



427 West 12800 South  
 Draper, UT 84020

## Test Report Certification

<b>FCC ID</b>	SWX-UTC
<b>IC ID</b>	6545A-UTC
<b>Equipment Under Test</b>	UT-Conference
<b>Test Report Serial Number</b>	TR5706_02
<b>Date of Test(s)</b>	1, 2, 8 and 16 December 2020
<b>Report Issue Date</b>	January 11 <sup>th</sup> 2021

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C	Ubiquiti Inc. 685 Third Avenue New York, NY 10019 U.S.A.



NVLAP LAB CODE 600241-0

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## Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart C. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

<b>Applicant</b>	Ubiquiti Inc.
<b>Manufacturer</b>	Ubiquiti Inc.
<b>Brand Name</b>	UniFi
<b>Model Number</b>	UT-Conference
<b>FCC ID</b>	SWX-UTC
<b>IC ID</b>	6545A-UTC

On this 11<sup>th</sup> day of January 2021, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Joseph W. Jackson



Reviewed By: Richard L. Winter

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<b>Revision History</b>		
<b>Revision</b>	<b>Description</b>	<b>Date</b>
01	Original Report Release	11 <sup>th</sup> January 2021
02	Amend Band Edge Plots and Section 2.6	15 <sup>th</sup> January 2021

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# 1 Client Information

## 1.1 Applicant

<b>Company</b>	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
<b>Contact Name</b>	Mark Feil
<b>Title</b>	Compliance Manager

## 1.2 Manufacturer

<b>Company</b>	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
<b>Contact Name</b>	Mark Feil
<b>Title</b>	Compliance Manager

## 2 Equipment Under Test (EUT)

### 2.1 Identification of EUT

<b>Brand Name</b>	UniFi
<b>Model Number</b>	UT-Conference
<b>Serial Number</b>	7483C29FFD36
<b>Dimensions (cm)</b>	21.5 x 21.5 x 6.0

### 2.2 Description of EUT

The UT-Conference is a full featured PoE+ conference speaker system. The UT-Conference has a capacitive touch pad to adjust user volume, mute status, and displays volume levels with an intuitive LED ring display. The UT-Conference is powered by PoE+ and has a second port for power and data passthrough to a second device. The UT-Conference is designed for indoor use.

This report covers the circuitry of the device subject to FCC Part 15, Subpart C. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

### 2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

<b>Brand Name Model Number Serial Number</b>	<b>Description</b>	<b>Name of Interface Ports / Interface Cables</b>
BN: UniFi MN: UT-Conference (Note 1) SN: 7483C29FFD36	Conference Speaker	See Section 2.4
BN: Ubiquiti MN: U-POE-af SN: N/A	PoE Power Adapter	Unshielded Cat 5e cable/1 meters
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/1 meters

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

### 2.4 Interface Ports on EUT

<b>Name of Ports</b>	<b>No. of Ports Fitted to EUT</b>	<b>Cable Description/Length</b>
AC Mains	1	3 conductor power cord/80 cm

POE (POE Injector)	1	Unshielded Cat 5e cable/8 meters
LAN (POE Injector)	1	Unshielded Cat 5e cable/1 meters

## 2.5 Operating Environment

<b>Power Supply</b>	120/240 VAC
<b>AC Mains Frequency</b>	50/60 Hz
<b>Temperature</b>	22.4 – 23.5 °C
<b>Humidity</b>	15.0 – 18.9 %
<b>Barometric Pressure</b>	1025 mBar

## 2.6 Operating Modes

The UT-Conference was connected to a personal computer laptop and tested using test software in order to enable to constant transmission greater to or equipment to 98% of the WiFi transceiver. All emissions modes of 802.11 b/g/n were investigated.

