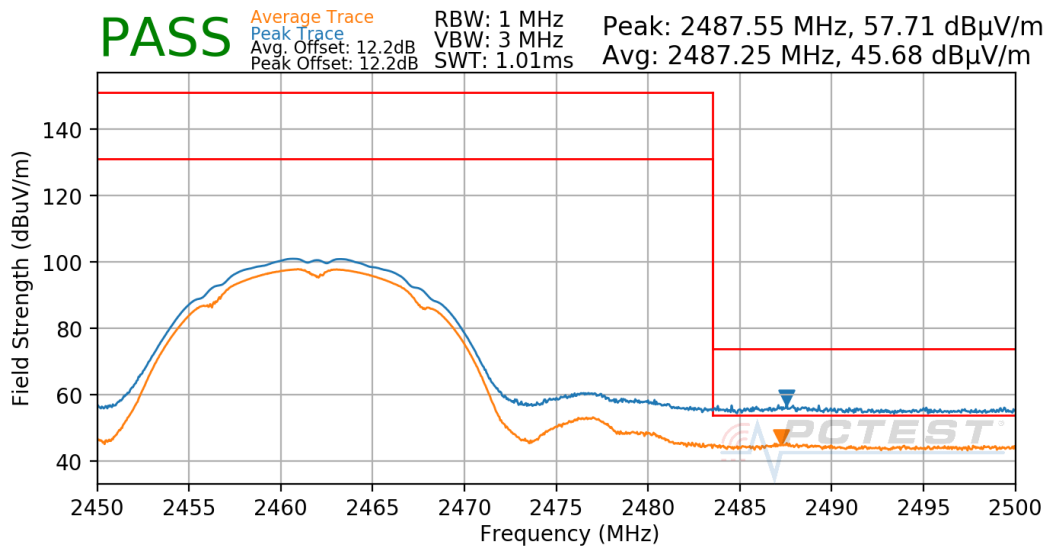
§15.205 §15.209; RSS-Gen [8.9]

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-58. Radiated Restricted Lower Band Edge Measurement

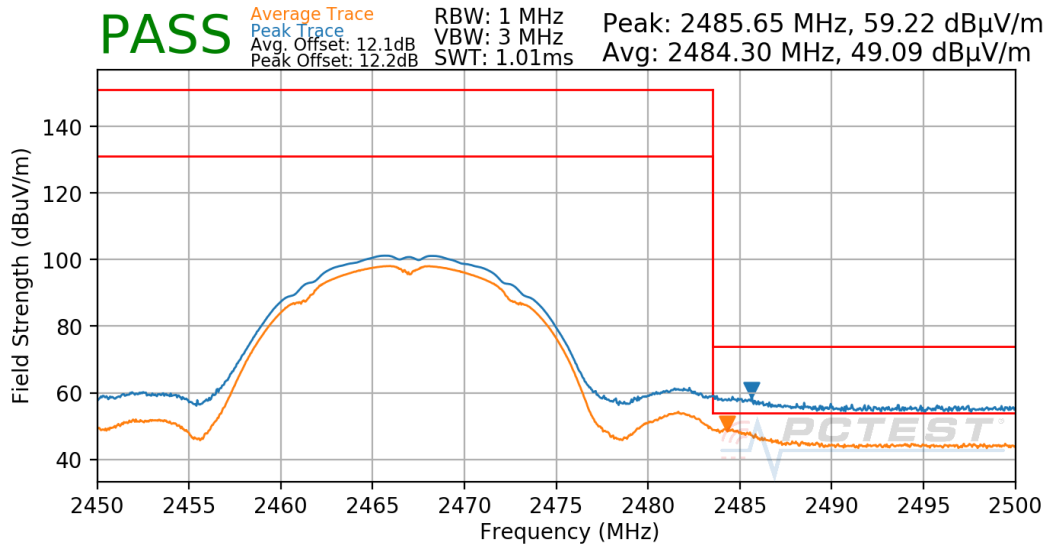
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-59. Radiated Restricted Upper Band Edge Measurement

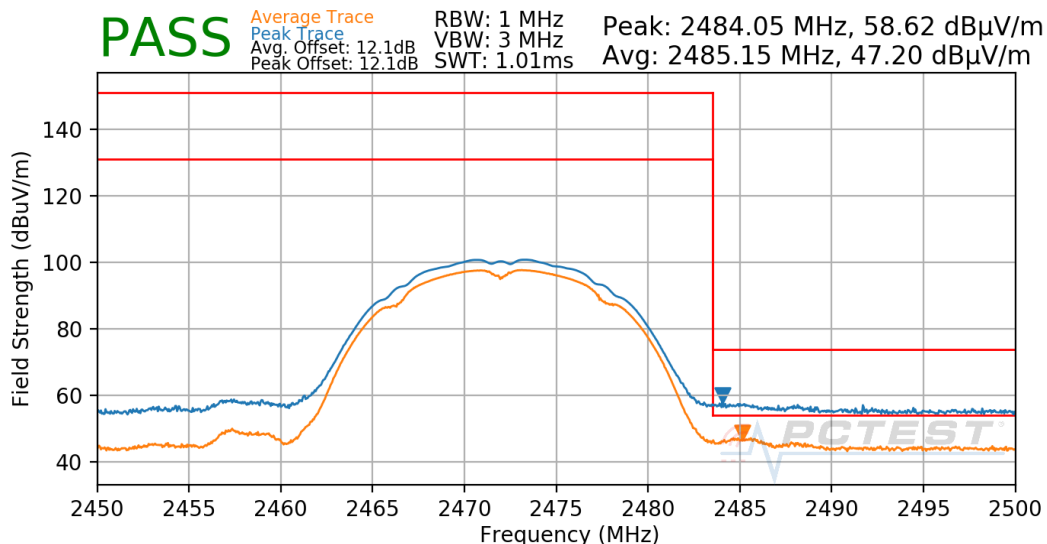
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 58 of 74

