

## **AFC Radio Test Report**

**CW9172H**

Cisco Wireless 9172 Series Wi-Fi 7 Access Point

FCC ID: UDX-600215010

**5925-6425MHz, 6425-6525MHz, 6525-6875MHz, & 6875-7125MHz**

Against the following Specifications:

CFR47 Part 15.407



Cisco Systems, Inc.

170 West Tasman Drive

San Jose, CA 95134

|                                                                     |                                                                                                            |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|                                                                     |                                                                                                            |
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This report replaces any previously entered test report under EDCS 25644959. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system. Test Report Template EDCS# 25227885.

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## **Section 1: Overview**

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

|                   |
|-------------------|
| Specifications:   |
| CFR47 Part 15.407 |

## Section 2: Assessment Information

### 2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:

|                      |                                        |
|----------------------|----------------------------------------|
| Temperature          | 15 °C to 35 °C (54 °F to 95 °F)        |
| Atmospheric Pressure | 860 mbar to 1060 mbar (25.4" to 31.3") |
| Humidity             | 10% to 75*%                            |

- e) All AC testing was performed at one or more of the following supply voltages:

110V 60 Hz (+/-20%)

### Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

$$\text{Emission level [dBuV]} = \text{Indicated voltage level [dBuV]} + \text{Cable Loss [dB]} + \text{Other correction factors [dB]}$$

The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:

Antenna Factors, Pre-Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss

Note: To convert the results from dBuV/m to uV/m use the following formula:

$$\text{Level in uV/m} = \text{Common Antilogarithm } [(X \text{ dBuV/m})/20] = Y \text{ uV/m}$$

### Measurement Uncertainty Values

|                                   |                        |
|-----------------------------------|------------------------|
| voltage and power measurements    | ± 2 dB                 |
| conducted EIRP measurements       | ± 1.4 dB               |
| radiated measurements             | ± 3.2 dB               |
| frequency measurements            | ± 2.4 10 <sup>-7</sup> |
| temperature measurements          | ± 0.54°                |
| humidity measurements             | ± 2.3%                 |
| DC and low frequency measurements | ± 2.5%                 |

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Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Radiated emissions (expanded uncertainty, confidence interval 95%)

|                    |              |
|--------------------|--------------|
| 30 MHz – 300 MHz   | $\pm 3.8$ dB |
| 300 MHz – 1000 MHz | $\pm 4.3$ dB |
| 1 GHz – 10 GHz     | $\pm 4.0$ dB |
| 10 GHz – 18GHz     | $\pm 8.2$ dB |
| 18GHz – 26.5GHz    | $\pm 4.1$ dB |
| 26.5GHz – 40GHz    | $\pm 3.9$ dB |

Conducted emissions (expanded uncertainty, confidence interval 95%)

|                 |               |
|-----------------|---------------|
| 30 MHz – 40 GHz | $\pm 0.38$ dB |
|-----------------|---------------|

A product is considered to comply with a requirement if the nominal measured value is below the limit line. The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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## 2.2 Date of testing

03/19/2025 – 03/21/2025

## 2.3 Report Issue Date

Cisco uses an electronic system to issue, store and control the revision of test reports. This system is called the Engineering Document Control System (EDCS). The actual report issue date is embedded into the original file on EDCS. Any copies of this report, either electronic or paper, that are not on EDCS must be considered uncontrolled.

| Date       | Version | Author          | Description               |
|------------|---------|-----------------|---------------------------|
| 03/26/2025 | 1       | Johanna Knudsen | Initial version of Report |

## 2.4 Testing facilities

Testing Laboratory  
Cisco Systems, Inc.  
125 West Tasman Drive (Building P)  
San Jose, CA 95134  
USA

Headquarters  
Cisco Systems, Inc.,  
170 West Tasman Drive  
San Jose, CA 95134,  
USA

**Test Engineer(s):**

Johanna Knudsen

**2.5 Equipment Assessed (EUT)**

CW9172H

**2.6 EUT Description**

CW9172H: Wall Plate, with Internal omnidirectional antennas

The Cisco Wireless 9172 Series Wi-Fi 7 access points are high-performance wireless solutions designed for environments like boutique hotels, healthcare clinics, retail stores, student housing, and distributed business locations such as regional branches and logistics hubs. With tri-radio functionality across 2.4-GHz, 5-GHz, and 6-GHz bands, the 9172 Series provides reliable, high-speed connectivity (frame rate up to 9000 Mbps) for spaces with low to moderate device density. Flexible deployment options—cloud, on-premises, or hybrid—allow seamless integration into existing networks.

The 9172 model supports flexible configurations, including a high-density 4x4 radio option for 5 GHz when the 6-GHz band is disabled, making it ideal for retail, healthcare, and branch office use. Both models feature plug-and-play setup with mount compatibility for quick and efficient deployment.

For customers, the 9172 Series delivers reliable Wi-Fi 7 performance, enabling advanced applications like IoT integration, telehealth, and seamless customer experiences. The primary business benefit is future-ready connectivity with energy efficiency, reducing power consumption while supporting evolving network demands. This makes the 9172 Series a cornerstone for modernizing and optimizing network infrastructure.

The radio supports the following modes of operation, listed below. The modes are further defined in the radio Theory of Operation following power tables defined for the US. The modes included in this report represent the worst-case data for all modes.

NonHT20, HE20, EHT20  
HE40, EHT40  
HE80, EHT80  
HE160, EHT160  
HE320, EHT320

The following antennas are supported by this product series. Please note, the antenna information has been provided by the customer (the Cisco business unit). The data included in this report represent the worst-case data for all antennas.

| 6GHz Radio Antenna gain |        |        |        |        |
|-------------------------|--------|--------|--------|--------|
|                         | UNII-5 | UNII-6 | UNII-7 | UNII-8 |
| Ant - A                 | 5.04   | 4.33   | 4.45   | 4.49   |
| Ant - B                 | 2.88   | 2.88   | 3.11   | 2.92   |

## 2.7 EUT Information for AFC

|                                                                                                                                                  |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>EUT Category</b>                                                                                                                              | Standard Power Access Point with Proxy |
| <b>Indoor or Outdoor Device</b>                                                                                                                  | Indoor                                 |
| <b>Professional Installation?</b>                                                                                                                | Yes                                    |
| <b>Supported Bandwidths</b>                                                                                                                      | 20/40/80/160/320MHz                    |
| <b>Does the AP comply with LPI rules?</b>                                                                                                        | Yes                                    |
| <b>Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?</b>                       | No                                     |
| <b>Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquired Channels field?</b>                              | Yes                                    |
| <b>AFC DUT's default inquiry type if more than one type supported</b>                                                                            | N/A                                    |
| <b>Does the AFC DUT need to be provided with BSS configuration parameters?</b>                                                                   | No                                     |
| <b>Does the AP comply with LPI rules?</b>                                                                                                        | Yes                                    |
| <b>Does the AP need mandatory registration information to create an Available Spectrum Request?</b>                                              | No                                     |
| <b>If the AP needs mandatory registration information to create an Available Spectrum Request, which geographic is supported by the AFC DUT?</b> | N/A                                    |
| <b>If the AP can act as a Fixed Client which method is used to send an Available Spectrum Inquiry request?</b>                                   | N/A                                    |

|                                 |                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Software Information</b> | Cisco SW<br>AP Image<br>Cisco AP Software, (ap1g9), [wng-bes26:/san/BUILD/workspace/c1717_throttle/label/ap1g9]<br>Compiled Sat Mar 15 13:58:40 GMT 2025<br>AP Running Image: 17.17.0.86 |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                                                                                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Proxy Software Information</b> | Cisco IOS XE Software, Version 17.17.01prd13<br>Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Version 17.17.1prd13, RELEASE SOFTWARE (fc1)<br>Compiled Mon 17-Mar-25 12:42 by mcpre<br>Controller Mode: Cisco C9800-40-K9 |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|





