

## Test Report No.: UL-RPT-RP-14647518-1416-FCC

**Applicant \*** : Eseye Design Limited  
**Model No. \*** : Hera604v6  
**FCC ID \*** : 2AASBHERAQ4029  
**Technology \*** : WLAN 5 GHz (802.11 a, n, ac)  
**Test Standard(s)** : **FCC Parts 15.207, 15.209(a) & 15.407**

For details of applied tests refer to test result summary

1. This test report shall not be reproduced in full or partial, without the written approval of UL International Germany GmbH.
2. The results in this report apply only to the sample tested.
3. The test results in this report are traceable to the national or international standards.
4. Test Report Version 1.1 supersede Version 1.0 with immediate effect  
Test Report No. UL-RPT-RP-14647518-1416-FCC Version 1.1, Issue Date 18 March 2026 replaces  
Test Report No. UL-RPT-RP-14647518-1416-FCC Version 1.0, Issue Date 24 May 2024, which is no longer valid.
5. Result of the tested sample: **PASS**
6. All information marked with a (\*) were provided by customer / applicant or authorized representative



Approved by: Rachid, Acharkaoui  
Title: Operations Manager  
Date: 18 March 2026



Approved by Bernd Woerl  
Title: Staff Laboratory Engineer  
Date: 18 March 2026



Deutsche  
Akkreditierungsstelle  
D-PL-19381-02-00

This laboratory is accredited by DAkkS.  
The tests reported herein have been performed in  
accordance with its' terms of accreditation.

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## **1. Customer Information \***

### **1.1.Applicant Information**

|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Company Name:</b>           | Eseye Design Limited               |
| <b>Company Address:</b>        | 20 Nugent Road, Guildford, GU2 7AF |
| <b>Contact Person:</b>         | Jon Darley                         |
| <b>Contact E-Mail Address:</b> | jdarley@eseye.com                  |
| <b>Contact Phone No.:</b>      | +44 1483 802 503                   |

### **1.2.Manufacturer Information**

|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Company Name:</b>           | Eseye Design Limited               |
| <b>Company Address:</b>        | 20 Nugent Road, Guildford, GU2 7AF |
| <b>Contact Person:</b>         | Jon Darley                         |
| <b>Contact E-Mail Address:</b> | jdarley@eseye.com                  |
| <b>Contact Phone No.:</b>      | +44 1483 802 503                   |

## 2. Summary of Testing

### 2.1. General Information

#### Applied Standards

|                                 |                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specification Reference:</b> | 47CFR15.407 and 47CFR15.403                                                                                                                                               |
| <b>Specification Title:</b>     | Code of Federal Regulations Volume 47 (Telecommunications):<br>Part 15 Subpart E (Unlicensed National Information Infrastructure Devices) –<br>Sections 15.403 and 15.407 |
| <b>Specification Reference:</b> | 47CFR15.207 and 47CFR15.209                                                                                                                                               |
| <b>Specification Title:</b>     | Code of Federal Regulations Volume 47 (Telecommunications):<br>Part 15 Subpart C (Intentional Radiators) - Sections 15.207 and 15.209                                     |

#### Location

|                                |                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Location of Testing:</b>    | UL International Germany GmbH;<br>Admiral-Rosendahl-Strasse 9<br>63263 Neu-Isenburg,<br>GERMANY |
| <b>Test Firm Registration:</b> | 399704                                                                                          |

#### Date information

|                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| <b>Order Date:</b>   | 10 January 2023                                                                            |
| <b>EUT arrived:</b>  | 20 November 2023                                                                           |
| <b>Test Dates:</b>   | 13 December 2023 to 06 February 2024, 11 February 2025, 12 March 2025,<br>03-12 March 2026 |
| <b>EUT returned:</b> | -/-                                                                                        |

## 2.2. Summary of Test Results

| Clause                     | Measurement                                                                      | Complied                            | Did not comply           | Not performed                       | Not applicable                      |
|----------------------------|----------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Part 15.207                | Transmitter AC Conducted Emissions                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| -                          | Transmitter 26 dB Emission Bandwidth                                             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(e)             | Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) <sup>(5)</sup>          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Part 15.35(c)              | Transmitter Duty Cycle <sup>(1)</sup>                                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(a)(1)(ii), (2) | Transmitter Maximum Conducted Output Power                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(a)(1)(ii), (2) | Transmitter Peak Power Spectral Density                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(b)/15.209(a)   | Transmitter Out of Band Radiated Emissions                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(b)/15.209(a)   | Transmitter Band Edge Radiated Emissions                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Part 15.407(g)             | Transmitter Frequency Stability <sup>(2)</sup> (Temperature & Voltage Variation) | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Part 15.407(h)(1)          | Transmitter Power Control <sup>(3)</sup>                                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| FCC Part 15.407 (h)(2)     | Dynamic Frequency Selection <sup>(4)</sup>                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

### Decision rule:

Where not otherwise specified or communicated in writing, statements of conformity (e.g. Pass/Fail) are established according to the following decision rule: considering the ILAC G8:2019 chapter 4.2.1 (simple acceptance rule). This leads to a maximum 50% of false accept or false reject when the measured value equals the tolerance limit. See ILAC-G8:09/2019 for further details.

### Note(s):

1. The measurement was performed to assist in the calculation of the level of emissions.
2. The manufacturer is responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
3. Not required for systems with an e.i.r.p. of less than 500 mW.
4. Measurements were performed at a different UL location. For further information please refer to following test report "UL-RPT-RP-14647518-1616A".
5. Band not supported by the product.

## 2.3. Methods and Procedures

|                   |                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Reference:</b> | ANSI C63.10-2020 + Cor. 1-2023                                                                                           |
| <b>Title:</b>     | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                           |
| <b>Reference:</b> | FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 December 14, 2017                                      |
| <b>Title:</b>     | Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E |
| <b>Reference:</b> | FCC KDB 174176 D01 Line Conducted FAQ v01r02 August 7, 2025                                                              |
| <b>Title:</b>     | AC Power-Line Conducted Emissions Frequently Asked Questions                                                             |

## 2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

## 3. Equipment Under Test (EUT)

### 3.1. Identification of Equipment Under Test (EUT) \*

|                                 |                      |
|---------------------------------|----------------------|
| <b>Brand Name:</b>              | Eseye                |
| <b>Model Name or Number:</b>    | Hera604v6            |
| <b>Serial Number:</b>           | 04425600823330100093 |
| <b>Hardware Version Number:</b> | EPCB256003           |
| <b>Software Version Number:</b> | 0.9.2                |
| <b>FCC ID:</b>                  | 2AASBHERAQ4029       |

|                                 |                      |
|---------------------------------|----------------------|
| <b>Brand Name:</b>              | Eseye                |
| <b>Model Name or Number:</b>    | Hera604v6            |
| <b>Serial Number:</b>           | 04425600823330100049 |
| <b>Hardware Version Number:</b> | EPCB256003           |
| <b>Software Version Number:</b> | 0.9.2                |
| <b>FCC ID:</b>                  | 2AASBHERAQ4029       |

### 3.2. Description of EUT \*

The equipment under test was a Cellular Router supporting WiFi 5 GHz operations in 5.150-5.725 GHz band.

### 3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

**3.4. Additional Information Related to Testing**

|                                     |                                                        |                              |                 |
|-------------------------------------|--------------------------------------------------------|------------------------------|-----------------|
| Technology Tested:                  | WLAN (IEEE 802.11a,n,ac) / Digital Transmission System |                              |                 |
| Type of Unit:                       | Transceiver                                            |                              |                 |
| Supported Modulation Types:         | OFDM                                                   |                              |                 |
| Supported Data rates:               | 802.11a                                                | 6,9,12,18,24,36,48,54 Mbit/s |                 |
|                                     | 802.11n                                                | MCS0 to MCS7 (MIMO)          |                 |
|                                     | 802.11ac                                               | MCS0 to MCS9 (MIMO)          |                 |
| Power Supply Requirement(s): *      | 100-240 V AC / 60Hz                                    |                              |                 |
| Maximum Conducted Output Power:     | 20.90 dBm                                              |                              |                 |
| Nominal Channel Bandwidth *         | 20 MHz, 40 MHz, 80 MHz                                 |                              |                 |
| Transceiver Frequency Band:         | 5150 MHz to 5250 MHz [U-NII-1 Band]                    |                              |                 |
| Transmit Channels Tested:<br>20 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 36                           | 5180            |
|                                     | Middle                                                 | 40                           | 5200            |
|                                     | Top                                                    | 48                           | 5240            |
| Transmit Channels Tested:<br>40 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 38                           | 5190            |
|                                     | Top                                                    | 46                           | 5230            |
| Transmit Channels Tested:<br>80 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Middle                                                 | 42                           | 5210            |
| Transceiver Frequency Band:         | 5250 MHz to 5350 MHz [U-NII-2a Band]                   |                              |                 |
| Transmit Channels Tested:<br>20 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 52                           | 5260            |
|                                     | Middle                                                 | 60                           | 5300            |
|                                     | Top                                                    | 64                           | 5320            |
| Transmit Channels Tested:<br>40 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 54                           | 5270            |
|                                     | Top                                                    | 62                           | 5310            |
| Transmit Channels Tested:<br>80 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Middle                                                 | 58                           | 5290            |
| Transceiver Frequency Band:         | 5470 MHz to 5725 MHz [U-NII-2c Band]                   |                              |                 |
| Transmit Channels Tested:<br>20 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 100                          | 5500            |
|                                     | Middle                                                 | 120                          | 5600            |
|                                     | Top                                                    | 140                          | 5700            |
| Transmit Channels Tested:<br>40 MHz | Channel ID                                             | Channel Number               | Frequency (MHz) |
|                                     | Bottom                                                 | 102                          | 5510            |
|                                     | Middle                                                 | 118                          | 5590            |
|                                     | Top                                                    | 134                          | 5670            |

|                                                   |                           |                       |                        |
|---------------------------------------------------|---------------------------|-----------------------|------------------------|
| <b>Transmit Channels Tested:</b><br><b>80 MHz</b> | <b>Channel ID</b>         | <b>Channel Number</b> | <b>Frequency (MHz)</b> |
|                                                   | Bottom                    | 106                   | 5530                   |
|                                                   | Top                       | 122                   | 5610                   |
| <b>Declared Antenna Gain:</b>                     | UNII-1                    | UNII-2A               | UNII-2C                |
|                                                   | 2.13 dBi                  | 3.14 dBi              | 3.58 dBi               |
| <b>Antenna Type:</b>                              | External Antenna          |                       |                        |
| <b>Antenna Details:</b>                           | CORTEC P/N AN2450-5505BRS |                       |                        |
| <b>Number of Antenna:</b>                         | 2                         |                       |                        |

### 3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

#### A. Support Equipment (In-house)

| Item | Description | Brand Name | Model Name or Number | Serial Number |
|------|-------------|------------|----------------------|---------------|
| 1    | -/-         | -/-        | -/-                  | -/-           |

#### B. Support Equipment (Manufacturer supplied) \*

| Item | Description                                                                   | Brand Name | Model Name or Number | Serial Number |
|------|-------------------------------------------------------------------------------|------------|----------------------|---------------|
| 1    | Laptop with<br>Qualcomm Radio Control Tool<br>QRCT Ver 4.0.00192.0 /<br>PUTTY | DELL       | P97F                 | FNZ3BG3       |
| 2    | AC/DC power supply                                                            | Power      | FJ-SW1201250N        | -/-           |

## 4. Operation and Monitoring of the EUT during Testing

### 4.1. Operating Modes

The EUT was tested in the following operating mode(s):

Continuously transmitting modulated carrier with maximum power setting and a combination of: <sup>\*(1)</sup>

- 802.11a-Mode | 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11n-Mode | HT 20/40 | MCS0 to MCS7
- 802.11ac-Mode | VHT 20/40/80 | MCS0 to MCS9

<sup>\*(1)</sup> According to the RF output power following data rates were determined to be the worst cases per mode and therefore, all further measurements were performed only with these worst-case modes.

|               | UNII-1  | UNII-2A | UNII-2C |
|---------------|---------|---------|---------|
| a-mode        | 24 Mbps | 24 Mbps | 9 Mbps  |
| n-mode HT20   | MCS4    | MCS3    | MCS3    |
| n-mode HT40   | MCS0    | MCS1    | MCS1    |
| ac-mode VHT20 | MCS0    | MCS7    | MCS5    |
| ac-mode VHT40 | MCS0    | MCS0    | MCS1    |
| ac-mode VHT80 | MCS0    | MCS0    | MCS1    |

### 4.2. Configuration and Peripherals

- The customer supplied document containing the setup instructions "Configuration Notes for Hera 600 v6 Regulatory testing.docx" was used for configuration.
- The product supports MIMO in IEEE 802.11n and IEEE 802.11ac modes on antenna port 1 and port 2:
  - For Output power tests on 802.11n modes & 802.11ac modes the power meter measured both output ports of EUT and summed up the readings as the output power including proper path loss and duty cycle correction factors.
  - For Output power tests on 802.11a measurements, pretests have shown that the output power on port 2 is higher and represents the worst case. The port 2 output power measurements included proper path loss and duty cycle correction factors.
  - For other conducted measurements like emission bandwidth, duty cycle and PSD, since preliminary tests have shown that the output power on port 2 is higher and represents the worst case. Therefore, those measurements were performed on port 2 with offset value of 3.01 dB has been added to n-mode HT20, n-mode HT40, ac-mode VHT20, ac-mode VHT40 and ac-mode VHT80

#### EUT Power Supply:

- TS8997The EUT was powered with 120 V AC 60 Hz.
- For AC conducted line emissions measurement the EUT was powered via AC/DC power adapter The measurements were carried out with 120 VAC /60 Hz & 240 VAC/60 Hz.

#### Test Mode Activation:

- The EUT can be connected with the Test laptop via USB cable and ethernet cable supplied by the customer.
- The test modes were activated by Qualcomm Radio Control Tool.
- Power level used during test:

UNII-1 – 802.11a = 16  
UNII-1 – 802.11n20 = 16  
UNII-1 – 802.11n40 = 13  
UNII-1 – 802.11ac20 = 16  
UNII-1 – 802.11ac40 = 13  
UNII-1 – 802.11ac80 = 11

UNII-2A – 802.11a = 16  
UNII-2A – 802.11n20 = 16  
UNII-2A – 802.11n40 = 13  
UNII-2A – 802.11ac20 = 15.5  
UNII-2A – 802.11ac40 = 13  
UNII-2A – 802.11ac80 = 11

UNII-2C – 802.11a = 13.5  
UNII-2C – 802.11n20 = 13.5  
UNII-2C – 802.11n40 = 11.5  
UNII-2C – 802.11ac20 = 13.5  
UNII-2C – 802.11ac40 = 11.5  
UNII-2C – 802.11ac80 = 11.5

#### **Radiated Measurements:**

- Before starting final radiated spurious emission measurements “worst case verification” with the EUT in Standing-position & Laying-position was performed by Lab.
- The EUT in Standing-position was found to be the worst case, with vertical antennas orientation.
- The radiated measurements below 30 MHz were performed with the EUT positioned on the turn table and rotating 360 degrees while the loop antenna height was set to 80 cm.
- The radiated measurements above 30 MHz were performed with the EUT positioned on the turn table and rotating 360 degrees while the antenna height varies from 1 to 4 m over the measurement frequency range.
- R&S® EMC32 V11.30.00 Software was used for the Radiated spurious emission measurements.
- The continuous transmission of the EUT ( $D \geq 98\%$ ) cannot be achieved and EUT was transmitting with different duty cycles w.r.t to different modes. Duty Cycle Correction Factors were added to all average measurements respectively according to the modes used to compensate as if it was transmitting with 100% duty cycle.

## **5. Measurements, Examinations and Derived Results**

### **5.1. General Comments**

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6 *Measurement Uncertainty* for details.

In accordance with DAkkS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

## 5.2. Test Results

### 5.2.1. Transmitter AC Conducted Spurious Emissions

#### Test Summary:

|                            |                      |             |                 |
|----------------------------|----------------------|-------------|-----------------|
| Test Engineers:            | Abbas Al-Hussainy    | Test Dates: | 26 January 2024 |
| Test Sample Serial Number: | 04425600823330100049 |             |                 |
| Test Site Identification   | SR 7/8               |             |                 |

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| FCC Reference:    | Part 15.207                                              |
| Test Method Used: | ANSI C63.10 Section 6.2 / FCC KDB 174176 and notes below |

#### Environmental Conditions:

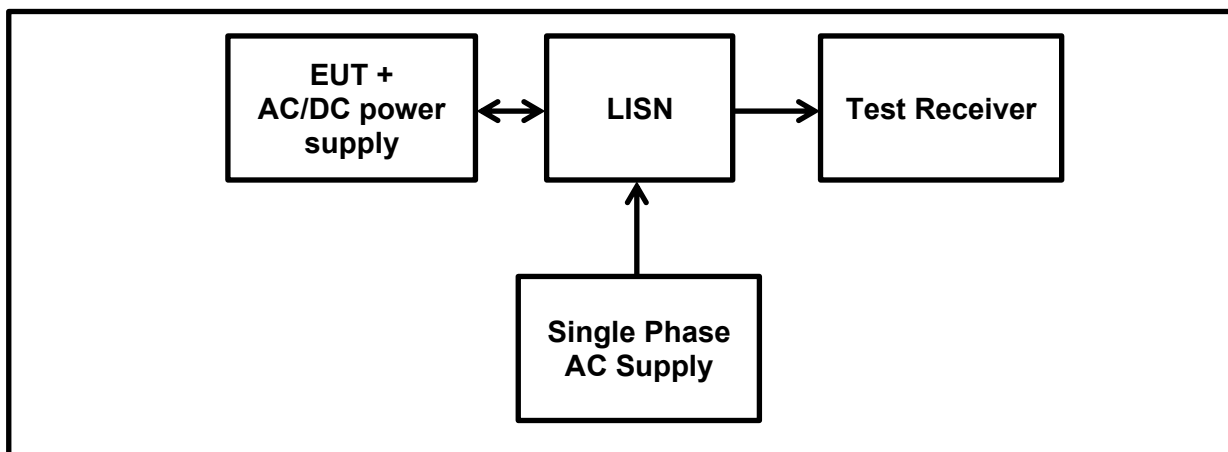
|                        |      |
|------------------------|------|
| Temperature (°C):      | 22.2 |
| Relative Humidity (%): | 42.6 |

#### Settings of the Instrument

|          |                     |
|----------|---------------------|
| Detector | Quasi Peak/ Average |
|----------|---------------------|

#### Note(s):

- The EUT was plugged into an AC/DC switching adaptor. The switching Adaptor was connected to 120 VAC / 60 Hz single phase supply via a LISN.
- Preliminary measurements were performed at both 50 Hz and 60 Hz supply frequencies. There was no change to the observed emissions.
- In accordance with FCC KDB 174176 Q4, tests were performed with a 240 VAC 60 Hz single phase supply as this was within the voltage range marked on the 100-240 VAC~50/60 Hz power supply.
- The EUT was configured with the following modes w.r.t output power:  
ac-Mode | MCS0 | VHT20 | UNII-1 | Channel 48: 5240 MHz
- Pre-scans were performed, and markers placed on the highest live and neutral measured levels. Final measurements were performed on the marker frequencies and the results entered into the tables below.
- The final measured value, for the given emission, in the table below incorporates the cable loss.
- All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
- Measurements were performed in shielded room (SR7/ 8 Asset Number 1603671). The EUT was placed at a height of 80 cm above the reference ground plane and in a distance of 40 cm from the vertical ground plane at the edge of the table.
- Measurement software used: Toyo EMI Software; CE measurement software EP5/CE Ver 4.0.1.