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-60. Radiated Restricted Upper Band Edge Measurement

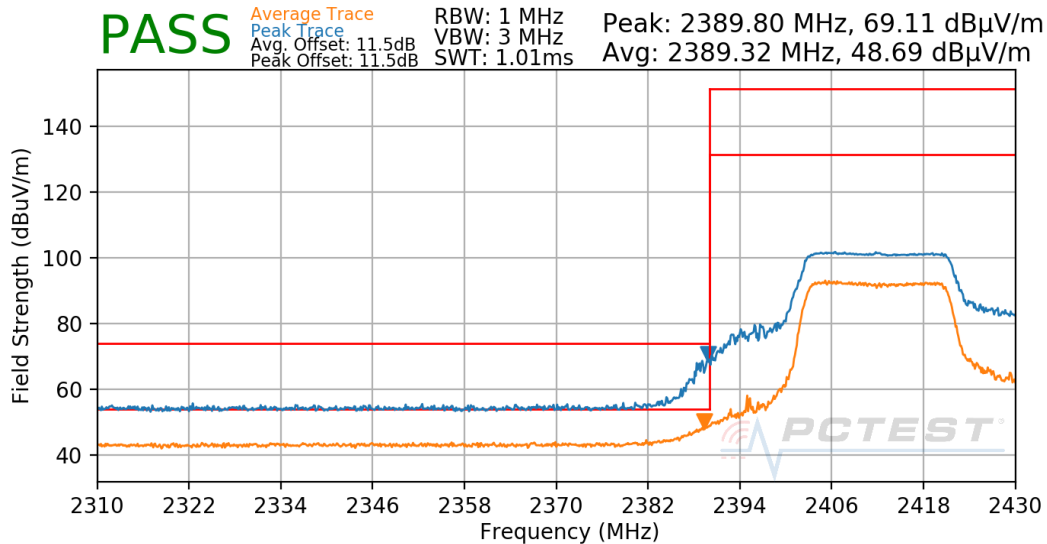
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-61. Radiated Restricted Upper Band Edge Measurement

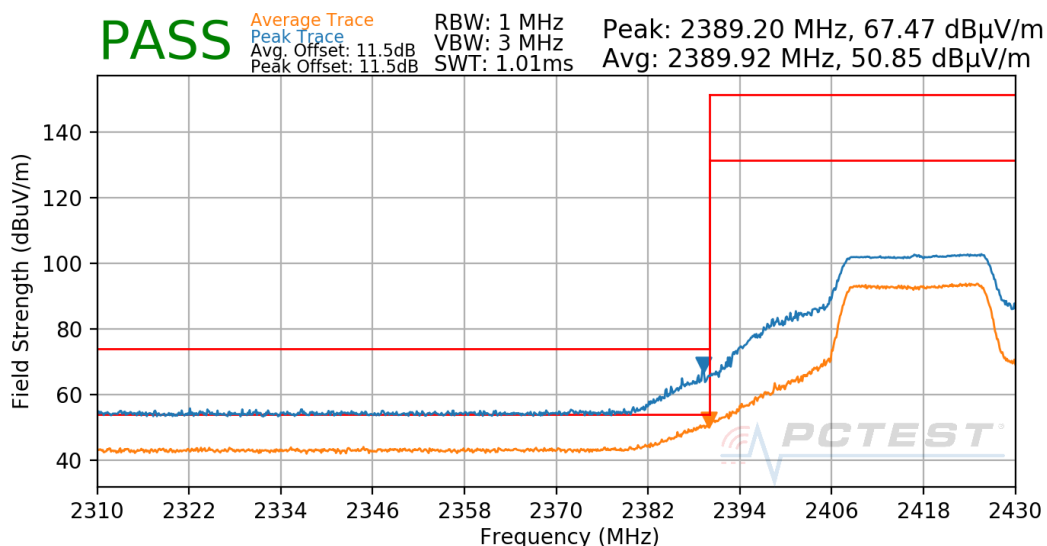
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 59 of 74

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-62. Radiated Restricted Lower Band Edge Measurement