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## Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

### 4.1 Sample Details

| Sample No. | Equipment Details                              | Manufacturer/ Model     | Hardware Rev. | Firmware Rev.                                                                             | Software Rev.                           | Serial Number |
|------------|------------------------------------------------|-------------------------|---------------|-------------------------------------------------------------------------------------------|-----------------------------------------|---------------|
| S01        | Wireless Access Point                          | Cisco / CW9172H         | P2B           | Radio FW version:<br>QC_IMAGE_VERSION_STRING=WLAN.WBE.1.1.r8-00069-QCAHKSUPL_SILIC ONZ-19 | See Mode 1 below                        | STW290602FG   |
| S02        | Cisco Catalyst 9800 Series Wireless Controller | Cisco / C9800-40-K9     | A0            | NA                                                                                        | See Mode 1 below                        | TTM230905BL   |
| S03        | Server PC for traffic                          | ASUS / FX504G           | NA            | NA                                                                                        | NA                                      | NA            |
| S04        | Client Laptop                                  | Dell / XPS 13 9350      | NA            | NA                                                                                        | NA                                      | NA            |
| S05        | Test Harness Laptop                            | Lenovo / ThinkPad T480s | NA            | NA                                                                                        | AFC DUT Test Harness Version 2.0.65.184 | NA            |

### 4.2 System Details

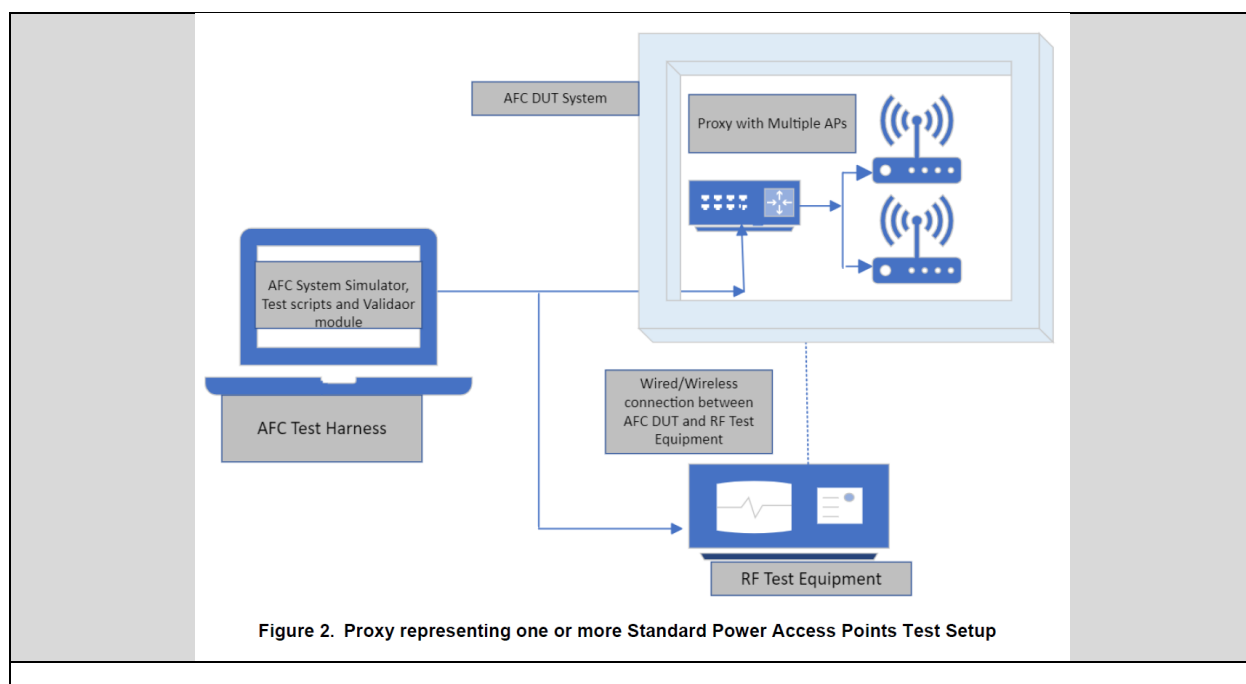
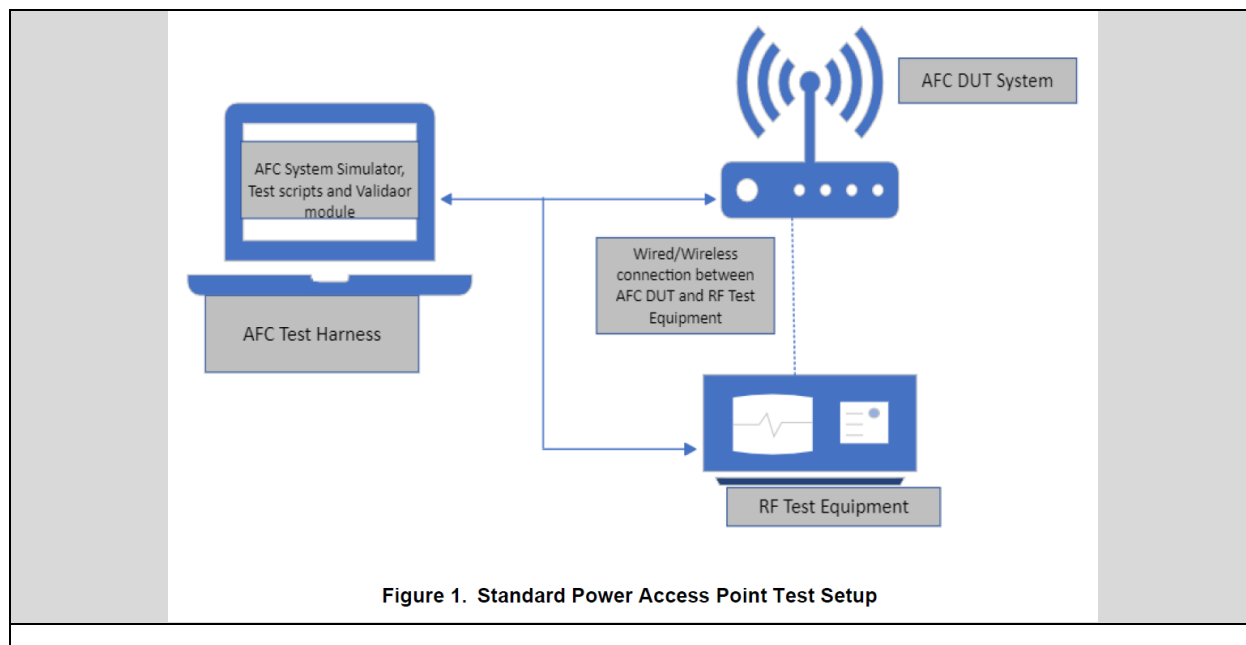
| System # | Description                       | Samples       |
|----------|-----------------------------------|---------------|
| 1        | EUT & Wireless Controller (Proxy) | S01, S02      |
| 2        | Support Equipment & Test Harness  | S03, S04, S05 |

