



427 West 12800 South  
Draper, UT 84020

## Test Report Certification

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| <b>FCC ID</b>                    | SWX-U7PROW                                                 |
| <b>ISED ID</b>                   | 6545A-U7PROW                                               |
| <b>Equipment Under Test</b>      | U7-Pro-Wall                                                |
| <b>Test Report Serial Number</b> | TR8745_03                                                  |
| <b>Date of Test(s)</b>           | 25, 30 Oct; 7 – 9 Nov; 7 Dec 2023; 11 – 12 and 18 Jan 2024 |
| <b>Report Issue Date</b>         | 29 January 2024                                            |

| Test Specification            | Applicant                                                         |
|-------------------------------|-------------------------------------------------------------------|
| 47 CFR FCC Part 15, Subpart E | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |



NVLAP LAB CODE 600241-0

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## Certification of Engineering Report

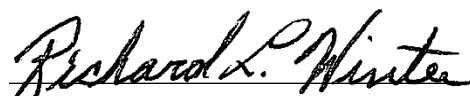
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with 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>   | UBIQUITI      |
| <b>Model Number</b> | U7-Pro-Wall   |
| <b>FCC ID</b>       | SWX-U7PROW    |
| <b>ISED ID</b>      | 6545A-U7PROW  |

On this 29<sup>th</sup> day of January 2024, 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                                                                     | 19 January 2024  |
| 02                      | Added Signal Detection Plot in Section 5.7                                                  | 22 February 2024 |
| 03                      | Added Clarification on channel puncturing in section 2.6, and all CBP plots to section 5.7. | 29 February 2024 |

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## 1 Client Information

### 1.1 Applicant

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Company</b>      | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| <b>Contact Name</b> | Alex Macon                                                        |
| <b>Title</b>        | Compliance                                                        |

### 1.2 Manufacturer

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Company</b>      | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| <b>Contact Name</b> | Alex Macon                                                        |
| <b>Title</b>        | Compliance                                                        |

## 2 Equipment Under Test (EUT)

### 2.1 Identification of EUT

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Brand Name</b>      | UBIQUITI                          |
| <b>Model Number</b>    | U7-Pro-Wall                       |
| <b>Serial Number</b>   | 05BF1C                            |
| <b>Dimensions (cm)</b> | 15.0      x    10.3      x    3.6 |

### 2.2 Description of EUT

The U7-Pro-Wall is WiFi 7 access point that represents the next generation of competitively priced, prosumer wireless technology for home and enterprise users. The U7-Pro-Wall provides high aggregate throughput speeds. The U7-Pro-Wall transmit in the 2.4 GHz, 5 GHz and 6 GHz frequency bands and uses integrated antennas. The U7-Pro-Wall is powered from an 802.3at power adapter.

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. 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.

The table below show the channels used within the different modulation bandwidths.

| <b>Band</b> | <b>Modulation Bandwidth</b> | <b>Frequency (MHz)</b>                                     | <b>Maximum Power Setting</b> |
|-------------|-----------------------------|------------------------------------------------------------|------------------------------|
| UNII-7      | be (EHT 20)                 | 6535, 6555, 6575, 6595, 6615, 6635, 6655, 6675             | TP11                         |
|             |                             | 6695, 6715, 6735, 6755, 6775, 6795, 6815, 6835, 6855, 6875 | TP12                         |
|             | be (EHT 40)                 | 6525, 6565, 6605, 6645,                                    | TP14                         |
|             |                             | 6685, 6725, 6765, 6805, 6845, 6885                         | TP15                         |
|             | be (EHT 80)                 | 6545, 6625                                                 | TP17                         |
|             |                             | 6705, 6785, 6865                                           | TP18                         |
|             | be (EHT 160)                | 6505, 6665                                                 | TP20                         |
|             |                             | 6825                                                       | TP21                         |
|             | be (EHT 320)                | 6585                                                       | TP22                         |

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. 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<br/>Model Number<br/>Serial Number</b>   | <b>Description</b>       | <b>Name of Interface Ports /<br/>Interface Cables</b> |
|--------------------------------------------------------|--------------------------|-------------------------------------------------------|
| BN: UBIQUITI<br>MN: U7-Pro-Wall (Note 1)<br>SN: 05BF1C | WiFi Access Point        | See Section 2.4                                       |
| BN: UBIQUITI<br>MN: U-POE-at<br>SN: N/A                | PoE Power Adapter        | Unshielded Cat 5e cable/1<br>meters                   |
| BN: Dell<br>MN: XPS 13<br>SN: N/A                      | Laptop Personal Computer | Unshielded Cat 5e cable/1<br>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<br>meters |
| LAN (POE Injector)   | 1                                 | Unshielded Cat 5e cable/1<br>meters |

## 2.5 Operating Environment

|                            |                                    |
|----------------------------|------------------------------------|
| <b>Power Supply</b>        | 120 Volts AC Mains to 48 Volts PoE |
| <b>AC Mains Frequency</b>  | 60 Hz                              |
| <b>Temperature</b>         | 22.3 – 23.9 C                      |
| <b>Humidity</b>            | 21.5 – 32.9 %                      |
| <b>Barometric Pressure</b> | 1021 mBar                          |

## 2.6 Operating Modes

The U7-Pro-Wall was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11be were investigated. All measurements are reported with the worst-case mode (802.11be) unless otherwise stated.

This device does not support Channel Puncturing.

## 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

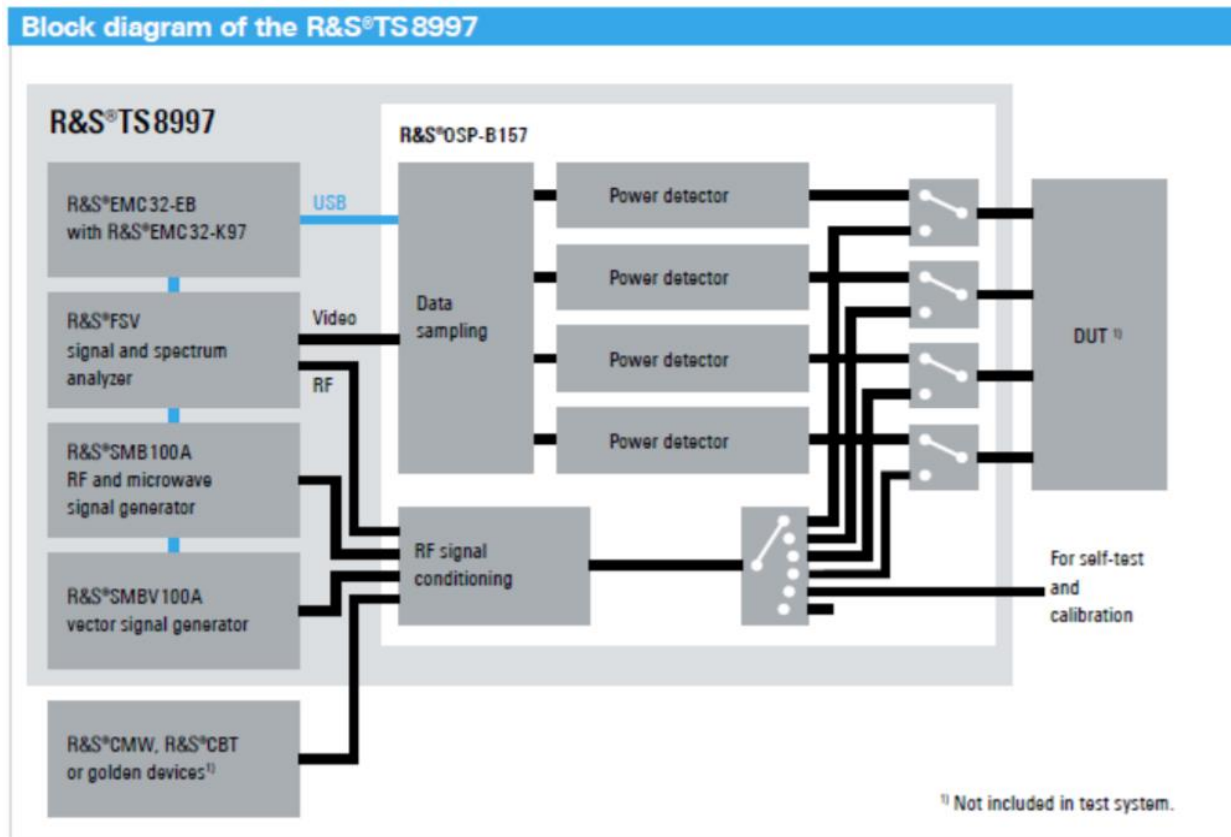


Diagram 1: Test Configuration Block Diagram

## 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 E, Section 15.407<br>Limits and methods of measurement of radio interference characteristics of<br>Unlicensed National Information Infrastructure 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 15.407

See test standard for details.

### 3.3 FCC Part 15, Subpart E

#### 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 |
| 15.407(c)   | RSS-247 §6.2.2, §6.2.3 | Bandwidth Requirement                             | 6535 to 6865           | Compliant |
| 15.407(e)   | RSS-247 §6.2.2, §6.2.3 | Peak Output Power <sup>1</sup>                    | 6535 to 6865           | Compliant |
| 15.407(f)   | RSS-247 §6.2.2, §6.2.3 | Antenna Conducted Spurious Emissions <sup>1</sup> | 0.009 to 40000         | N/A       |
| 15.407(g)   | RSS-247 §6.2.2, §6.2.3 | Radiated Spurious Emissions                       | 0.009 to 40000         | Compliant |
| 15.407(h)   | RSS-247 §6.2.2, §6.2.3 | Peak Power Spectral Density <sup>1</sup>          | 6535 to 6865           | Compliant |
| 15.407(d)   | RSS-247 §6.2.2, §6.2.3 | Contention Based Protocol                         | 6535 to 6865           | Compliant |

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033, KDB 987594 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.

Note <sup>1</sup>: Various RU modes were considered for RF Power, PSD, and Spurious Emissions, and the "single client" RU mode is the worst case - the results herein are "single client" RU mode.

### 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 3-Meter and 10-Meter chambers 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 2024. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2024.

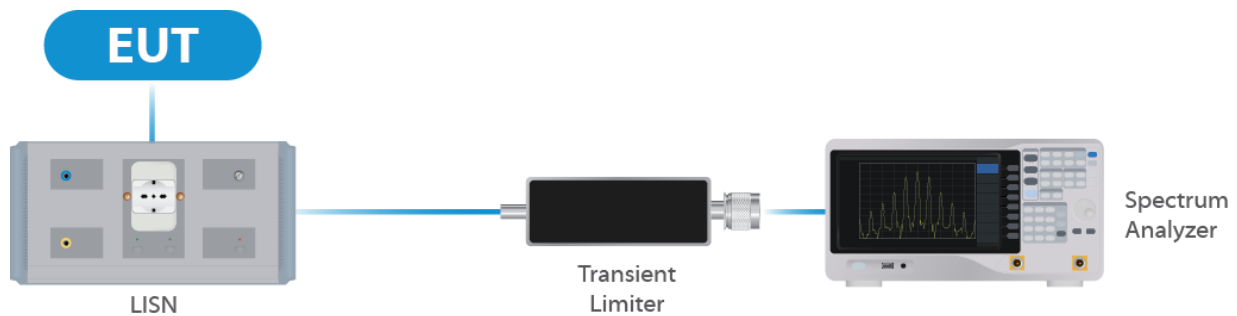
Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

## 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     | 7/13/2023                | 7/13/2024               |
| LISN              | AFJ                 | LS16C/10     | UCL-2512     | 5/26/2023                | 5/26/2024               |
| ISN               | Teseq               | ISN T800     | UCL-2974     | 6/27/2022                | 6/27/2024               |
| LISN              | Com-Power           | LIN-120C     | UCL-2612     | 1/24/2023                | 1/24/2024               |
| 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**