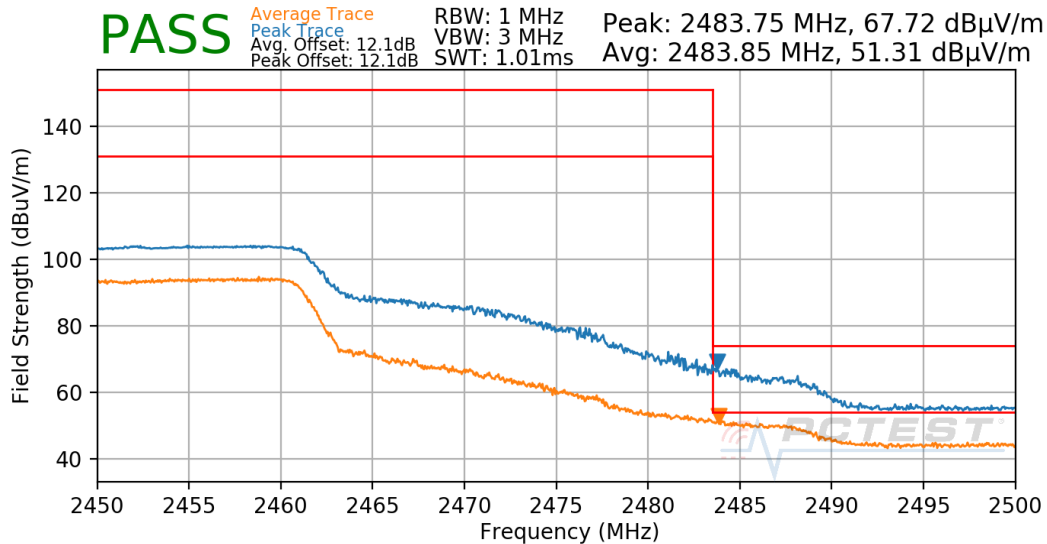
Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-63. Radiated Restricted Lower Band Edge Measurement

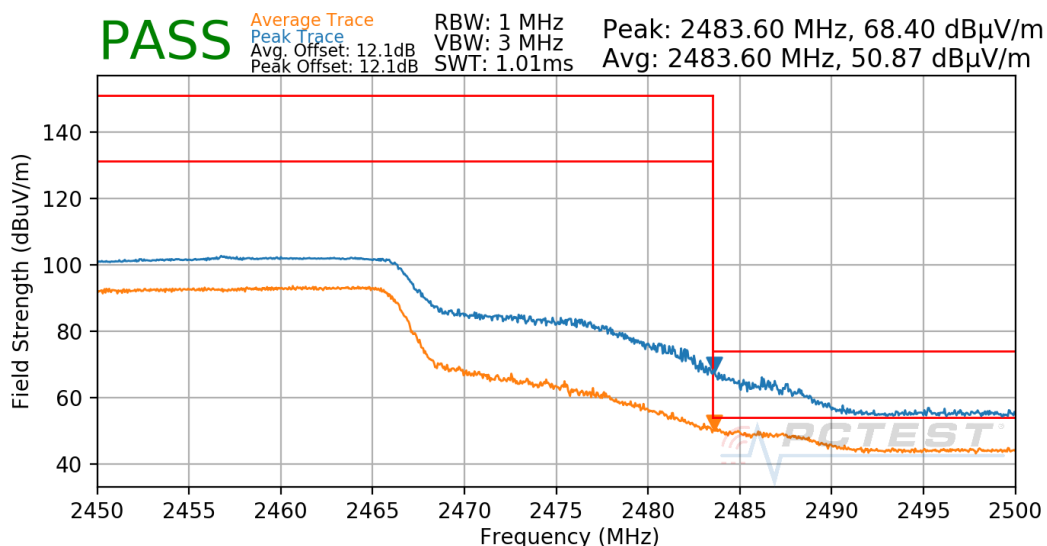
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 60 of 74

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-64. Radiated Restricted Upper Band Edge Measurement

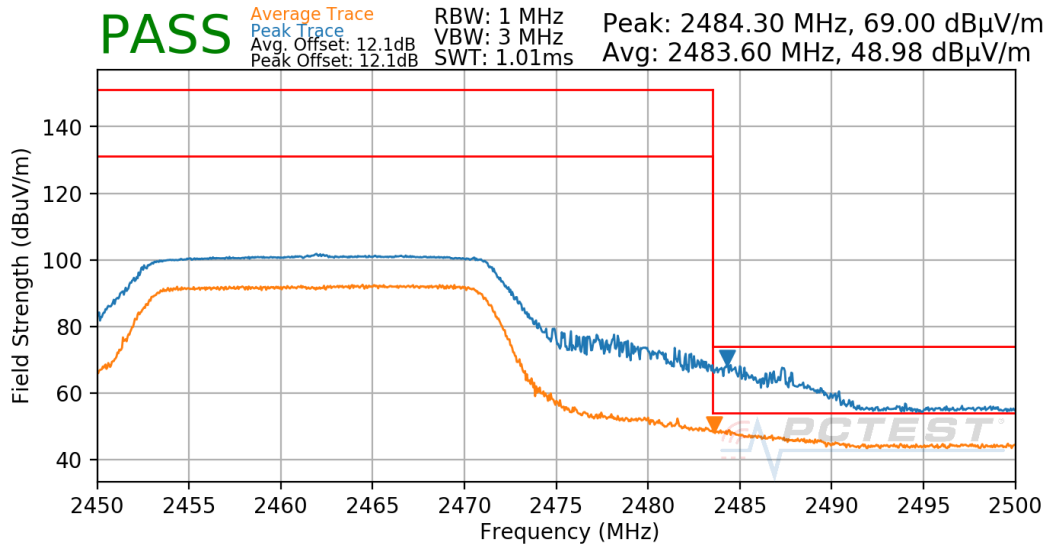
Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-65. Radiated Restricted Upper Band Edge Measurement