### 4.3 Mode of Operation Details

| Mode# | Description                                                                                                           | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Mode for AFC (Access Point running Cisco Catalyst software, WLC as proxy, Test Harness Laptop, & Laptops for traffic) | <p>Access Point running Cisco Catalyst software:<br/>Cisco AP Software, (ap1g9), [wng-bes26:/san/BUILD/workspace/c1717_throttle/label/ap1g9]<br/>Compiled Sat Mar 15 13:58:40 GMT 2025</p> <p>AP Running Image: 17.17.0.86</p> <p>WLC Image<br/>Cisco IOS XE Software, Version 17.17.01prd13<br/>Cisco IOS Software [IOSXE], C9800 Software (C9800_IOSXE-K9), Version 17.17.1prd13, RELEASE SOFTWARE (fc1)<br/>Compiled Mon 17-Mar-25 12:42 by mcpre<br/>Controller Mode: Cisco C9800-40-K9</p> |

## Appendix A: AFC DUT Test Harness Results

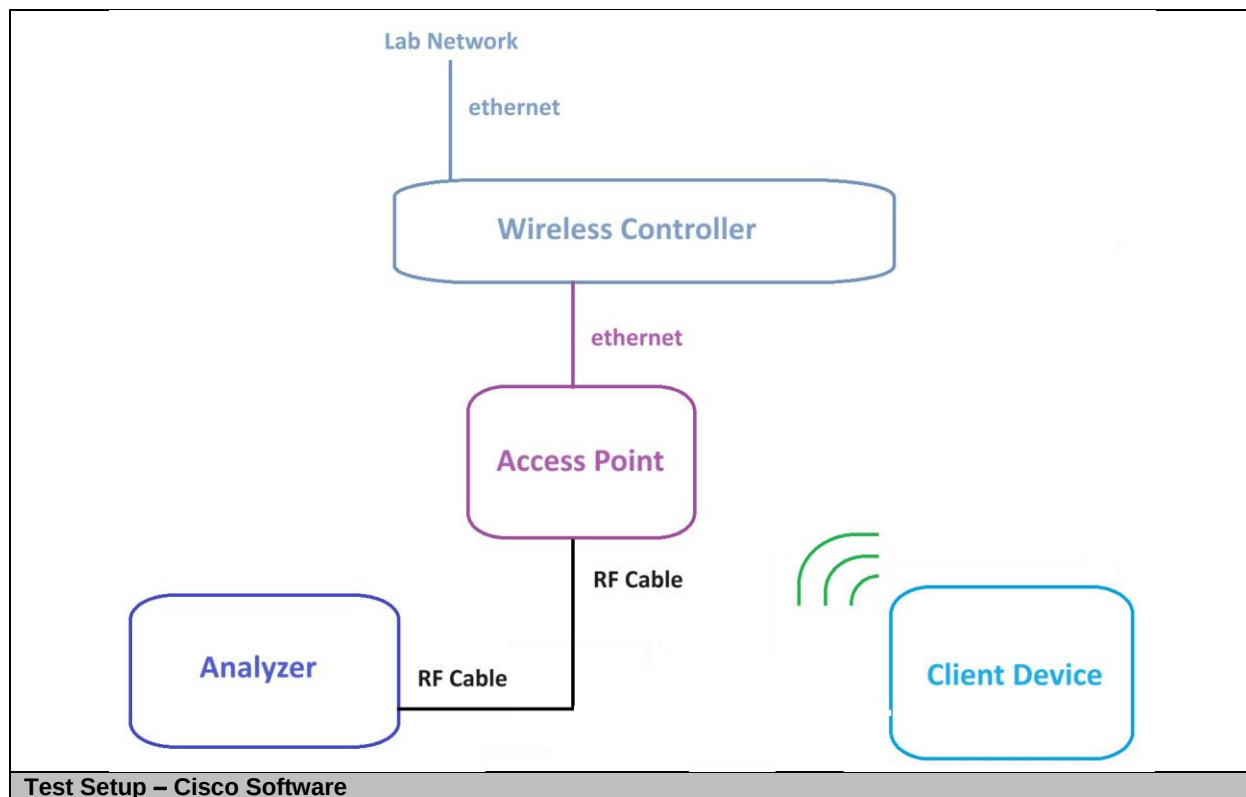
### Conducted Test Setup Diagram



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## Test Setup Description



## **A.1 AFC Results**

### **Automated Frequency Coordination Test Requirement**

#### **FCC 15.407(k)(1), (8)**

47 CFR 15.407(k) Automated frequency coordination (AFC) system

(1) Standard power access points and fixed client devices operating under paragraph (a)(4) of this section must access an AFC system to determine the available frequencies and the maximum permissible power in each frequency range at their geographic coordinates prior to transmitting. Standard power access points and fixed client devices may transmit only on frequencies and at power levels that an AFC system indicates as available.

(8) Standard power access points and fixed client devices:

(i) Must register with and be authorized by an AFC system prior to the standard power access point and fixed client device's initial service transmission, or after a standard power access point or fixed client device changes location, and must obtain a list of available frequencies and the maximum permissible power in each frequency range at the standard power access point and fixed client device's location.

(ii) Must register with the AFC system by providing the following parameters: Geographic coordinates (latitude and longitude referenced to North American Datum 1983 (NAD 83)), antenna height above ground level, FCC identification number, and unique manufacturer's serial number. If any of these parameters change, the standard power access point or fixed client device must provide updated parameters to the AFC system. All information provided by the standard power access point and the fixed client device to the AFC system must be true, complete, correct, and made in good faith.

(iii) Must provide the registration information to the AFC system either directly and individually or by a network element representing multiple standard power access points or fixed client devices from the same operating network. The standard power access point, fixed client device or its network element must register with the AFC system via any communication link, wired or wireless, outside 5.925–6.425 GHz and 6.525–6.875 GHz bands.

(iv) Must contact an AFC system at least once per day to obtain the latest list of available frequencies and the maximum permissible power the standard power access point or fixed client device may operate with on each frequency at the standard power access point and fixed client device's location. If the standard power access point or fixed client device fails to successfully contact the AFC system during any given day, the standard power access point or fixed client device may continue to operate until 11:59 p.m. of the following day at which time it must cease operations until it re-establishes contact with the AFC system and re-verifies its list of available frequencies and associated power levels.

(v) Must incorporate adequate security measures to prevent it from accessing AFC systems not approved by the FCC and to ensure that unauthorized parties cannot modify the device to operate in a manner inconsistent with the rules and protection criteria set forth in this section and to ensure that communications between standard power access points, fixed client devices and AFC systems are secure to prevent corruption or unauthorized interception of data. Additionally, the AFC system must incorporate security measures to protect against unauthorized data input or alteration of stored data, including establishing communications authentication procedures between client devices and standard power access points.