## 2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

## 2.8 Block Diagram of Test Configuration

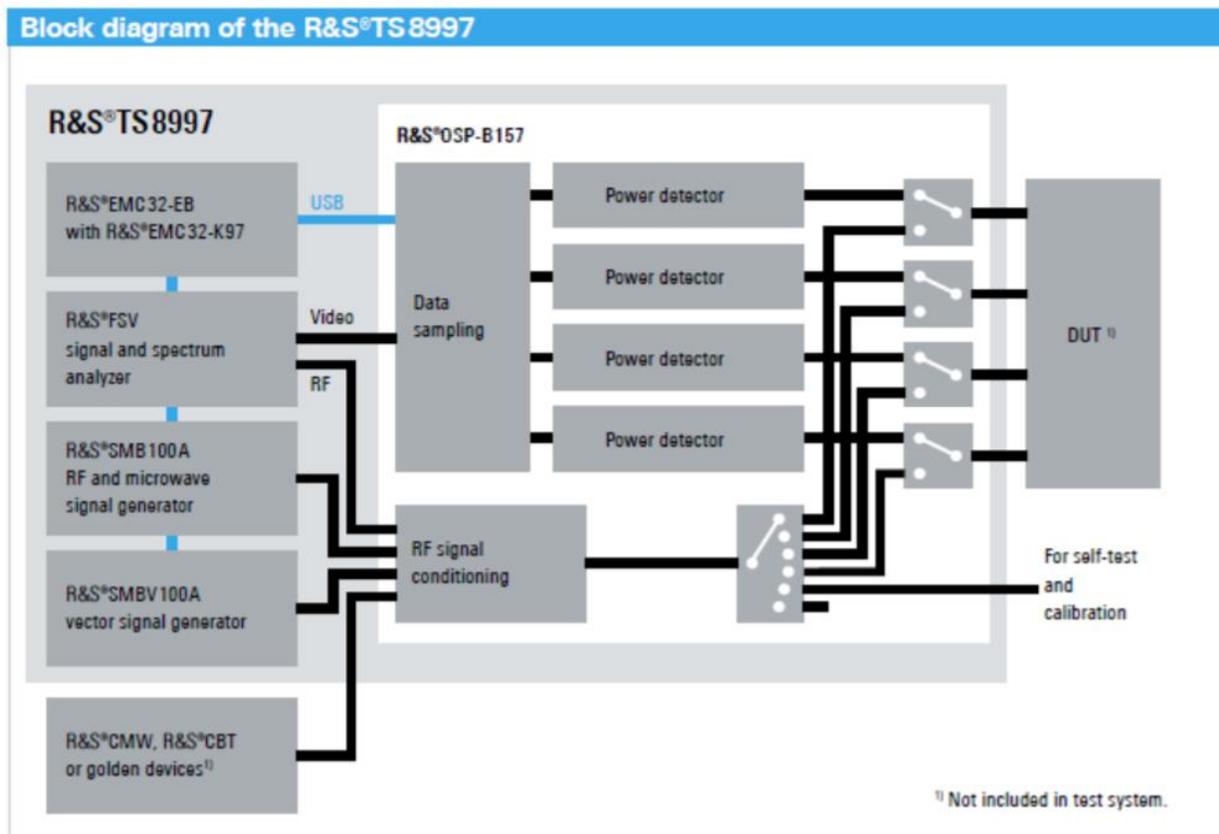


Diagram 1: Test Configuration Block Diagram

## 2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

## 2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

### 3 Test Specification, Method and Procedures

#### 3.1 Test Specification

<b>Title</b>	47 CFR FCC Part 15, Subpart C 15.203, 15.207 and 15.247 Limits and methods of measurement of radio interference characteristics of radio frequency devices.
<b>Purpose of Test</b>	The tests were performed to demonstrate initial compliance

#### 3.2 Methods & Procedures

##### 3.2.1 47 CFR FCC Part 15 Section 15.203

See test standard for details.

##### 3.2.2 47 CFR FCC Part 15 Section 15.207

See test standard for details.

##### 3.2.3 47 CFR FCC Part 15 Section 15.247

See test standard for details.

#### 3.3 FCC Part 15, Subpart C

##### 3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.203	N/A	Antenna requirements	Structural Requirement	Compliant
15.207	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.247(a)	RSS-247 § 5.2	Bandwidth Requirement	2400 to 2483.5	Compliant
15.247(b)	RSS-247 § 5.4	Peak Output Power	2400 to 2483.5	Compliant
15.247(d)	RSS-247 § 5.4	Antenna Conducted Spurious Emissions	0.009 to 25000	Compliant
15.247(d)	RSS-247 § 5.4	Radiated Spurious Emissions	0.009 to 25000	Compliant
15.247(e)	RSS-247 § 5.2	Peak Power Spectral Density	2400 to 2483.5	Compliant

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15.

The conducted power was summed per FCC KDB 662911 in sections 5.4 and 5.6.

### **3.4 Results**

In the configuration tested, the EUT complied with the requirements of the specification.

### **3.5 Test Location**

Testing was performed at the Unified Compliance Laboratory 10-Meter chamber located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2021. This site has also been registered with Innovations, Science and Economic Development (ISED) department and was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until June 30, 2021. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED.

## 4 Test Equipment

### 4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-2500	9/18/2020	9/18/2021
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2021
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2021
ISN	Teseq	ISN T800	UCL-2974	6/1/2020	6/1/2021
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2020	5/19/2021
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 1: List of equipment used for Conducted Emissions Testing at Mains Port

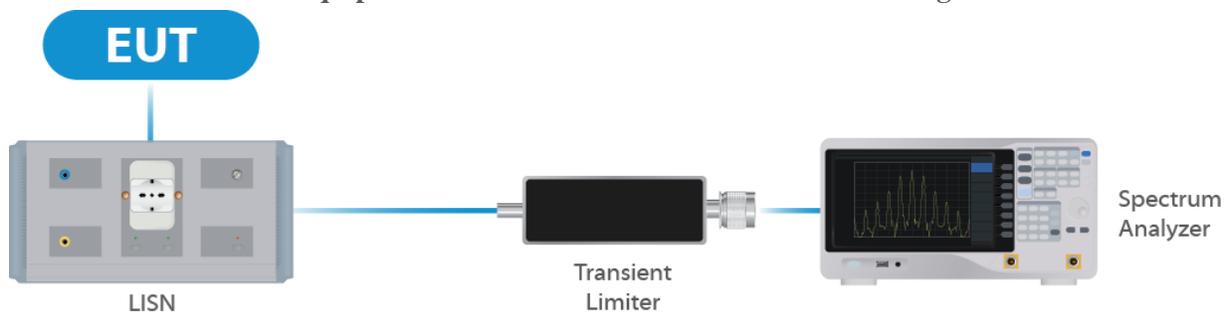


Figure 1: Conducted Emissions Test

### 4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	8/24/2020	8/24/2021
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	8/25/2020	8/25/2021
Switch Extension	R&S	OSP-150W	UCL-2870	8/21/2020	8/21/2021

Table 2: List of equipment used for Direct Connect at the Antenna Port

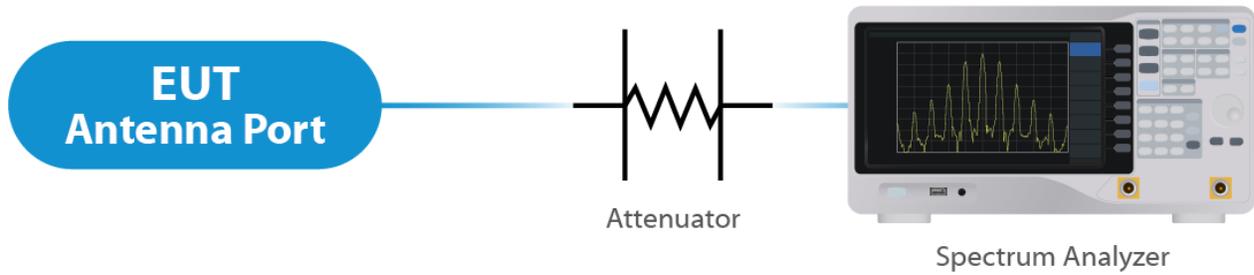


Figure 2: Direct Connect at the Antenna Port Test

### 4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	6/1/2020	6/1/2021
Pre-Amplifier	Sonoma Instruments	310N	UCL-2889	9/10/2020	9/10/2021
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2020	7/8/2021
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	5/20/2020	5/20/2021
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2021
18 – 40 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	1/28/2020	1/28/2021
0.5 – 18 GHz Amplifier	Scwarzbeck	BBV 9718C	UCL-2493	1/24/2020	1/24/2021
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