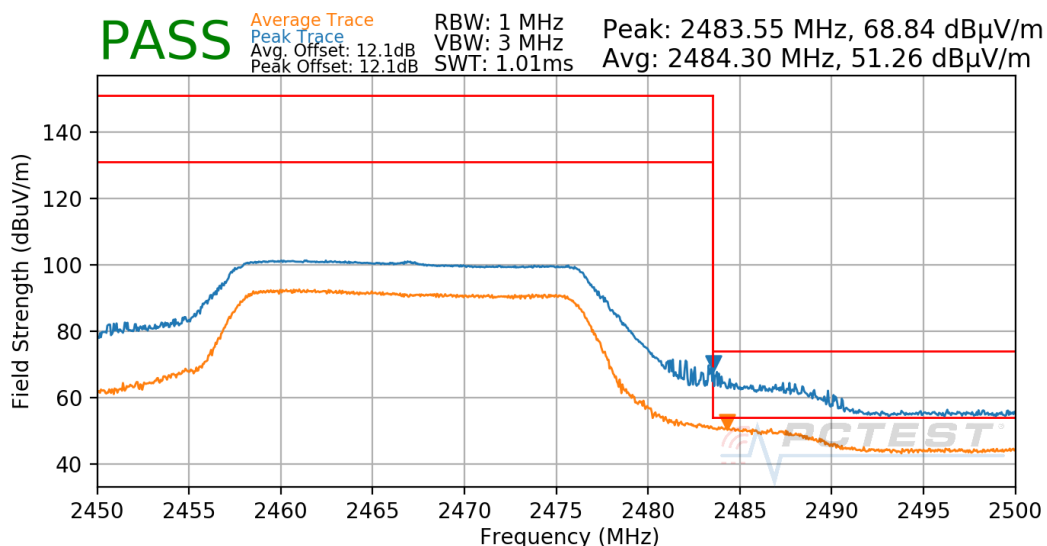
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 61 of 74

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-66. Radiated Restricted Upper Band Edge Measurement

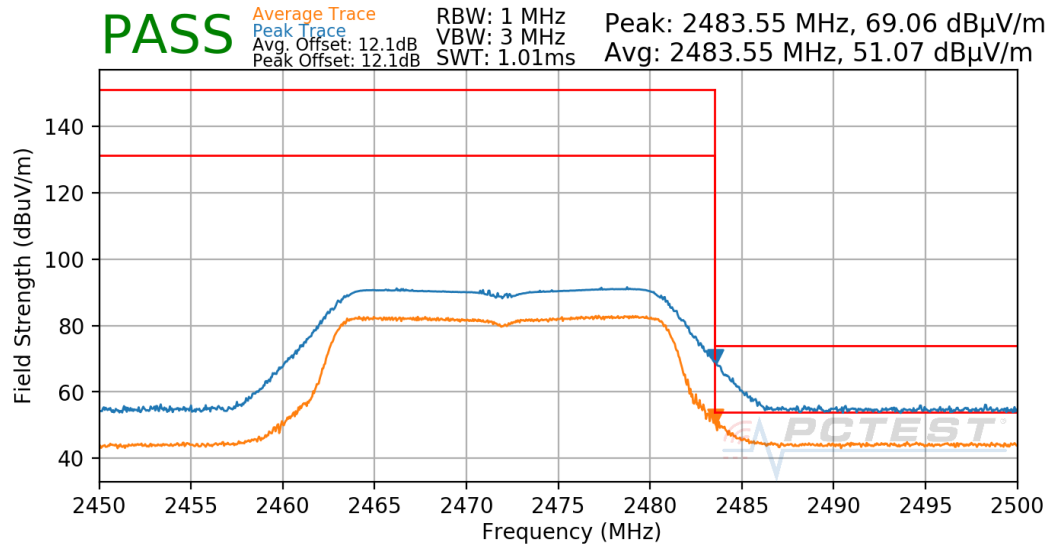
Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-67. Radiated Restricted Upper Band Edge Measurement

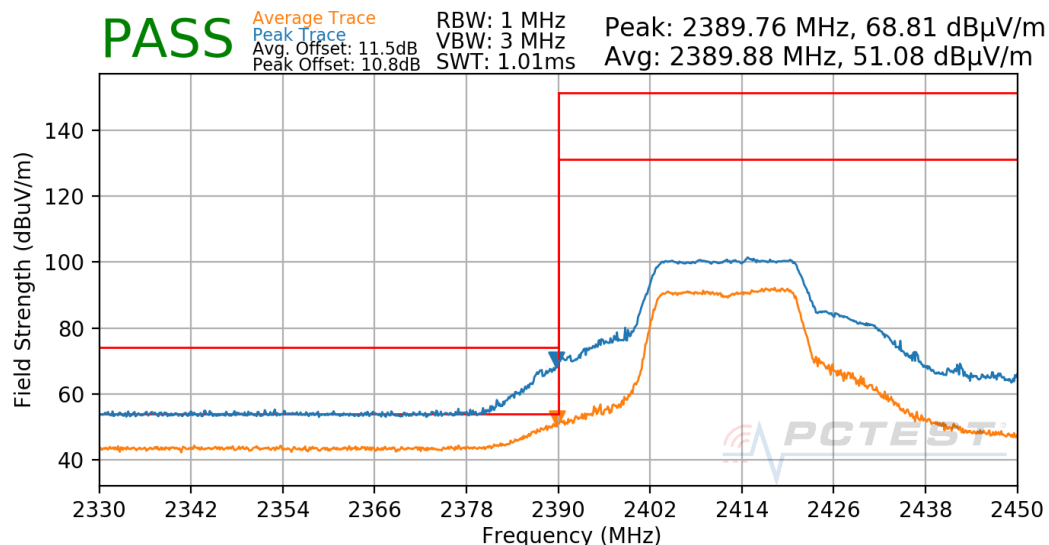
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 62 of 74

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-68. Radiated Restricted Upper Band Edge Measurement