#### **987594 D01 U-NII 6GHz General Requirements v03**

##### **4. Standard Power Access Points and Associated Clients (6SD, 6FX, 6FC)**

The operation standard power APs and Fixed clients are prohibited on oil platforms, cars, trains, boats, and aircraft. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems. A Security description is required (15.407(i), Device Security) for all U-NII devices to protect against software modification by unauthorized parties (see KDB 789033). Label information required in the exhibit types ID Label/Location Info FCC ID E-labelling is permitted on devices qualifying for e-labelling. 4.1 Standard Power Access Point (6SD) Operates in the 5.925-6.425 GHz and 6.525-6.875 GHz bands. Is managed by an Automated Frequency Coordination System. A standard power access point must provide relevant information to an associated client so that the client can adjust its EIRP to a minimum 6 dB lower than what is authorized by the AFC for the standard-power access point. These devices may operate as a bridge, peer-to-peer connection, connector between the wired and

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wireless segments of the network, or a relay between wireless network segments. FCC ID: E-labelling is permitted on devices qualifying for e-labelling. Label information required in the exhibit types ID Label/Location Info: • FCC ID The device user manual must contain the following information. The user manual must be filed as an exhibit in the application filing. • The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft. • Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems. Geolocation exhibits required see section 10 below. EMC test reports guidance provided in 987594 D02 U-NII 6 GHz EMC Measurement AFC DUT test harness guidance, provided in 987594 D05 Standard AP and Fixed Client Testing.

#### Automated Frequency Coordination Test Procedure

##### 987594 D01 U-NII 6GHz General Requirements v03

EMC test reports guidance provided in 987594 D02 U-NII 6 GHz EMC Measurement AFC DUT test harness guidance, provided in 987594 D05 Standard AP and Fixed Client Testing.

##### 987594 D01 U-NII 6GHz General Requirements v03

|                                         |  |
|-----------------------------------------|--|
| <b>Automated Frequency Coordination</b> |  |
| Test Procedure                          |  |
| See Wi-Fi Alliance DUT harness guidance |  |

#### Samples, Systems, and Modes

| System Number | Description | Samples       | System under test                   | Support equipment                   |
|---------------|-------------|---------------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01, S02      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S03, S04, S05 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Tested By:</b><br>Johanna Knudsen | <b>Date of testing:</b><br>03/19/2025 – 03/21/2025 |
| <b>Test Result: PASS</b>             |                                                    |

#### Test Equipment

See Appendix C for list of test equipment.

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## Wi-Fi Alliance Test Harness AFC test reports

**CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_20MHz\_10618\_1**

### AFC DUT Compliance Test Report

#### DUT Information

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

#### Test Result

| FCC Requirements                                                                                          | TestCaseName                                                                                                          | Test Result |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(1), 15.407(k)(8)(i),<br>15.407(k)(8)(ii), 15.407(k)(8)(iii),<br>15.407(l)(ii), 15.407(k)(8)(iv) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1</a><br>(Successful registration and spectrum access request) | PASS        |

#### Test Measurements

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_20MHz\_10618\_1 (Successful registration and spectrum access request)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name    | Description                                                                           | Value | Validation Result |
|----------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |

|                                            |                                                                                                                                                                 |      |      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1     | AFC DUT sends an Available Spectrum Inquiry Request                                                                                                             | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                        | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (21.6 dBm EIRP) in Spectrum Reponse] on channel 37 bandwidth 20. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2     | AFC DUT sends an Available Spectrum Inquiry Request                                                                                                             | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2    | Valid mandatory registration information                                                                                                                        | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (33.4 dBm EIRP) in Spectrum Reponse] on channel 21 bandwidth 20. | true | PASS |





Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_40MHz\_10619\_1**

**AFC DUT Compliance Test Report**

**DUT Information**

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

**Test Result**

---

| <b>FCC Requirements</b>                                                                                   | <b>TestCaseName</b>                                                                                                   | <b>Test Result</b> |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------|
| 15.407(k)(1), 15.407(k)(8)(i),<br>15.407(k)(8)(ii), 15.407(k)(8)(iii),<br>15.407(l)(ii), 15.407(k)(8)(iv) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1</a><br>(Successful registration and spectrum access request) | PASS               |

**Test Measurements**

---

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_40MHz\_10619\_1 (Successful registration and spectrum access request)

**TestResult:**PASS

**Band:**6GHz

| <b>Measurements Name</b>               | <b>Description</b>                                                                    | <b>Value</b> | <b>Validation Result</b> |
|----------------------------------------|---------------------------------------------------------------------------------------|--------------|--------------------------|
| AFC_DUT_SP_OPERATION                   | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false        | PASS                     |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request                                   | true         | PASS                     |

|                                            |                                                                                                                                                                                         |      |      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                                                | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (26.6 dBm EIRP) in Spectrum Reponse] on channel center frequency index 3 bandwidth 40.   | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2     | AFC DUT sends an Available Spectrum Inquiry Request                                                                                                                                     | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2    | Valid mandatory registration information                                                                                                                                                | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (25.6 dBm EIRP) in Spectrum Reponse] on channel center frequency index 131 bandwidth 40. | true | PASS |

Radio Test Report No: **EDCS - 25644959**

**CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_80MHz\_10620\_1**

## AFC DUT Compliance Test Report

### DUT Information

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

| FCC Requirements                                                                                          | TestCaseName                                                                                                           | Test Result |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(1), 15.407(k)(8)(i),<br>15.407(k)(8)(ii), 15.407(k)(8)(iii),<br>15.407(l)(ii), 15.407(k)(8)(iv) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1<br/>(Successful registration and spectrum access request)</a> | PASS        |

### Test Measurements

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_80MHz\_10620\_1 (Successful registration and spectrum access request)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                      | Description                                                                           | Value | Validation Result |
|----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                   | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

|                                            |                                                                                                                                                                                        |      |      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                                               | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (27.9 dBm EIRP) in Spectrum Reponse] on channel center frequency index 7 bandwidth 80.  | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2     | AFC DUT sends an Available Spectrum Inquiry Request                                                                                                                                    | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2    | Valid mandatory registration information                                                                                                                                               | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (30.9 dBm EIRP) in Spectrum Reponse] on channel center frequency index 23 bandwidth 80. | true | PASS |

Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_160MHz\_10621\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| FCC Requirements                                                                                             | TestCaseName                                                                                                            | Test Result |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(1), 15.407(k)(8)(i),<br>15.407(k)(8)(ii),<br>15.407(k)(8)(iii), 15.407(l)(ii),<br>15.407(k)(8)(iv) | <a href="#">CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1<br/>(Successful registration and spectrum access request)</a> | PASS        |

### Test Measurements

---

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_160MHz\_10621\_1 (Successful registration and spectrum access request)

**TestResult:** PASS

**Band:** 6GHz

| Measurements Name                      | Description                                                                           | Value | Validation Result |
|----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                   | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

|                                            |                                                                                                                                                                                         |      |      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                                                | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (30.0 dBm EIRP) in Spectrum Reponse] on channel center frequency index 15 bandwidth 160. | true | PASS |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2     | AFC DUT sends an Available Spectrum Inquiry Request                                                                                                                                     | true | PASS |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2    | Valid mandatory registration information                                                                                                                                                | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (30.3 dBm EIRP) in Spectrum Reponse] on channel center frequency index 79 bandwidth 160. | true | PASS |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCDUSA32\_Channel\_10622\_1**

**AFC DUT Compliance Test Report**

**DUT Information**

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

**Test Result**

---

| FCC Requirements                                                      | TestCaseName                                                                                                                      | Test Result |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(1), 15.407(k)(8)(i),<br>15.407(k)(8)(ii), 15.407(k)(8)(iii) | <a href="#">CT AFC SP AP AFCDUSA32_Channel_10622_1</a><br><a href="#">(Unsuccessful registration and spectrum access request)</a> | PASS        |