**Transmitter AC Conducted Spurious Emissions (continued)****Test Setup:**

**Transmitter AC Conducted Spurious Emissions (continued)****Results: 802.11ac / 20 MHz / MCS0 / UNII-1 / CH48****Results: Live / Quasi Peak / 120 VAC 60 Hz**

| Frequency (MHz) | Line | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 0.15461         | Live | 48.4               | 65.7               | 17.3        | Complied |
| 0.16185         | Live | 47.9               | 65.4               | 17.5        | Complied |
| 0.17151         | Live | 44.7               | 64.9               | 20.2        | Complied |
| 0.43995         | Live | 35.3               | 57.1               | 21.8        | Complied |
| 0.72483         | Live | 21.5               | 56.0               | 34.5        | Complied |
| 1.06991         | Live | 18.7               | 56.0               | 37.3        | Complied |
| 1.69457         | Live | 17.3               | 56.0               | 38.7        | Complied |

**Results: Live / Average / 120 VAC 60 Hz**

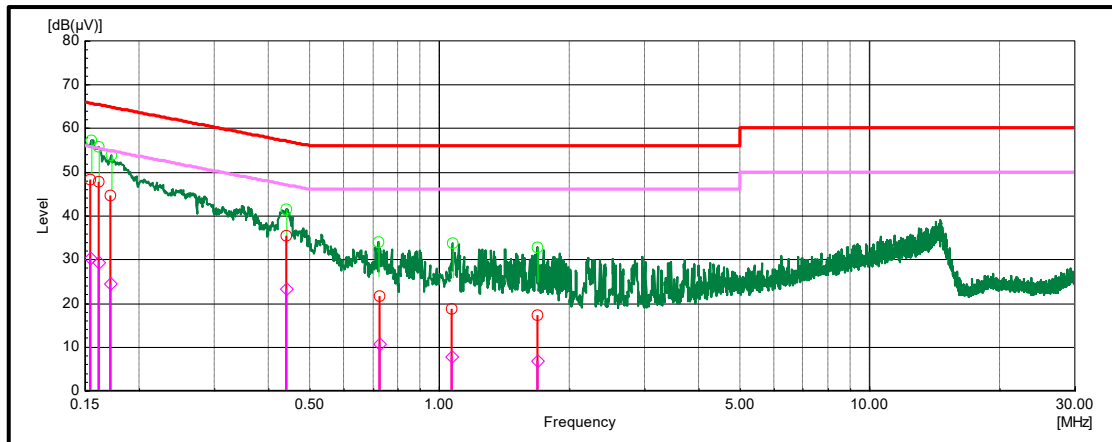
| Frequency (MHz) | Line | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 0.15461         | Live | 30.2               | 55.7               | 25.5        | Complied |
| 0.16185         | Live | 29.2               | 55.4               | 26.2        | Complied |
| 0.17151         | Live | 24.5               | 54.9               | 30.4        | Complied |
| 0.43995         | Live | 23.2               | 47.1               | 23.9        | Complied |
| 0.72483         | Live | 10.8               | 46.0               | 35.2        | Complied |
| 1.06991         | Live | 7.9                | 46.0               | 38.1        | Complied |
| 1.69457         | Live | 6.7                | 46.0               | 39.3        | Complied |

**Transmitter AC Conducted Spurious Emissions (continued)****Results: 802.11ac / 20 MHz / MCS0 / UNII-1 / CH48****Results: Neutral / Quasi Peak / 120 VAC 60 Hz**

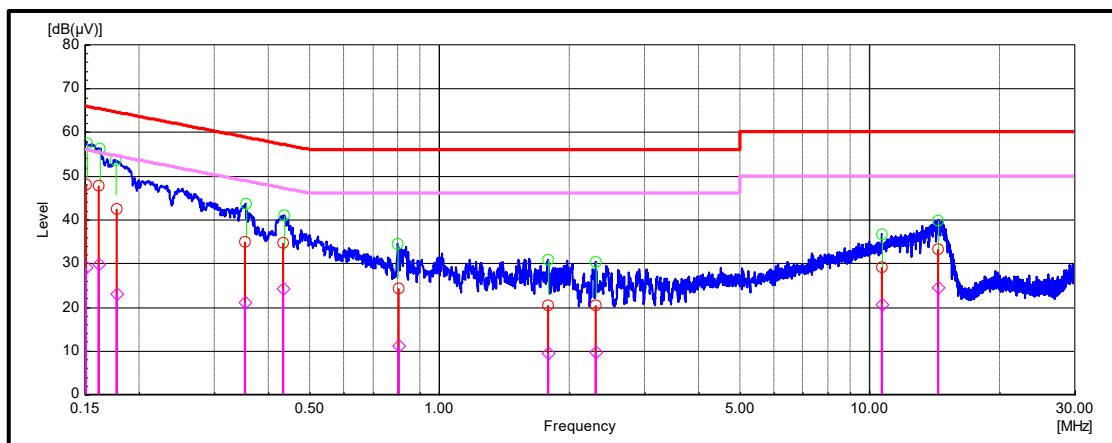
| Frequency (MHz) | Line    | Level (dBμV) | Limit (dBμV) | Margin (dB) | Result   |
|-----------------|---------|--------------|--------------|-------------|----------|
| 0.15084         | Neutral | 47.9         | 66.0         | 18.1        | Complied |
| 0.16162         | Neutral | 47.7         | 65.4         | 17.7        | Complied |
| 0.17733         | Neutral | 42.4         | 64.6         | 22.2        | Complied |
| 0.35384         | Neutral | 34.9         | 58.9         | 24.0        | Complied |
| 0.43369         | Neutral | 34.6         | 57.2         | 22.6        | Complied |
| 0.80202         | Neutral | 24.2         | 56.0         | 31.8        | Complied |
| 1.79240         | Neutral | 20.4         | 56.0         | 35.6        | Complied |
| 2.30932         | Neutral | 20.4         | 56.0         | 35.6        | Complied |
| 10.70812        | Neutral | 29.0         | 60.0         | 31.0        | Complied |
| 14.42791        | Neutral | 33.1         | 60.0         | 26.9        | Complied |

**Results: Neutral / Average / 120 VAC 60 Hz**

| Frequency (MHz) | Line    | Level (dBμV) | Limit (dBμV) | Margin (dB) | Result   |
|-----------------|---------|--------------|--------------|-------------|----------|
| 0.15084         | Neutral | 29.2         | 56.0         | 26.8        | Complied |
| 0.16162         | Neutral | 29.7         | 55.4         | 25.7        | Complied |
| 0.17733         | Neutral | 23.1         | 54.6         | 31.5        | Complied |
| 0.35384         | Neutral | 21.0         | 48.9         | 27.9        | Complied |
| 0.43369         | Neutral | 24.1         | 47.2         | 23.1        | Complied |
| 0.80202         | Neutral | 11.2         | 46.0         | 34.8        | Complied |
| 1.79240         | Neutral | 9.5          | 46.0         | 36.5        | Complied |
| 2.30932         | Neutral | 9.6          | 46.0         | 36.4        | Complied |
| 10.70812        | Neutral | 20.6         | 50.0         | 29.4        | Complied |
| 14.42791        | Neutral | 24.4         | 50.0         | 25.6        | Complied |

**Transmitter AC Conducted Spurious Emissions (continued)****Results: 802.11ac / 20 MHz / MCS0 / UNII-1 / CH48****Plot: Live Line / 120 VAC 60 Hz**

*Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.*

**Plot: Neutral Line / 120 VAC 60 Hz**

*Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.*

**Result: Pass**

**Transmitter AC Conducted Spurious Emissions (continued)****Results: 802.11ac / 20 MHz / MCS0 / UNII-1 / CH48****Results: Live / Quasi Peak / 240 VAC 60 Hz**

| Frequency (MHz) | Line | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 0.15025         | Live | 47.1               | 66.0               | 18.9        | Complied |
| 0.43071         | Live | 31.4               | 57.2               | 25.8        | Complied |
| 0.63784         | Live | 26.1               | 56.0               | 29.9        | Complied |
| 0.87381         | Live | 25.2               | 56.0               | 30.8        | Complied |
| 1.27730         | Live | 24.0               | 56.0               | 32.0        | Complied |
| 2.38030         | Live | 22.7               | 56.0               | 33.3        | Complied |
| 12.33111        | Live | 25.1               | 60.0               | 34.9        | Complied |

**Results: Live / Average / 240 VAC 60 Hz**

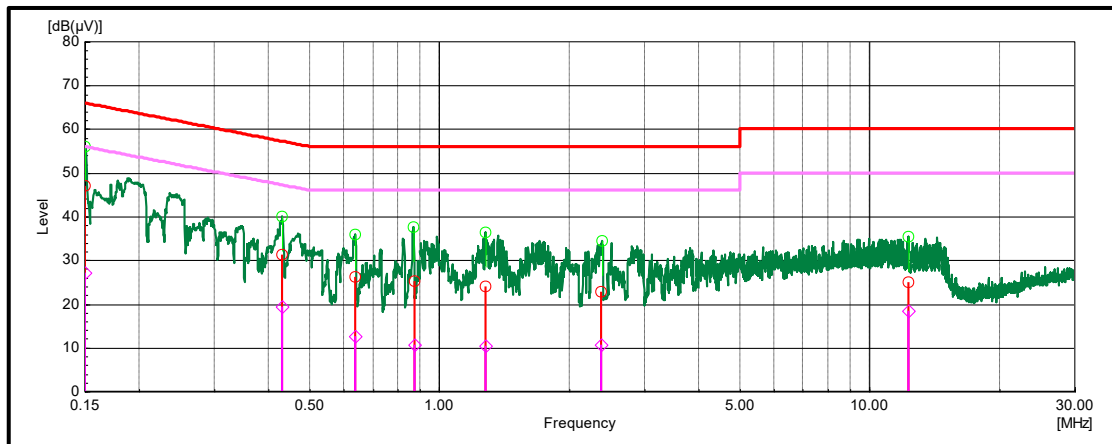
| Frequency (MHz) | Line | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 0.15025         | Live | 27.1               | 56.0               | 28.9        | Complied |
| 0.43071         | Live | 19.4               | 47.2               | 27.8        | Complied |
| 0.63784         | Live | 12.6               | 46.0               | 33.4        | Complied |
| 0.87381         | Live | 10.8               | 46.0               | 35.2        | Complied |
| 1.27730         | Live | 10.5               | 46.0               | 35.5        | Complied |
| 2.38030         | Live | 10.6               | 46.0               | 35.4        | Complied |
| 12.33111        | Live | 18.4               | 50.0               | 31.6        | Complied |

**Results: Neutral / Quasi Peak / 240 VAC 60 Hz**

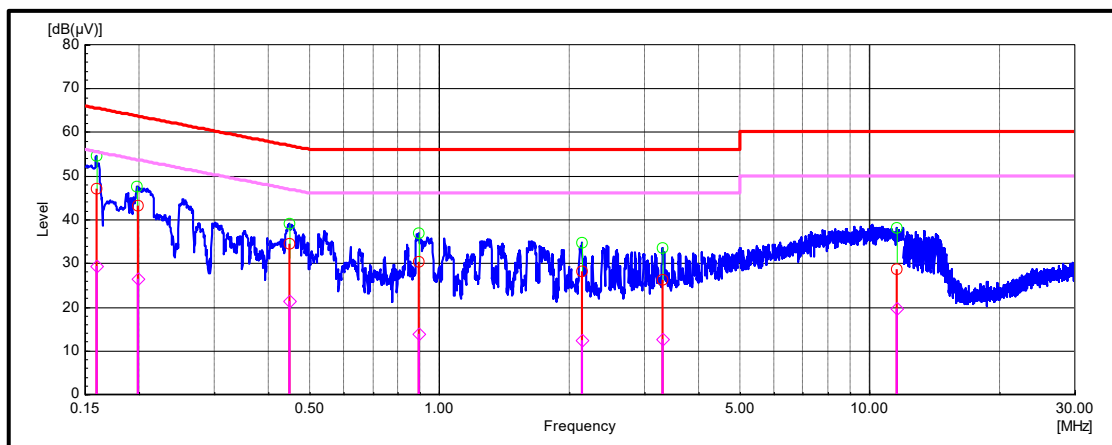
| Frequency (MHz) | Line    | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|---------|--------------------|--------------------|-------------|----------|
| 0.16005         | Neutral | 47.1               | 65.5               | 18.4        | Complied |
| 0.19900         | Neutral | 43.1               | 63.7               | 20.6        | Complied |
| 0.44840         | Neutral | 34.5               | 56.9               | 22.4        | Complied |
| 0.89635         | Neutral | 30.4               | 56.0               | 25.6        | Complied |
| 2.14223         | Neutral | 28.1               | 56.0               | 27.9        | Complied |
| 3.30006         | Neutral | 26.1               | 56.0               | 29.9        | Complied |
| 11.59784        | Neutral | 28.5               | 60.0               | 31.5        | Complied |

**Transmitter AC Conducted Spurious Emissions (continued)****Results: 802.11ac / 20 MHz / MCS0 / UNII-1 / CH48****Results: Neutral / Average / 240 VAC 60 Hz**

| Frequency (MHz) | Line    | Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Result   |
|-----------------|---------|--------------------|--------------------|-------------|----------|
| 0.16005         | Neutral | 29.2               | 55.5               | 26.3        | Complied |
| 0.19900         | Neutral | 26.4               | 53.7               | 27.3        | Complied |
| 0.44840         | Neutral | 21.3               | 46.9               | 25.6        | Complied |
| 0.89635         | Neutral | 13.9               | 46.0               | 32.1        | Complied |
| 2.14223         | Neutral | 12.4               | 46.0               | 33.6        | Complied |
| 3.30006         | Neutral | 12.5               | 46.0               | 33.5        | Complied |
| 11.59784        | Neutral | 19.7               | 50.0               | 30.3        | Complied |

**Plot: Live Line / 240VAC 60 Hz**

*Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.*

**Plot: Neutral Line / 240 VAC 60 Hz**

*Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.*

**Result: Pass**

**5.2.2. Transmitter 26 dB Emission Bandwidth****Test Summary:**

|                                   |                                              |                   |                                                        |
|-----------------------------------|----------------------------------------------|-------------------|--------------------------------------------------------|
| <b>Test Engineer:</b>             | Abbas Al-Hussainy & Muhammad Faiq Khan       | <b>Test Date:</b> | 19 January 2024 to<br>30 January 2024<br>12 March 2025 |
| <b>Test Sample Serial Number:</b> | 04425600823330100049<br>04425600823330100093 |                   |                                                        |
| <b>Test Site Identification</b>   | SR 9                                         |                   |                                                        |

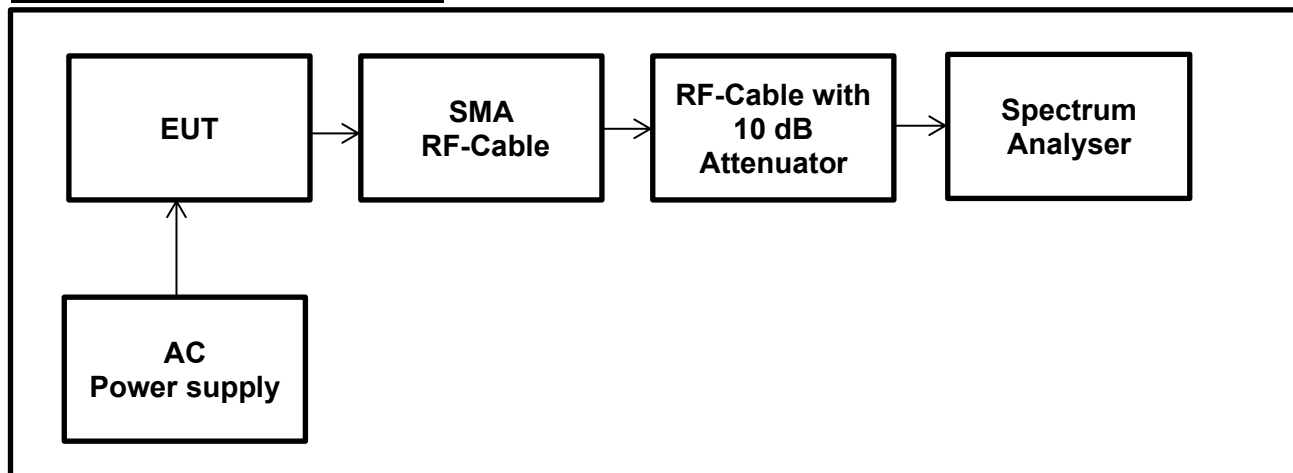
|                          |                                    |
|--------------------------|------------------------------------|
| <b>FCC Reference:</b>    | -                                  |
| <b>Test Method Used:</b> | FCC KDB 789033 D02 Section II.C.1. |

**Environmental Conditions:**

|                               |              |
|-------------------------------|--------------|
| <b>Temperatures (°C):</b>     | 21.0 to 22.6 |
| <b>Relative Humidity (%):</b> | 41.0 to 58.1 |

**Notes:**

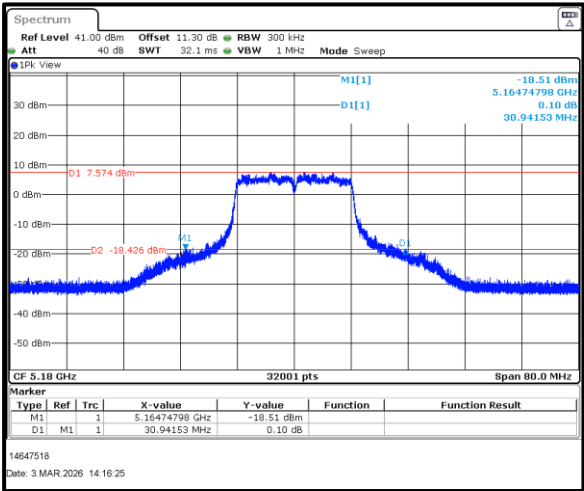
1. All configurations supported by the EUT were investigated on the one channel in accordance with KDB 789033 Section II.C.1. Emission Bandwidth (EBW) test procedure.
2. Final measurements were performed using the below configurations on the bottom, middle and top channels.
3. The product supports MIMO in IEEE 802.11n and IEEE 802.11ac modes on antenna port 1 and port 2. Preliminary tests have shown that the output power on port 2 is higher and represents the worst case. Therefore, conducted measurements were performed on port 2 and a conservative factor of 3.01 dB has been added to n-mode HT20, n-mode HT40, ac-mode VHT20, ac-mode VHT40 and ac-mode VHT80.
4. The RF port on the EUT was connected to the spectrum analyser using suitable attenuation and RF cable. The measured values take into consideration the external attenuation correction factors.
  - The RF cable attenuation maximum 1.3 dB@5GHz from the EUT to Analyzer including the 10 dB attenuation at the input of Spectrum Analyzer
  - Therefore, a total of reference level offset 14.31 dB was added to each of the tested frequencies conducted plots for n-mode HT20, n-mode HT40, ac-mode VHT20, ac-mode VHT40 and ac-mode VHT80. And a total of reference level offset 11.30 dB was added to each of the tested frequencies conducted plots for a-mode.