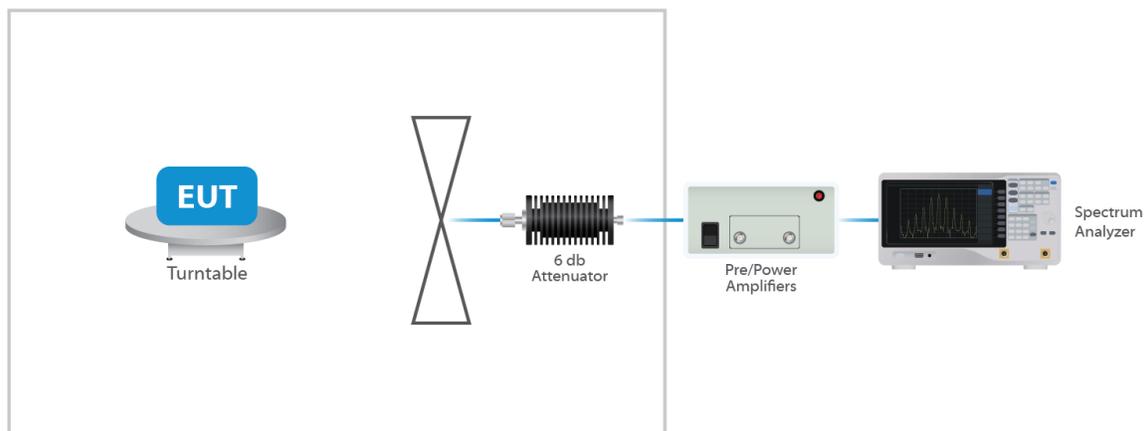


Figure 3: Radiated Emissions Test

## 4.4 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

## 4.5 Measurement Uncertainty

Test	Uncertainty ( $\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
<b>Direct Connect Tests</b>	<b>K Factor</b>	<b>Value</b>
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

## 5 Test Results

### 5.1 §15.203 Antenna Requirements

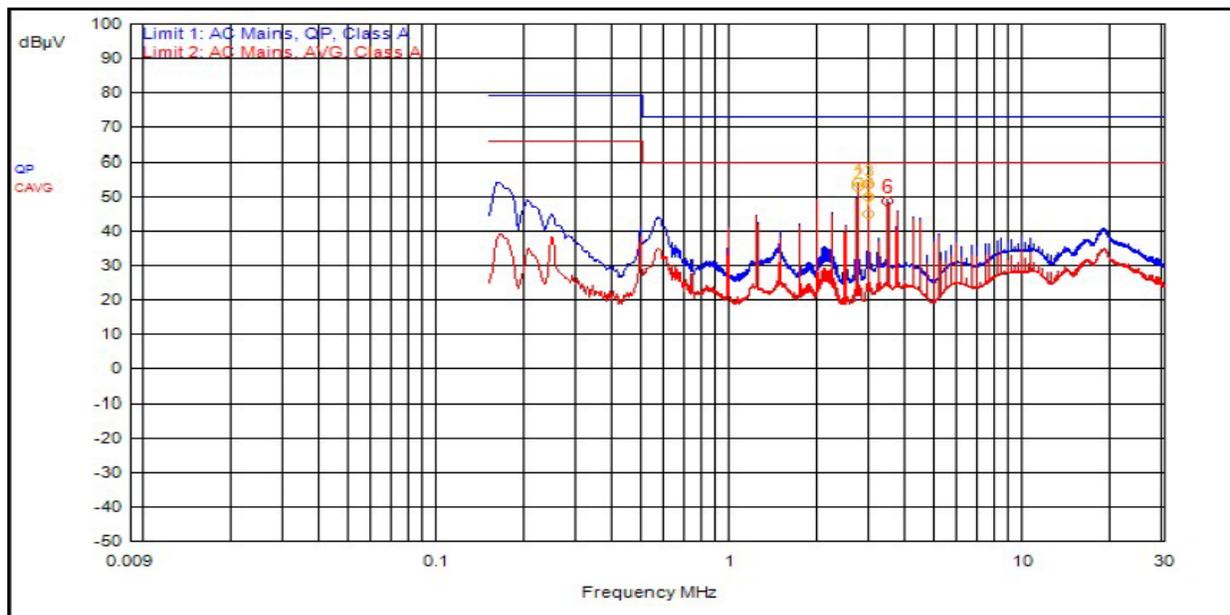
The EUT uses a integral. The Maximum gain of the antenna is 4.7 dBi. The antenna is not user replaceable.

#### Results

The EUT complied with the specification

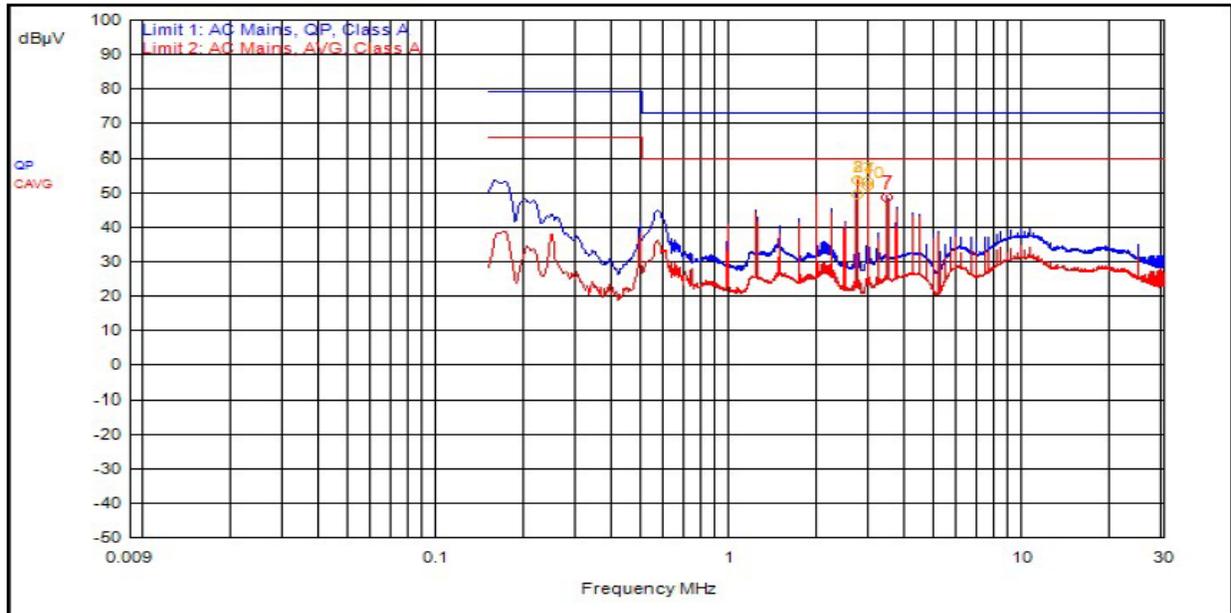
### 5.2 Conducted Emissions at Mains Ports Data