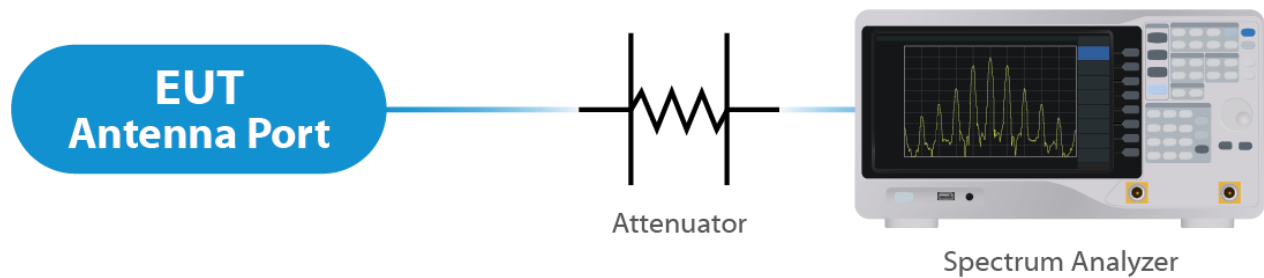


**Figure 1: Conducted Emissions Test**

### 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     | 11/27/2023               | 11/27/2024              |
| 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     | 2/22/2023                | 2/22/2024               |
| Switch Extension        | R&S          | OSP-150W     | UCL-2870     | 2/22/2023                | 2/22/2024               |

**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     | 1/27/2023                | 1/27/2024               |
| Pre-Amplifier<br>9 kHz – 1 GHz | Sonoma Instruments | 310N         | UCL-2889     | 10/7/2021                | 12/7/2023               |
| Broadband Antenna              | Scwarzbeck         | VULB 9163    | UCL-3062     | 9/13/2022                | 9/13/2024               |
| Broadband Antenna              | Scwarzbeck         | VULB 9163    | UCL-3071     | 6/08/2022                | 6/22/2024               |
| Double Ridge Horn Antenna      | Scwarzbeck         | BBHA 9120D   | UCL-3065     | 1/27/2023                | 1/27/2025               |
| Log Periodic                   | Scwarzbeck         | STLP 9129    | UCL-3068     | 1/27/2023                | 1/27/2025               |
| 15 - 40 GHz Horn Antenna       | Scwarzbeck         | BBHA 9170    | UCL-2487     | 6/09/2022                | 6/09/2024               |
| 1 – 18 GHz Amplifier           | Com-Power          | PAM 118A     | UCL-3833     | 12/9/2022                | 12/9/2023               |
| Test Software                  | UCL                | Revision 1   | UCL-3108     | N/A                      | N/A                     |

**Table 3: List of equipment used for Radiated Emissions**

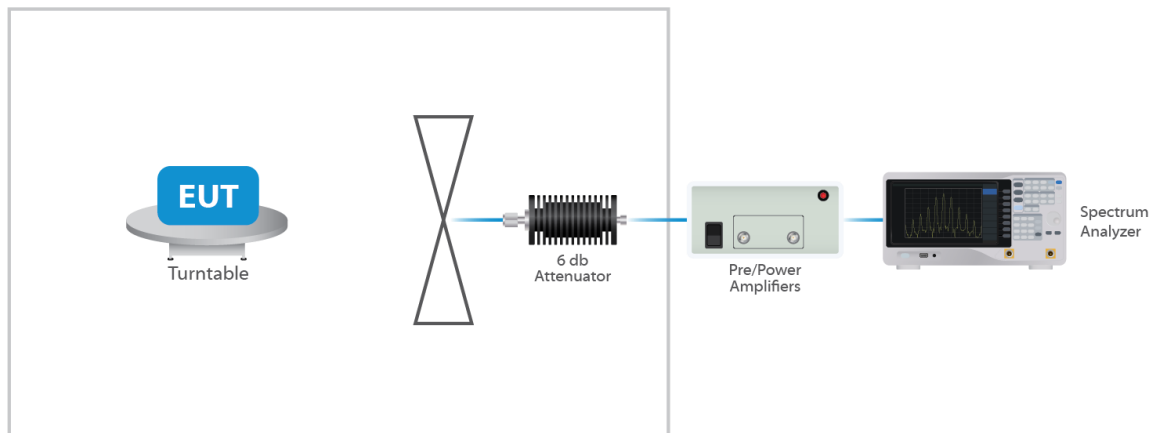


Figure 3: Radiated Emissions Test

## 4.4 Contention Base Protocol Tests

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|-------------------|--------------|--------------|--------------|--------------------------|-------------------------|
| Spectrum Analyzer | Keysight     | N9010B EXA   | UCL-7069     | 4/25/2023                | 4/25/2024               |
| Signal Generator  | Keysight     | MXG-B        | UCL-6291     | 6/29/2023                | 6/29/2024               |
| MIMO Test Set     | Keysight     | X8750A       | UCL-7373     | 9/19/2023                | 9/19/2024               |

Table 4: List of equipment used for Direct Connect at the Antenna Port

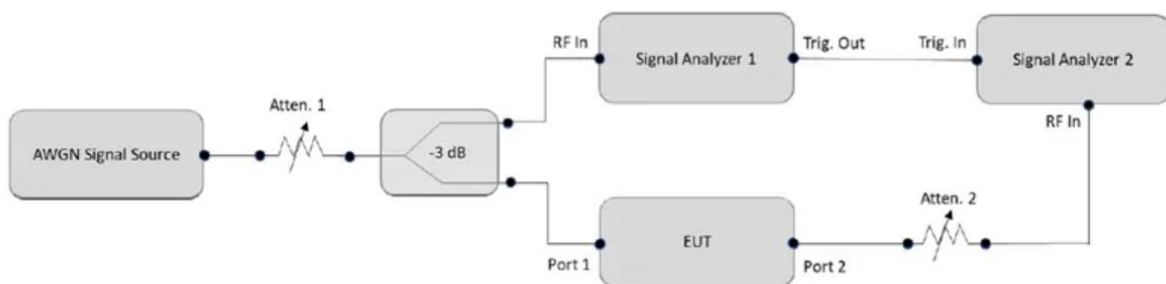


Figure 1. CBP conducted test setup diagram. Source: KDB 987594 D02 V01r01

Figure 4: Contention Base Protocol Test

## 4.5 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.

## 4.6 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 an internal integrated antenna. Per the manufacturer, the Maximum gain of the antenna per chain is 6 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable. For CDD transmissions, directional gain is calculated as follows.

Array Gain =  $10 \log(\text{NANT}/\text{NSS})$  dB

NANT = number of transmit antennas and

NSS = number of spatial streams. NSS = 1 considered worst case.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for  $\text{NANT} \leq 4$ ;

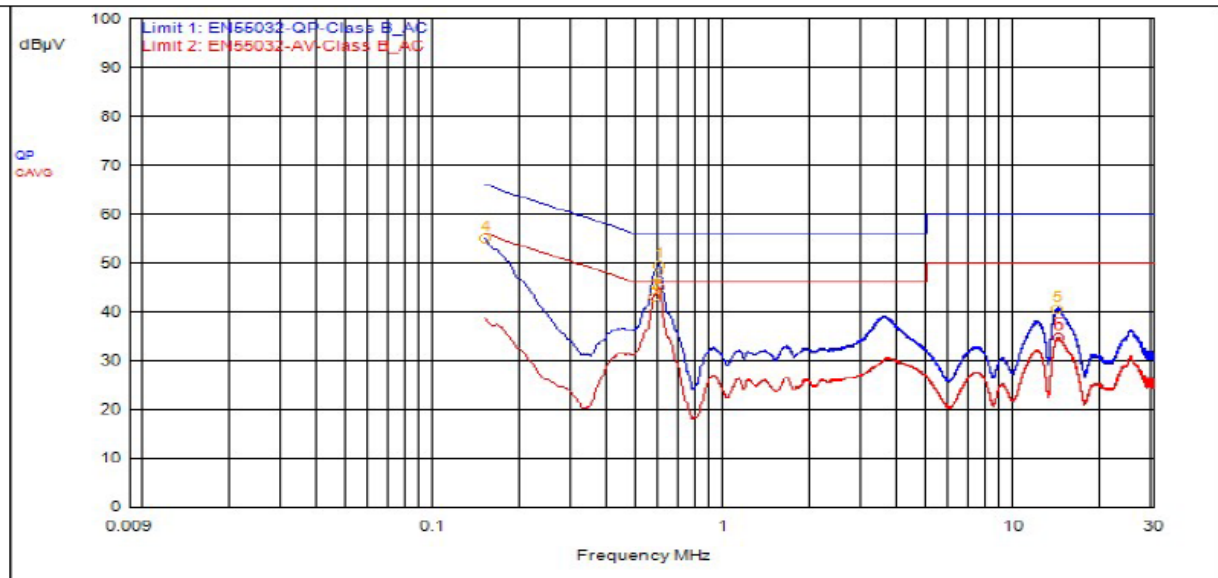
For PSD measurements when  $\text{Nss}=1$ : Array Gain =  $10 \log(\text{NANT}/\text{NSS})$  dB + Antenna Gain (dBi). Or  
 $3.01 \text{ dB} + 6.0 \text{ dBi} = 9.01 \text{ dBi}$ .

#### Results

The EUT complied with the specification

## 5.2 Conducted Emissions at Mains Ports Data

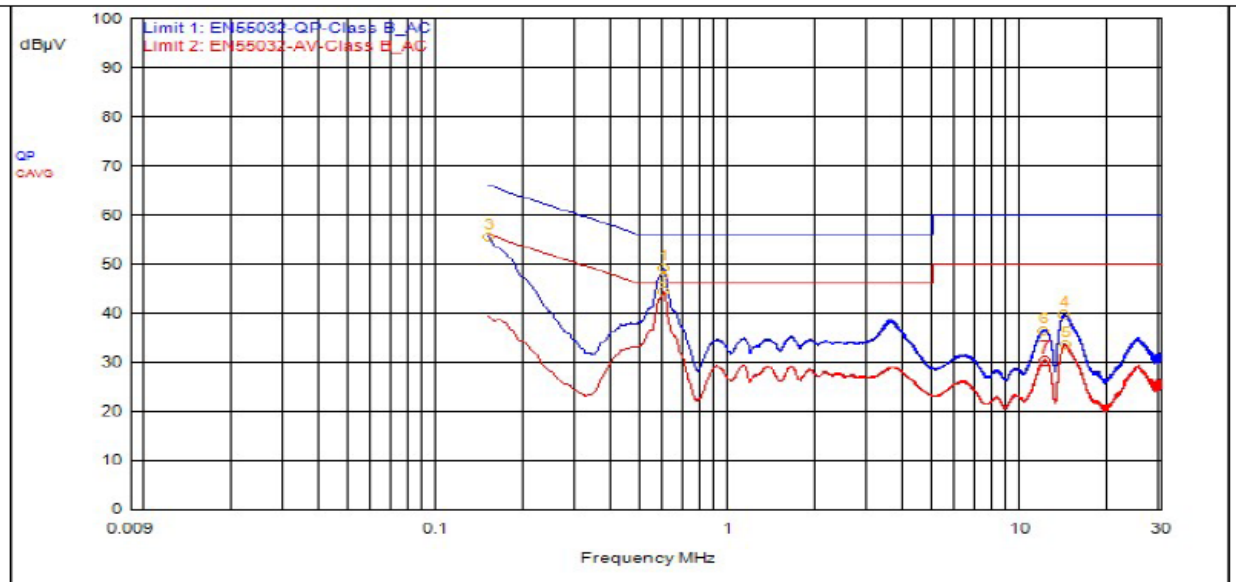
### 5.2.1 Line



| ID | Frequency  | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|----|------------|-------|-------|--------|----------|------------|------------|---------|---------------|---------|---------------|-----|
| MU | MHz        | dB    | dB    | dB     | Type     | dBμV       | dBμV       | dBμV    | dB            | dBμV    | dB            | P/F |
| 1  | 591,000kHz | 9.50  | 0.00  |        | QPeak    | 39.98      | 49.48      | 56.00   | -6.52         |         |               |     |
| 4  | 150,000kHz | 9.49  | 0.00  |        | QPeak    | 45.58      | 55.07      | 66.00   | -10.93        |         |               |     |
| 5  | 13.893     | 9.67  | 0.00  |        | QPeak    | 30.98      | 40.65      | 60.00   | -19.35        |         |               |     |
| 2  | 594,000kHz | 9.50  | 0.00  |        | C_AVG    | 35.43      | 44.93      |         |               | 46.00   | -1.07         |     |
| 3  | 570,000kHz | 9.49  | 0.00  |        | C_AVG    | 33.65      | 43.14      |         |               | 46.00   | -2.86         |     |
| 6  | 14.019     | 9.67  | 0.00  |        | C_AVG    | 25.08      | 34.75      |         |               | 50.00   | -15.25        |     |



## 5.2.2 Neutral



| ID | Frequency  | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|----|------------|-------|-------|--------|----------|------------|------------|---------|---------------|---------|---------------|-----|
| MU | MHz        | dB    | dB    | dB     | Type     | dBμV       | dBμV       | dBμV    | dB            | dBμV    | dB            | P/F |
| 1  | 594,000kHz | 9.59  | 0.00  |        | QPeak    | 39.62      | 49.21      | 56.00   | -6.79         |         |               |     |
| 3  | 150,000kHz | 9.62  | 0.00  |        | QPeak    | 45.80      | 55.42      | 66.00   | -10.58        |         |               |     |
| 4  | 13.935     | 9.72  | 0.00  |        | QPeak    | 29.91      | 39.63      | 60.00   | -20.37        |         |               |     |
| 6  | 11.739     | 9.67  | 0.00  |        | QPeak    | 26.82      | 36.49      | 60.00   | -23.51        |         |               |     |
| 2  | 597,000kHz | 9.59  | 0.00  |        | C_AVG    | 34.97      | 44.56      |         |               | 46.00   | -1.44         |     |
| 5  | 13.998     | 9.73  | 0.00  |        | C_AVG    | 23.77      | 33.50      |         |               | 50.00   | -16.50        |     |
| 7  | 11.952     | 9.68  | 0.00  |        | C_AVG    | 20.65      | 30.33      |         |               | 50.00   | -19.67        |     |

## Result

The EUT complied with the specification limit.