**Transmitter 26 dB Emission Bandwidth (continued)****Test Setup (AC Power Supply):**

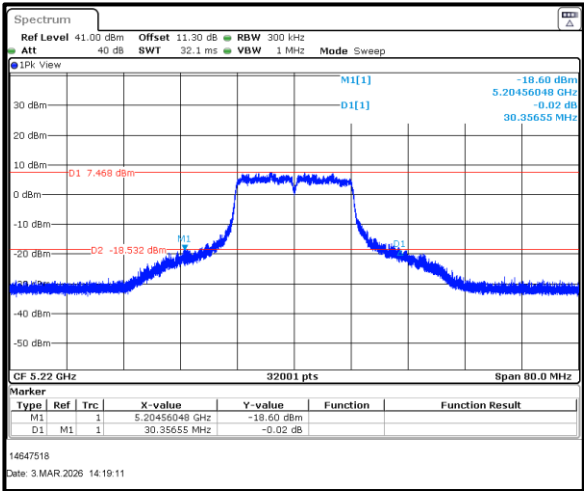
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-1 / 802.11a / 20 MHz / 24 Mbps / Port 2

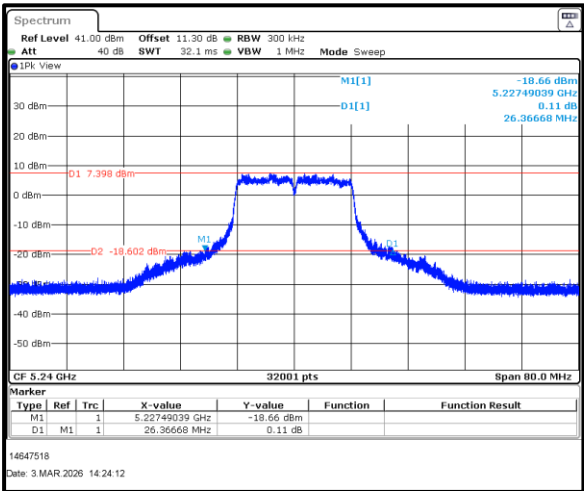
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 30.941                         |
| Middle  | 30.356                         |
| Top     | 26.367                         |



Bottom



Middle



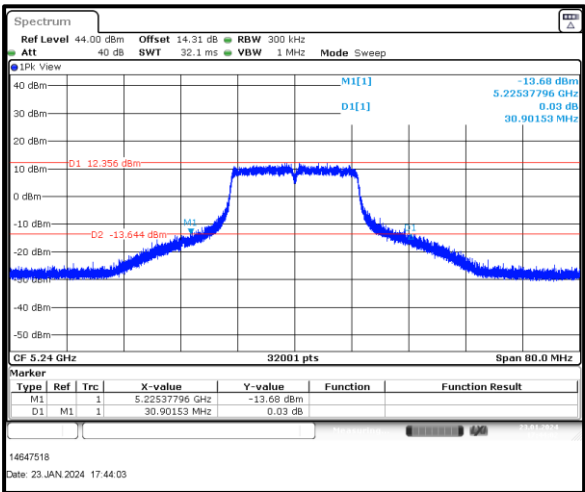
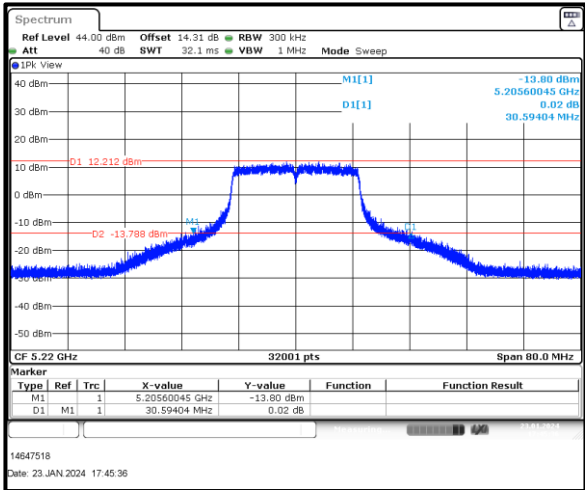
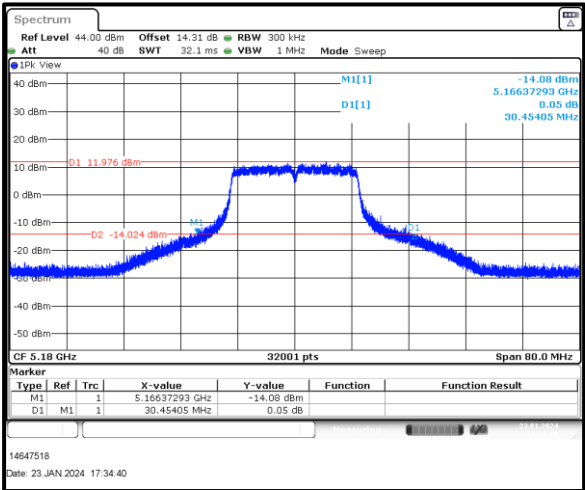
Top

Result: Pass

Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-1 / 802.11n / 20 MHz / MCS4 / Port 2

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 30.454                         |
| Middle  | 30.594                         |
| Top     | 30.902                         |

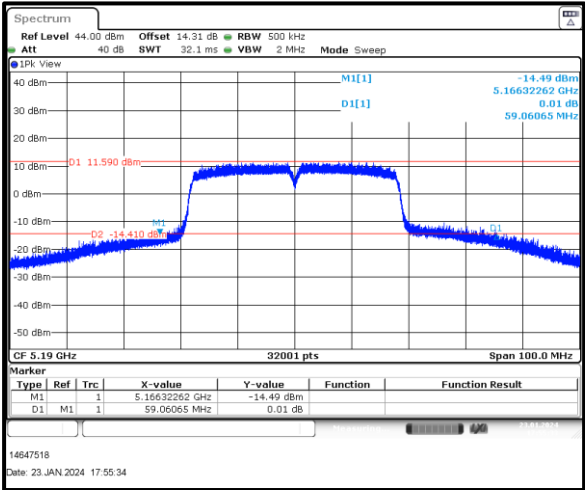


Result: Pass

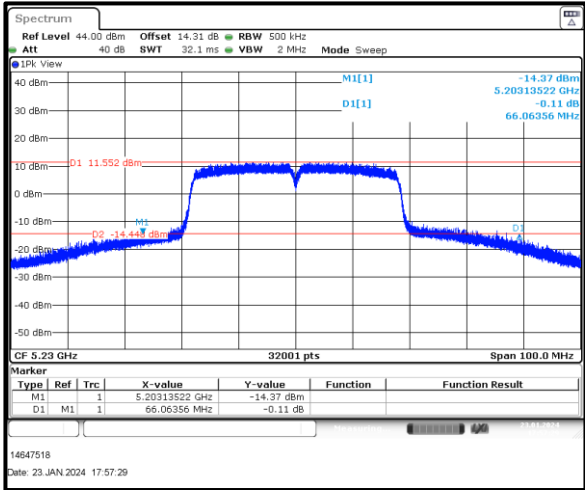
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-1 / 802.11n / 40 MHz / MCS0 / Port 2

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 59.061                         |
| Top     | 66.064                         |



Bottom



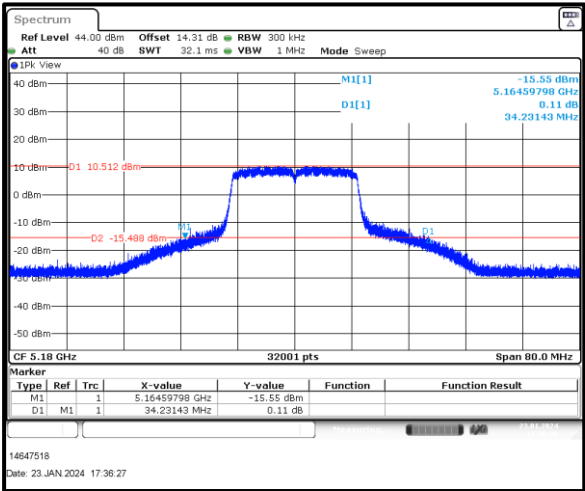
Top

Result: Pass

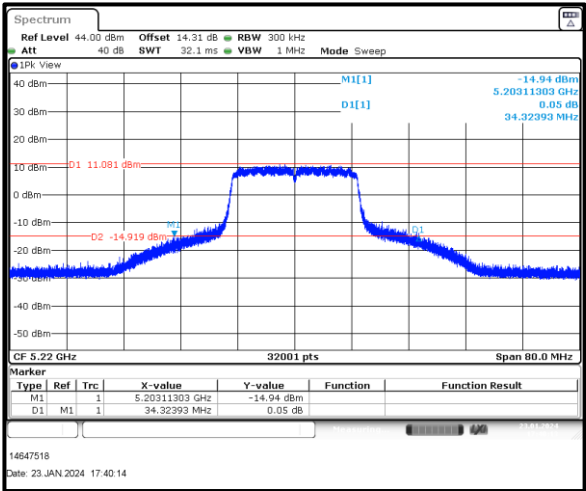
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-1 / 802.11ac / 20 MHz / MCS0 / Port 2

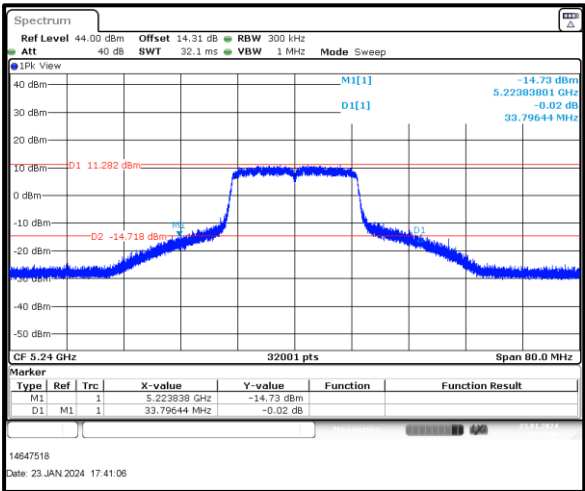
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 34.231                         |
| Middle  | 34.324                         |
| Top     | 33.796                         |



Bottom



Middle

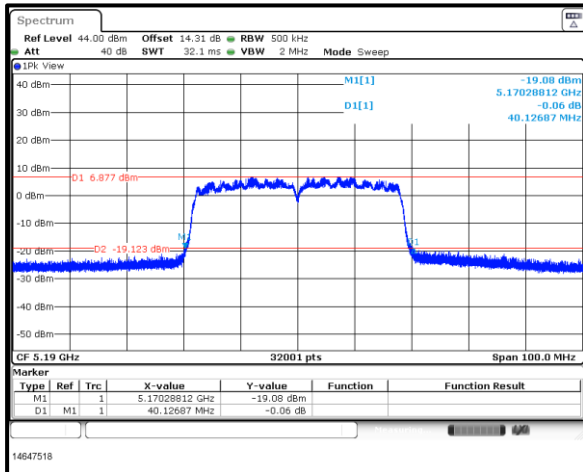


Top

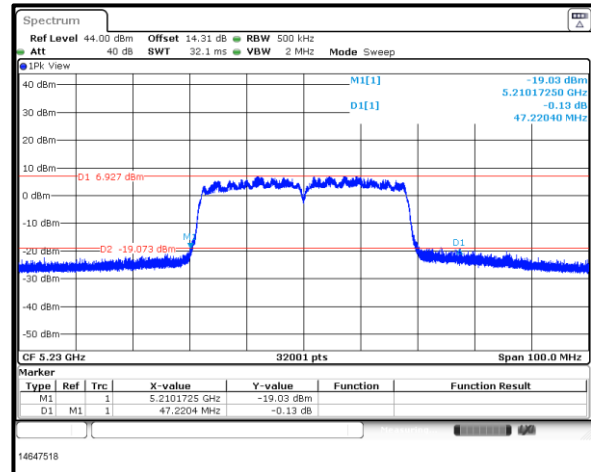
Result: Pass

**Transmitter 26 dB Emission Bandwidth (continued)****Results: AC Power Supply / UNII-1 / 802.11ac / 40 MHz / MCS0 / Port 2**

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 40.127                         |
| Top     | 47.220                         |



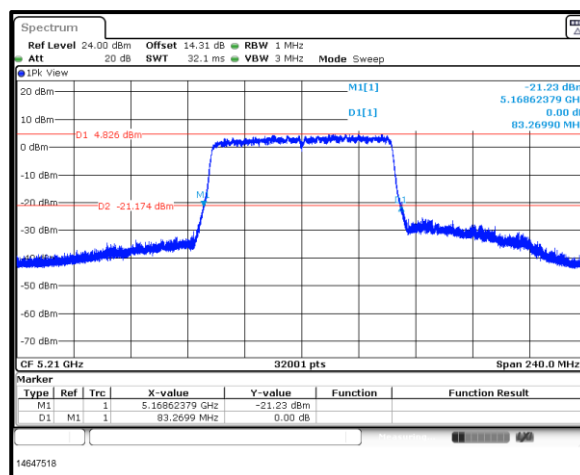
Bottom



Top

**Result: Pass****Results: AC Power Supply / UNII-1 / 802.11ac / 80 MHz / MCS0 / Port 2**

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Middle  | 83.270                         |



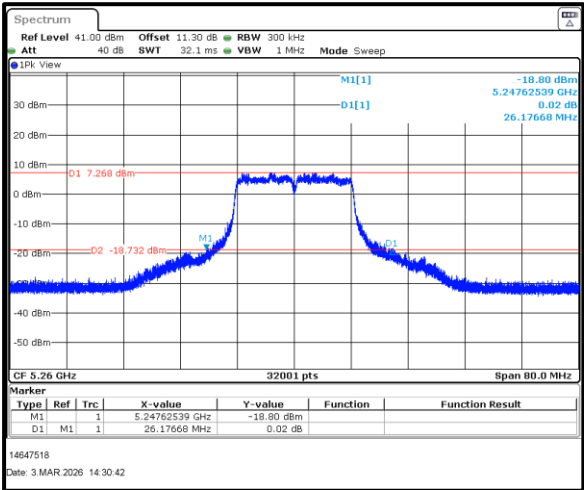
Middle

**Result: Pass**

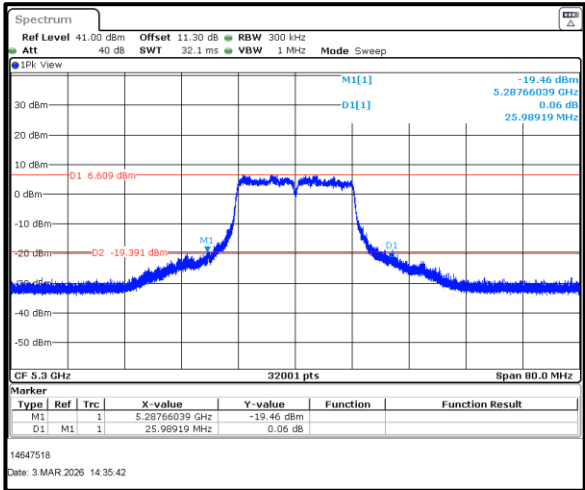
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2A / 802.11a / 20 MHz / 24 Mbps / Port 2

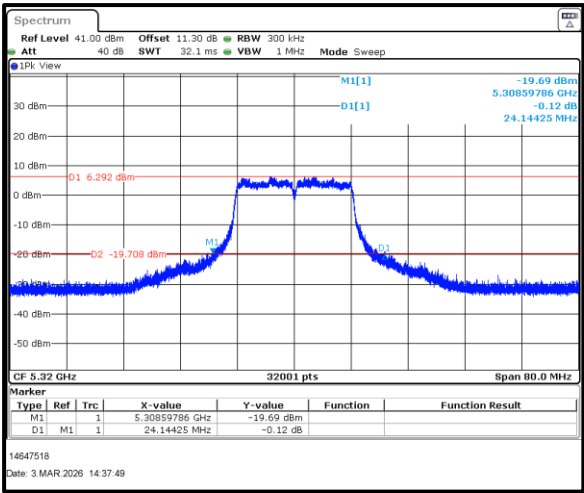
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 26.177                         |
| Middle  | 25.989                         |
| Top     | 24.144                         |



Bottom



Middle



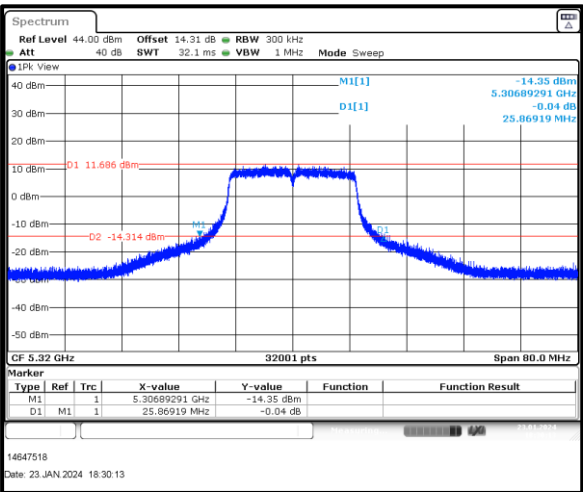
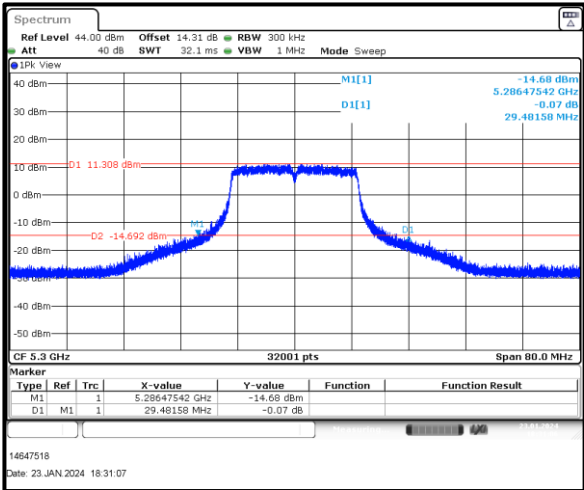
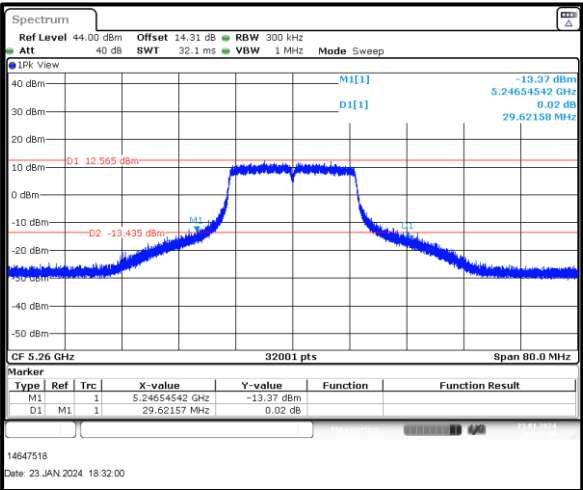
Top

Result: Pass

Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2A / 802.11n / 20 MHz / MCS3 / Port 2

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 29.622                         |
| Middle  | 29.482                         |
| Top     | 25.869                         |

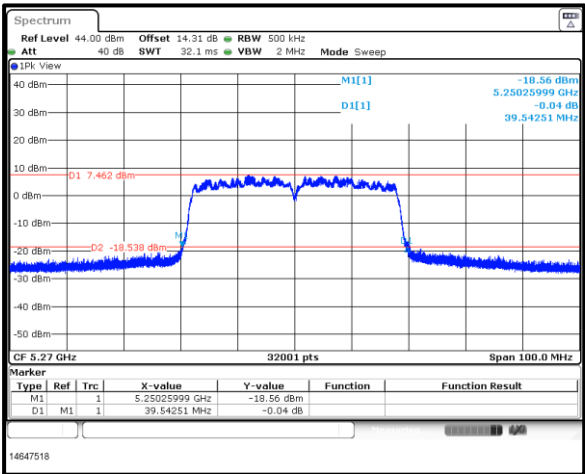


Result: Pass

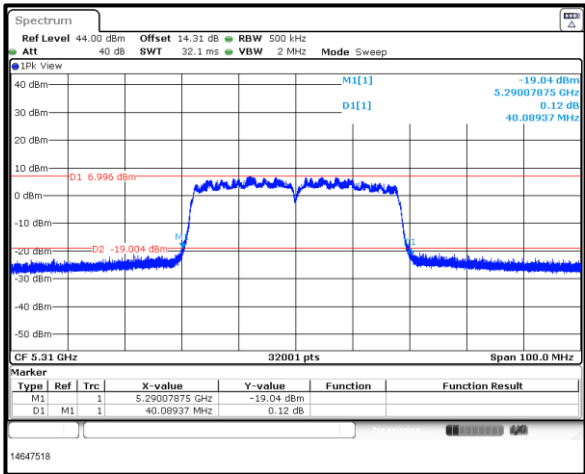
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2A / 802.11n / 40 MHz / MCS1 / Port 2

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 39.542                         |
| Top     | 40.089                         |