#### 5.2.1 Hot Lead



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
2	2.688MHz	12.3	0.1		C_AVG	40.4	52.8	60.0	-7.2
6	3.423MHz	12.3	0.1		C_AVG	36.5	48.9	60.0	-11.1
7	2.940MHz	12.3	0.1		C_AVG	32.7	45.1	60.0	-14.9
1	2.691MHz	12.3	0.1		QPeak	41.7	54.1	73.0	-18.9
3	2.934MHz	12.3	0.1		QPeak	41.2	53.6	73.0	-19.4
6	2.931MHz	12.3	0.1		QPeak	37.4	49.8	73.0	-23.2

## 5.2.2 Neutral Lead



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
8	2.691MHz	12.3	0.1		C_AVG	41.5	53.9	60.0	-6.1
10	2.937MHz	12.3	0.1		C_AVG	39.6	51.9	60.0	-8.1
1	2.694MHz	12.3	0.1		C_AVG	37.1	49.5	60.0	-10.5
7	3.423MHz	12.3	0.1		C_AVG	36.4	48.8	60.0	-11.2
2	2.691MHz	12.3	0.1		QPeak	41.5	53.9	73.0	-19.1
4	2.934MHz	12.3	0.1		QPeak	41.1	53.5	73.0	-19.5
7	2.934MHz	12.3	0.1		QPeak	41.1	53.5	73.0	-19.5
7	2.934MHz	12.3	0.1		QPeak	41.1	53.5	73.0	-19.5

### Result

The EUT complied with the specification limit.

### 5.3 §15.247(a)(2) Emissions Bandwidth

Mode	Frequency (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth (MHz)
b	2412	13.7	8.20
	2437	14.2	8.15
	2462	14.0	9.15
g	2412	16.7	15.80
	2437	17.1	16.45
	2462	16.7	14.75
n 20	2412	16.6	16.50
	2437	19.2	17.25
	2462	17.8	17.70
n 40	2422	36.50	36.40
	2437	36.25	36.45
	2452	36.50	35.80

#### Result

In the configuration tested, the 6 dB bandwidth was greater than 500 kHz; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plot within the Annex).

## 5.4 §15.247(b)(3) Maximum Average Output Power

The maximum average RF conducted output power measured for this device was 16.5 dBm or 44.67 mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 4.7 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured EIRP
CCK 20	2412	Mcs0	10	8.7	13.4
	2417	Mcs0	10	8.5	13.2
	2432	Mcs0	10	8.8	13.5
	2437	Mcs0	18	16.5	21.2
	2442	Mcs0	15	13.8	18.5
	2457	Mcs0	15	13.0	17.7
	2462	Mcs0	15	13.0	17.7
OFDM 20	2412	Mcs0	10	8.5	13.2
	2417	Mcs0	10	8.3	13.0
	2432	Mcs0	10	8.5	13.2
	2437	Mcs0	18	8.6	13.3
	2442	Mcs0	10	8.9	13.6
	2457	Mcs0	10	8.8	13.5
	2462	Mcs0	10	8.6	13.3
HT 20	2412	Mcs0	10	8.4	13.1
	2417	Mcs0	10	8.0	12.7
	2432	Mcs0	10	8.1	12.8
	2437	Mcs0	18	16.4	21.1
	2442	Mcs0	10	8.7	13.4
	2457	Mcs0	10	8.7	13.4
	2462	Mcs0	10	8.5	13.2
HT 40	2422	Mcs0	8	6.8	11.5
	2437	Mcs0	11	10.1	14.8
	2452	Mcs0	9	8.4	13.1

### Result

In the configuration tested, the maximum average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plot within the Annex).

## 5.5 §15.247(d) Spurious Emissions

### 5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The table show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT tuned to the upper and lower channels. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be attenuated 30 dB below the highest power spectral density level measured within the authorized band as measured with a 100 kHz RBW.

#### Result

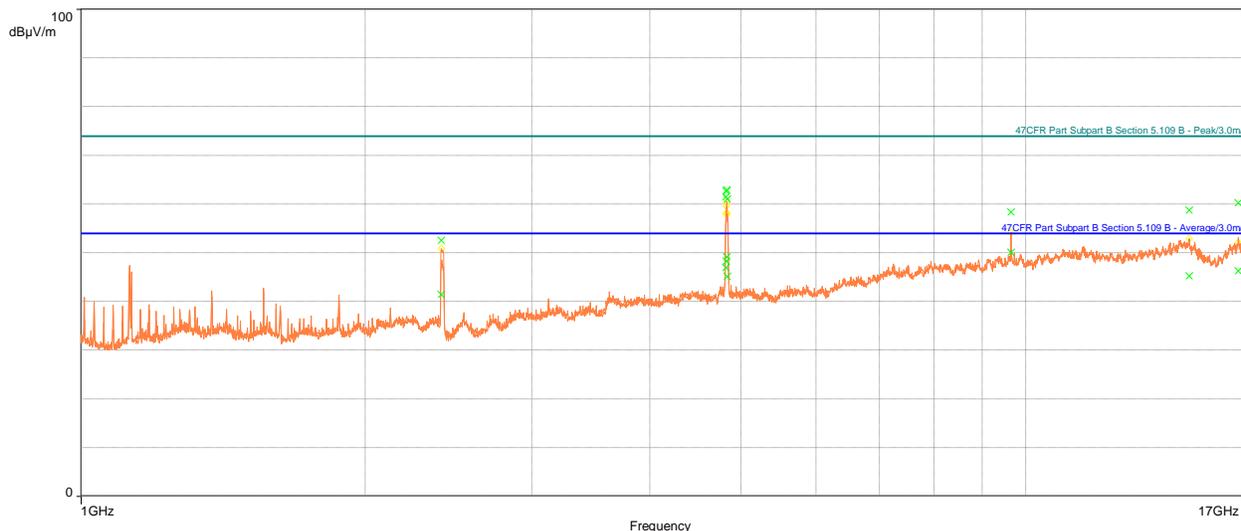
Conducted spurious emissions were attenuated 30 dB or more below the fundamental; therefore, the EUT complies with the specification.