**Test Measurements**

---

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDUSA32\_Channel\_10622\_1 (Unsuccessful registration and spectrum access request)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                    | Description                                                                           | Value | Validation Result |
|--------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                 | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

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|                                          |                                                                    |      |      |
|------------------------------------------|--------------------------------------------------------------------|------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID    | Valid mandatory registration information                           | true | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE | AFC DUT conforms to the conditons in the Spectrum Inquiry Response | true | PASS |





Radio Test Report No: **EDCS - 25644959**

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**CT\_AFC\_SP\_AP\_AFCDSAUI33\_Channel\_10623\_1**

**AFC DUT Compliance Test Report**

**DUT Information**

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

**Test Result**

---

| <b>FCC Requirements</b>                                  | <b>TestCaseName</b>                                                                             | <b>Test Result</b> |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------|
| 15.407(k)(8)(i),<br>15.407(k)(8)(ii),<br>15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDSAUI33_Channel_10623_1<br/>(Successful spectrum access update)</a> | PASS               |

**Test Measurements**

---

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDSAUI33\_Channel\_10623\_1 (Successful spectrum access update)

**TestResult:**PASS

**Band:**6GHz

| <b>Measurements Name</b>                | <b>Description</b>                                                                    | <b>Value</b> | <b>Validation Result</b> |
|-----------------------------------------|---------------------------------------------------------------------------------------|--------------|--------------------------|
| AFC_DUT_SP_OPERATION_1                  | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false        | PASS                     |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true         | PASS                     |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true         | PASS                     |

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---

|                                            |                                                                                                                                                                 |       |      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (24.6 dBm EIRP) in Spectrum Reponse] on channel 53 bandwidth 20. | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                            | false | PASS |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCDUAU34\_Channel\_10624\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| FCC Requirements                                         | TestCaseName                                                                                     | Test Result |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i),<br>15.407(k)(8)(ii),<br>15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1<br/>(Unsuccessful spectrum access update)</a> | PASS        |

### Test Measurements

---

**TestCaseName:** CT\_AFC\_SP\_AP\_AFCDUAU34\_Channel\_10624\_1 (Unsuccessful spectrum access update)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                       | Description                                                                           | Value | Validation Result |
|-----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                    | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true  | PASS              |

Radio Test Report No: **EDCS - 25644959**

---

|                                            |                                                                                                                                                                |       |      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (36.0 dBm EIRP) in Spectrum Reponse] on channel 5 bandwidth 20. | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                           | false | PASS |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_NonMatchSAN\_10632\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| <b>FCC Requirements</b> | <b>TestCaseName</b>                                                                                       | <b>Test Result</b> |
|-------------------------|-----------------------------------------------------------------------------------------------------------|--------------------|
| 15.407(k)(8)(v)         | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)</a> | PASS               |

### Test Measurements

---

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_NonMatchSAN\_10632\_1 (Unsuccessful server validation)

**TestResult:**PASS

**Band:**6GHz

| <b>Measurements Name</b>             | <b>Description</b>                                  | <b>Value</b> | <b>Validation Result</b> |
|--------------------------------------|-----------------------------------------------------|--------------|--------------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false        | PASS                     |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_DifferentRootCA\_10633\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                   |                              |
|-------------------|------------------------------|
| AFC DUT System    | Standard Power AP with Proxy |
| DUT Vendor Name   | Cisco                        |
| DUT Product Model | CW9172H                      |

### Test Result

---

| FCC Requirements | TestCaseName                                                                                                  | Test Result |
|------------------|---------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_DifferentRootCA\_10633\_1 (Unsuccessful server validation)  
TestResult:PASS  
Band:6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_MatchSuffixSAN\_10634\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                   |                              |
|-------------------|------------------------------|
| AFC DUT System    | Standard Power AP with Proxy |
| DUT Vendor Name   | Cisco                        |
| DUT Product Model | CW9172H                      |

### Test Result

---

| FCC Requirements | TestCaseName                                                                                                 | Test Result |
|------------------|--------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_MatchSuffixSAN\_10634\_1 (Unsuccessful server validation)

TestResult:PASS

Band:6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_ServerCertRevoked\_10635\_1**

## AFC DUT Compliance Test Report

### DUT Information

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

| FCC Requirements | TestCaseName                                                                                                    | Test Result |
|------------------|-----------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)</a> | PASS        |

### Test Measurements

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_ServerCertRevoked\_10635\_1 (Unsuccessful server validation)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |





Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_OCSPStaplingDisabled\_10636\_1**

### AFC DUT Compliance Test Report

#### DUT Information

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

#### Test Result

| FCC Requirements | TestCaseName                                                                                                       | Test Result |
|------------------|--------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)</a> | PASS        |

#### Test Measurements

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_OCSPStaplingDisabled\_10636\_1  
(Unsuccessful server validation)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_StapledOCSPRespExpired\_10637\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| FCC Requirements | TestCaseName                                                                                                         | Test Result |
|------------------|----------------------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)</a> | PASS        |

### Test Measurements

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_StapledOCSPRespExpired\_10637\_1

**(Unsuccessful server validation)**

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |



Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_TLSCipherSuiteENULL\_10638\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| <b>FCC Requirements</b> | <b>TestCaseName</b>                                                                                               | <b>Test Result</b> |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|
| 15.407(k)(8)(v)         | <a href="#">CT AFC ServerValidation AP AFCDUSV35 TLSCipherSuiteENULL 10638 1 (Unsuccessful server validation)</a> | PASS               |

### Test Measurements

---

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_TLSCipherSuiteENULL\_10638\_1

**(Unsuccessful server validation)**

**TestResult:**PASS

**Band:**6GHz

| <b>Measurements Name</b>             | <b>Description</b>                                  | <b>Value</b> | <b>Validation Result</b> |
|--------------------------------------|-----------------------------------------------------|--------------|--------------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false        | PASS                     |

Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_NoRootCA\_10639\_1**

## AFC DUT Compliance Test Report

### DUT Information

---

|                          |                              |
|--------------------------|------------------------------|
| <b>AFC DUT System</b>    | Standard Power AP with Proxy |
| <b>DUT Vendor Name</b>   | Cisco                        |
| <b>DUT Product Model</b> | CW9172H                      |

### Test Result

---

| FCC Requirements | TestCaseName                                                                                           | Test Result |
|------------------|--------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(v)  | <a href="#">CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)</a> | PASS        |

### Test Measurements

---

**TestCaseName:** CT\_AFC\_ServerValidation\_AP\_AFCDUSV35\_NoRootCA\_10639\_1 (Unsuccessful server validation)

**TestResult:**PASS

**Band:**6GHz

| Measurements Name                    | Description                                         | Value | Validation Result |
|--------------------------------------|-----------------------------------------------------|-------|-------------------|
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request | false | PASS              |

## Wi-Fi Alliance Test Harness AFC Logs

**CT\_AFC\_SP\_AP\_AFCDRSA31\_Channel\_20MHz\_10618\_1**

##### 2025-03-19T19:57:37Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1231",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436865",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 8,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
```

```

        "globalOperatingClass": 131
      },
      {
        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnable": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
]

```

Radio Test Report No: **EDCS - 25644959**

---

```

    }
  }
]
}
}

```

##### 2025-03-19T19:57:37Z #####

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            33,
            37,
            41,
            45,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            27.7,
            21.6,
            30.3,
            26.5,
            23.3,
            28.4,
            30.6,
            26.0,
            21.4,
            31.5,
            34.8,
            22.8,
            27.9,
            34.0,