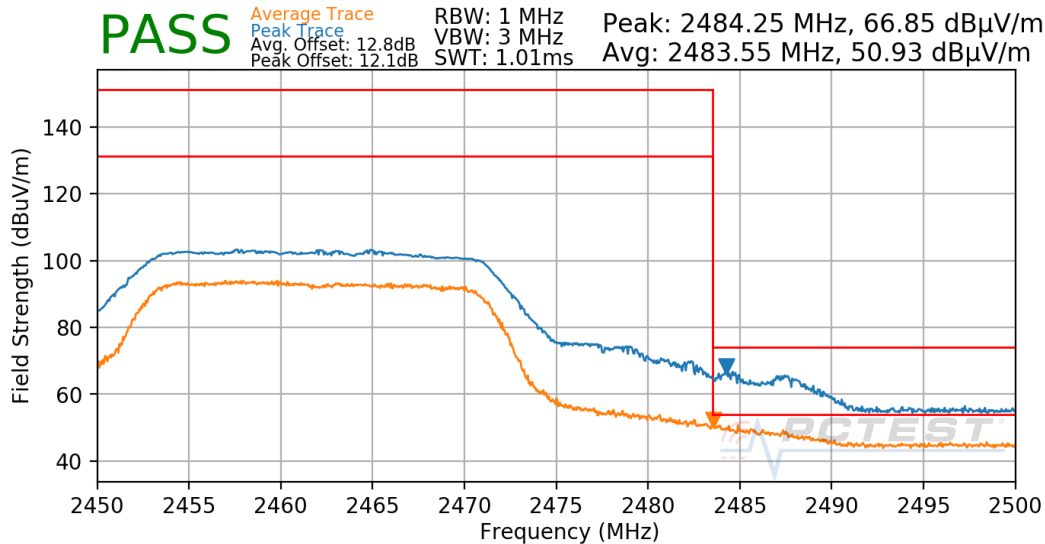
Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-69. Radiated Restricted Lower Band Edge Measurement

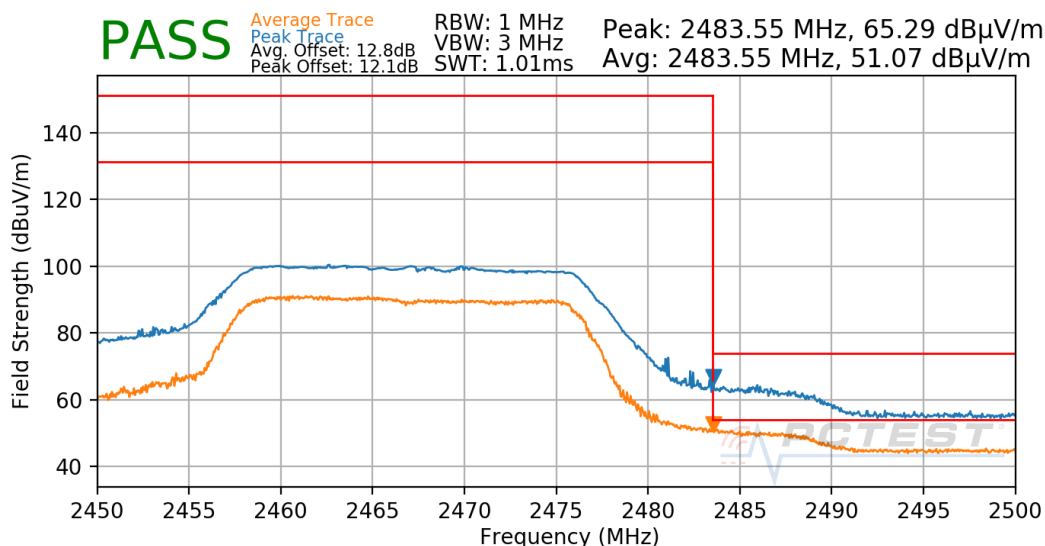
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 63 of 74

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-70. Radiated Restricted Upper Band Edge Measurement

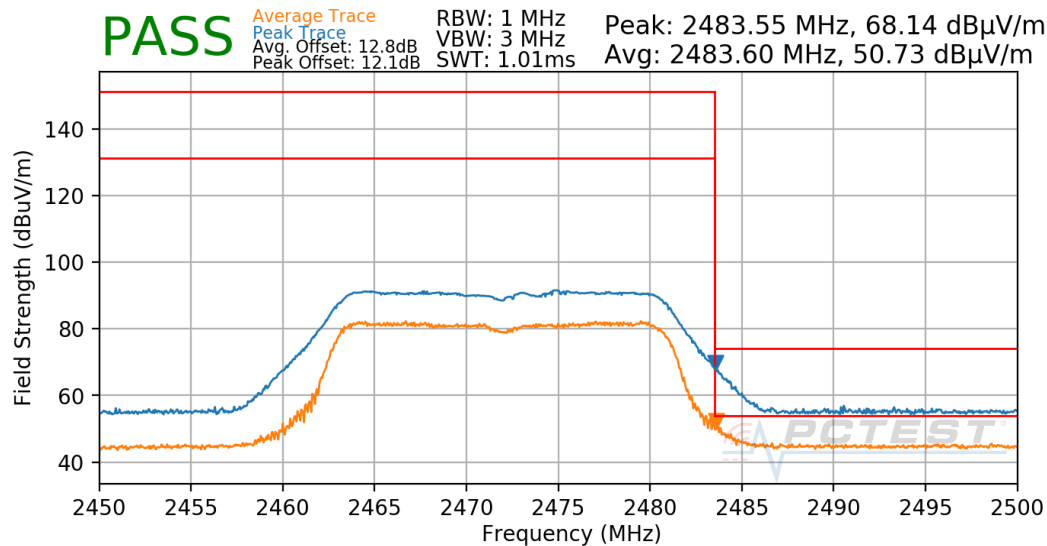
Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-71. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 64 of 74