### 5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. The following tables show measurements of any emissions that fell into the restricted bands of §15.205. The tables show the worst-case emissions measured from the EUT. For frequencies above 18.0 GHz, a measurement distance of 1 meter was used. The noise floor was a minimum of 6 dB below the limits. The emissions in the restricted bans must meet the limits specified in §15.209. Tabular data for each of the spurious emissions is shown below for each of the units. Plots of the band edges are also shown. No significant emissions were observed from 16 to 40 GHz.

#### Result

All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.

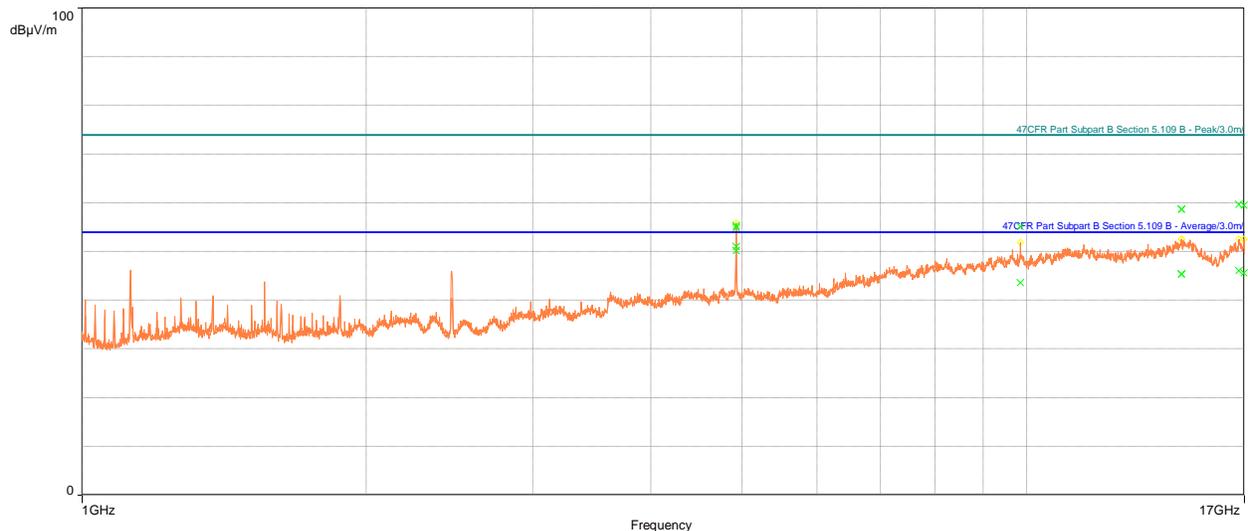


Avg

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2406.5	41.46	54.00	-12.54	276.00	1.50	Vertical	-5.92
4831.2	45.17	54.00	-8.83	304.00	1.52	Vertical	2.02
14892	45.24	54.00	-8.76	359.00	1.63	Vertical	17.57
16788	46.29	54.00	-7.71	1.00	2.84	Vertical	18.72
4814.2	46.99	54.00	-7.01	279.00	1.51	Horizontal	2.08
4819.5	48.30	54.00	-5.70	276.00	1.59	Horizontal	2.05
4824.7	49.17	54.00	-4.83	278.00	1.62	Horizontal	2.07
9647.7	50.12	54.00	-3.88	54.00	2.28	Horizontal	11.86

Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2406.5	52.59	74.00	-21.41	276.00	1.50	Vertical	-5.92
4831.2	61.01	74.00	-12.99	304.00	1.52	Vertical	2.02
14892	58.72	74.00	-15.28	359.00	1.63	Vertical	17.57
16788	60.26	74.00	-13.74	1.00	2.84	Vertical	18.72
4814.2	61.55	74.00	-12.45	279.00	1.51	Horizontal	2.08
4819.5	62.68	74.00	-11.32	276.00	1.59	Horizontal	2.05
4824.7	62.95	74.00	-11.05	278.00	1.62	Horizontal	2.07
9647.7	58.41	74.00	-15.59	54.00	2.28	Horizontal	11.86

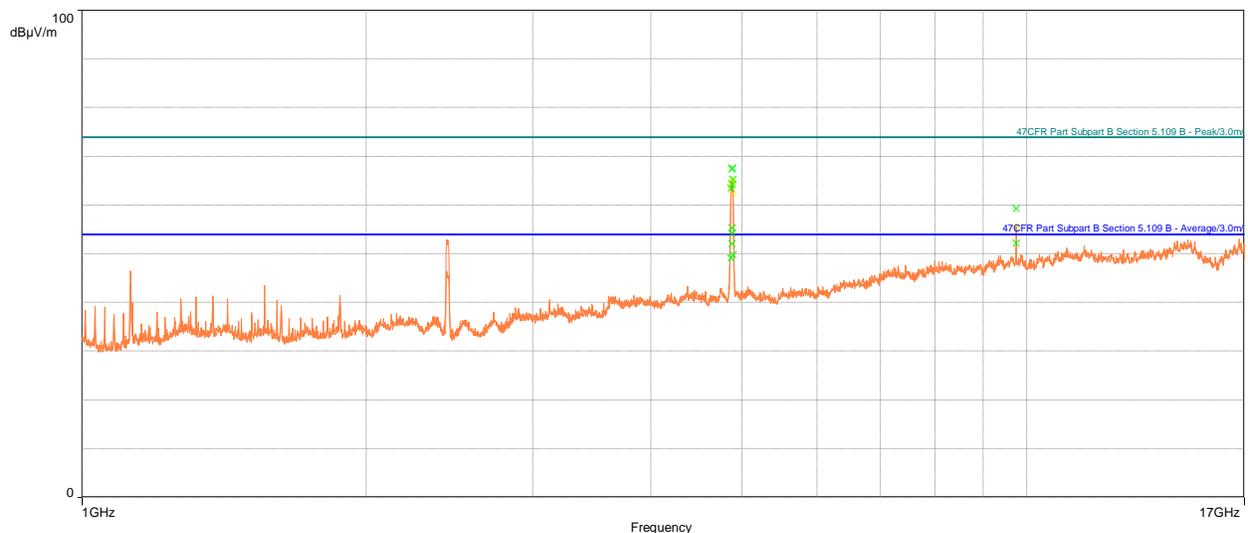
**Table 4: Transmitting at the Lowest Frequency**