```

```

        26.7,
        34.9
    ]
},
{
    "channelCfi": [
        35,
        43,
        83,
        91,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        24.6,
        29.5,
        26.3,
        29.0,
        24.4,
        25.8,
        30.9,
        29.7
    ]
},
{
    "channelCfi": [
        39,
        87,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.6,
        29.3,
        27.4,
        32.7
    ]
},
{
    "channelCfi": [
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.4
    ]
}

```



Radio Test Report No: **EDCS - 25644959**

---

```

    ],
    "requestId": "13009185630886436865",
    "availabilityExpireTime": "2025-03-20T19:57:37Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
  }
],
"version": "1.4"
}

```

##### 2025-03-19T20:41:37Z #####

```

{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436866",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 18,
        "heightType": "AGL",
        "verticalUncertainty": 4
      }
    },
  },
}

```

```

    "indoorDeployment": 1
  },
  "inquiredChannels": [
    {
      "globalOperatingClass": 131
    },
    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9172H",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnable": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.17.01"
        }
      ]
    }
  ],
  "licenseInfo": {

```

Radio Test Report No: **EDCS - 25644959**

---

```

        "licensingType": "air-dna-advantage",
        "count": 0,
        "lastRunAckReceived": "<none>",
        "countAPsRequiringAFC": 1
    }
}
]
}
}

```

##### 2025-03-19T20:41:37Z #####

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            34.4,
            29.0,
            34.1,
            29.6,
            27.5,
            33.4,

```

```
        24.9,
        33.8,
        22.8,
        27.1,
        34.2,
        33.1,
        21.3,
        22.2,
        34.4,
        27.3,
        25.8,
        29.9,
        24.2,
        28.4
    ]
},
{
    "channelCfi": [
        3,
        11,
        19,
        27,
        51,
        59,
        67,
        75,
        163,
        171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        32.0,
        32.6,
        30.5,
        27.9,
        25.8,
        36.0,
        24.3,
        30.3,
        28.8,
        27.2
    ]
},
{
    "channelCfi": [
        7,
        23,
        55,
        71,
        167
    ],
},
```

Radio Test Report No: **EDCS - 25644959**

---

```
"globalOperatingClass": 133,
"maxEirp": [
  35.0,
  30.9,
  28.8,
  27.3,
  30.2
],
},
{
  "channelCfi": [
    15
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    33.9
  ]
}
],
"requestId": "13009185630886436866",
"availabilityExpireTime": "2025-03-20T20:41:37Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCRSA31\_Channel\_40MHz\_10619\_1**

##### 2025-03-19T21:31:25Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436867",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 28,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ],
  },
}
```

```

    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9172H",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.17.01"
        }
      ]
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}

```

Radio Test Report No: **EDCS - 25644959**

---

```
    }
  ]
}

##### 2025-03-19T21:31:25Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            49,
            53,
            57,
            61,
            81,
            85,
            89,
            93,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            25.2,
            23.6,
            26.2,
            27.2,
            24.6,
            34.9,
            33.5,
            26.4,
            30.8,
            23.4,
            34.7,
            30.0,
            33.4,
            27.0,
            25.9,
            31.7
          ]
        }
      ]
    }
  ]
}
```



```

    ]
  },
  {
    "channelCfi": [
      3,
      11,
      51,
      59,
      83,
      91,
      163,
      171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
      26.6,
      29.2,
      27.6,
      29.4,
      26.4,
      33.0,
      30.0,
      28.9
    ]
  },
  {
    "channelCfi": [
      7,
      55,
      87,
      167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
      29.6,
      30.6,
      29.4,
      31.9
    ]
  },
  {
    "channelCfi": [],
    "globalOperatingClass": 134,
    "maxEirp": []
  }
],
"requestId": "13009185630886436867",
"availabilityExpireTime": "2025-03-20T21:31:25Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],

```

```

    "version": "1.4"
  }

##### 2025-03-19T21:46:25Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*//*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1232",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436868",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      },
      {
        "location": {
          "ellipse": {
            "center": {
              "longitude": -121.949477,
              "latitude": 37.0409208
            },
            "majorAxis": 25,
            "minorAxis": 25,
            "orientation": 0.0
          },
          "elevation": {
            "height": 8,
            "heightType": "AGL",
            "verticalUncertainty": 4
          },
          "indoorDeployment": 1
        },
        "inquiredChannels": [
          {
            "globalOperatingClass": 131
          }
        ]
      }
    ]
  }
}

```

```

    {
      "globalOperatingClass": 132
    },
    {
      "globalOperatingClass": 133
    },
    {
      "globalOperatingClass": 134
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "vendorExtensions": [
    {
      "extensionId": "APInfo",
      "parameters": {
        "version": "v1",
        "PID": "CW9172H",
        "countryCode": "US ",
        "VID": "01"
      }
    }
  ]
},
"vendorExtensions": [
  {
    "extensionId": "XEControllerInfo",
    "parameters": {
      "version": "v1",
      "extendedDebugEnabled": "False",
      "chassisInfo": [
        {
          "role": "active",
          "PID": "C9800-40-K9",
          "SN": "TTM230905BL",
          "WLC-Version": "17.17.01"
        }
      ]
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}

```

Radio Test Report No: **EDCS - 25644959**

---

```

    }
  ]
}

##### 2025-03-19T21:46:25Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            65,
            69,
            73,
            77,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            35.0,
            30.9,
            26.5,
            32.1,
            21.1,
            32.4,
            22.4,
            32.4,
            31.8,
            24.4,
            32.8,
            30.0,

```

```
        24.4,
        22.6,
        25.3,
        23.2,
        23.2,
        21.3,
        30.0,
        21.8
    ]
},
{
    "channelCfi": [
        19,
        27,
        35,
        43,
        67,
        75,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        33.9,
        29.5,
        24.1,
        25.4,
        27.4,
        33.0,
        25.6,
        26.2,
        24.3,
        24.8
    ]
},
{
    "channelCfi": [
        23,
        39,
        71,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        32.5,
        27.1,
        30.4,
        28.6,
```

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---

```
        27.3
      ]
    },
    {
      "channelCfi": [
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.3
      ]
    }
  ],
  "requestId": "13009185630886436868",
  "availabilityExpireTime": "2025-03-20T21:46:25Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**CT\_AFC\_SP\_AP\_AFCRSA31\_Channel\_80MHz\_10620\_1**

##### 2025-03-20T23:42:16Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436890",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 27,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      },
      {
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 0,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    ]
  }
}

```



```

    ]
  }
}

##### 2025-03-20T23:42:16Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCf": [
            1,
            5,
            9,
            13,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            26.9,
            28.6,
            21.9,
            33.9,
            24.4,
            27.3,
            31.9,
            23.6,
            34.4,
            22.2,
            31.4,
            27.2,
            34.3,
            30.9,
            33.4,
            32.7
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "channelCfi": [
        3,
        11,
        83,
        91,
        131,
        139,
        163,
        171
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        29.9,
        24.9,
        27.4,
        26.6,
        25.2,
        30.2,
        33.9,
        35.7
      ]
    },
    {
      "channelCfi": [
        7,
        87,
        135,
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        27.9,
        29.6,
        28.2,
        36.0
      ]
    },
    {
      "channelCfi": [],
      "globalOperatingClass": 134,
      "maxEirp": []
    }
  ],
  "requestId": "13009185630886436890",
  "availabilityExpireTime": "2025-03-21T23:42:16Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"

```