### 5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

| Nominal BW (MHz) | Frequency (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------------|-----------------|---------------------|-----------------------|
| 20               | 6535            | 19.1                | 23.5                  |
| 20               | 6695            | 19.2                | 22.8                  |
| 20               | 6875            | 19.1                | 22.6                  |
| 40               | 6525            | 38.3                | 42.9                  |
| 40               | 6685            | 38.0                | 42.6                  |
| 40               | 6885            | 38.0                | 42.9                  |
| 80               | 6545            | 77.5                | 87.0                  |
| 80               | 6705            | 78.5                | 88.5                  |
| 80               | 6865            | 78.5                | 88.0                  |
| 160              | 6505            | 157.0               | 170.0                 |
| 160              | 6665            | 157.0               | 174.0                 |
| 160              | 6825            | 157.0               | 168.0                 |
| 320              | 6585            | 317.5               | 335.7                 |

#### Result

All chains were tested and the highest bandwidth per chain is reported above.

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

## 5.4 §15.407(a)(3) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 23.15 dBm or 206.54 mW. The limit is 30 dBm EIRP, or 1 Watt EIRP. The antenna has a gain of 6 dBi.

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power | EIRP  | Measured PSD |
|-----------------|-----------------|-----------|------------|------------------------|-------|--------------|
| be EHT 20       | 6535            | Mcs0_Nss2 | 11         | 12.54                  | 18.54 | -1.56        |
| be EHT 20       | 6695            | Mcs0_Nss2 | 12         | 12.58                  | 18.58 | -1.27        |
| be EHT 20       | 6875            | Mcs0_Nss2 | 12         | 12.84                  | 18.84 | -1.16        |
| be EHT 40       | 6525            | Mcs0_Nss2 | 14         | 15.46                  | 21.46 | -1.65        |
| be EHT 40       | 6685            | Mcs0_Nss2 | 15         | 15.60                  | 21.60 | -1.34        |
| be EHT 40       | 6885            | Mcs0_Nss2 | 15         | 15.80                  | 21.80 | -1.35        |
| be EHT 80       | 6545            | Mcs0_Nss2 | 17         | 18.38                  | 24.38 | -1.63        |
| be EHT 80       | 6705            | Mcs0_Nss2 | 18         | 18.66                  | 24.66 | -1.31        |
| be EHT 80       | 6865            | Mcs0_Nss2 | 18         | 18.77                  | 24.77 | -1.36        |
| be EHT 160      | 6505            | Mcs0_Nss2 | 20         | 21.43                  | 27.43 | -1.44        |
| be EHT 160      | 6665            | Mcs0_Nss2 | 20         | 20.86                  | 26.86 | -1.79        |
| be EHT 160      | 6825            | Mcs0_Nss2 | 21         | 21.67                  | 27.67 | -1.21        |
| be EHT 320      | 6585            | Mcs0_Nss2 | 22         | 23.15                  | 29.15 | -2.58        |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power | EIRP  | Measured PSD |
|-----------------|-----------------|-----------|------------|------------------------|-------|--------------|
| be EHT 20       | 6535            | Mcs0_Nss1 | 8          | 9.55                   | 15.55 | -4.43        |
| be EHT 20       | 6695            | Mcs0_Nss1 | 9          | 9.57                   | 15.57 | -4.18        |
| be EHT 20       | 6875            | Mcs0_Nss1 | 9          | 9.80                   | 15.80 | -4.13        |
| be EHT 40       | 6525            | Mcs0_Nss1 | 11         | 12.28                  | 18.28 | -4.73        |
| be EHT 40       | 6685            | Mcs0_Nss1 | 12         | 12.43                  | 18.43 | -4.45        |
| be EHT 40       | 6885            | Mcs0_Nss1 | 12         | 12.65                  | 18.65 | -4.38        |

|            |      |           |    |       |       |       |
|------------|------|-----------|----|-------|-------|-------|
| be EHT 80  | 6545 | Mcs0_Nss1 | 14 | 15.43 | 21.43 | -4.52 |
| be EHT 80  | 6705 | Mcs0_Nss1 | 15 | 15.75 | 21.75 | -4.17 |
| be EHT 80  | 6865 | Mcs0_Nss1 | 15 | 15.74 | 21.74 | -4.35 |
| be EHT 160 | 6505 | Mcs0_Nss1 | 17 | 18.64 | 24.64 | -4.21 |
| be EHT 160 | 6665 | Mcs0_Nss1 | 17 | 18.02 | 24.02 | -4.64 |
| be EHT 160 | 6825 | Mcs0_Nss1 | 17 | 17.86 | 23.86 | -4.94 |
| be EHT 320 | 6585 | Mcs0_Nss1 | 20 | 21.38 | 27.38 | -4.20 |

## Result

In the configuration tested, the maximum average RF outpower was less than 1 watt EIRP; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plots in attached Annex).

## **5.5 §15.407(b)(7) 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 graphs 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 turned to the upper and lower channels with the antenna gain of 6 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be remain below -27 dBm EIRP.

#### **Result**

Conducted spurious emissions were attenuated below the limit; therefore, the EUT complies with the specification.

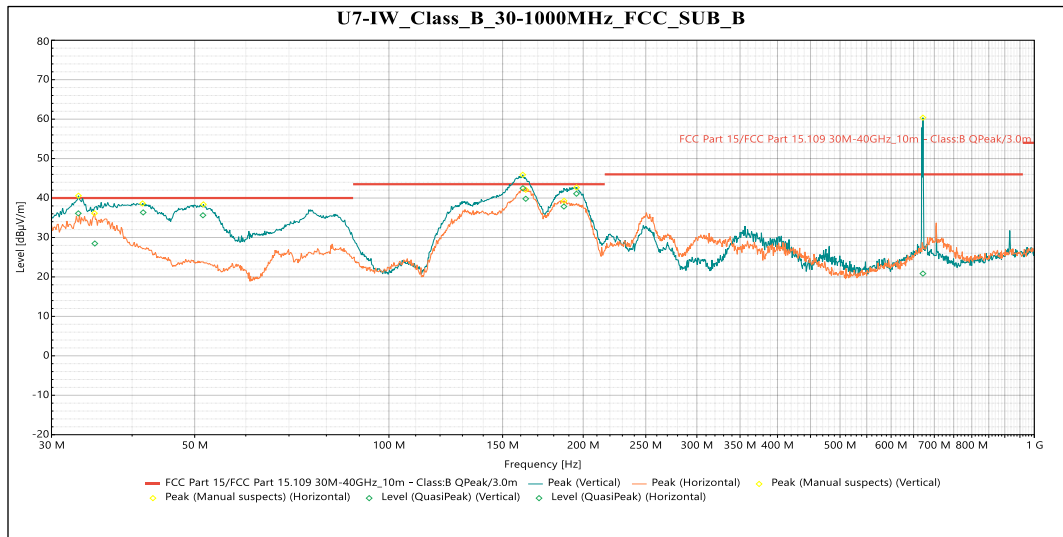
### **5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205**

The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP22.

Correction Factor = Antenna Factor + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

#### **Result**

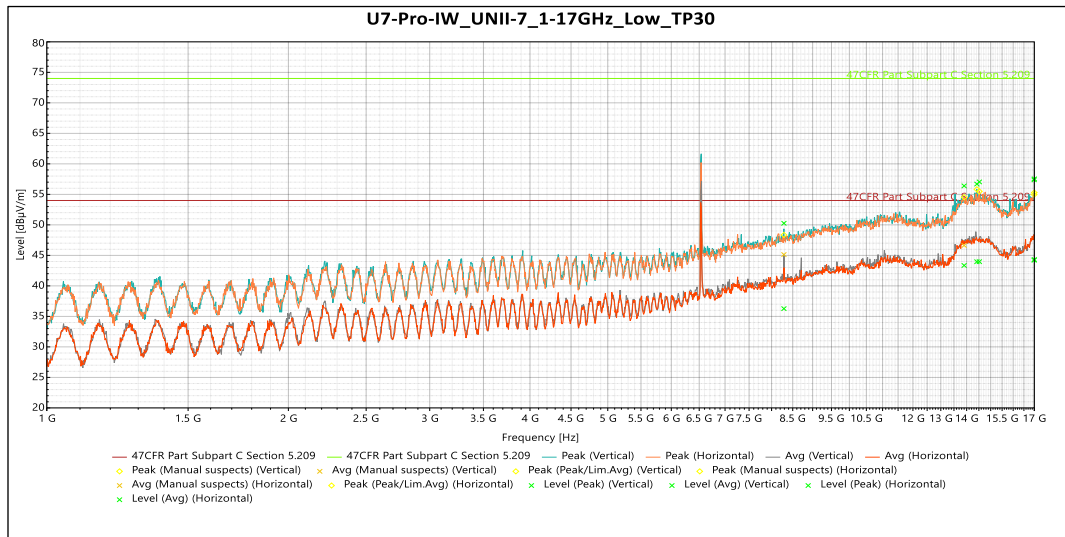
All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.