Bottom



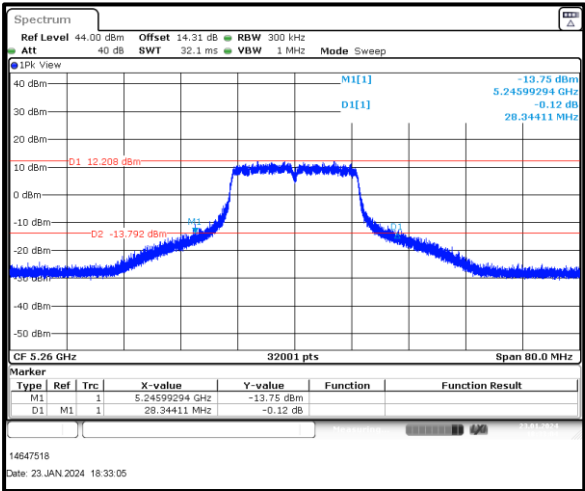
Top

Result: **Pass**

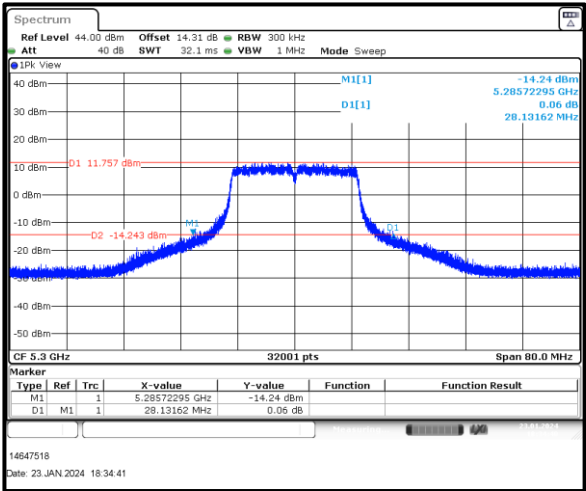
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2A / 802.11ac / 20 MHz / MCS7 / Port 2

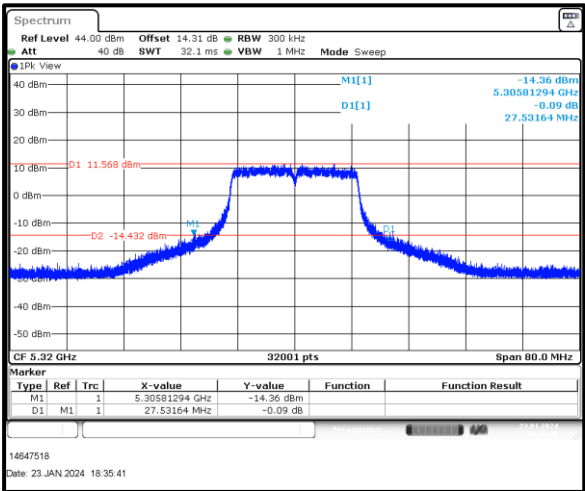
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 28.344                         |
| Middle  | 28.132                         |
| Top     | 27.532                         |



Bottom



Middle

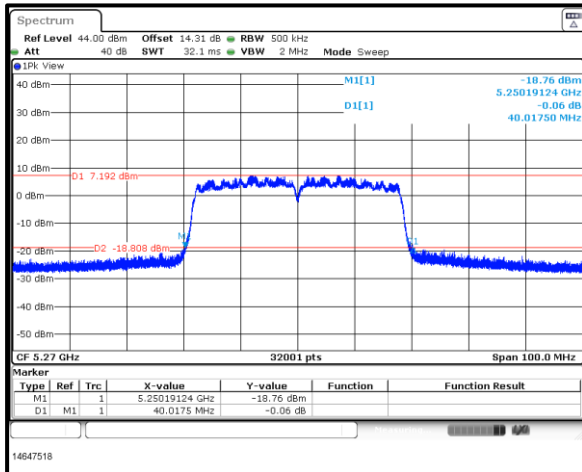


Top

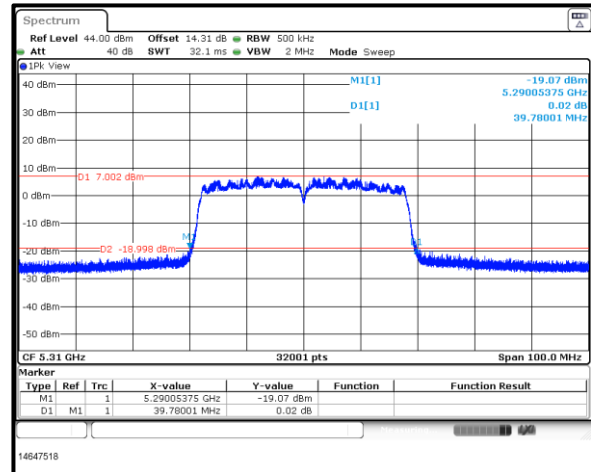
Result: Pass

**Transmitter 26 dB Emission Bandwidth (continued)****Results: AC Power Supply / UNII-2A / 802.11ac / 40 MHz / MCS0 / Port 2**

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 40.017                         |
| Top     | 39.780                         |



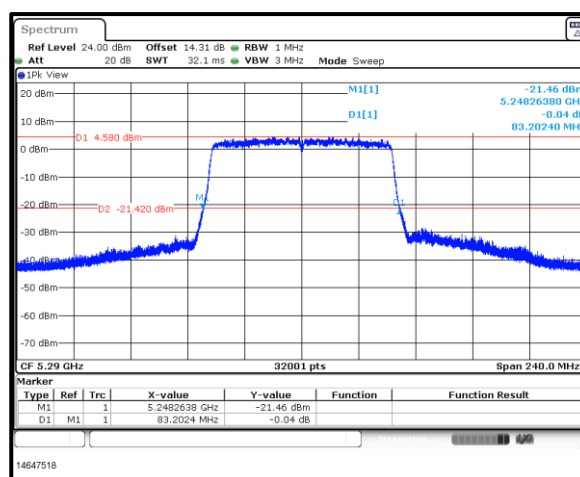
Bottom



Top

**Result: Pass****Results: AC Power Supply / UNII-2A / 802.11ac / 80 MHz / MCS0 / Port 2**

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Middle  | 83.202                         |



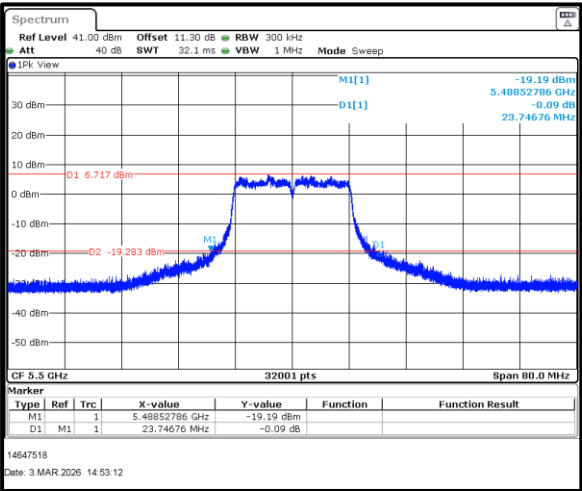
Middle

**Result: Pass**

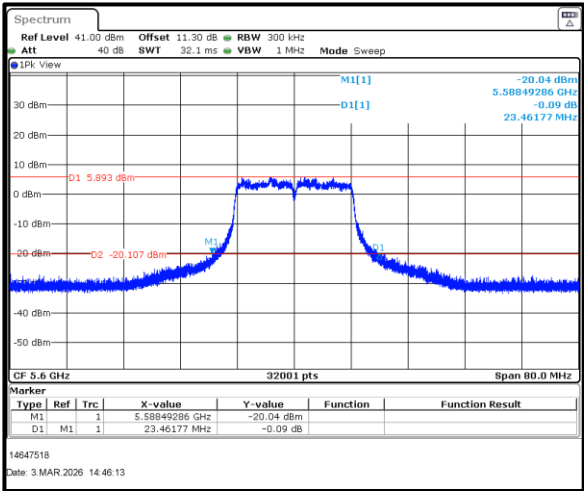
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2C / 802.11a / 20 MHz / 9 Mbps / Port 2

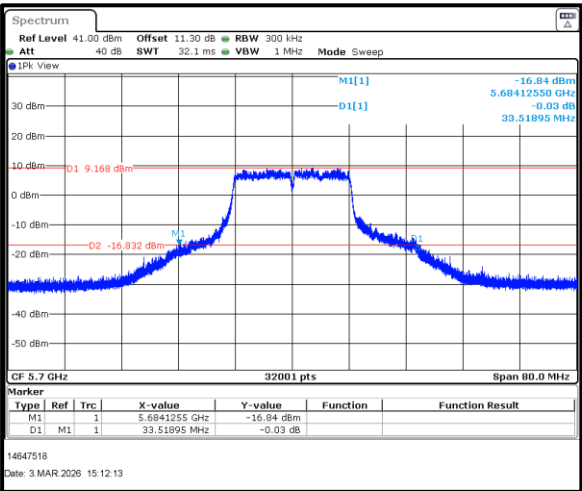
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 23.747                         |
| Middle  | 23.462                         |
| Top     | 33.519                         |



Bottom



Middle



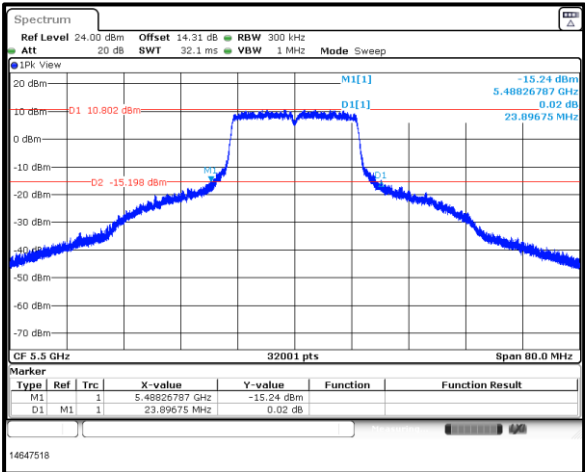
Top

Result: Pass

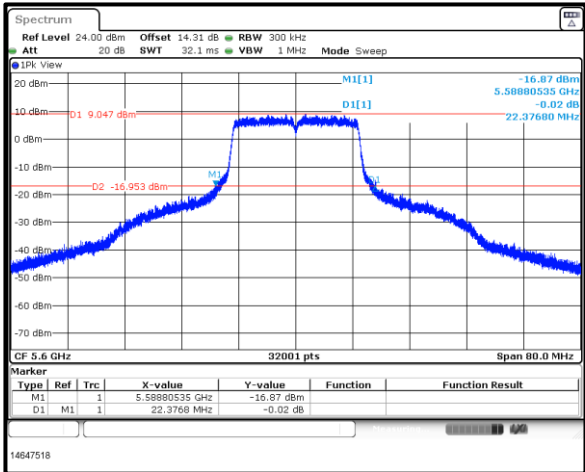
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2C / 802.11n / 20 MHz / MCS3 / Port 2

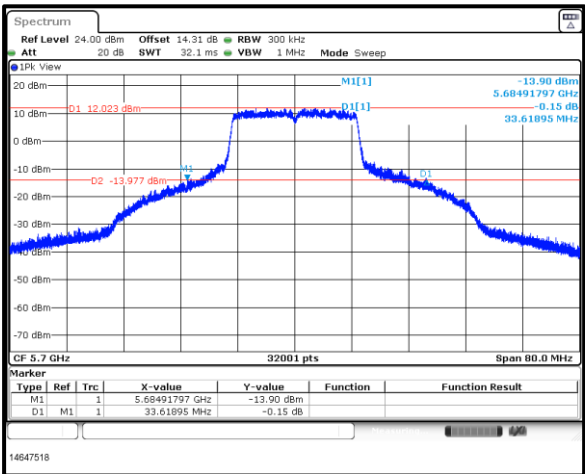
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 23.896                         |
| Middle  | 22.377                         |
| Top     | 33.618                         |



Bottom



Middle



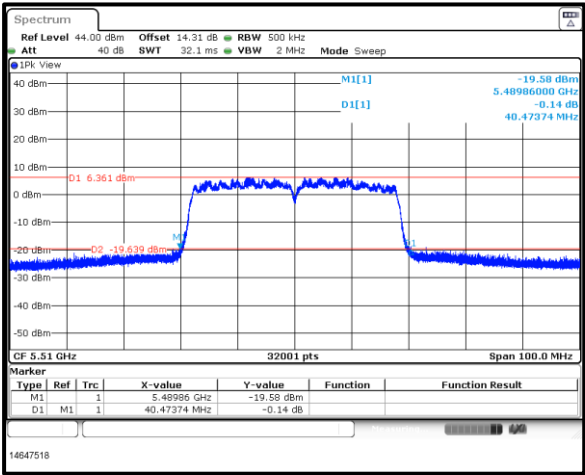
Top

Result: Pass

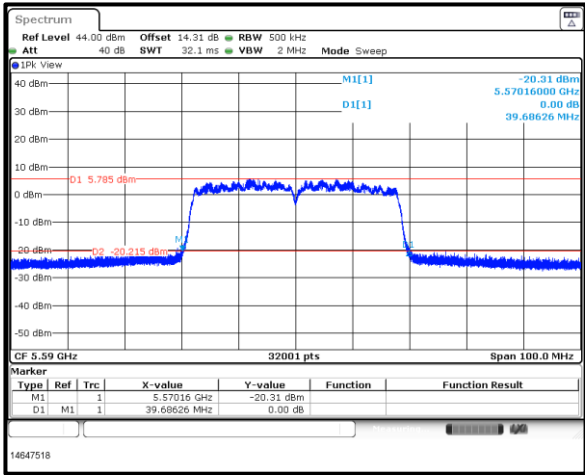
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2C / 802.11n / 40 MHz / MCS1 / Port 2

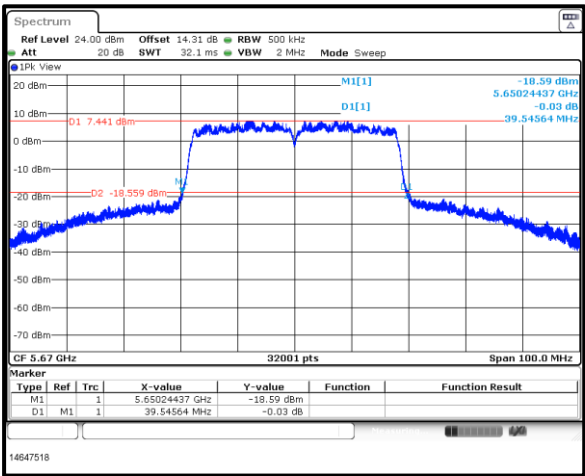
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 40.473                         |
| Middle  | 39.686                         |
| Top     | 39.545                         |



Bottom



Middle

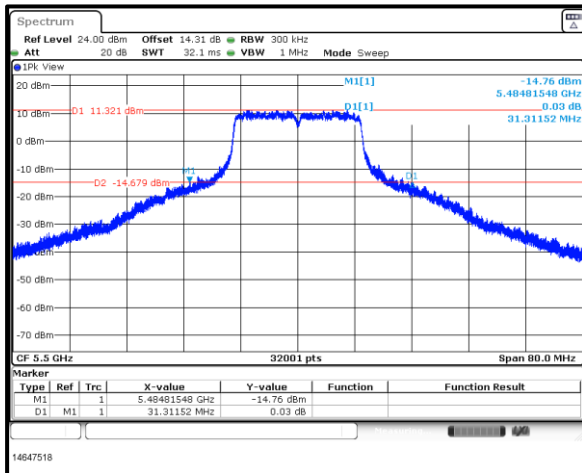


Top

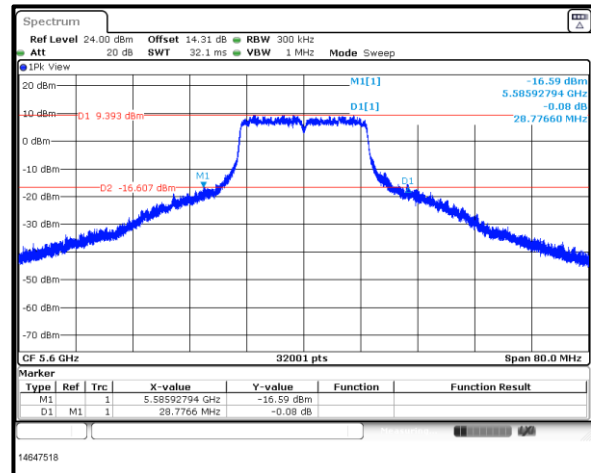
Result: Pass

**Transmitter 26 dB Emission Bandwidth (continued)****Results: AC Power Supply / UNII-2C / 802.11ac / 20 MHz / MCS5 / Port 2**

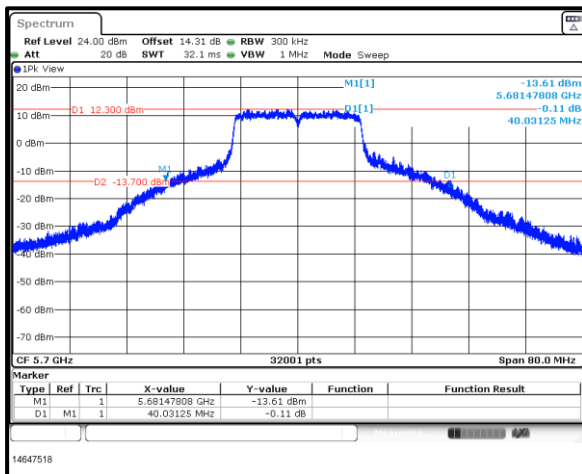
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 31.311                         |
| Middle  | 28.777                         |
| Top     | 40.031                         |



Bottom



Middle



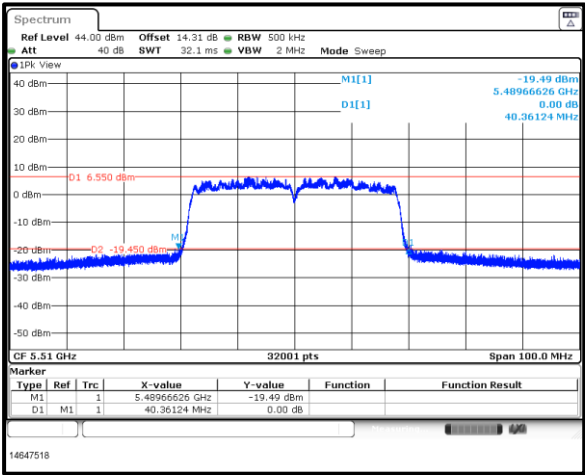
Top

**Result: Pass**

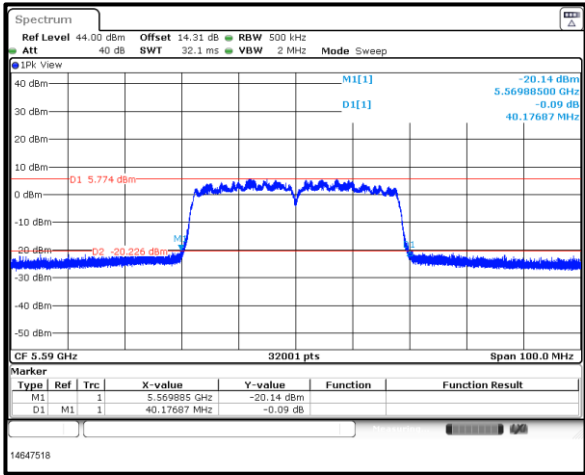
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2C / 802.11ac / 40 MHz / MCS1 / Port 2

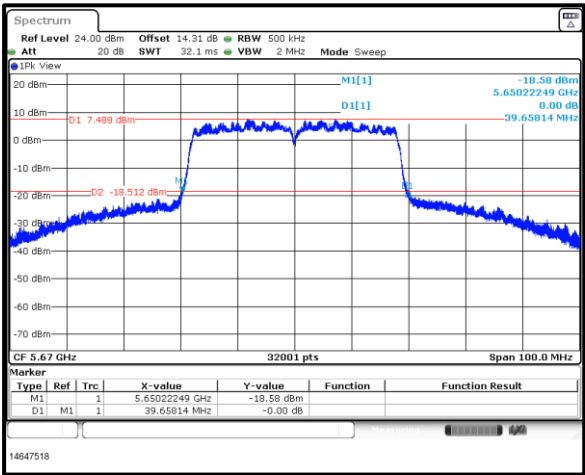
| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 40.361                         |
| Middle  | 40.177                         |
| Top     | 39.658                         |