```

}

##### 2025-03-20T23:56:31Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436891",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}

```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

```

    ]
  }
}

##### 2025-03-20T23:56:31Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCf": [
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            24.9,
            26.8,
            28.3,
            31.3,
            22.0,
            23.4,
            23.4,
            30.6,
            23.5,
            34.6,
            29.5,
            26.2,
            29.3,

```

```

    22.9,
    23.2,
    21.5,
    22.8,
    27.7,
    22.6,
    31.5
  ]
},
{
  "channelCfi": [
    19,
    27,
    35,
    43,
    51,
    59,
    67,
    75,
    147,
    155
  ],
  "globalOperatingClass": 132,
  "maxEirp": [
    27.9,
    31.3,
    25.0,
    26.4,
    26.5,
    29.2,
    25.9,
    24.5,
    25.8,
    25.6
  ]
},
{
  "channelCfi": [
    23,
    39,
    55,
    71,
    151
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    30.9,
    28.0,
    29.5,
    27.5,
    28.6
  ]
}

```

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---

```
    ]
  },
  {
    "channelCfi": [
      47
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
      31.0
    ]
  }
],
"requestId": "13009185630886436891",
"availabilityExpireTime": "2025-03-21T23:56:31Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**CT\_AFC\_SP\_AP\_AFCRSA31\_Channel\_160MHz\_10621\_1**

##### 2025-03-20T22:58:34Z #####

```

{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1231",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436888",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 7,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}

```



```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

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---

```

    ]
  }
}

##### 2025-03-20T22:58:34Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            28.5,
            21.0,
            31.1,
            21.9,
            27.6,
            24.5,
            32.2,
            28.0,
            28.5,
            23.8,
            22.7,
            31.6,
            30.7,
            23.5,
            30.6,
            29.1
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "channelCfi": [
        3,
        11,
        19,
        27,
        35,
        43,
        51,
        59
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        24.0,
        24.9,
        27.5,
        31.0,
        26.8,
        25.7,
        26.5,
        32.1
      ]
    },
    {
      "channelCfi": [
        7,
        23,
        39,
        55
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        27.0,
        30.5,
        28.7,
        29.5
      ]
    },
    {
      "channelCfi": [
        15,
        47
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.0,
        31.7
      ]
    },
    {

```

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---

```

        "channelCfi": [
            31
        ],
        "globalOperatingClass": 137,
        "maxEirp": [
            33.1
        ]
    },
    ],
    "requestId": "13009185630886436888",
    "availabilityExpireTime": "2025-03-21T22:58:34Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

```

##### 2025-03-20T23:10:29Z #####

```

{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*//*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "10.90.90.2",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1233",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "13009185630886436889",
                "deviceDescriptor": {
                    "serialNumber": "STW290602FG",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "UDX-600215010"
                        }
                    ]
                }
            }
        ],
        "location": {
            "ellipse": {
                "center": {
                    "longitude": -121.949477,
                    "latitude": 37.0409208
                },
                "majorAxis": 25,

```

```

        "minorAxis": 25,
        "orientation": 0.0
    },
    "elevation": {
        "height": 17,
        "heightType": "AGL",
        "verticalUncertainty": 4
    },
    "indoorDeployment": 1
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131
    },
    {
        "globalOperatingClass": 132
    },
    {
        "globalOperatingClass": 133
    },
    {
        "globalOperatingClass": 134
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"vendorExtensions": [
    {
        "extensionId": "APInfo",
        "parameters": {
            "version": "v1",
            "PID": "CW9172H",
            "countryCode": "US ",
            "VID": "01"
        }
    }
]
},
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnabled": "False",
            "chassisInfo": [

```

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---

```

    {
      "role": "active",
      "PID": "C9800-40-K9",
      "SN": "TTM230905BL",
      "WLC-Version": "17.17.01"
    }
  ],
  "licenseInfo": {
    "licensingType": "air-dna-advantage",
    "count": 0,
    "lastRumAckReceived": "<none>",
    "countAPsRequiringAFC": 1
  }
}
}
]
}
}

```

##### 2025-03-20T23:10:29Z #####

```

{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            24.2,
            21.3,

```

```
        30.3,
        27.8,
        30.1,
        23.1,
        22.5,
        22.2,
        25.1,
        32.8,
        34.5,
        27.6,
        28.2,
        25.2,
        25.6,
        31.6
    ]
},
{
    "channelCfi": [
        67,
        75,
        83,
        91,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        24.3,
        30.8,
        26.1,
        25.2,
        28.1,
        30.6,
        28.2,
        28.6
    ]
},
{
    "channelCfi": [
        71,
        87,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.3,
        28.2,
        31.1,
```

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---

```
        31.2
      ]
    },
    {
      "channelCfi": [
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.3,
        34.1
      ]
    }
  ],
  "requestId": "13009185630886436889",
  "availabilityExpireTime": "2025-03-21T23:10:29Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```



**CT\_AFC\_SP\_AP\_AFCDUSA32\_Channel\_10622\_1**

##### 2025-03-21T00:19:44Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1232",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436892",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 3,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      },
      {
        "licenseInfo": {
          "licensingType": "air-dna-advantage",
          "count": 0,
          "lastRumAckReceived": "<none>",
          "countAPsRequiringAFC": 1
        }
      }
    ]
  }
}

```

Radio Test Report No: **EDCS - 25644959**

---

```
]
}
}

##### 2025-03-21T00:19:44Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [],
      "requestId": "13009185630886436892",
      "availabilityExpireTime": "2025-03-22T00:19:44Z",
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```

Radio Test Report No: **EDCS - 25644959**

---

**CT\_AFC\_SP\_AP\_AFCDSAU33\_Channel\_10623\_1**

##### 2025-03-21T00:29:24Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1233",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436893",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.949477,
          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 13,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}
```

```

        "globalOperatingClass": 132
      },
      {
        "globalOperatingClass": 133
      },
      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APIInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US ",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

Radio Test Report No: **EDCS - 25644959**

---

```

    ]
  }
}

##### 2025-03-21T00:29:24Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCf": [
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173
          ],
          "globalOperatingClass": 131,
          "maxEirp": [
            23.2,
            24.6,
            29.8,
            25.2,
            22.0,
            33.4,
            33.5,
            26.0,
            27.6,
            32.8,
            33.6,
            26.1,
            22.5,
            33.5,
            22.1,
            23.1
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "channelCfi": [
        51,
        59,
        67,
        75,
        147,
        155,
        163,
        171
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        26.2,
        28.2,
        25.0,
        29.0,
        30.6,
        29.1,
        25.5,
        25.1
      ]
    },
    {
      "channelCfi": [
        55,
        71,
        151,
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        29.2,
        28.0,
        32.1,
        28.1
      ]
    },
    {
      "channelCfi": [],
      "globalOperatingClass": 134,
      "maxEirp": []
    }
  ],
  "requestId": "13009185630886436893",
  "availabilityExpireTime": "2025-03-22T00:29:24Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"

```

Radio Test Report No: **EDCS - 25644959**

---

}



**CT\_AFC\_SP\_AP\_AFCDUAU34\_Channel\_10624\_1**

##### 2025-03-21T01:10:32Z #####

```

{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.90.90.2",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1232",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "13009185630886436894",
        "deviceDescriptor": {
          "serialNumber": "STW290602FG",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "UDX-600215010"
            }
          ]
        }
      }
    ],
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        "center": {
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          "latitude": 37.0409208
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
      },
      "elevation": {
        "height": 23,
        "heightType": "AGL",
        "verticalUncertainty": 4
      },
      "indoorDeployment": 1
    },
    "inquiredChannels": [
      {
        "globalOperatingClass": 131
      }
    ]
  }
}