### QuasiPeak

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin  | Azimuth (°) | Height | Pol.       | Correction (dB) |
|------------|----------------|----------------|---------|-------------|--------|------------|-----------------|
| 33.017 MHz | 36.111         | 40             | -3.889  | 204         | 1.129  | Vertical   | -9.415          |
| 41.61 MHz  | 36.345         | 40             | -3.655  | 359         | 1.129  | Vertical   | -15.523         |
| 51.502 MHz | 35.629         | 40             | -4.371  | 359         | 1.129  | Vertical   | -21.223         |
| 161.28 MHz | 42.492         | 43.5           | -1.008  | 358         | 1.132  | Vertical   | -16.039         |
| 195.23 MHz | 41.094         | 43.5           | -2.406  | 353         | 1.129  | Vertical   | -15.934         |
| 672.08 MHz | 20.853         | 46             | -25.147 | 83          | 1.667  | Vertical   | -6.922          |
| 35.016 MHz | 28.469         | 40             | -11.531 | 171         | 3.65   | Horizontal | -10.579         |
| 162.92 MHz | 39.812         | 43.5           | -3.688  | 103         | 1.489  | Horizontal | -16.105         |
| 186.7 MHz  | 37.853         | 43.5           | -5.647  | 274         | 1.712  | Horizontal | -16.813         |

**Table 5: Radiated Emissions 30 – 1000 MHz**



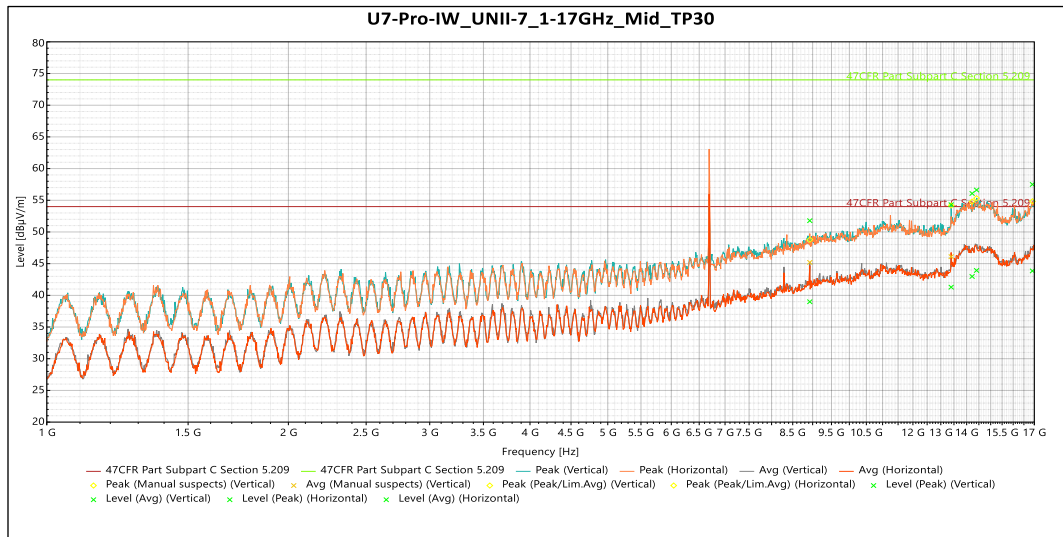
## Peak

| Frequency  | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 8.2888 GHz | 50.258         | 74             | -23.742     | 175         | 2.816      | Vertical   | 2.122           |
| 14.418 GHz | 56.694         | 74             | -17.306     | 322         | 1.5        | Vertical   | 11.898          |
| 16.999 GHz | 57.54          | 74             | -16.46      | 348         | 2.142      | Vertical   | 13.495          |
| 13.9 GHz   | 56.386         | 74             | -17.614     | 23          | 1.834      | Horizontal | 10.869          |
| 14.521 GHz | 57.038         | 74             | -16.962     | 106         | 1.638      | Horizontal | 11.785          |
| 16.992 GHz | 57.38          | 74             | -16.62      | 84          | 4          | Horizontal | 13.512          |

Avg

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 8.2888 GHz | 36.268         | 54             | -17.732     | 175         | 2.816      | Vertical   | 2.122           |
| 14.418 GHz | 43.96          | 54             | -10.04      | 322         | 1.5        | Vertical   | 11.898          |
| 16.999 GHz | 44.325         | 54             | -9.675      | 348         | 2.142      | Vertical   | 13.495          |
| 13.9 GHz   | 43.354         | 54             | -10.646     | 23          | 1.834      | Horizontal | 10.869          |
| 14.521 GHz | 43.965         | 54             | -10.035     | 106         | 1.638      | Horizontal | 11.785          |
| 16.992 GHz | 44.198         | 54             | -9.802      | 84          | 4          | Horizontal | 13.512          |

Table 6: Radiated Emissions 1 – 17 GHz on the Lowest Frequency



## Peak

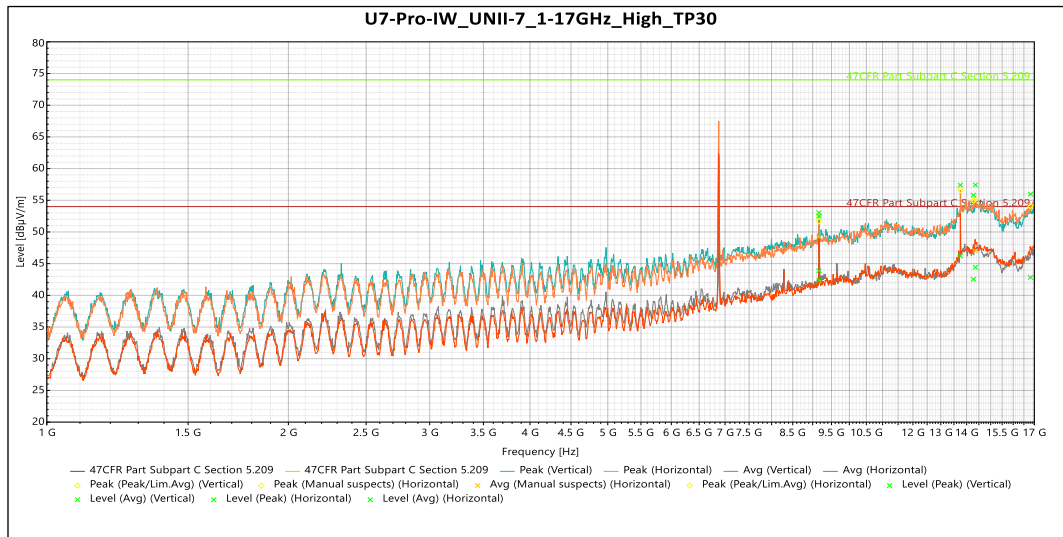
| Frequency  | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 8.9269 GHz | 51.783         | 74             | -22.217     | 222         | 1.838      | Vertical   | 4.115           |
| 13.393 GHz | 54.296         | 74             | -19.704     | 159         | 2.146      | Vertical   | 9.161           |
| 14.404 GHz | 56.618         | 74             | -17.382     | 301         | 1.643      | Vertical   | 12.014          |
| 14.221 GHz | 56.074         | 74             | -17.926     | 336         | 4          | Horizontal | 11.142          |
| 16.909 GHz | 57.504         | 74             | -16.496     | 120         | 3.802      | Horizontal | 13.186          |

Avg

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 8.9269 GHz | 38.985         | 54             | -15.015     | 222         | 1.838      | Vertical   | 4.115           |
| 13.393 GHz | 41.291         | 54             | -12.709     | 159         | 2.146      | Vertical   | 9.161           |
| 14.404 GHz | 43.931         | 54             | -10.069     | 301         | 1.643      | Vertical   | 12.014          |
| 14.221 GHz | 42.982         | 54             | -11.018     | 336         | 4          | Horizontal | 11.142          |
| 16.909 GHz | 43.851         | 54             | -10.149     | 120         | 3.802      | Horizontal | 13.186          |

Table 7: Radiated Emissions 1 – 17 GHz on the Middle Frequency





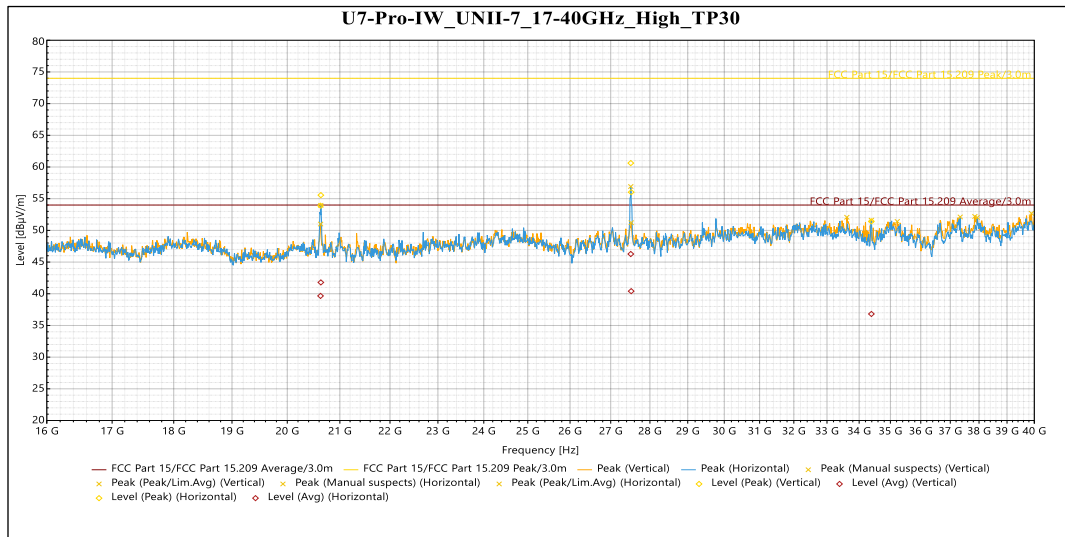
### Peak

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 9.1668 GHz | 52.517         | 74             | -21.483     | 136         | 1.5        | Vertical   | 4.448           |
| 14.277 GHz | 55.823         | 74             | -18.177     | 147         | 4          | Vertical   | 11.365          |
| 16.818 GHz | 55.977         | 74             | -18.023     | 6           | 2.816      | Vertical   | 13.062          |
| 9.1663 GHz | 53.042         | 74             | -20.958     | 76          | 3.798      | Horizontal | 4.446           |
| 13.75 GHz  | 57.395         | 74             | -16.605     | 219         | 1.5        | Horizontal | 10.39           |
| 14.359 GHz | 57.417         | 74             | -16.583     | 315         | 1.638      | Horizontal | 11.925          |

### Avg

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|------------|-----------------|
| 9.1668 GHz | 42.397         | 54             | -11.603     | 136         | 1.5        | Vertical   | 4.448           |
| 14.277 GHz | 42.541         | 54             | -11.459     | 147         | 4          | Vertical   | 11.365          |
| 16.818 GHz | 42.831         | 54             | -11.169     | 6           | 2.816      | Vertical   | 13.062          |
| 9.1663 GHz | 43.884         | 54             | -10.116     | 76          | 3.798      | Horizontal | 4.446           |
| 13.75 GHz  | 46.222         | 54             | -7.778      | 219         | 1.5        | Horizontal | 10.39           |
| 14.359 GHz | 44.411         | 54             | -9.589      | 315         | 1.638      | Horizontal | 11.925          |

**Table 8: Radiated Emissions 1 – 17 GHz on the Highest Frequency**



### Peak

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|-----------------|
| 20.627 GHz | 53.892         | 74             | -20.108     | 54          | Vertical   | -0.114          |
| 27.518 GHz | 56.026         | 74             | -17.974     | 21          | Vertical   | 1.138           |
| 20.633 GHz | 55.561         | 74             | -18.439     | 72          | Horizontal | -0.005          |
| 27.508 GHz | 60.624         | 74             | -13.376     | 350         | Horizontal | 1.046           |
| 34.388 GHz | 51.429         | 74             | -22.571     | 344         | Horizontal | 1.405           |

### Avg

| Frequency  | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Pol.       | Correction (dB) |
|------------|----------------|----------------|-------------|-------------|------------|-----------------|
| 20.627 GHz | 39.659         | 54             | -14.341     | 54          | Vertical   | -0.114          |
| 27.518 GHz | 40.407         | 54             | -13.593     | 21          | Vertical   | 1.138           |
| 20.633 GHz | 41.789         | 54             | -12.211     | 72          | Horizontal | -0.005          |
| 27.508 GHz | 46.268         | 54             | -7.732      | 350         | Horizontal | 1.046           |
| 34.388 GHz | 36.808         | 54             | -17.192     | 344         | Horizontal | 1.405           |

**Table 9: Radiated Emissions 17 – 40 GHz on the Highest Frequency**

## 5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 5 dBm EIRP in any 1 MHz band during any time interval of continuous transmission. As per KDB 662911, When the EUT is using spatial-multiplexing in HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 6 dBi + Array gain of 3.01 dB which is a total of 9.01 dBi.

Results of this testing are summarized.