Bottom



Middle



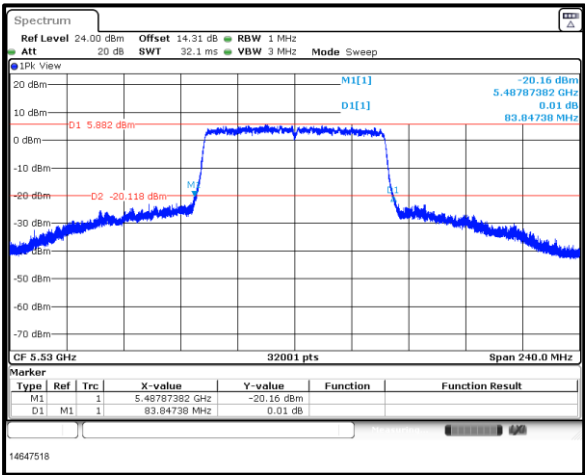
Top

Result: Pass

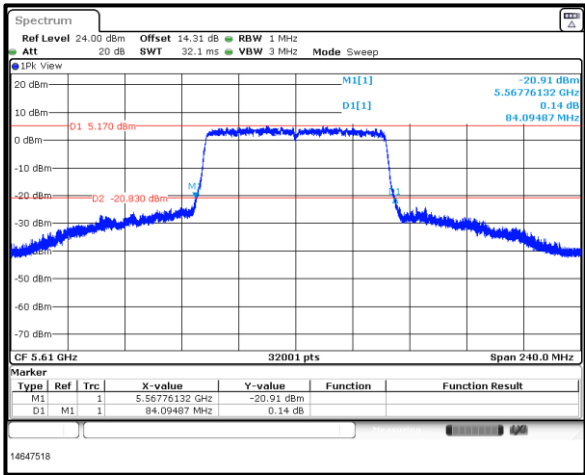
Transmitter 26 dB Emission Bandwidth (continued)

Results: AC Power Supply / UNII-2C / 802.11ac / 80 MHz / MCS1 / Port 2

| Channel | 26 dB Emission Bandwidth (MHz) |
|---------|--------------------------------|
| Bottom  | 83.847                         |
| Top     | 84.094                         |



Bottom



Top

Result: Pass

**5.2.3. Transmitter Duty Cycle****Test Summary:**

|                                   |                      |                   |                                        |
|-----------------------------------|----------------------|-------------------|----------------------------------------|
| <b>Test Engineer:</b>             | Abbas Al-Hussainy    | <b>Test Date:</b> | 19 January 2024 to<br>06 February 2024 |
| <b>Test Sample Serial Number:</b> | 04425600823330100049 |                   |                                        |
| <b>Test Site Identification</b>   | SR 9                 |                   |                                        |

|                          |                                      |
|--------------------------|--------------------------------------|
| <b>FCC Reference:</b>    | Part 15.35(c)                        |
| <b>Test Method Used:</b> | FCC KDB 789033 D02 Section II.B.2.b) |

**Environmental Conditions:**

|                               |              |
|-------------------------------|--------------|
| <b>Temperature (°C):</b>      | 21.2 to 22.6 |
| <b>Relative Humidity (%):</b> | 38.6 to 40.9 |

**Notes:**

- The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by using the following calculation:

$$\text{Duty Cycle (\%)} = 100 \times [\text{On Time } (T_{ON})] / [\text{Period}(T_{ON} + T_{OFF}) \text{ or } 100\text{ms whichever is the lesser}]$$

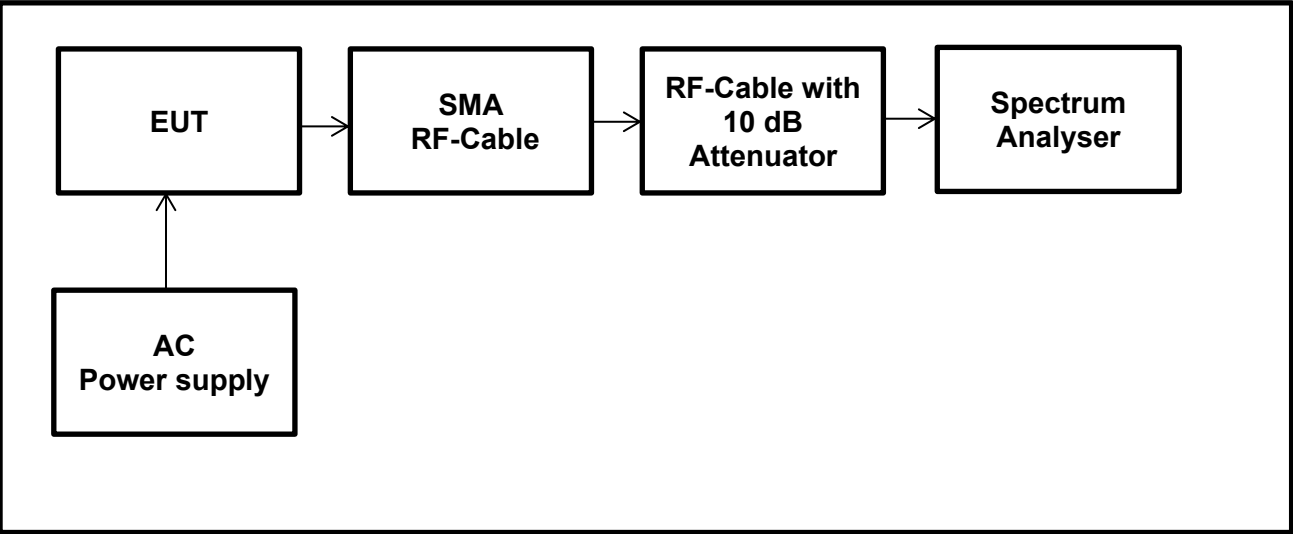
$$\text{Duty Cycle Correction Factor} = 10 \log 1 / [\text{On Time } (T_{ON})] / [\text{Period}(T_{ON} + T_{OFF}) \text{ or } 100\text{ms whichever is the lesser}]$$

|               | UNII-1  | DCCF | UNII-2A | DCCF | UNII-2C | DCCF |
|---------------|---------|------|---------|------|---------|------|
| a-mode        | 24 Mbps | 0.63 | 24 Mbps | 0.61 | 9 Mbps  | 0.24 |
| n-mode HT20   | MCS4    | 1.15 | MCS3    | 0.85 | MCS3    | 0.83 |
| n-mode HT40   | MCS0    | 0.46 | MCS1    | 0.85 | MCS1    | 0.86 |
| ac-mode VHT20 | MCS0    | 0.26 | MCS7    | 1.63 | MCS5    | 1.42 |
| ac-mode VHT40 | MCS0    | 0.48 | MCS0    | 0.50 | MCS1    | 0.85 |
| ac-mode VHT80 | MCS0    | 0.90 | MCS0    | 0.9  | MCS1    | 1.55 |

- The signal analyser was connected to the RF port on the EUT, suitable attenuation and RF cables. An RF level offset was entered on the signal analyser to compensate for the loss of attenuators and RF cables.
- Preliminary tests have shown that the output power on port 2 is higher and represents the worst case. Therefore, conducted measurements were performed on port 2 and a conservative factor of 3.01 dB has been added to n-mode HT20, n-mode HT40, ac-mode VHT20, ac-mode VHT40 and ac-mode VHT80.
- The RF port on the EUT was connected to the spectrum analyser using suitable attenuation and RF cable. The measured values take into consideration the external attenuation correction factors.
  - The RF cable attenuation maximum 1.3 dB@5GHz from the EUT to Analyzer including the 10 dB attenuation at the input of Spectrum Analyzer
  - Therefore, a total of reference level offset 14.31 dB was added to each of the tested frequencies conducted plots for n-mode HT20, n-mode HT40, ac-mode VHT20, ac-mode VHT40 and ac-mode VHT80. And a total of reference level offset 11.30 dB was added to each of the tested frequencies conducted plots for a-mode.

**Transmitter Duty Cycle (continued)**

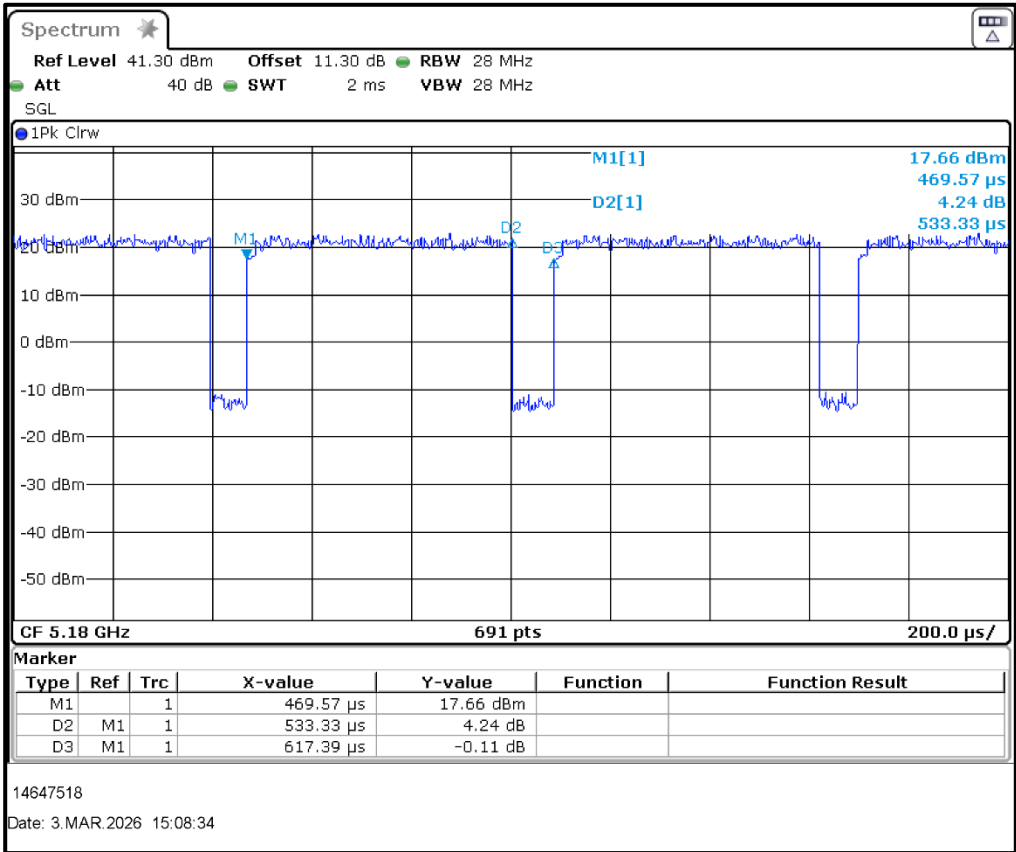
**Test Setup (AC Power Supply):**



Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11a / 20 MHz / 24 Mbps / Port 2

| Pulse On Time (T <sub>ON</sub> )<br>(ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> )<br>(ms) | Duty Cycle<br>(%) | Duty Cycle Correction Factor<br>(dB) |
|------------------------------------------|-----------------------------------------------------------|-------------------|--------------------------------------|
| 0.53333                                  | 0.61739                                                   | 86.38             | 0.63                                 |

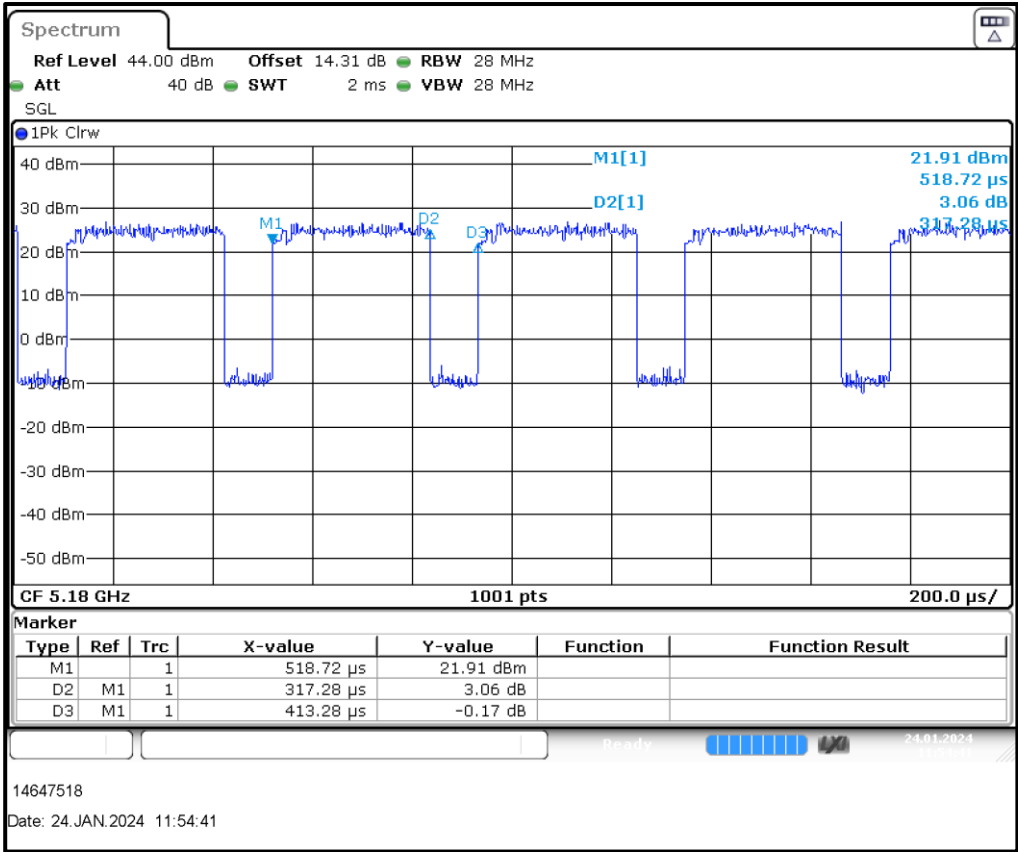


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11n / 20 MHz / MCS4 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.31728                               | 0.41328                                                | 76.77          | 1.15                              |

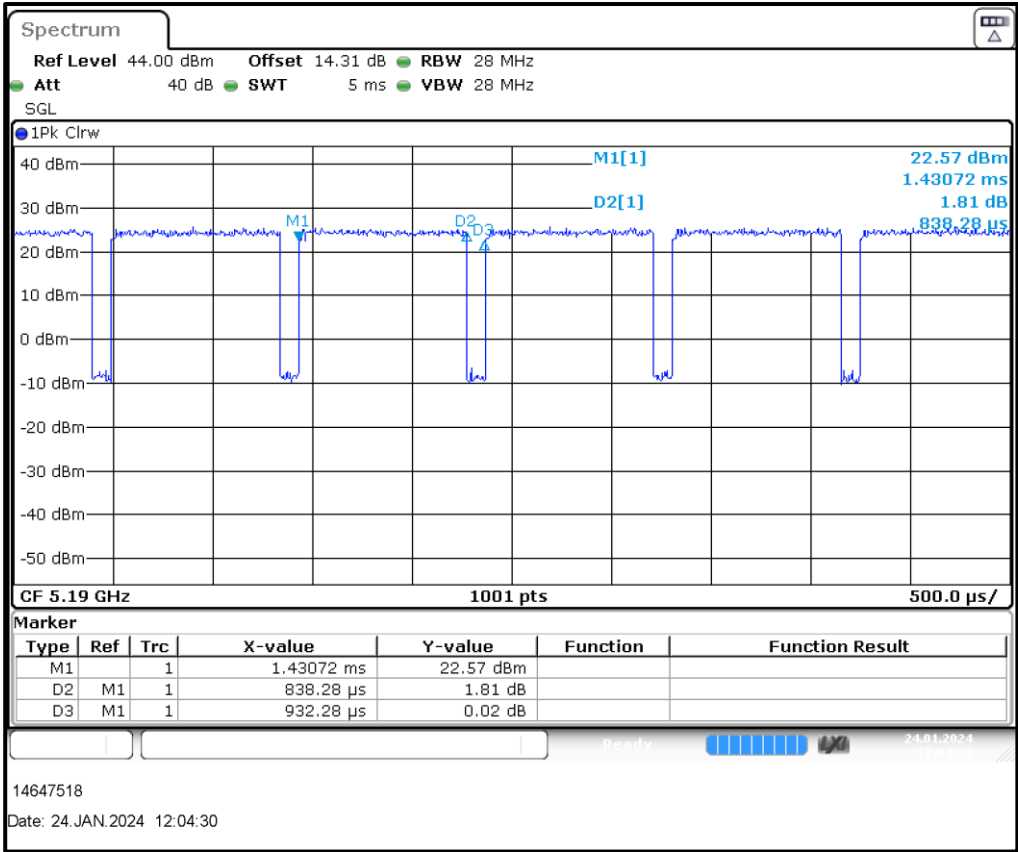


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11n / 40 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.83828                               | 0.93228                                                | 89.92          | 0.46                              |

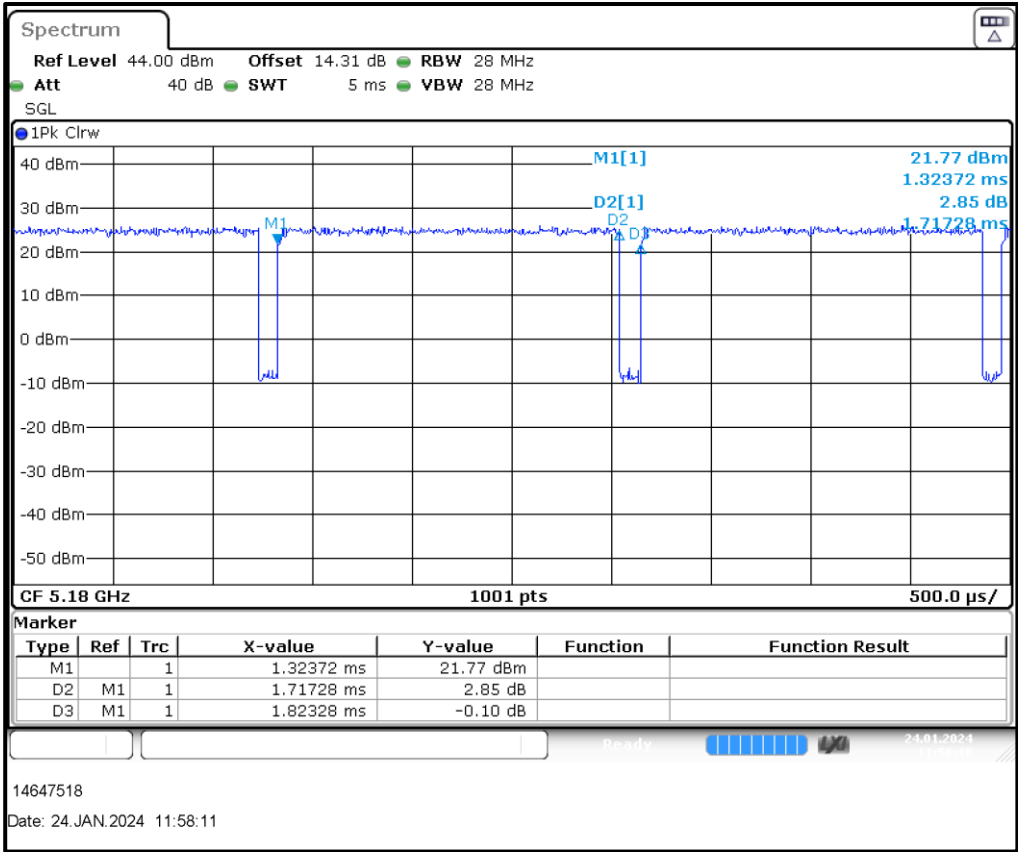


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11ac / 20 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 1.71728                               | 1.82328                                                | 94.19          | 0.26                              |