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-72. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 65 of 74

7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-10 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-10. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

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Test Setup

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

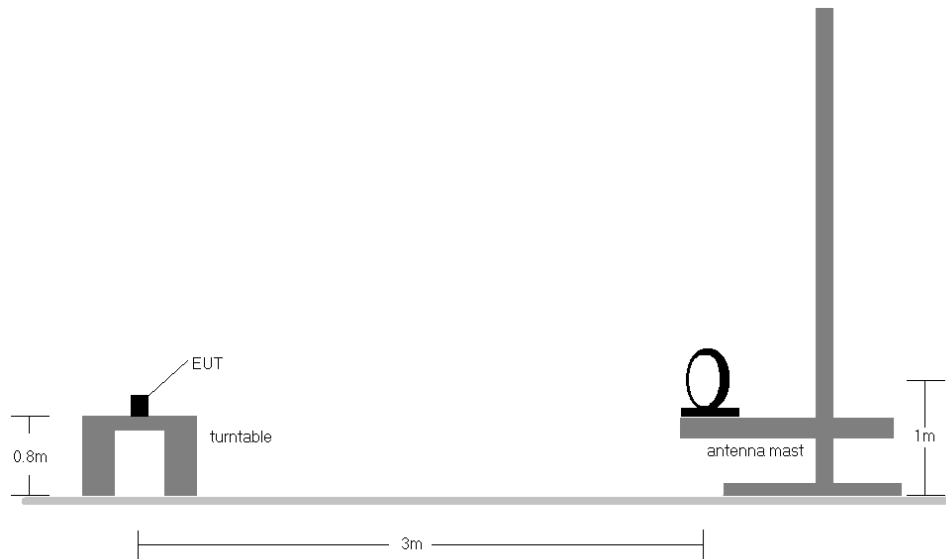


Figure 7-7. Radiated Test Setup < 30Mhz

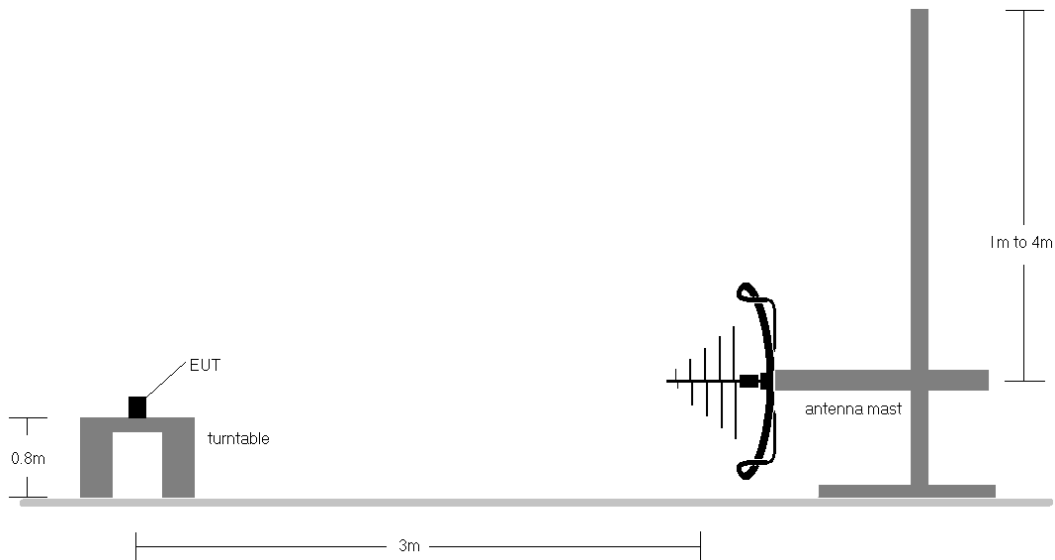


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-10.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adapter via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger
10. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculation