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power | EIRP  | Measured PSD |
|-----------------|-----------------|-----------|------------|------------------------|-------|--------------|
| be EHT 20       | 6535            | Mcs0_Nss2 | 11         | 12.54                  | 18.54 | -1.56        |
| be EHT 20       | 6695            | Mcs0_Nss2 | 12         | 12.58                  | 18.58 | -1.27        |
| be EHT 20       | 6875            | Mcs0_Nss2 | 12         | 12.84                  | 18.84 | -1.16        |
| be EHT 40       | 6525            | Mcs0_Nss2 | 14         | 15.46                  | 21.46 | -1.65        |
| be EHT 40       | 6685            | Mcs0_Nss2 | 15         | 15.60                  | 21.60 | -1.34        |
| be EHT 40       | 6885            | Mcs0_Nss2 | 15         | 15.80                  | 21.80 | -1.35        |
| be EHT 80       | 6545            | Mcs0_Nss2 | 17         | 18.38                  | 24.38 | -1.63        |
| be EHT 80       | 6705            | Mcs0_Nss2 | 18         | 18.66                  | 24.66 | -1.31        |
| be EHT 80       | 6865            | Mcs0_Nss2 | 18         | 18.77                  | 24.77 | -1.36        |
| be EHT 160      | 6505            | Mcs0_Nss2 | 20         | 21.43                  | 27.43 | -1.44        |
| be EHT 160      | 6665            | Mcs0_Nss2 | 20         | 20.86                  | 26.86 | -1.79        |
| be EHT 160      | 6825            | Mcs0_Nss2 | 21         | 21.67                  | 27.67 | -1.21        |
| be EHT 320      | 6585            | Mcs0_Nss2 | 22         | 23.15                  | 29.15 | -2.58        |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Conducted Output Power | EIRP  | Measured PSD |
|-----------------|-----------------|-----------|------------|------------------------|-------|--------------|
| be EHT 20       | 6535            | Mcs0_Nss1 | 8          | 9.55                   | 15.55 | -4.43        |
| be EHT 20       | 6695            | Mcs0_Nss1 | 9          | 9.57                   | 15.57 | -4.18        |
| be EHT 20       | 6875            | Mcs0_Nss1 | 9          | 9.80                   | 15.80 | -4.13        |
| be EHT 40       | 6525            | Mcs0_Nss1 | 11         | 12.28                  | 18.28 | -4.73        |

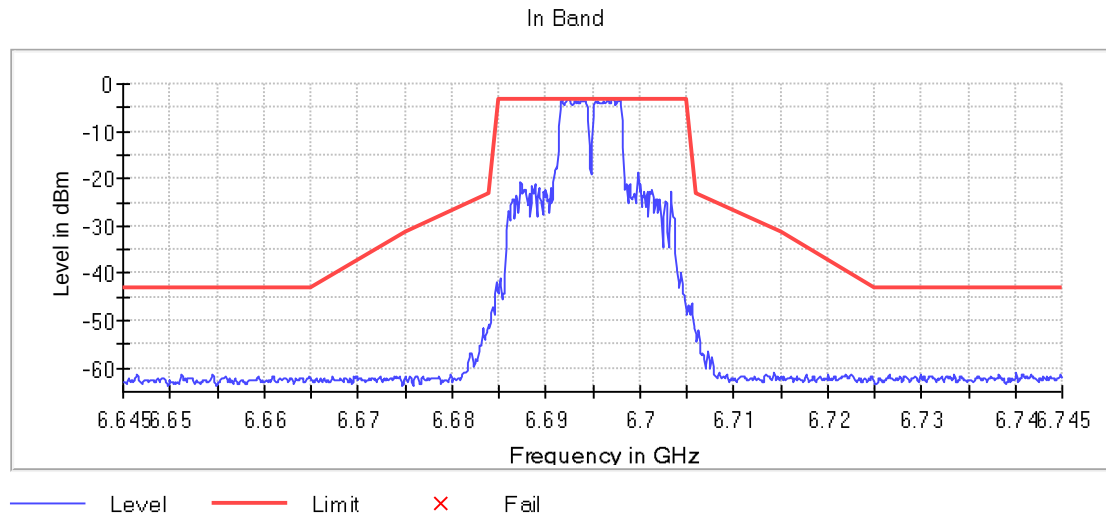
|            |      |           |    |       |       |       |
|------------|------|-----------|----|-------|-------|-------|
| be EHT 40  | 6685 | Mcs0_Nss1 | 12 | 12.43 | 18.43 | -4.45 |
| be EHT 40  | 6885 | Mcs0_Nss1 | 12 | 12.65 | 18.65 | -4.38 |
| be EHT 80  | 6545 | Mcs0_Nss1 | 14 | 15.43 | 21.43 | -4.52 |
| be EHT 80  | 6705 | Mcs0_Nss1 | 15 | 15.75 | 21.75 | -4.17 |
| be EHT 80  | 6865 | Mcs0_Nss1 | 15 | 15.74 | 21.74 | -4.35 |
| be EHT 160 | 6505 | Mcs0_Nss1 | 17 | 18.64 | 24.64 | -4.21 |
| be EHT 160 | 6665 | Mcs0_Nss1 | 17 | 18.02 | 24.02 | -4.64 |
| be EHT 160 | 6825 | Mcs0_Nss1 | 17 | 17.86 | 23.86 | -4.94 |
| be EHT 320 | 6585 | Mcs0_Nss1 | 20 | 21.38 | 27.38 | -4.20 |

## Result

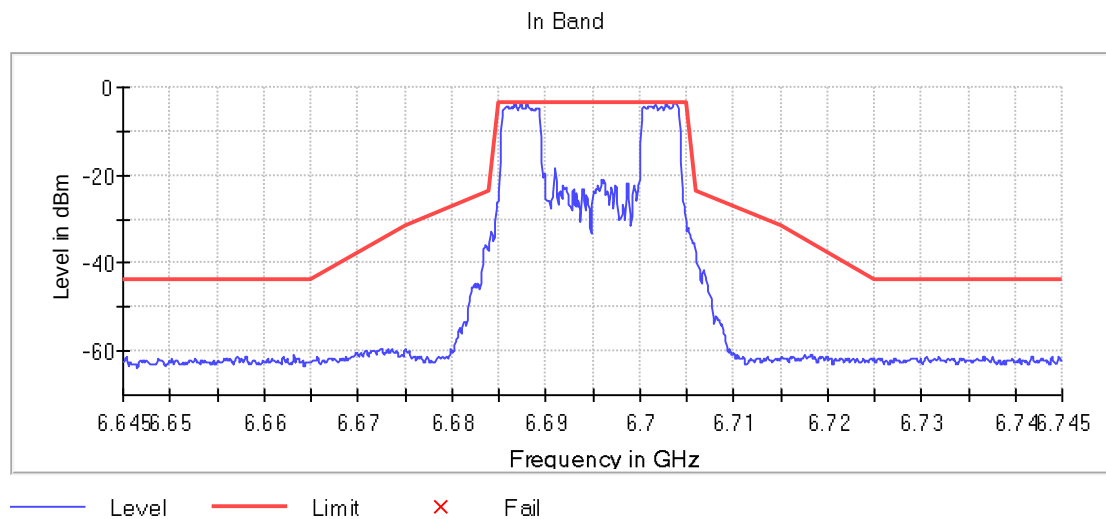
The maximum average power spectral density was less than the limit of 5 dBm EIRP and -4.01 for Nss1; therefore, the EUT complies with the specification.

### 5.6.1 OFDMA RU Check

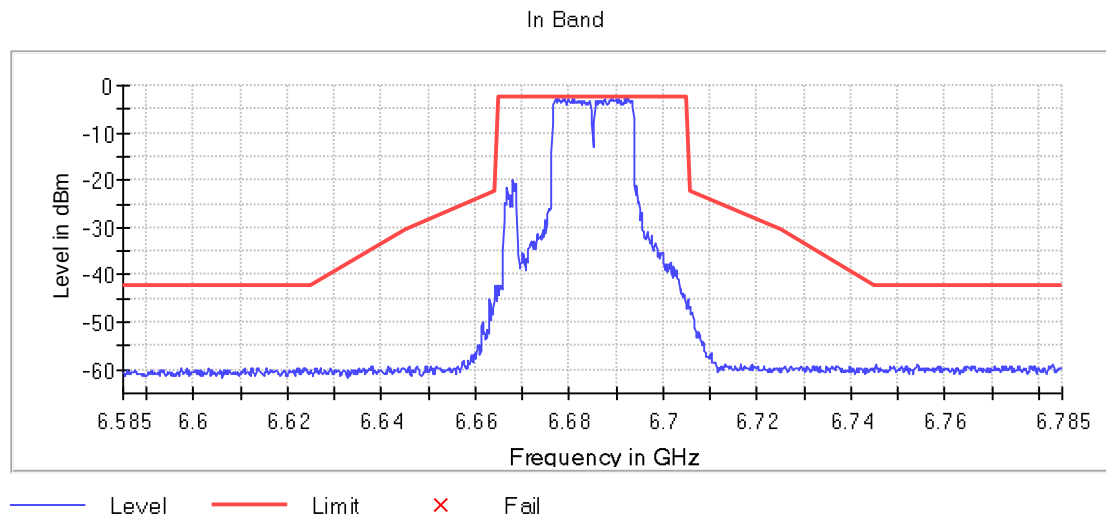
If EUT supports OFDMA multiple partial Resource Unit (RU) configurations were verified and the worst case mode was tested.



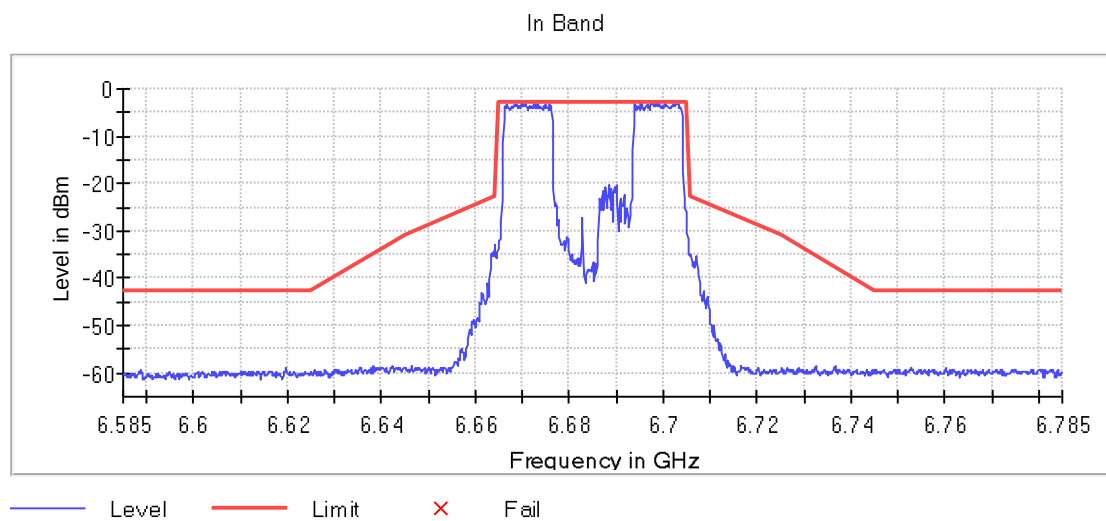
**Figure 5: 6695 20MHz RU Vérification - Center**



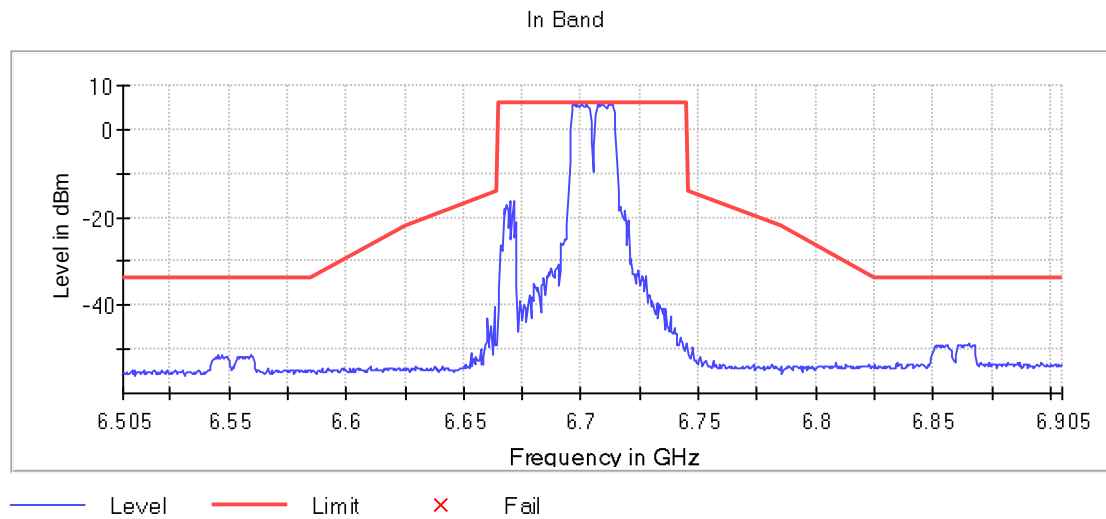
**Figure 6: 6695 20MHz RU Vérification - Edge**