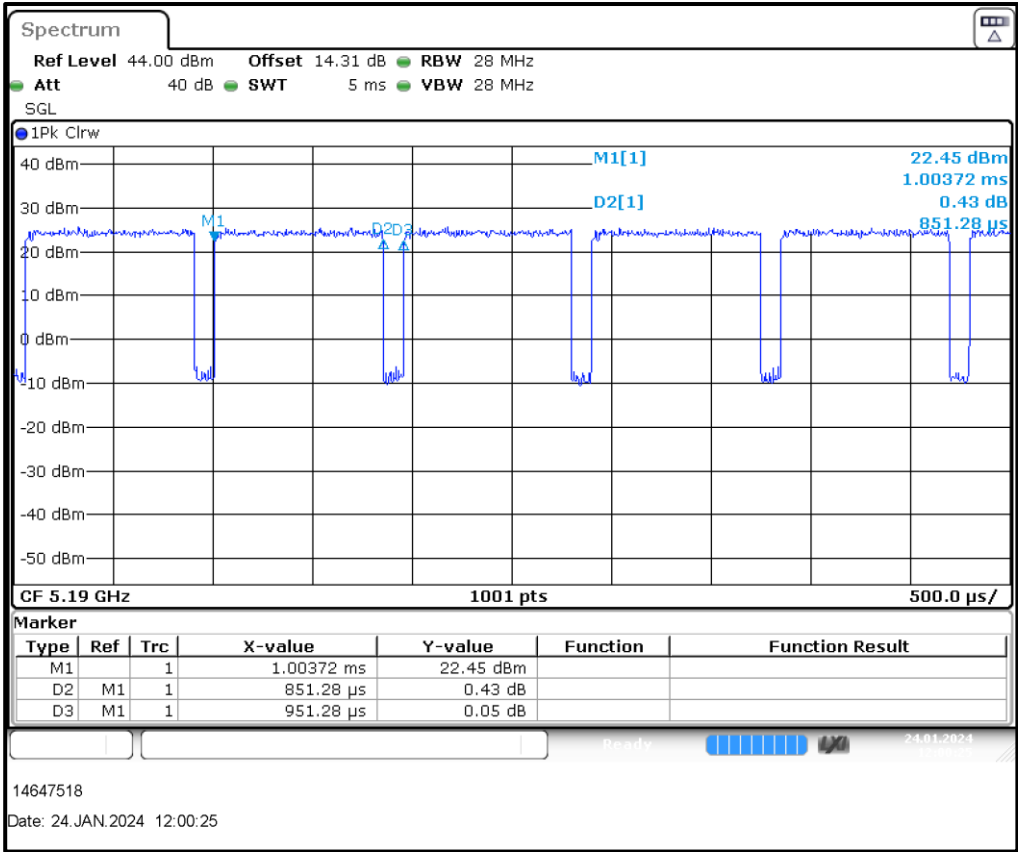


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11ac / 40 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.85128                               | 0.95128                                                | 89.49          | 0.48                              |

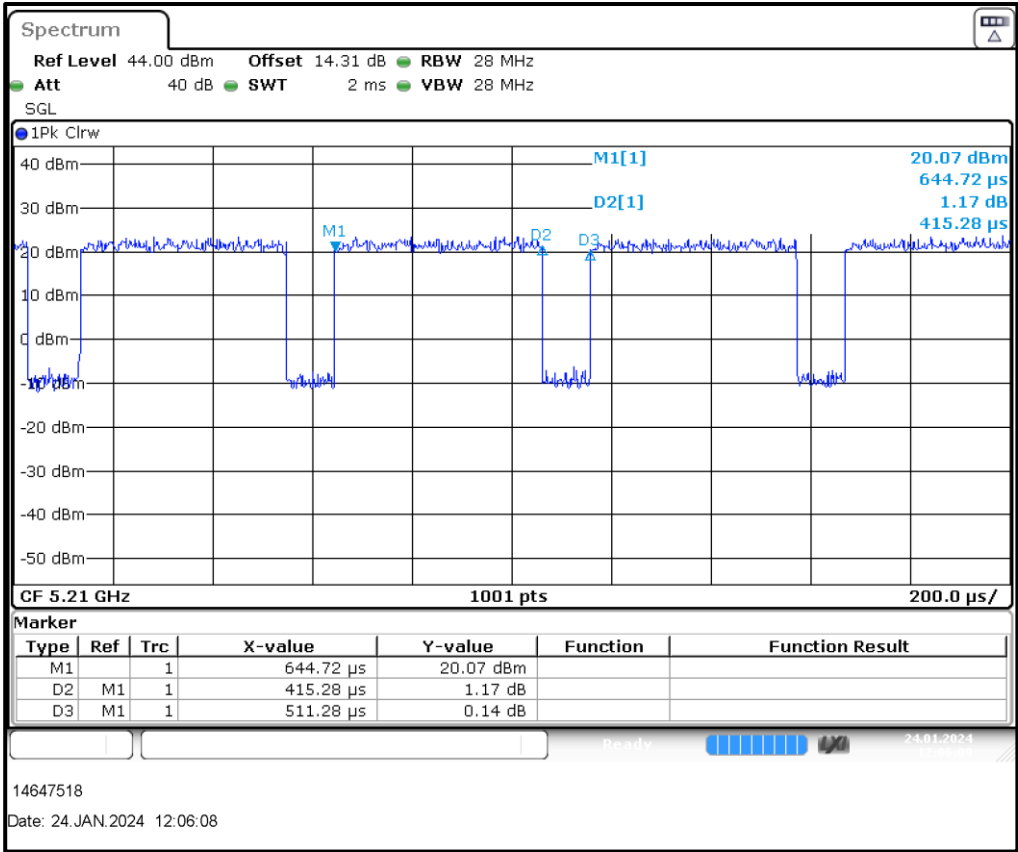


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-1 / 802.11ac / 80 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.41528                               | 0.51128                                                | 81.22          | 0.90                              |

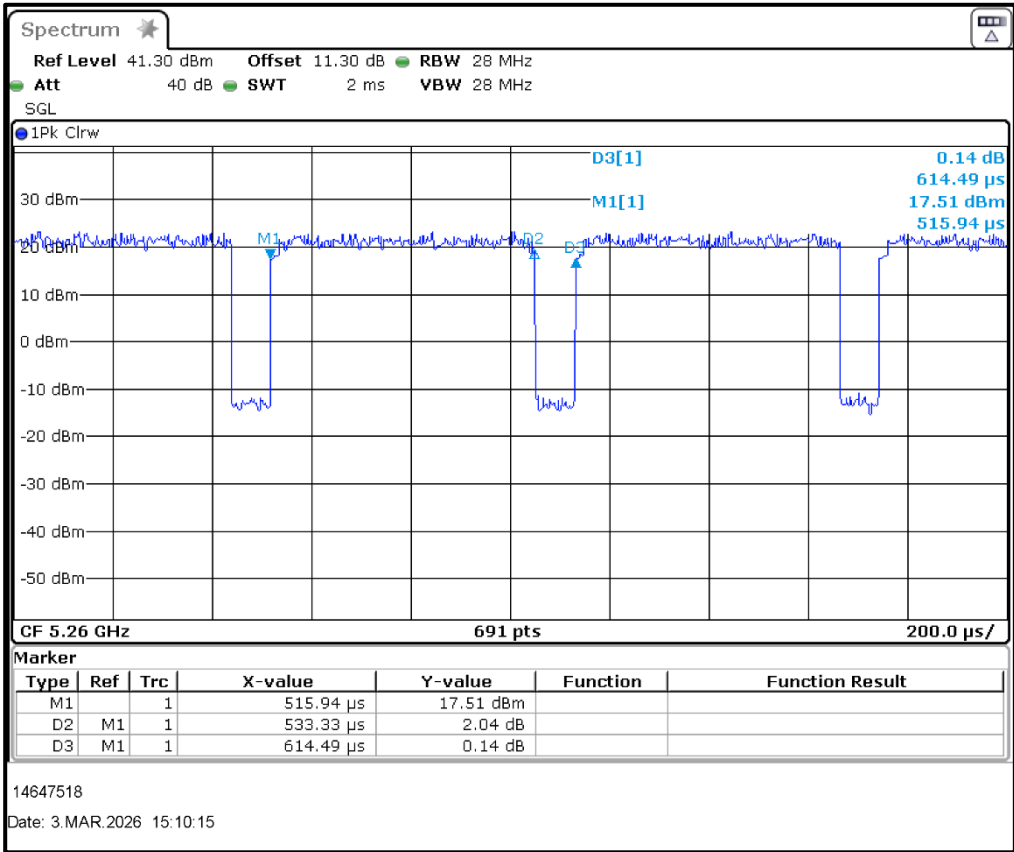


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2A / 802.11a / 20 MHz / 24 Mbps / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.53333                               | 0.61449                                                | 86.79          | 0.61                              |

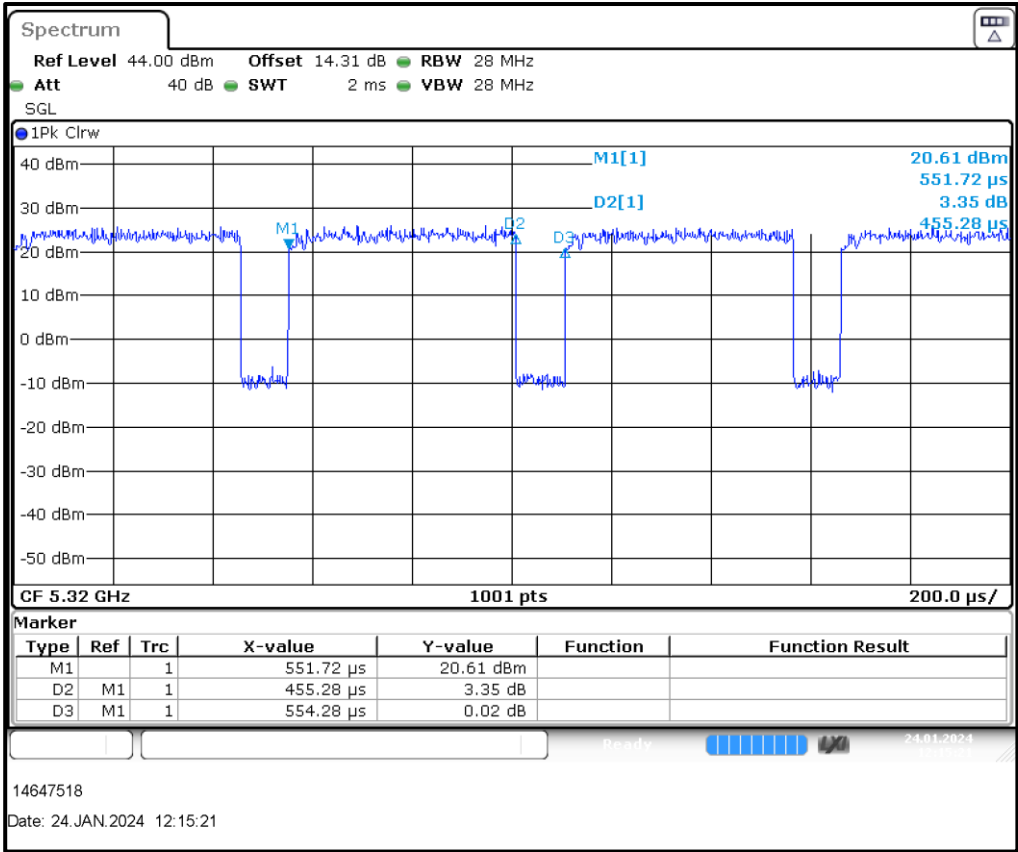


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2A / 802.11n / 20 MHz / MCS3 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.45528                               | 0.55428                                                | 82.14          | 0.85                              |

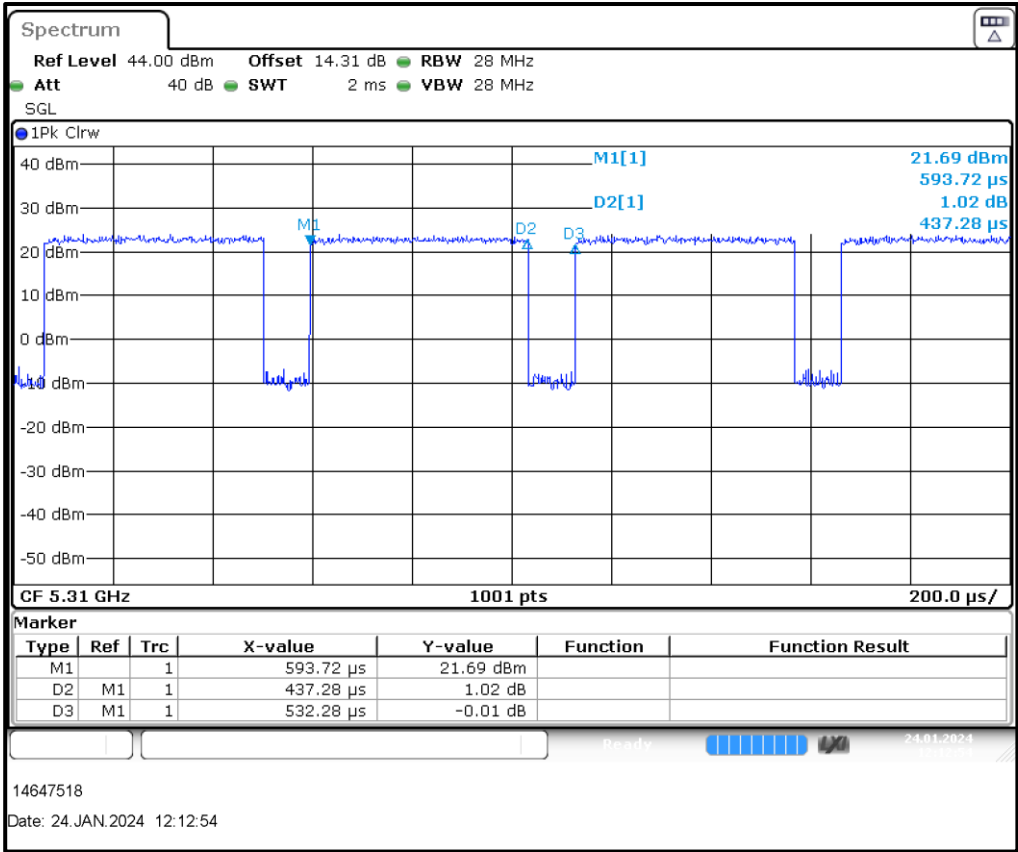


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2A / 802.11n / 40 MHz / MCS1 / Port 2

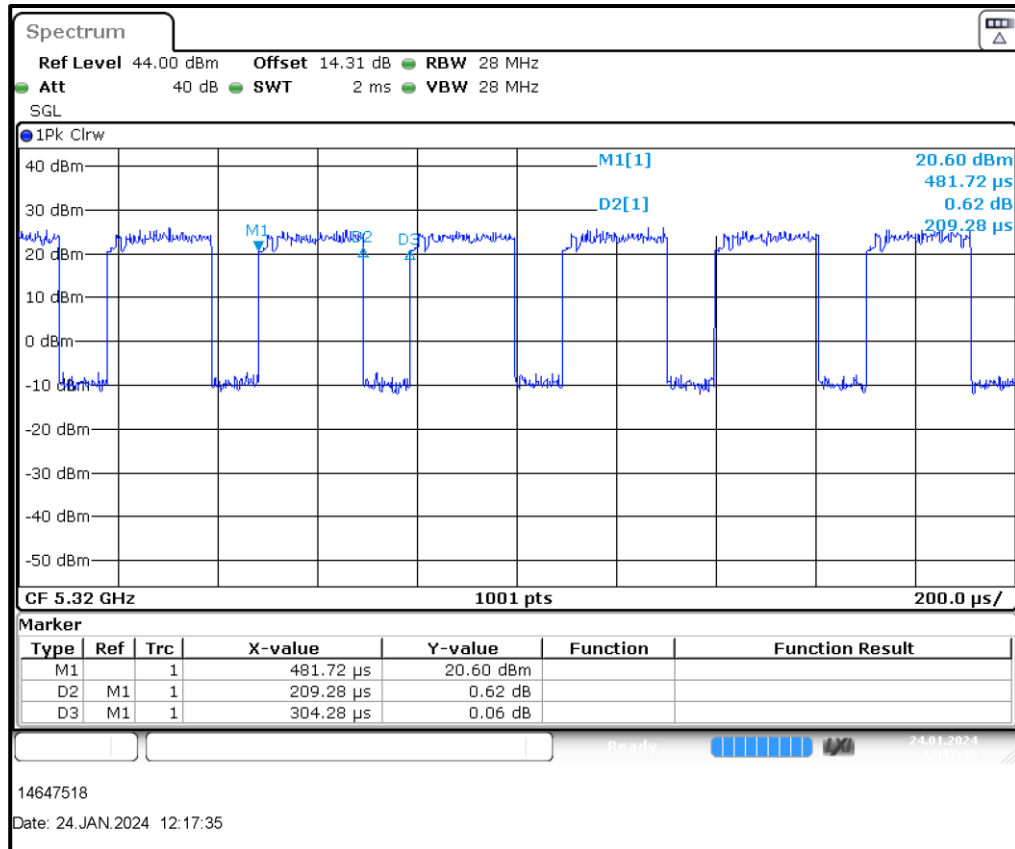
| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.43728                               | 0.53228                                                | 82.15          | 0.85                              |



Result: Pass

**Transmitter Duty Cycle (continued)****Results: AC Power Supply / UNII-2A / 802.11ac / 20 MHz / MCS7 / Port 2**

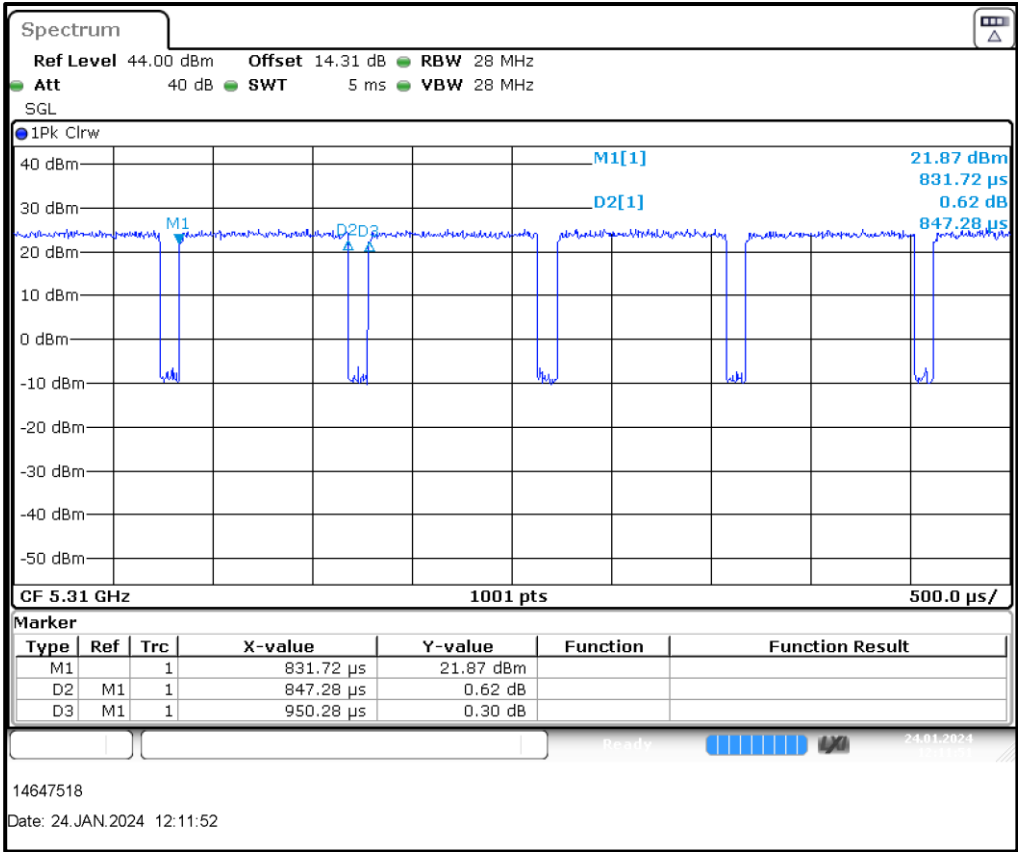
| Pulse On Time (T <sub>ON</sub> )<br>(ms) | Pulse Period (T <sub>ON</sub> + T <sub>OFF</sub> )<br>(ms) | Duty Cycle<br>(%) | Duty Cycle Correction Factor<br>(dB) |
|------------------------------------------|------------------------------------------------------------|-------------------|--------------------------------------|
| 0.20928                                  | 0.30428                                                    | 68.78             | 1.63                                 |