Avg

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4923.9	51.04	54.00	-2.96	213.00	1.51	Vertical	2.19
14580	45.43	54.00	-8.57	357.00	2.36	Vertical	17.61
16766	46.14	54.00	-7.86	81.00	3.21	Vertical	18.60
4924.1	50.15	54.00	-3.85	328.00	1.51	Horizontal	2.19
9847.8	43.66	54.00	-10.34	29.00	2.93	Horizontal	11.96
14582	45.38	54.00	-8.62	233.00	3.66	Horizontal	17.59
16978	45.61	54.00	-8.39	131.00	2.51	Horizontal	18.70

Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4923.9	55.37	74.00	-18.63	213.00	1.51	Vertical	2.19
14580	58.69	74.00	-15.31	357.00	2.36	Vertical	17.61
16766	59.71	74.00	-14.29	81.00	3.21	Vertical	18.60
4924.1	54.96	74.00	-19.04	328.00	1.51	Horizontal	2.19
9847.8	55.15	74.00	-18.85	29.00	2.93	Horizontal	11.96
14582	58.78	74.00	-15.22	233.00	3.66	Horizontal	17.59
16978	59.51	74.00	-14.49	131.00	2.51	Horizontal	18.70

**Table 5: Transmitting at the Middle Frequency**


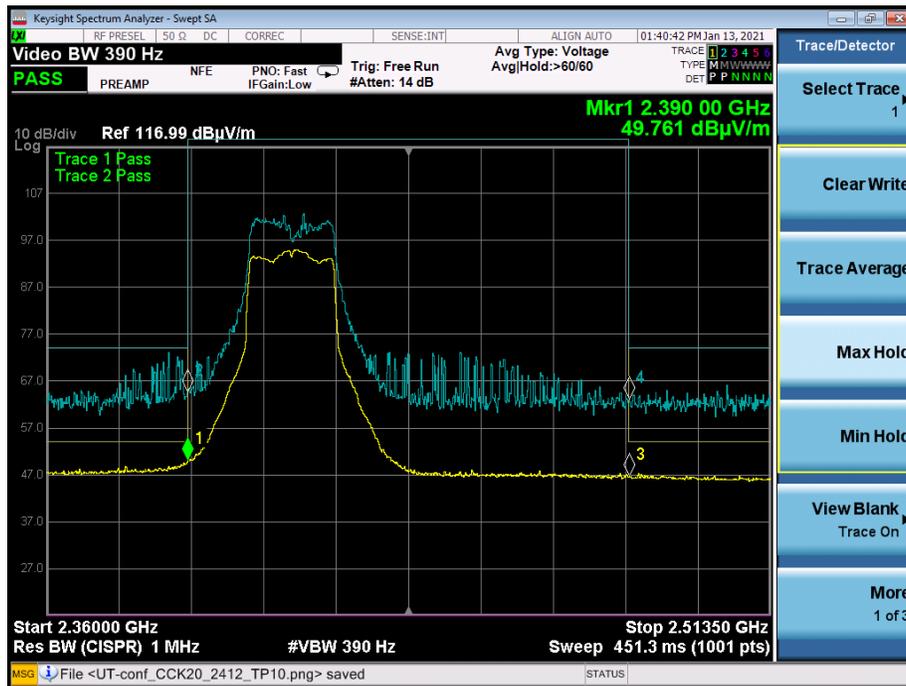
Avg

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4865.2	49.14	54.00	-4.86	334.00	3.82	Vertical	2.01
4875.7	52.10	54.00	-1.90	39.00	3.23	Vertical	2.10
4885	49.81	54.00	-4.19	317.00	1.53	Horizontal	2.12
9748.1	52.20	54.00	-1.80	83.00	2.37	Horizontal	11.74

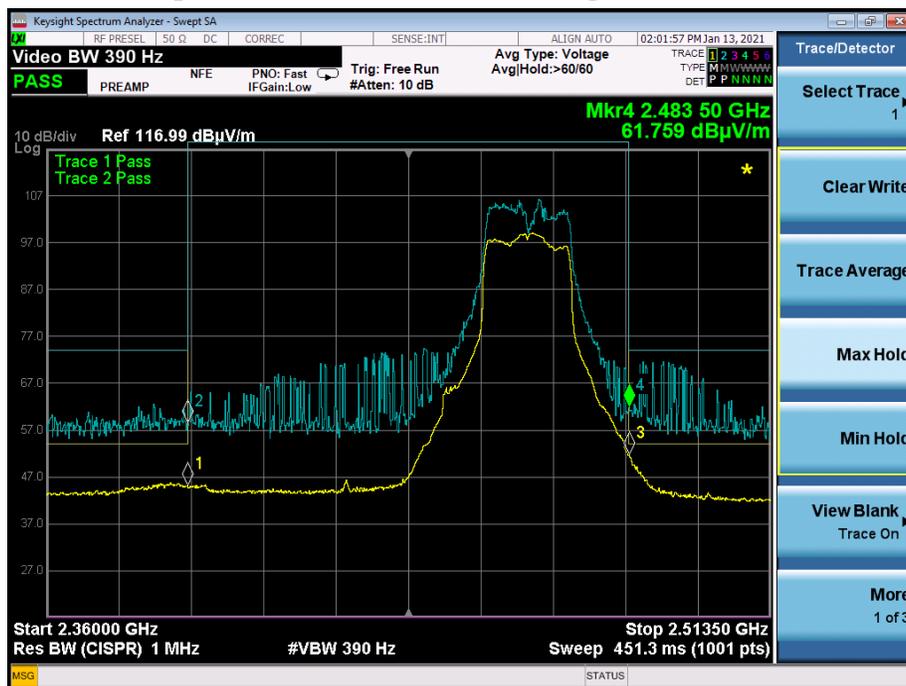
Peak

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4865.2	63.50	74.00	-10.50	334.00	3.82	Vertical	2.01
4875.7	64.24	74.00	-9.76	39.00	3.23	Vertical	2.10
4885	65.29	74.00	-8.71	317.00	1.53	Horizontal	2.12
9748.1	59.33	74.00	-14.67	83.00	2.37	Horizontal	11.74