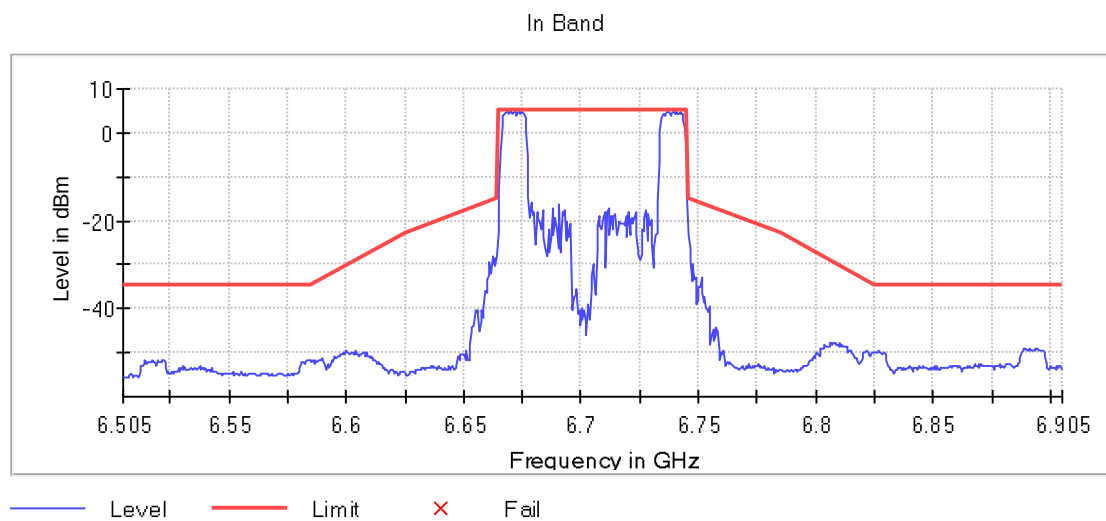
**Figure 7: 6685 40MHz RU Vérification - Center**



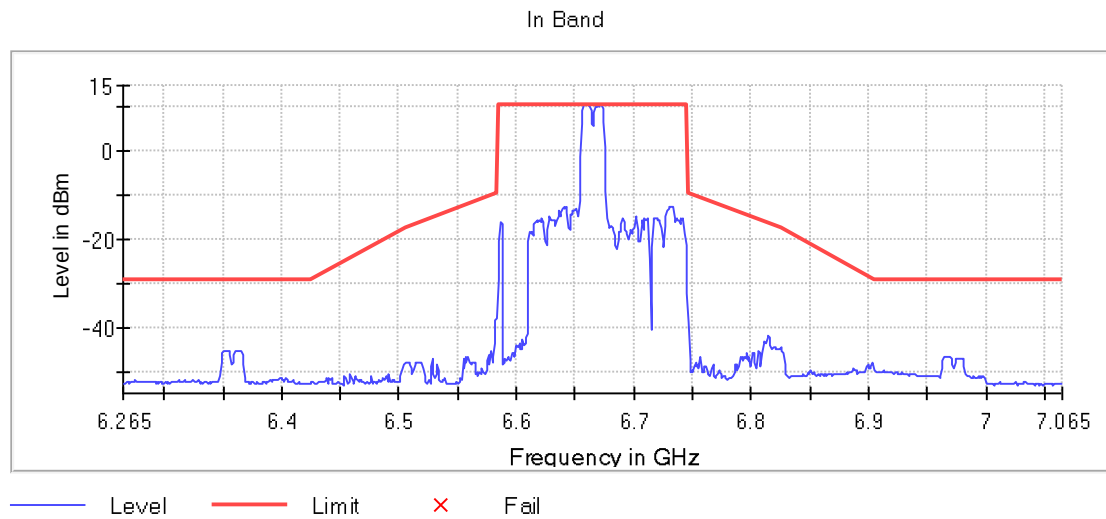
**Figure 8: 6685 40MHz RU Vérification - Edge**



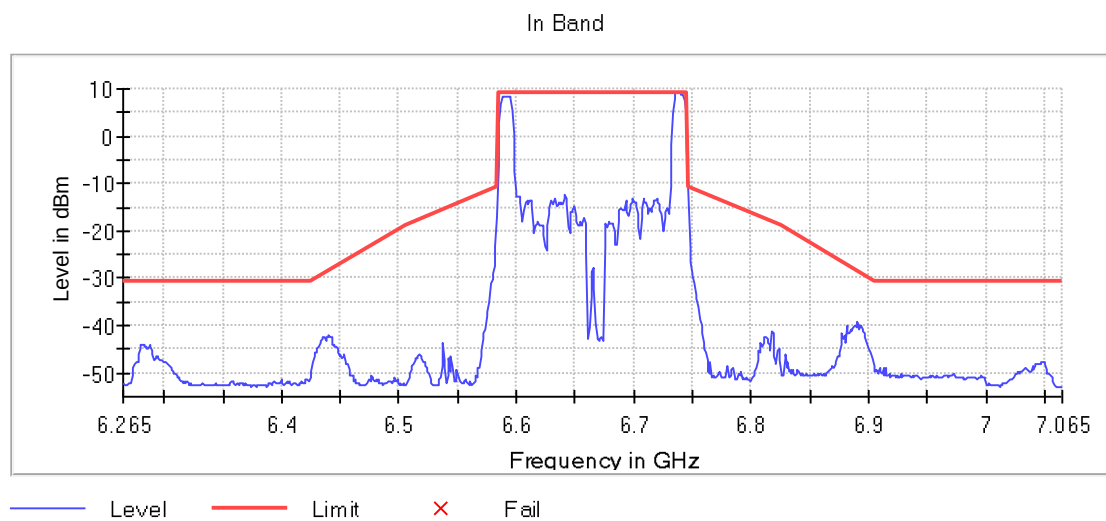
**Figure 9: 6705 80MHz RU Vérification - Center**



**Figure 10: 6705 80MHz RU Vérification - Edge**



**Figure 11: 6665 160MHz RU Vérification - Center**



**Figure 12: 6665 160MHz RU Vérification - Edge**



## 5.7 §15.407(d) Contention Based Protocol

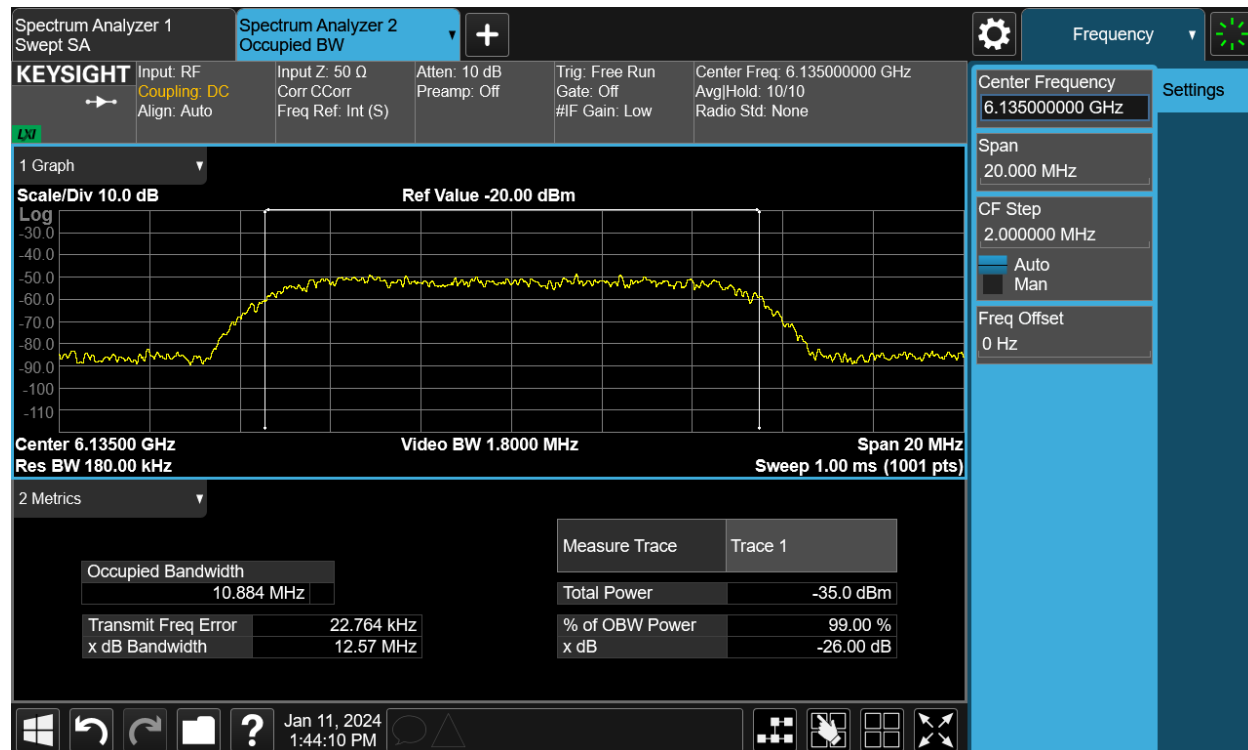
This product was tested and found to be compliant with the requirements of Contention-based Protocol as specified in FCC Part 15.407 and KDB 987594 D02.

Initially the test setup was connected directly to the signal source with all splitters (splitters terminated with a 50-ohm loads on unused ports) and cables in place to verify the AWGN signal is 10MHz wide at a signal level of less than or equal to -82dBm and for conducted measurements the threshold was adjusted for an antenna gain of 0 dBi. The level at the signal generator required to achieve the required signal level at the DUT was recorded for use during testing.

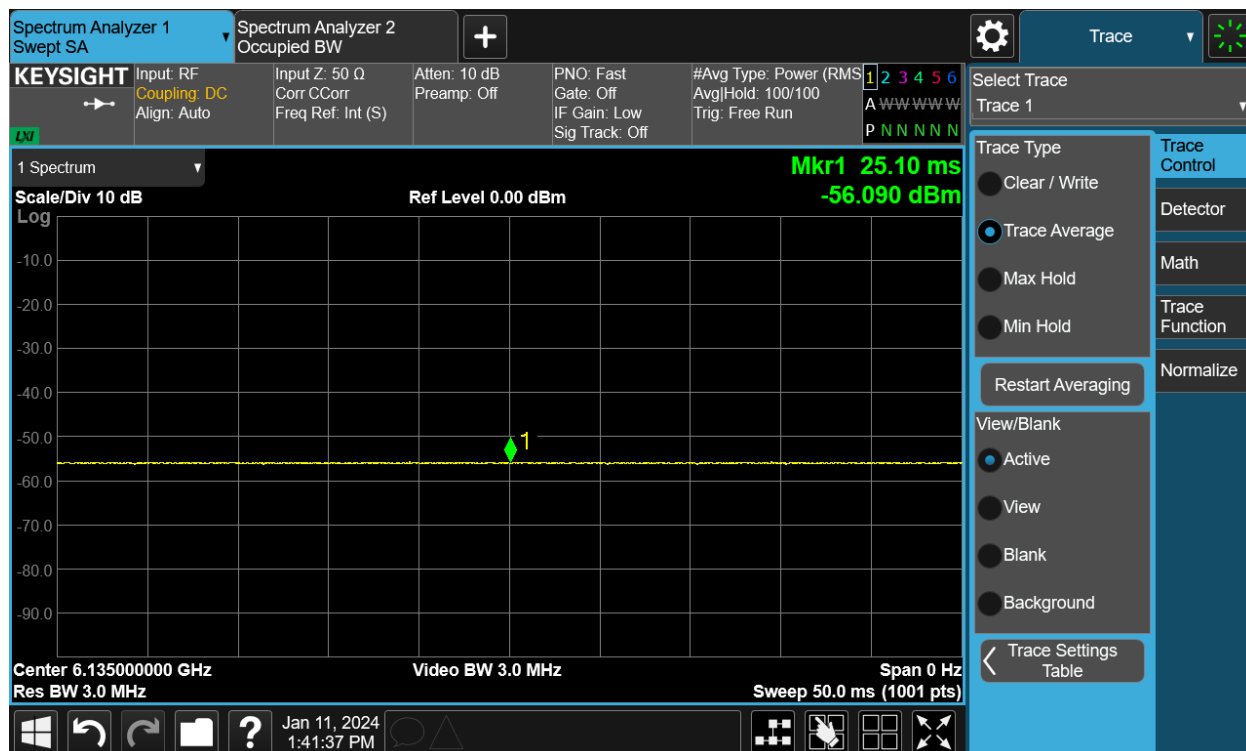
The DUT was connected as shown in figure 4 above and set to transmit at a constant duty cycle at each frequency and bandwidth noted in the table below and verified to be communicating with the companion device as intended.