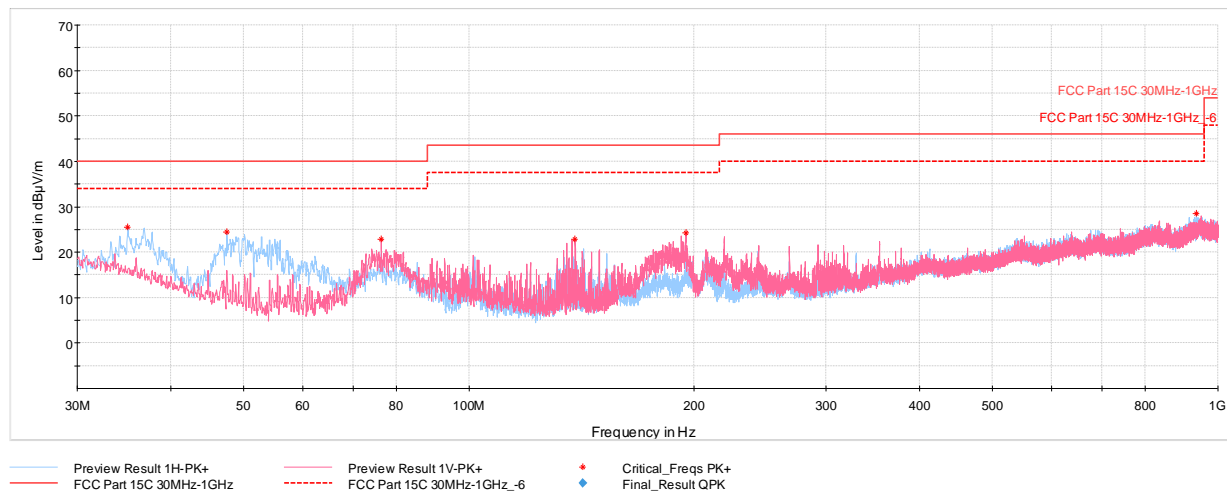
Determining Spurious Emissions Levels

- Field Strength Level $_{[dB_{\mu V/m}]}$ = Analyzer Level $_{[dBm]} + 107 + AFCL_{[dB/m]}$
- $AFCL_{[dB/m]} = Antenna\ Factor_{[dB/m]} + Cable\ Loss_{[dB]} - Preamplifier\ Gain_{[dB]}$
- Margin $_{[dB]} = Field\ Strength\ Level_{[dB_{\mu V/m}]} - Limit_{[dB_{\mu V/m}]}$

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 68 of 74

Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-73. Radiated Spurious Emissions 30MHz-1GHz 802.11b – Ch.6, with AC/DC Adapter and Magnetic Charger

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
35.04	Max Peak	H	100	2	-66.18	-15.12	25.70	40.00	-14.30
47.51	Max Peak	H	250	359	-62.89	-19.88	24.23	40.00	-15.77
76.41	Max Peak	V	250	141	-63.12	-21.05	22.83	40.00	-17.17
138.64	Max Peak	V	250	195	-64.41	-19.35	23.24	43.52	-20.28
194.95	Max Peak	V	100	257	-64.28	-18.22	24.50	43.52	-19.02
935.25	Max Peak	H	100	186	-76.93	-0.76	29.31	46.02	-16.71

Table 7-11. Radiated Spurious Emissions 30MHz-1GHz 802.11b – Ch.6, with AC/DC Adapter and Magnetic Charger

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.9 AC Line-Conducted Emissions Measurements

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-12. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Setup

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

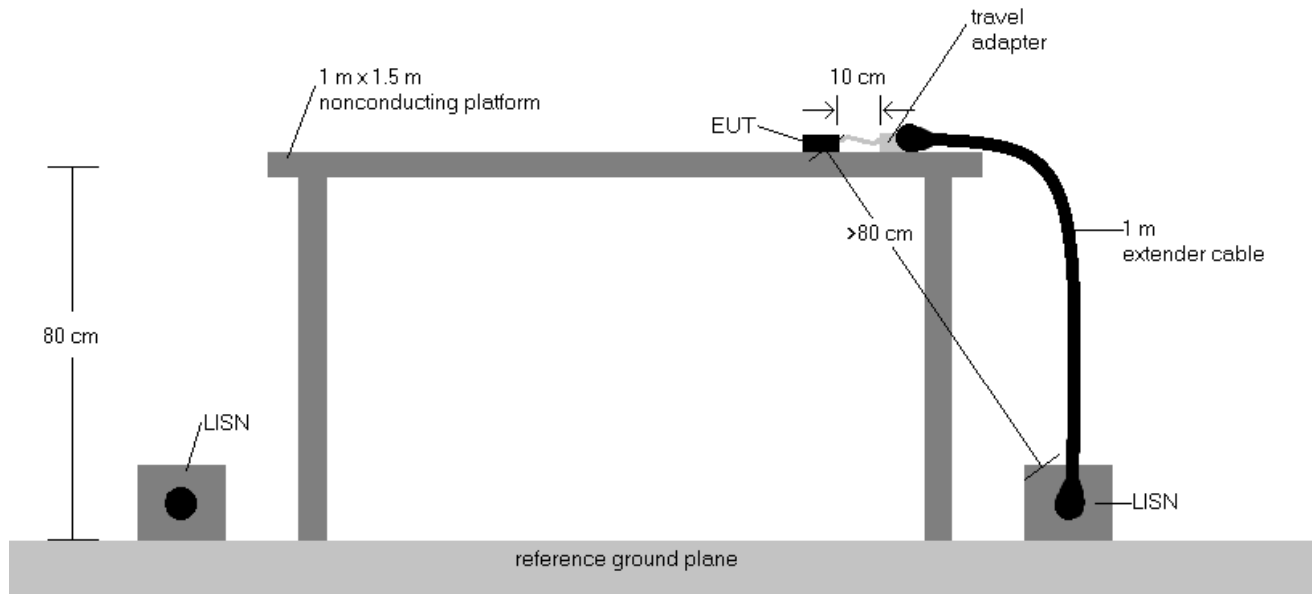
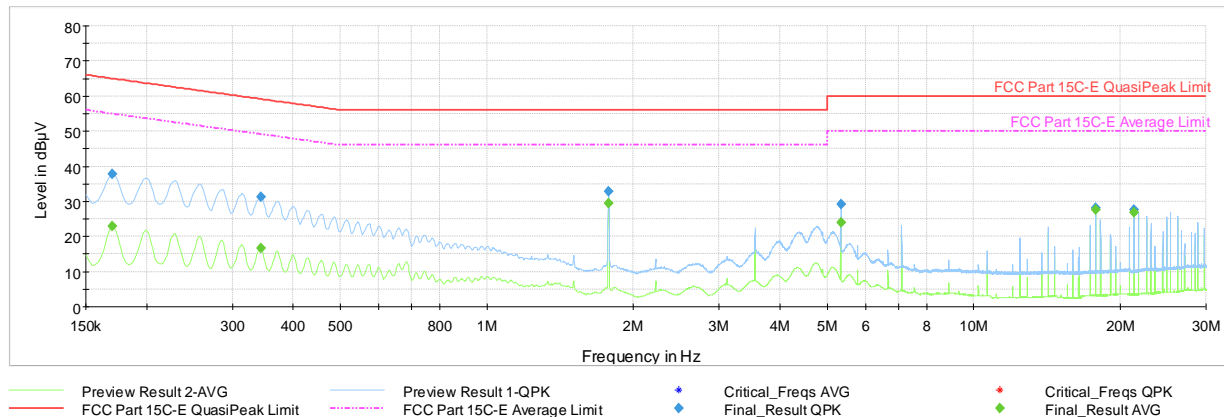