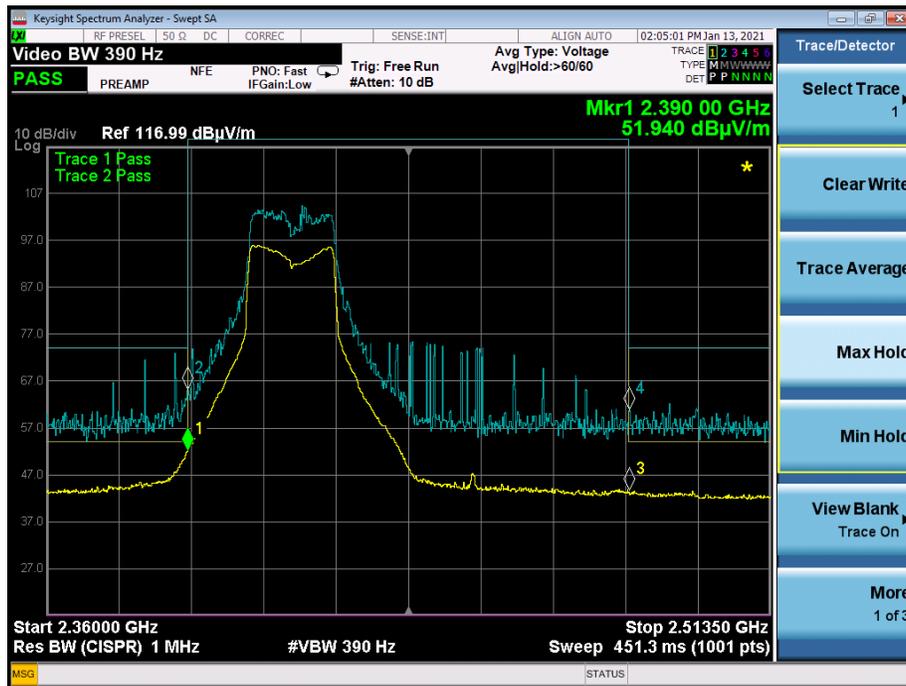
**Table 6: Transmitting at the Highest Frequency**



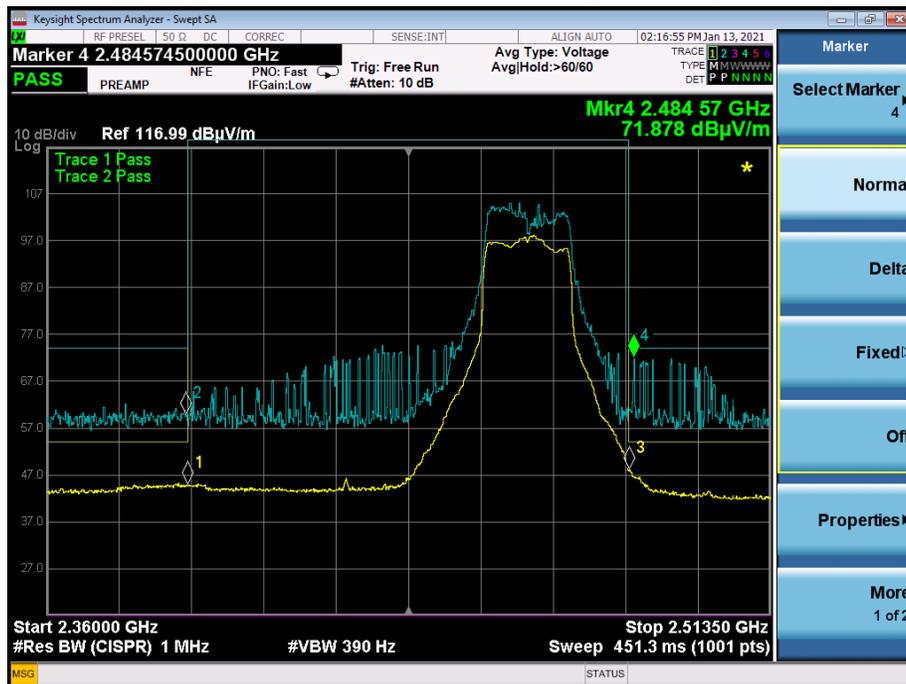
Graph 1: Radiated Lower Band Edge Plot – b mode



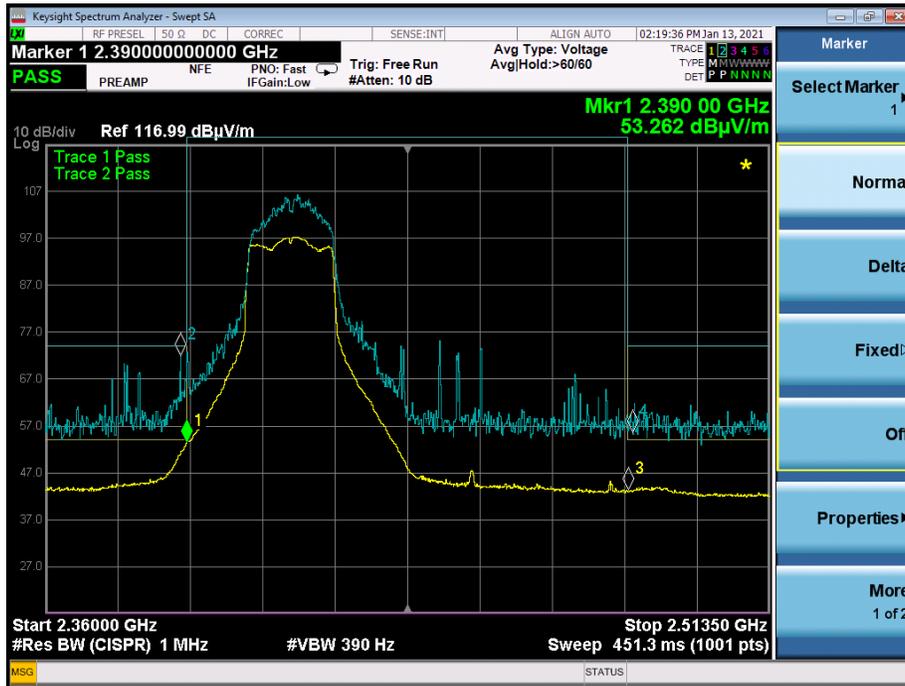
Graph 2: Radiated Upper Band Edge Plot – b mode