Starting at the levels established above, the AWGN signal was introduced to the DUT and increased to determine a threshold level at where the DUT will terminate with at least a 90% detection rate. The level at the DUT, which the 90% detection rate was achieved was recorded as the “Sensitivity Level” below.

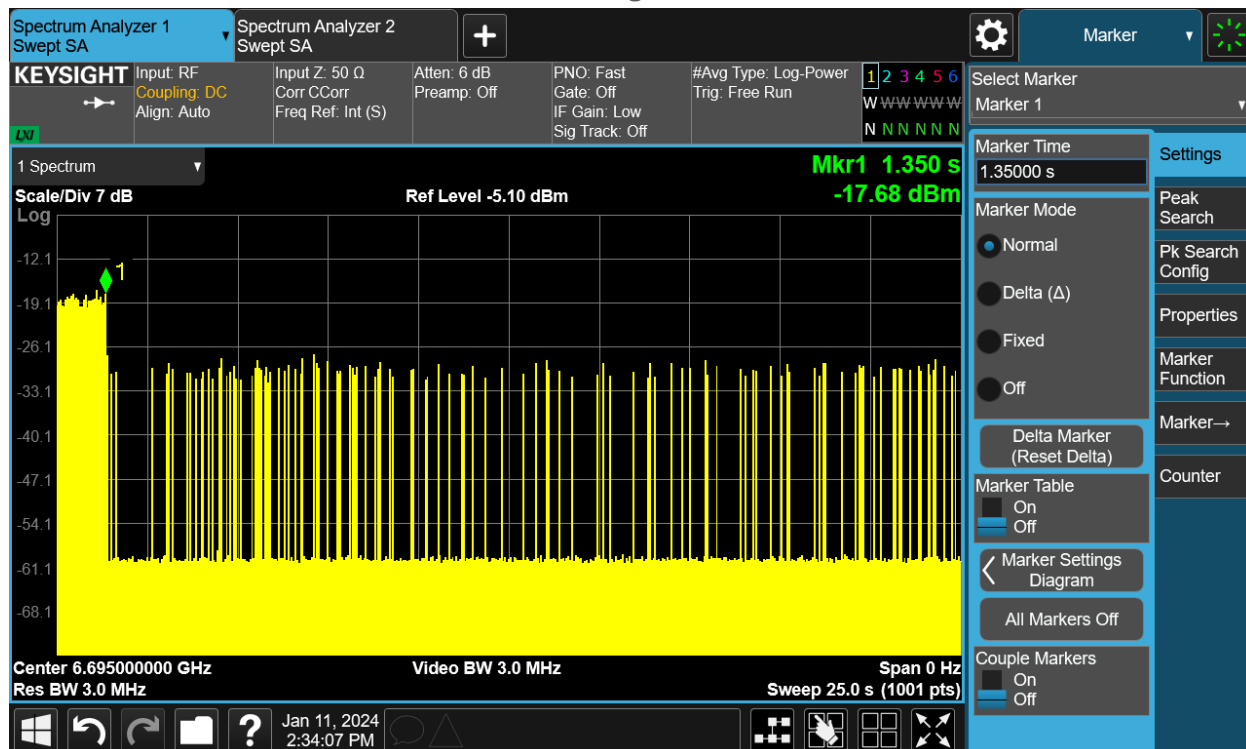
Testing shall be repeated at each applicable channel and bandwidth as noted in Table 1 of KDB 987594 D02.



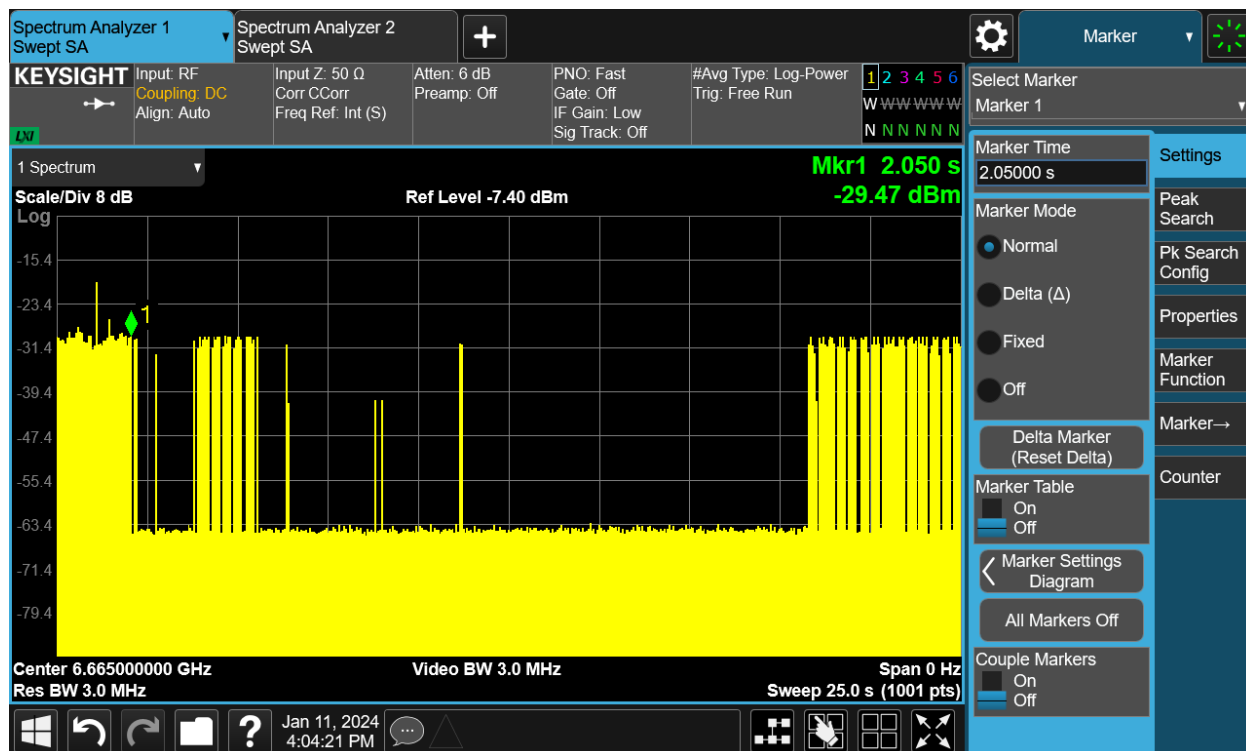
Plot 1: Signal BW Details



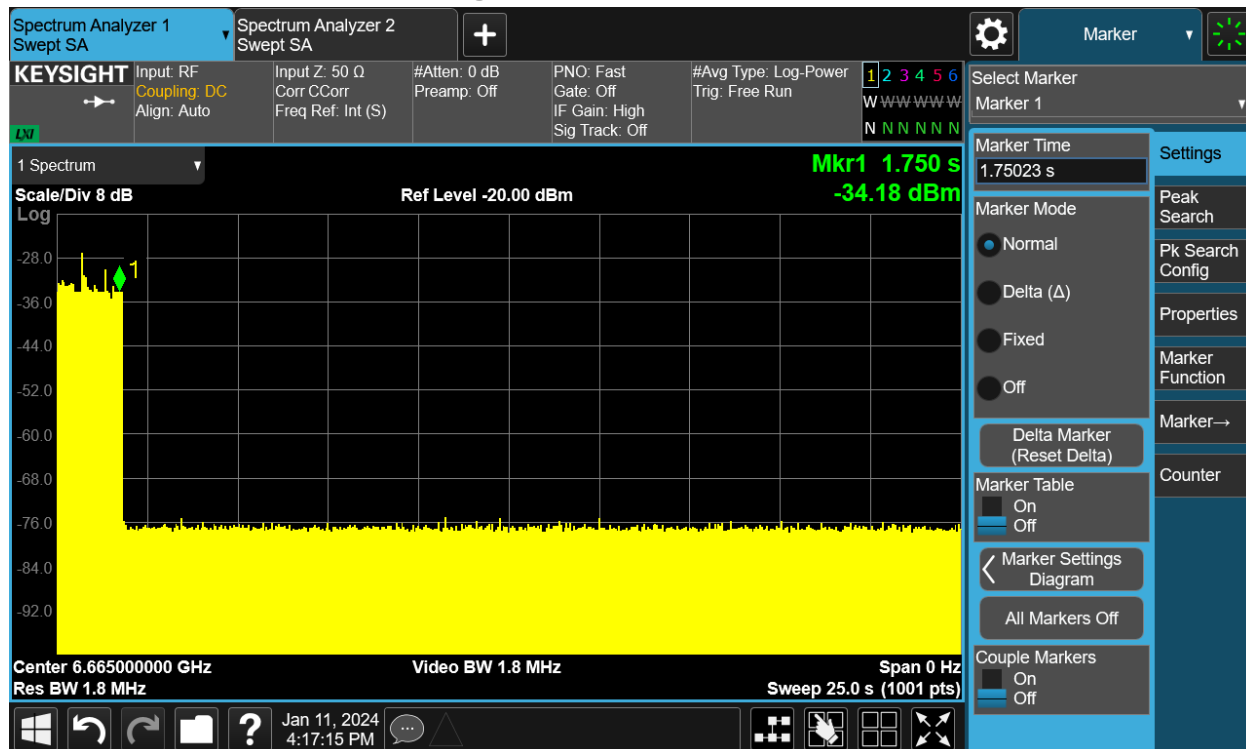
Plot 2: AWGN Signal Level Details



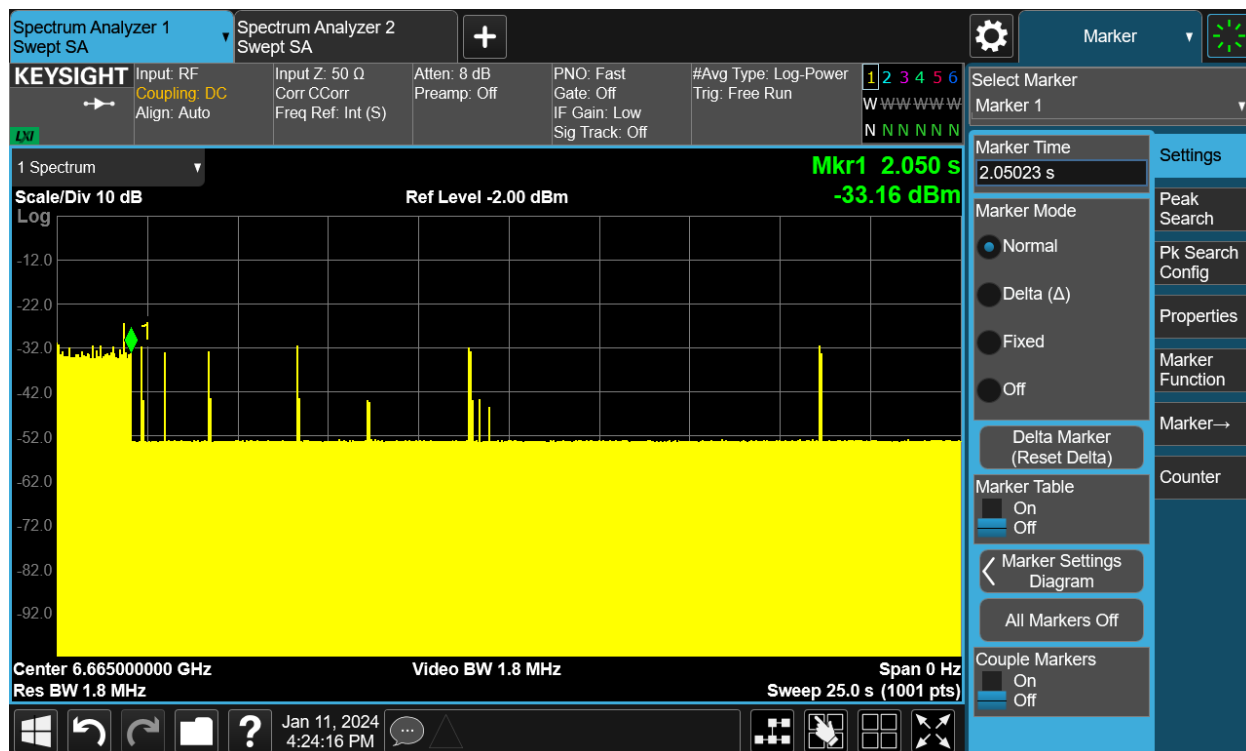
Plot 3: AWGN Signal Detection Details 20MHz BW, 6695