**Result: Pass**

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2A / 802.11ac / 40 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.84728                               | 0.95028                                                | 89.16          | 0.50                              |

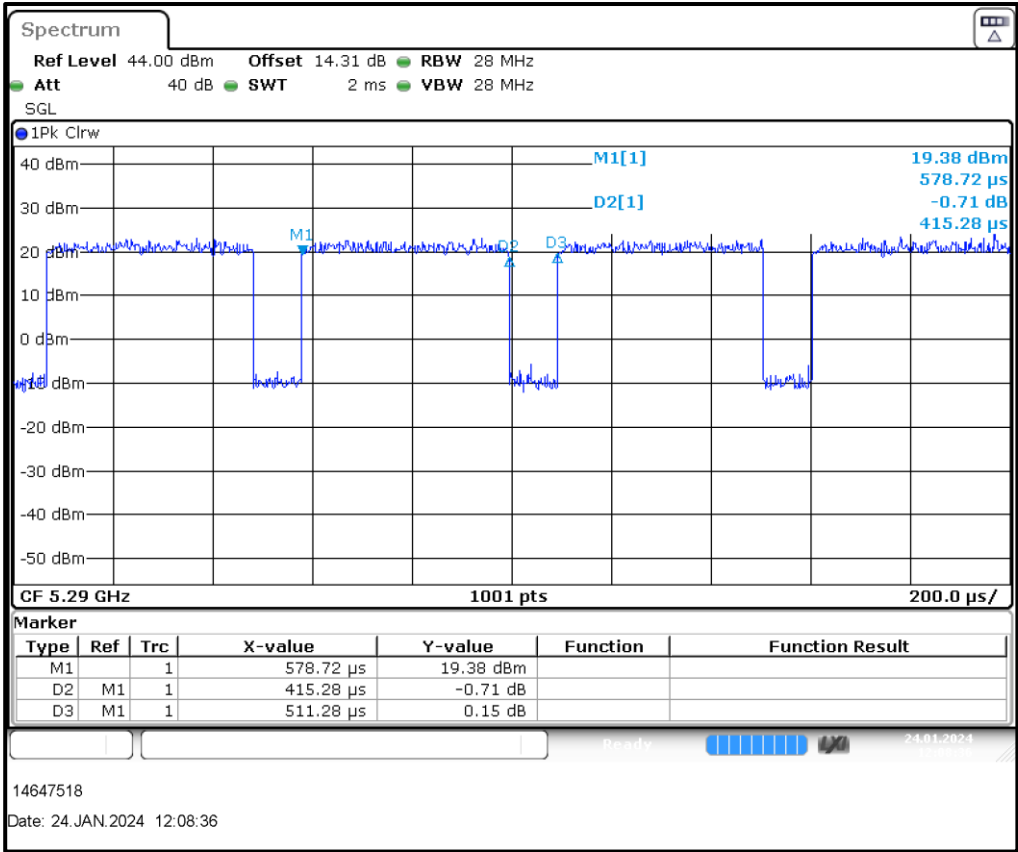


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2A / 802.11ac / 80 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.41528                               | 0.51128                                                | 81.22          | 0.90                              |

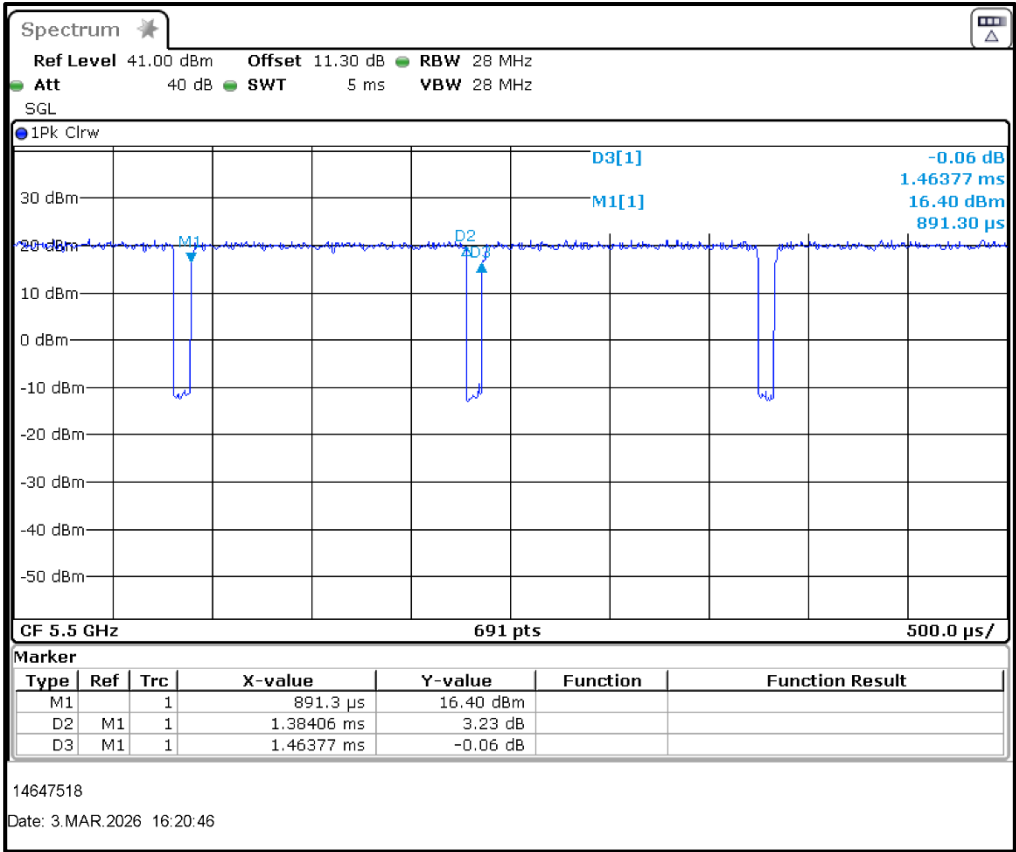


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11a / 20 MHz / 9 Mbps / Port 2

| Pulse On Time (T <sub>ON</sub> )<br>(ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> )<br>(ms) | Duty Cycle<br>(%) | Duty Cycle Correction Factor<br>(dB) |
|------------------------------------------|-----------------------------------------------------------|-------------------|--------------------------------------|
| 1.38406                                  | 1.46377                                                   | 94.55             | 0.24                                 |

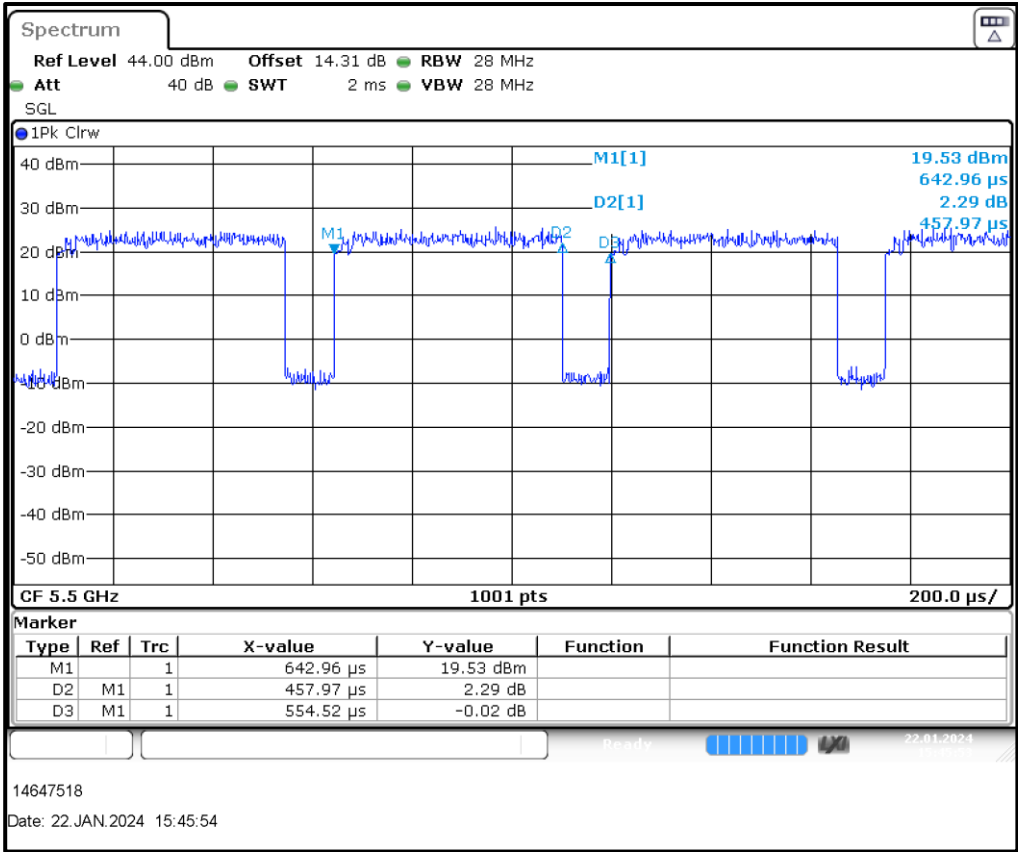


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11n / 20 MHz / MCS3 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.45797                               | 0.55452                                                | 82.59          | 0.83                              |

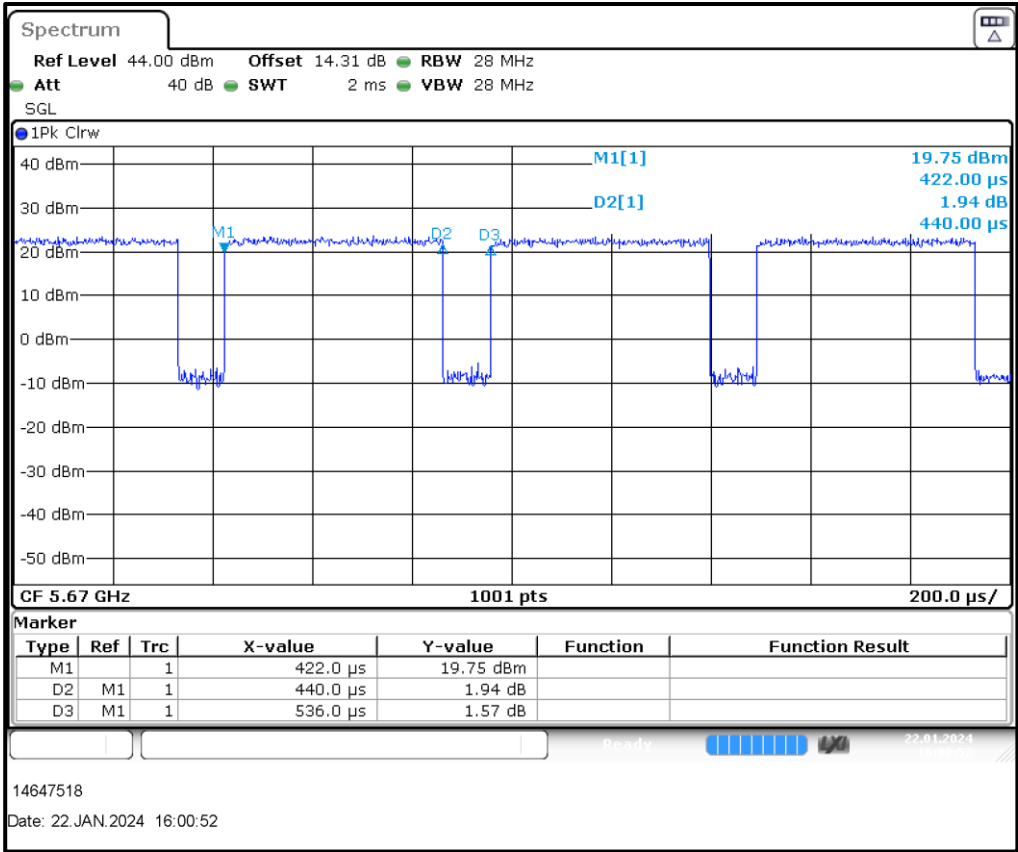


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11n / 40 MHz / MCS1 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.44000                               | 0.53600                                                | 82.09          | 0.86                              |

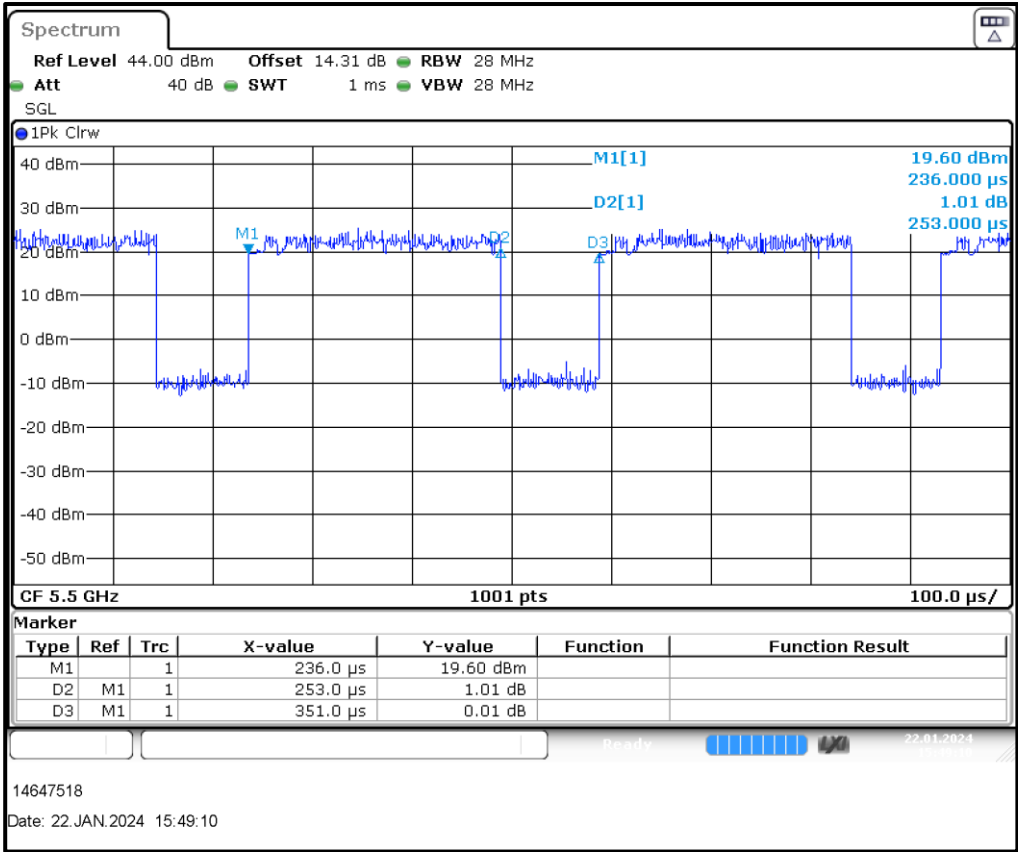


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11ac / 20 MHz / MCS5 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.25300                               | 0.35100                                                | 72.08          | 1.42                              |

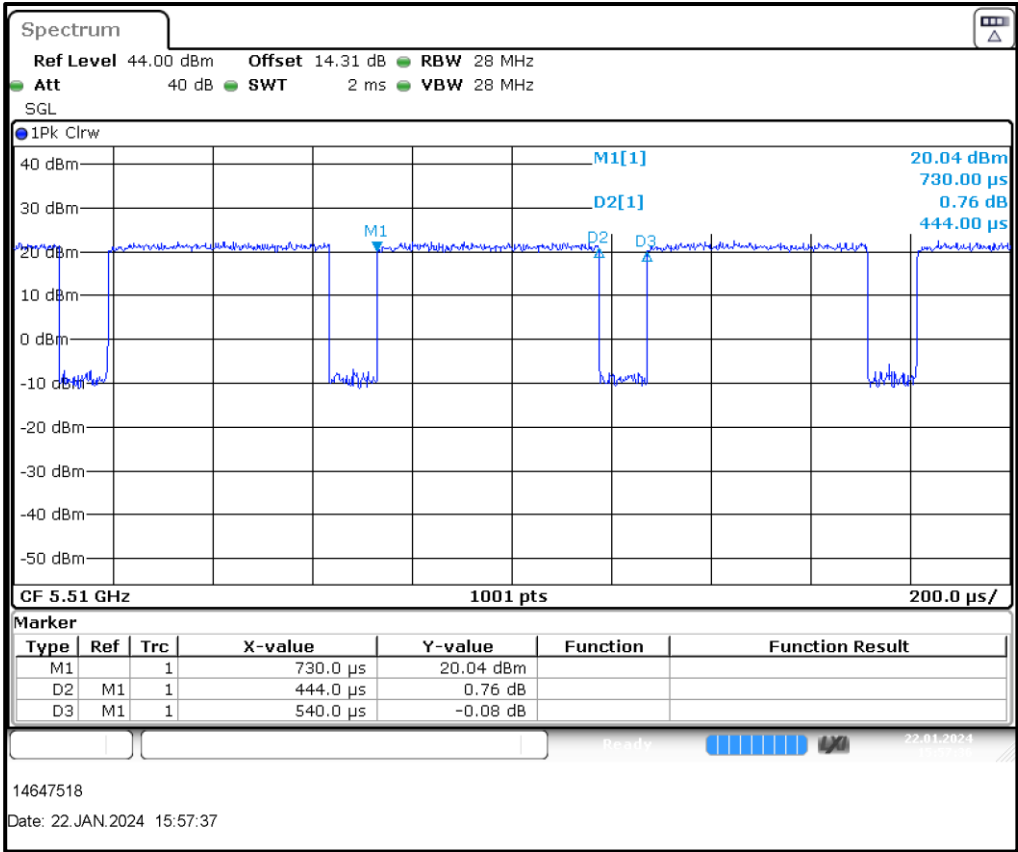


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11ac / 40 MHz / MCS1 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.44400                               | 0.54000                                                | 82.22          | 0.85                              |

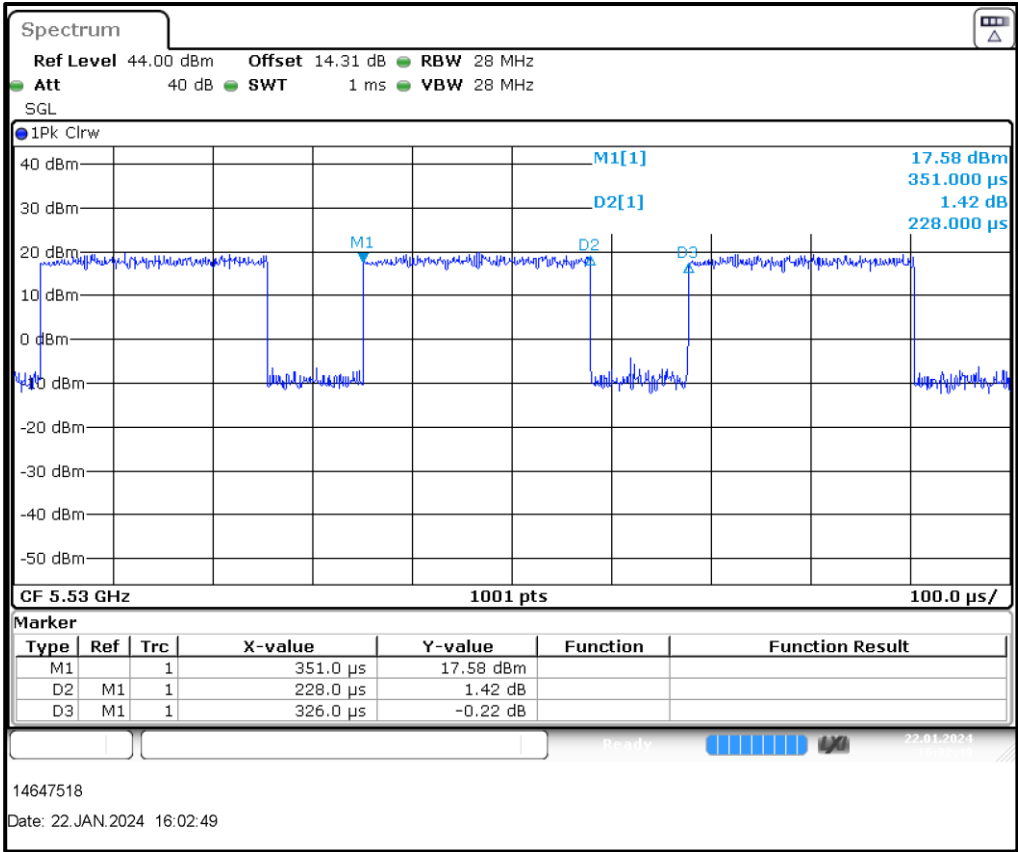


Result: Pass

Transmitter Duty Cycle (continued)