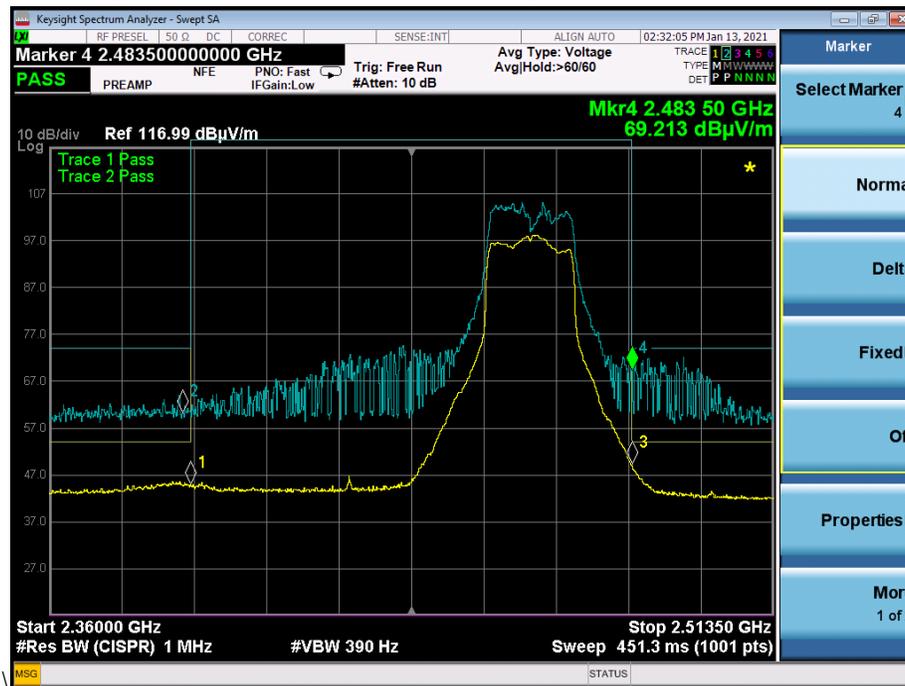
**Graph 3: Radiated Lower Band Edge Plot – g mode**



**Graph 4: Radiated Upper Band Edge Plot – g Mode**



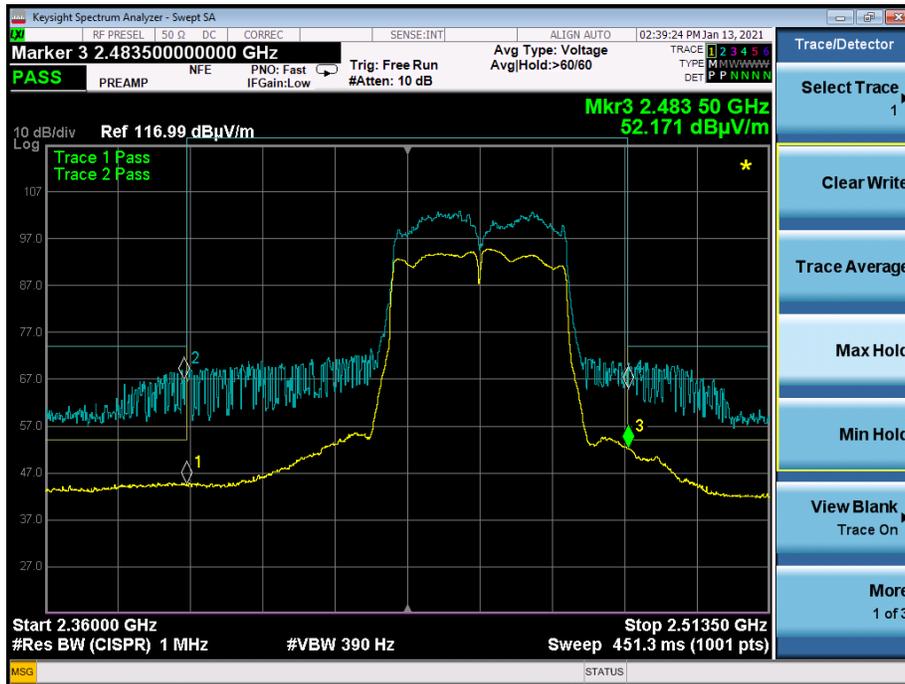
**Graph 5: Radiated Lower Band Edge Plot – n 20 MHz Mode**



**Graph 6: Radiated Upper Band Edge Plot – n 20 MHz Mode**



Graph 7: Radiated Lower Band Edge Plot – n 40 MHz Mode



Graph 8: Radiated Upper Band Edge Plot – n 40 MHz Mode

## 5.6 §15.247(e) Maximum Average Power Spectral Density

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. Results of this testing are summarized.

Mode	Frequency (MHz)	Measurement (dBm)	Criteria (dBm)
b	2412	-10.4	8.0
	2437	-2.7	8.0
	2462	-5.6	8.0
g	2412	-13.2	8.0
	2437	-12.8	8.0
	2462	-13.2	8.0
n 20	2412	-13.8	8.0
	2437	-6.0	8.0
	2462	-13.9	8.0
n 40	2422	-18.2	8.0
	2437	-14.4	8.0
	2452	-16.2	8.0

### Result

The maximum average power spectral density was less than the limit of 8 dBm; therefore, the EUT complies with the specification.

-- End of Test Report --