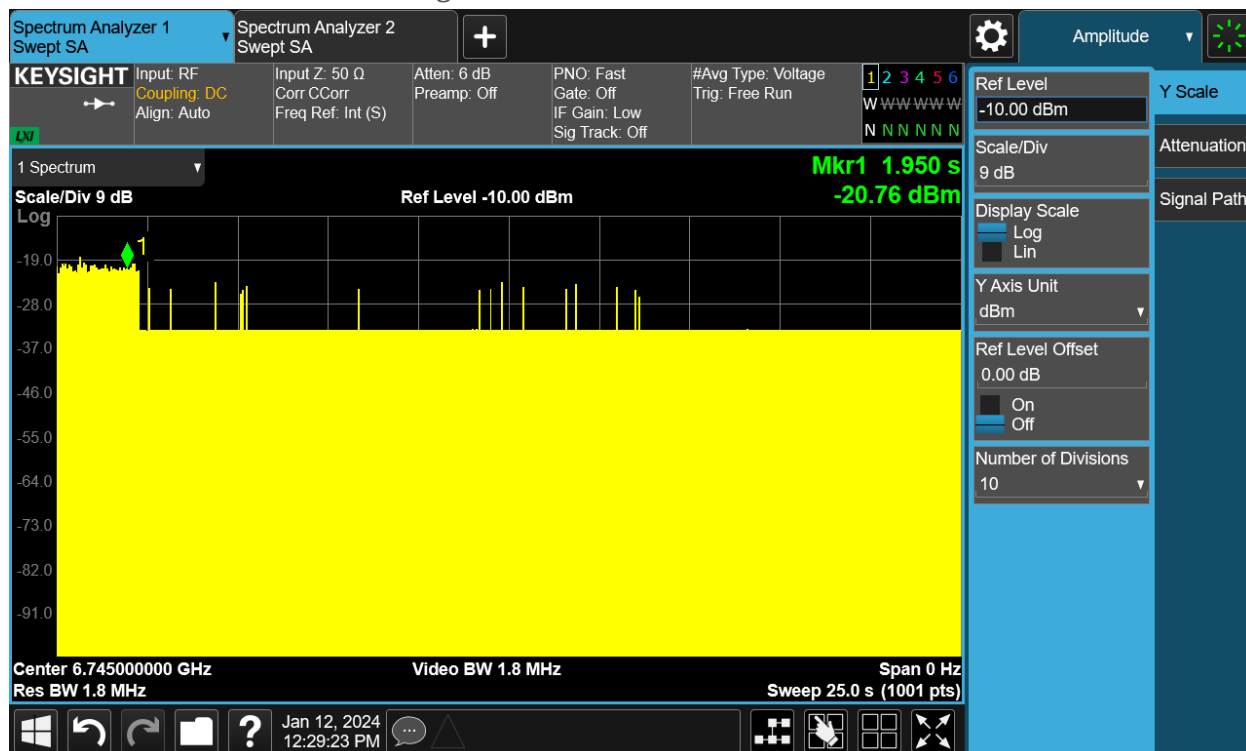
Plot 4: AWGN Signal Detection Details 160MHz BW, 6595



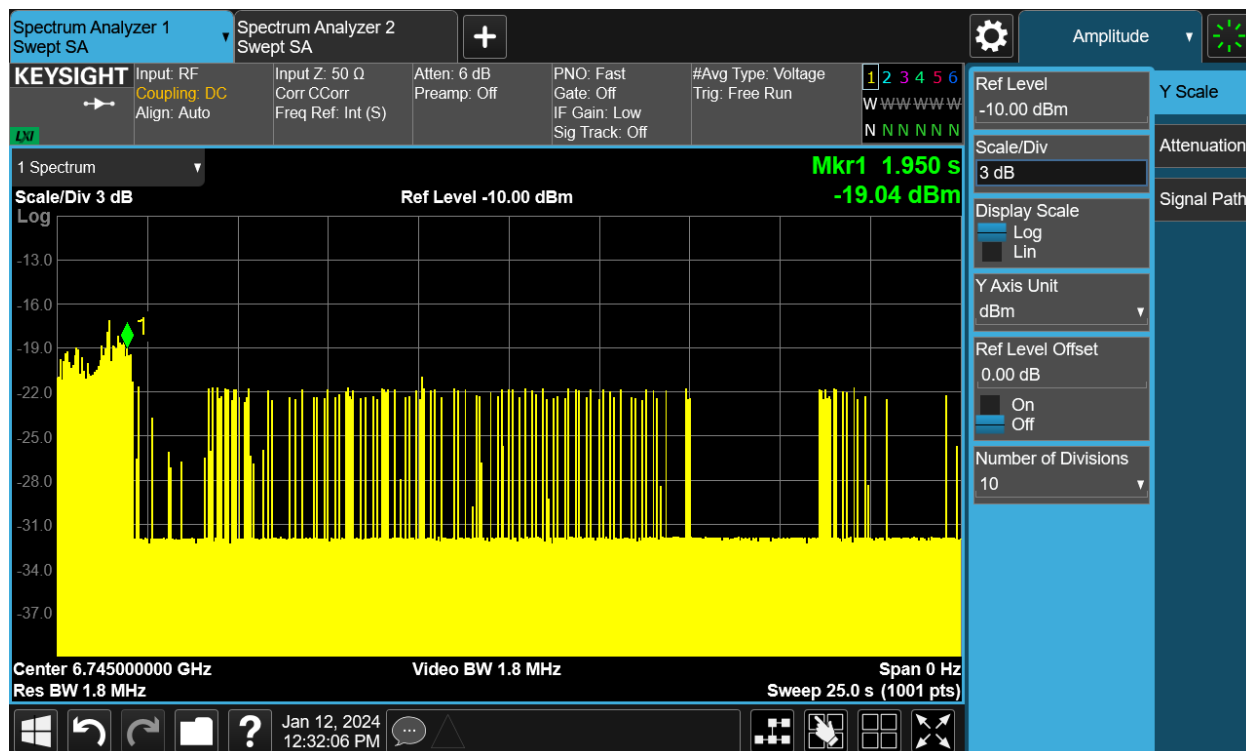
Plot 5: AWGN Signal Detection Details 160MHz BW, 6665 - 6665



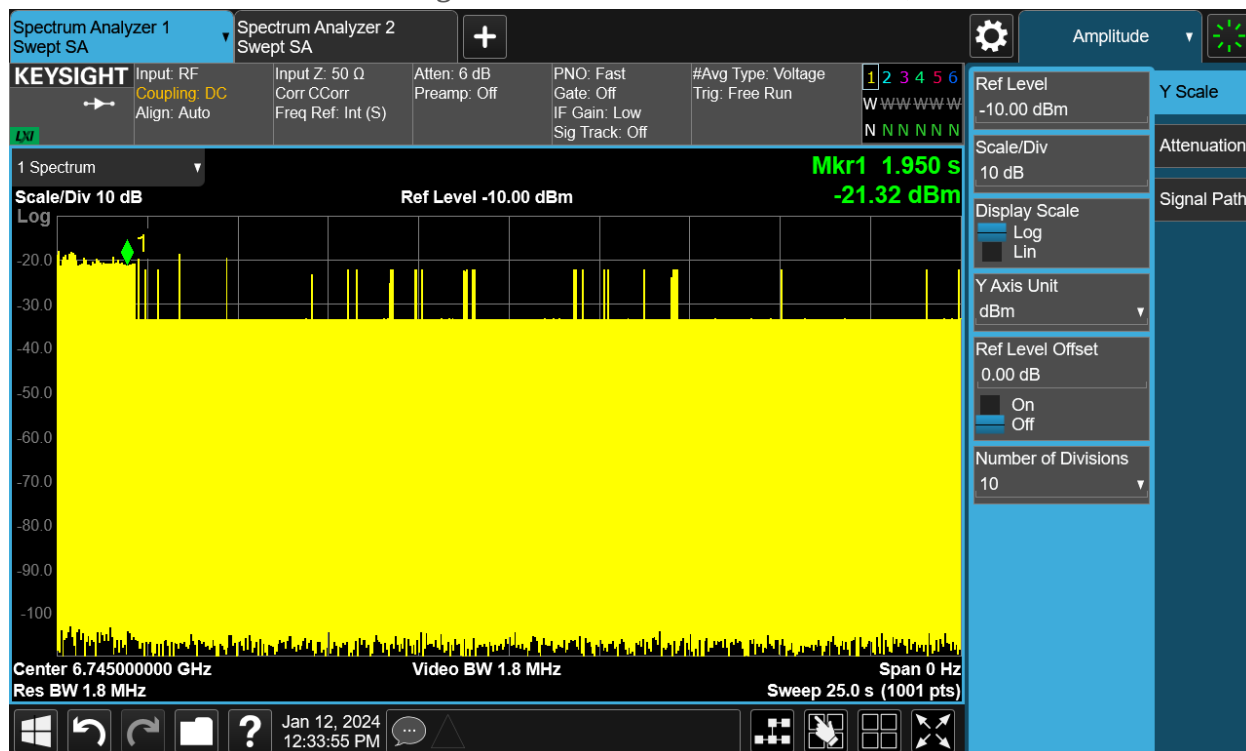
Plot 6: AWGN Signal Detection Details 160MHz BW, 6665-6740



Plot 7: AWGN Signal Detection Details 320MHz BW, 7645-6590



Plot 8: AWGN Signal Detection Details 320MHz BW, 6745-6745



Plot 9: AWGN Signal Detection Details 320MHz BW, 6745-6860

## Contention Based Protocol 987594 D02 U-NNI 6 GHz EMC Measurement

| Band                       | BW <sub>EUT</sub> | F <sub>c1</sub> | F <sub>c2</sub> | Signal Power Level (dBm) | Detection Rate (%) | Margin (dB) |
|----------------------------|-------------------|-----------------|-----------------|--------------------------|--------------------|-------------|
| UNII-5<br>5.925 - 6.425GHz | 20                | 6135            | 6135            | -74                      | 100                | 18          |
|                            | 160               | 6185            | 6110            | -62                      | 100                | 6           |
|                            |                   |                 | 6185            | -74                      | 100                | 18          |
|                            |                   |                 | 6260            | -61                      | 100                | 5           |
|                            | 320               | 6265            | 6110            | -63                      | 100                | 7           |
|                            |                   |                 | 6265            | -57                      | 100                | 1           |
|                            |                   |                 | 6410            | -62                      | 100                | 6           |
| UNII-6<br>6.425 - 6.525GHz | 20                | 6455            | 6455            | -74                      | 100                | 18          |
|                            | 160               | 6505            | 6430            | -58                      | 100                | 2           |
|                            |                   |                 | 6505            | -74                      | 100                | 18          |
|                            |                   |                 | 6580            | -62                      | 100                | 6           |
| UN1I-7<br>6.525 - 6.875GHz | 20                | 6695            | 6695            | -74                      | 100                | 18          |
|                            | 160               | 6665            | 6595            | -58                      | 100                | 2           |
|                            |                   |                 | 6665            | -59                      | 100                | 3           |
|                            |                   |                 | 6740            | -68                      | 100                | 12          |
|                            | 320               | 6745            | 6590            | -67                      | 100                | 11          |
|                            |                   |                 | 6745            | -58                      | 100                | 2           |
|                            |                   |                 | 6860            | -67                      | 100                | 11          |
| UNII-8<br>6.875 - 7.125GHz | 20                | 7015            | 7015            | -74                      | 100                | 18          |
|                            | 160               | 6985            | 6910            | -59                      | 100                | 3           |
|                            |                   |                 | 6985            | -60                      | 100                | 4           |
|                            |                   |                 | 7060            | -71                      | 100                | 15          |

Table 10: Trial Table

**Result**

The EUT complies with the specification.

**-- End of Test Report --**