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi-peak and average detector.
- Deviations to the Specifications: None.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adapter via USB-C cable with magnetic charger
 - EUT powered by host PC via USB-C cable with magnetic charger

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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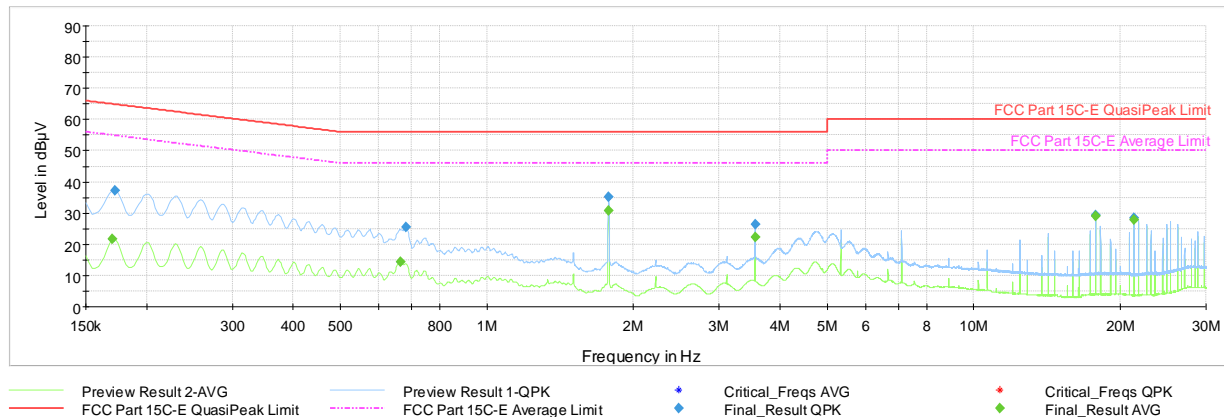


Plot 7-74.AC Line Conducted Plot 802.11b – Ch.6 (L1), with AC/DC Adapter and Magnetic Charger

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	37.9	—	64.95	-27.06	L1	GND
0.170	FINAL	—	22.94	54.95	-32.01	L1	GND
0.344	FINAL	31.2	—	59.12	-27.95	L1	GND
0.344	FINAL	—	16.61	49.12	-32.51	L1	GND
1.777	FINAL	32.9	—	56.00	-23.15	L1	GND
1.777	FINAL	—	29.40	46.00	-16.60	L1	GND
5.334	FINAL	—	23.89	50.00	-26.11	L1	GND
5.334	FINAL	29.3	—	60.00	-30.74	L1	GND
17.777	FINAL	—	27.54	50.00	-22.46	L1	GND
17.777	FINAL	28.2	—	60.00	-31.78	L1	GND
21.334	FINAL	27.7	—	60.00	-32.31	L1	GND
21.334	FINAL	—	26.80	50.00	-23.20	L1	GND

Table 7-13.AC Line Conducted Data 802.11b – Ch.6 (L1), with AC/DC Adapter and Magnetic Charger

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-75.AC Line Conducted Plot 802.11b – Ch.6 (N), with AC/DC Adapter and Magnetic Charger

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	—	21.70	54.95	-33.25	N	GND
0.173	FINAL	37.3	—	64.84	-27.57	N	GND
0.665	FINAL	—	14.34	46.00	-31.66	N	GND
0.681	FINAL	25.4	—	56.00	-30.62	N	GND
1.777	FINAL	35.2	—	56.00	-20.82	N	GND
1.777	FINAL	—	30.92	46.00	-15.08	N	GND
3.557	FINAL	—	22.24	46.00	-23.76	N	GND
3.557	FINAL	26.4	—	56.00	-29.64	N	GND
17.777	FINAL	—	28.99	50.00	-21.01	N	GND
17.777	FINAL	29.5	—	60.00	-30.55	N	GND
21.334	FINAL	28.5	—	60.00	-31.46	N	GND
21.334	FINAL	—	27.87	50.00	-22.13	N	GND

Table 7-14 AC Line Conducted Data 802.11b – Ch.6 (N), with AC/DC Adapter and Magnetic Charger

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only the items(s) tested and show that the **Apple Watch FCC ID: BCG-A2475** and **IC: BCG-A2475** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST [®] Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-06.BCG	Test Dates: 06/08/2021-08/06/2021	EUT Type: Watch	Page 74 of 74