Results: AC Power Supply / UNII-2C / 802.11ac / 80 MHz / MCS0 / Port 2

| Pulse On Time (T <sub>ON</sub> ) (ms) | Pulse Period (T <sub>ON</sub> +T <sub>OFF</sub> ) (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---------------------------------------|--------------------------------------------------------|----------------|-----------------------------------|
| 0.22800                               | 0.32600                                                | 69.94          | 1.55                              |



Result: Pass

**5.2.4. Transmitter Maximum Conducted Output Power****Test Summary:**

|                                   |                                                                                                                                                                    |                   |                                                                             |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------|
| <b>Test Engineer:</b>             | Abbas Al-Hussainy<br>Omar El Moghrabi                                                                                                                              | <b>Test Date:</b> | 13 December 2023 to<br>22 January 2024<br>11 February 2025<br>12 March 2026 |
| <b>Test Sample Serial Number:</b> | 04425600823330100049<br>04425600823330100093                                                                                                                       |                   |                                                                             |
| <b>Test Site Identification</b>   | SR 9 & N-I TS8997<br>Test has been done on Neu-Isenburg lab due to relocation of Stuttgart office under the DAKKS accreditation number:<br><b>D-PL-19381-01-02</b> |                   |                                                                             |

|                          |                                                                  |
|--------------------------|------------------------------------------------------------------|
| <b>FCC Reference:</b>    | Part 15.407(a)(1)(ii), (2)                                       |
| <b>Test Method Used:</b> | FCC KDB 789033 D02 Section II.E.3.a<br>ANSI C63.10 Sections 14.2 |

**Environmental Conditions:**

|                               |              |
|-------------------------------|--------------|
| <b>Temperature (°C):</b>      | 21.0 to 22.6 |
| <b>Relative Humidity (%):</b> | 38.7 to 41.0 |

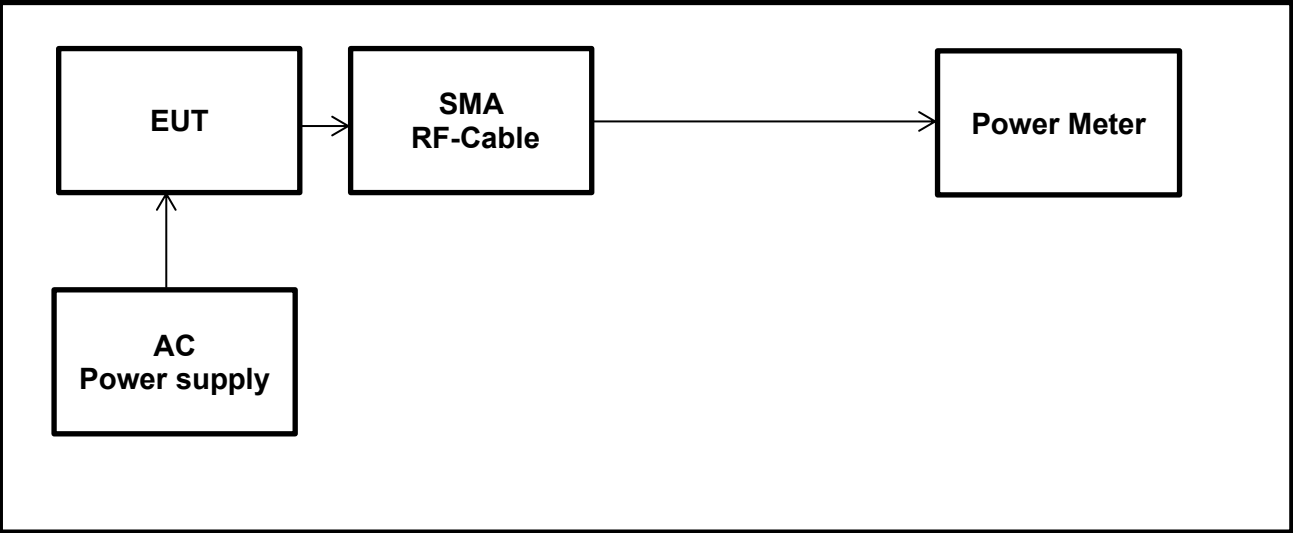
**Notes:**

- As the EUT was transmitting at <98% duty cycle, calculated duty cycle in section 5.2.3 was added to the measured power values in order to compute the average power during the actual transmission time.

|               | UNII-1  | DCCF | UNII-2A | DCCF | UNII-2C | DCCF |
|---------------|---------|------|---------|------|---------|------|
| a-mode        | 24 Mbps | 0.63 | 24 Mbps | 0.61 | 9 Mbps  | 0.24 |
| n-mode HT20   | MCS4    | 1.15 | MCS3    | 0.85 | MCS3    | 0.83 |
| n-mode HT40   | MCS0    | 0.46 | MCS1    | 0.85 | MCS1    | 0.86 |
| ac-mode VHT20 | MCS0    | 0.26 | MCS7    | 1.63 | MCS5    | 1.42 |
| ac-mode VHT40 | MCS0    | 0.48 | MCS0    | 0.50 | MCS1    | 0.85 |
| ac-mode VHT80 | MCS0    | 0.90 | MCS0    | 0.9  | MCS1    | 1.55 |

- Both SISO and MIMO modes were investigated for 802.11n modes & 802.11ac modes. As the MIMO output power is higher than the SISO output power, only the MIMO values were reported.
- The product supports MIMO in IEEE 802.11n and IEEE 802.11ac modes on antenna port 1 and port 2:
  - The power meter was connected to the RF ports on the EUT.
  - For 802.11n modes & 802.11ac modes the power meter measured both output ports of EUT and summed up the readings as the output power including proper path loss.
  - For the 802.11a measurements, pretests have shown that the output power on port 2 is higher and represents the worst case. The port 2 output power measurements included proper path loss.
  - The maximum output power of each band/mode was then adjusted by DCCF and corresponding antenna gain to be compared with the limit.
- For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24 dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

**Test Setup (AC Power Supply):**



**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-1 / 802.11a / Antenna Port 2**

| Operational bands:                                           | PWR 16       |       |              |
|--------------------------------------------------------------|--------------|-------|--------------|
| Channel no.:                                                 | 36           | 44    | 48           |
| a-mode                                                       | UNII 1       |       |              |
| 6Mbit                                                        | 14.66        | 14.87 | <b>14.93</b> |
| Operational bands:                                           | a-mode       |       |              |
| FCC-Limits [dBm]                                             | 30.0         |       |              |
| FCC-Limits [dBm] EIRP                                        | 36.0         |       |              |
| Limit Check:                                                 | Limit Check: |       |              |
| Highest conducted power value over channels and modulations: | 14.93        |       |              |
| Duty Cycle Correction                                        | 0.63         |       |              |
| Corrected power                                              | 15.56        |       |              |
| Margin to FCC Limit:                                         | 14.44        |       |              |
| Declared antenna Gain max:                                   | 2.13         |       |              |
| EIRP                                                         | 17.69        |       |              |
| Margin to Limit EIRP:                                        | 18.31        |       |              |
| Verdict:                                                     | <b>Pass</b>  |       |              |

**Result:** **Pass**

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-1 / 802.11n / MIMO / Antenna Port 1+2**

| Power                                                        | 16           |      |      | 13     |      |
|--------------------------------------------------------------|--------------|------|------|--------|------|
| Channel no.:                                                 | 36           | 44   | 48   | 38     | 46   |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      |
| n-mode                                                       | UNII 1       |      |      |        |      |
| MCS0                                                         | 19.2         | 19.1 | 19.4 | 16.3   | 16.7 |
| Operational bands:                                           | n20          |      |      | n40    |      |
| FCC-Limits [dBm]                                             | 30.0         |      |      | 30     |      |
| FCC-Limits [dBm] EIRP                                        | 36           |      |      | 36     |      |
| Limit Check:                                                 | Limit Check: |      |      |        |      |
| Highest conducted power value over channels and modulations: | 19.40        |      |      | 16.7   |      |
| Duty Cycle Correction                                        | 1.15         |      |      | 0.46   |      |
| Corrected power                                              | 20.55        |      |      | 17.16  |      |
| Margin to FCC Limit:                                         | 9.45         |      |      | 12.84  |      |
| Declared antenna Gain max:                                   | 2.13         |      |      | 2.13   |      |
| EIRP                                                         | 22.68        |      |      | 19.29  |      |
| Margin to Limit EIRP:                                        | 13.32        |      |      | 16.71  |      |
| Verdict:                                                     | pass         |      |      | pass   |      |

**Result:** Pass

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-1 / 802.11ac / MIMO / Antenna Port 1+2**

| Power                                                        | 16           |      |      | 13     |      | 11     |
|--------------------------------------------------------------|--------------|------|------|--------|------|--------|
| Channel no.:                                                 | 36           | 44   | 48   | 38     | 46   | 38     |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      | 80 MHz |
| ac-mode                                                      | UNII 1       |      |      |        |      |        |
| MCS0                                                         | 19.3         | 19.1 | 19.6 | 16.6   | 16.9 | 14.7   |
| Operational bands:                                           | ac20         |      |      | ac40   |      | ac80   |
| FCC-Limits [dBm]                                             | 30.0         |      |      | 30.0   |      | 30.0   |
| FCC-Limits [dBm] EIRP                                        | 36.0         |      |      | 36.0   |      | 36.0   |
| Limit Check:                                                 | Limit Check: |      |      |        |      |        |
| Highest conducted power value over channels and modulations: | 19.60        |      |      | 16.90  |      | 14.70  |
| Duty Cycle Correction                                        | 0.26         |      |      | 0.48   |      | 0.90   |
| Corrected Power                                              | 19.86        |      |      | 17.38  |      | 15.60  |
| Margin to FCC Limit:                                         | 10.14        |      |      | 12.62  |      | 14.40  |
| Declared antenna Gain max:                                   | 2.13         |      |      | 2.13   |      | 2.13   |
| EIRP                                                         | 21.99        |      |      | 19.51  |      | 17.73  |
| Margin to Limit EIRP:                                        | 14.01        |      |      | 16.49  |      | 18.27  |
| Verdict:                                                     | pass         |      |      | pass   |      | pass   |

**Result: Pass**

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2A / 802.11a / Antenna Port 2**

| Operational bands:                                           | PWR 16       |       |       |
|--------------------------------------------------------------|--------------|-------|-------|
| Channel no.:                                                 | 52           | 60    | 64    |
| a-mode                                                       | UNII 2a      |       |       |
| 9Mbit                                                        | 14.86        | 14.05 | 13.60 |
| Operational bands:                                           | a-mode       |       |       |
| FCC-Limits [dBm]                                             | 30.0         |       |       |
| FCC-Limits [dBm] EIRP                                        | 36.0         |       |       |
| Limit Check:                                                 | Limit Check: |       |       |
| Highest conducted power value over channels and modulations: | 14.86        |       |       |
| Duty Cycle Correction                                        | 0.61         |       |       |
| Corrected Power                                              | 15.47        |       |       |
| Margin to FCC Limit:                                         | 14.53        |       |       |
| Declared antenna Gain max:                                   | 3.14         |       |       |
| EIRP                                                         | 18.61        |       |       |
| Margin to Limit EIRP:                                        | 17.39        |       |       |
| Verdict:                                                     | pass         |       |       |

**Result: Pass**

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2A / 802.11n / MIMO / Antenna Port 1+2**

| Power                                                        | 16           |      |      | 13     |      |
|--------------------------------------------------------------|--------------|------|------|--------|------|
| Channel no.:                                                 | 52           | 60   | 64   | 54     | 62   |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      |
| n-mode                                                       | UNII 2a      |      |      |        |      |
| MCS4                                                         | 18.9         | 18.8 | 18.0 | 16.8   | 16.0 |
| Operational bands:                                           | n20          |      |      | n40    |      |
| FCC-Limits [dBm]                                             | 24.0         |      |      | 24     |      |
| FCC-Limits [dBm] EIRP                                        | 30           |      |      | 30     |      |
| Limit Check:                                                 | Limit Check: |      |      |        |      |
| Highest conducted power value over channels and modulations: | 18.90        |      |      | 16.8   |      |
| Duty Cycle Correction                                        | 0.85         |      |      | 0.85   |      |
| Corrected power                                              | 19.75        |      |      | 17.65  |      |
| Margin to FCC Limit:                                         | 4.25         |      |      | 6.35   |      |
| Declared antenna Gain max:                                   | 3.14         |      |      | 3.14   |      |
| EIRP                                                         | 22.89        |      |      | 20.79  |      |
| Margin to Limit EIRP:                                        | 7.11         |      |      | 9.21   |      |
| Verdict:                                                     | pass         |      |      | pass   |      |

**Result: Pass**

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2A / 802.11ac / MIMO / Antenna Port 1+2**

| Power                                                        | 15.5         |      |      | 13     |      | 11     |
|--------------------------------------------------------------|--------------|------|------|--------|------|--------|
| Channel no.:                                                 | 52           | 60   | 64   | 54     | 62   | 58     |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      | 80 MHz |
| ac-mode                                                      | UNII 2a      |      |      |        |      |        |
| MCS0                                                         | 18.0         | 17.7 | 17.2 | 17.0   | 16.1 | 16.2   |
| Operational bands:                                           | ac20         |      |      | ac40   |      | ac80   |
| FCC-Limits [dBm]                                             | 24.0         |      |      | 24.0   |      | 24.0   |
| FCC-Limits [dBm] EIRP                                        | 30.0         |      |      | 30.0   |      | 30.0   |
| Limit Check:                                                 | Limit Check: |      |      |        |      |        |
| Highest conducted power value over channels and modulations: | 18.00        |      |      | 17.0   |      | 16.2   |
| Duty Cycle Correction                                        | 1.63         |      |      | 0.50   |      | 0.90   |
| Corrected power                                              | 19.63        |      |      | 17.50  |      | 17.10  |
| Margin to FCC Limit:                                         | 4.37         |      |      | 6.50   |      | 6.90   |
| Declared antenna Gain max:                                   | 3.14         |      |      | 3.14   |      | 3.14   |
| EIRP                                                         | 22.77        |      |      | 20.64  |      | 20.24  |
| Margin to Limit EIRP:                                        | 7.23         |      |      | 9.36   |      | 9.76   |
| Verdict:                                                     | pass         |      |      | pass   |      | pass   |

**Result:** Pass

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2C / 802.11a / Antenna Port 2**

| Operational bands:                                           | PWR 13.5     |       |              |
|--------------------------------------------------------------|--------------|-------|--------------|
| Channel no.:                                                 | 100          | 120   | 140          |
| a-mode                                                       | UNII 2c      |       |              |
| 6Mbit                                                        | 12.48        | 11.19 | <b>15.62</b> |
| Operational bands:                                           | a-mode       |       |              |
| FCC-Limits [dBm]                                             | 30.0         |       |              |
| FCC-Limits [dBm] EIRP                                        | 36.0         |       |              |
| Limit Check:                                                 | Limit Check: |       |              |
| Highest conducted power value over channels and modulations: | 15.62        |       |              |
| Duty Cycle Correction                                        | 0.24         |       |              |
| Corrected power                                              | 15.86        |       |              |
| Margin to Limit:                                             | 14.14        |       |              |
| Declared antenna Gain max:                                   | 3.58         |       |              |
| EIRP                                                         | 19.44        |       |              |
| Margin to Limit EIRP:                                        | 16.56        |       |              |
| Verdict:                                                     | pass         |       |              |

**Result: Pass**

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2C / 802.11n / MIMO / Antenna Port 1+2**

| Power                                                        | 13.5         |      |      | 11.5   |      |      |
|--------------------------------------------------------------|--------------|------|------|--------|------|------|
| Channel no.:                                                 | 100          | 120  | 140  | 102    | 118  | 134  |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      |      |
| n-mode                                                       | UNII 2a      |      |      |        |      |      |
| MCS3                                                         | 15.8         | 15.5 | 18.0 | 15.0   | 14.5 | 16.3 |
| Operational bands:                                           | n20          |      |      | n40    |      |      |
| FCC-Limits [dBm]                                             | 24.0         |      |      | 24.0   |      |      |
| FCC-Limits [dBm] EIRP                                        | 30.0         |      |      | 30.0   |      |      |
| Limit Check:                                                 | Limit Check: |      |      |        |      |      |
| Highest conducted power value over channels and modulations: | 18.0         |      |      | 16.29  |      |      |
| Duty Cycle Correction                                        | 0.83         |      |      | 0.86   |      |      |
| Corrected power                                              | 18.83        |      |      | 17.15  |      |      |
| Margin to FCC Limit:                                         | 5.17         |      |      | 6.85   |      |      |
| Declared antenna Gain max:                                   | 3.58         |      |      | 3.58   |      |      |
| EIRP                                                         | 22.41        |      |      | 20.73  |      |      |
| Margin to Limit EIRP:                                        | 7.59         |      |      | 9.27   |      |      |
| Verdict:                                                     | pass         |      |      | pass   |      |      |

**Result:** Pass

**Transmitter Maximum Conducted Output Power (continued)****Results: AC Power Supply / UNII-2C / 802.11ac / MIMO / Antenna Port 1+2**

| Power                                                        | 13.5         |      |      | 11.5   |      |      | 11.5   |      |
|--------------------------------------------------------------|--------------|------|------|--------|------|------|--------|------|
| Channel no.:                                                 | 100          | 120  | 140  | 102    | 118  | 134  | 106    | 122  |
| Bandwidth                                                    | 20 MHz       |      |      | 40 MHz |      |      | 80 MHz |      |
| ac-mode                                                      | UNII 2c      |      |      |        |      |      |        |      |
| MCS5                                                         | 16.4         | 16.2 | 18.7 | 15.1   | 14.3 | 16.1 | 14.5   | 14.0 |
| Operational bands:                                           | ac20         |      |      | ac40   |      |      | ac80   |      |
| FCC-Limits [dBm]                                             | 24.0         |      |      | 24.0   |      |      | 24.0   |      |
| FCC-Limits [dBm] EIRP                                        | 30.0         |      |      | 30.0   |      |      | 30.0   |      |
| Limit Check:                                                 | Limit Check: |      |      |        |      |      |        |      |
| Highest conducted power value over channels and modulations: | 18.7         |      |      | 16.2   |      |      | 15.1   |      |
| Duty Cycle Correction                                        | 1.42         |      |      | 0.85   |      |      | 1.55   |      |
| Corrected power                                              | 20.12        |      |      | 17.05  |      |      | 16.65  |      |
| Margin to FCC Limit:                                         | 3.88         |      |      | 6.95   |      |      | 7.35   |      |
| Declared antenna Gain max:                                   | 3.58         |      |      | 3.58   |      |      | 3.58   |      |
| EIRP                                                         | 23.7         |      |      | 20.63  |      |      | 20.23  |      |
| Margin to Limit EIRP:                                        | 6.30         |      |      | 9.37   |      |      | 9.77   |      |
| Verdict:                                                     | pass         |      |      | pass   |      |      | pass   |      |

**Result:** Pass