```

```

        "globalOperatingClass": 132
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        "globalOperatingClass": 133
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      {
        "globalOperatingClass": 134
      },
      {
        "globalOperatingClass": 137,
        "channelCfi": [
          31,
          63
        ]
      }
    ],
    "vendorExtensions": [
      {
        "extensionId": "APInfo",
        "parameters": {
          "version": "v1",
          "PID": "CW9172H",
          "countryCode": "US",
          "VID": "01"
        }
      }
    ]
  },
  {
    "vendorExtensions": [
      {
        "extensionId": "XEControllerInfo",
        "parameters": {
          "version": "v1",
          "extendedDebugEnabled": "False",
          "chassisInfo": [
            {
              "role": "active",
              "PID": "C9800-40-K9",
              "SN": "TTM230905BL",
              "WLC-Version": "17.17.01"
            }
          ]
        }
      }
    ],
    "licenseInfo": {
      "licensingType": "air-dna-advantage",
      "count": 0,
      "lastRumAckReceived": "<none>",
      "countAPsRequiringAFC": 1
    }
  }
}

```

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---

```
    ]
  }
}

##### 2025-03-21T01:10:32Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
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            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
          ]
        }
      ]
    }
  ]
}
```





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---

```

    39,
    55,
    71,
    87,
    135,
    151,
    167
  ],
  "globalOperatingClass": 133,
  "maxEirp": [
    36.0,
    36.0,
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    36.0,
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    36.0,
    36.0,
    36.0,
    36.0
  ]
},
{
  "channelCfi": [
    15,
    47,
    79,
    143
  ],
  "globalOperatingClass": 134,
  "maxEirp": [
    36.0,
    36.0,
    36.0,
    36.0
  ]
}
],
"requestId": "13009185630886436894",
"availabilityExpireTime": "2025-03-22T01:10:32Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

```

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## CT AFC ServerValidation AP AFCDUSV35 MatchSuffixSAN 10634 1

```
[{"timeStamp": "2025-03-21T23_22_31Z", "logMessage": "Started execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 : 10634", "logCategory": "7"}, {"timeStamp": "2025-03-21T23_22_31Z", "logMessage": "Step 1: Resetting the AFC DUT to its Initial Pre-test State", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_22_34Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_22_38Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_22_38Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_22_42Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_22_42Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_23_16Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_23_16Z", "logMessage": "Step 2 : AFC Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_23_16Z", "logMessage": "Execution paused for 10 seconds", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_23_26Z", "logMessage": "current test status : {\n  \"currentTestVector\": {},\n  \"receivedRequestHeaders\": {},\n  \"receivedRequest\": {},\n  \"sentResponse\": {},\n  \"valid_request\": false\n}", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_23_26Z", "logMessage": "CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 :\n\nName | Value | Description\n_____|_____|\n\nAFC_DUT_SEND_SPECTRUM_INQUIRYREQ_UEST | False | AFC DUT sends an Available Spectrum Inquiry Request", "logCategory": "9"}, {"timeStamp": "2025-03-21T23_23_26Z", "logMessage": "Completed execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1", "logCategory": "8"}]
```

```
[{"app_state":0,"testGroupValidationList":[],"certificationValidationList":[],"current_test_progress":60,"pass_count":0,"total_test_count":1,"current_test_case":"CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1","complete_count":0,"total_repeat_count":0,"test_case_info":{"script_reference":"CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1.py","test_case_id":10634,"testValidationResult":"","test_group_id":5,"end_time":0,"script_sha1":"3f952417341d7d8c90b0a0e99e6b052a95a39cfc","log_time":0,"test_case_name":"CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1","start_time":1742599351,"capabilities_id":15,"test_hash":false,"end_of_script_execution":false,"measurements":{"_6GHz":{"name":"AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST","description":"AFC DUT sends an Available Spectrum Inquiry Request","value":{"false":{}}},"certifications_id":2}},"capabilitiesValidationList":[],"incomplete_count":0,"validator_error_count":0,"current_repeat_count":0,"validatorState":0,"current_execution_count":1,"current_test_id":10634,"fail_count":0,"not_tested_count":0,"finalValidationResult":""}]
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## CT AFC ServerValidation AP AFCDUSV35 StapledOCSPRespExpired 10637 1

```
[{"timeStamp": "2025-03-21T23_31_48Z", "logMessage": "Started execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 : 10637", "logCategory": "7"}, {"timeStamp": "2025-03-21T23_31_48Z", "logMessage": "Step 1: Resetting the AFC DUT to its Initial Pre-test State", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_31_58Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_32_06Z", "logMessage": "current test case log directory : Vusr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_32_06Z", "logMessage": "current test case log directory : Vusr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_32_39Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_32_39Z", "logMessage": "current test case log directory : Vusr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_33_10Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_33_10Z", "logMessage": "Step 2 : AFC Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_33_10Z", "logMessage": "Execution paused for 10 seconds", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_33_20Z", "logMessage": "current test status : {\\n  \\\"currentTestVector\\\": {},\\n  \\\"receivedRequestHeaders\\\": {},\\n  \\\"receivedRequest\\\": {},\\n  \\\"sentResponse\\\": {},\\n  \\\"valid_request\\\": false\\n}", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_33_20Z", "logMessage": "CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 : \\n\\nName | Value | Description\\n_____|_____|_____|\\n\\nAFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | False | AFC DUT sends an Available Spectrum Inquiry Request", "logCategory": "9"}, {"timeStamp": "2025-03-21T23_33_20Z", "logMessage": "Completed execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1", "logCategory": "8"}]
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```
[{"app_state":0,"testGroupValidationList":[],"certificationValidationList":[],"current_test_progress":60,"pass_count":0,"total_test_count":1,"current_test_case":"CT_AFC_ServerValidation_AP_AFCDUSV35_StepledOCSPRespExpired_10637_1","complete_count":0,"total_repeat_count":0,"test_case_info":{"script_reference":"CT_AFC_ServerValidation_AP_AFCDUSV35_StepledOCSPRespExpired_10637_1.py","test_case_id":10637,"testValidationResult":"","test_group_id":5,"end_time":0,"script_sha1":"44e7a9b981a90bdf5fac073e211f63a8ad52c66","log_time":0,"test_case_name":"CT_AFC_ServerValidation_AP_AFCDUSV35_StepledOCSPRespExpired_10637_1","start_time":1742599908,"capabilities_id":15,"test_hash":false,"end_of_script_execution":false,"measurements":{"1_6GHz":{"name":"AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST","description":"AFC DUT sends an Available Spectrum Inquiry Request","value":false}}},"certifications_id":2}],{"capabilitiesValidationList":[],"incomplete_count":0,"validator_error_count":0,"current_repeat_count":0,"validatorState":0,"current_execution_count":1,"current_test_id":10637,"fail_count":0,"not_tested_count":0,"finalValidationResult":""}]
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## CT AFC ServerValidation AP AFCDUSV35 TLSCipherSuiteENULL 10638 1

```
[{"timeStamp":"2025-03-21T23_34_32Z","logMessage":"Started execution of test case
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{"timeStamp":"2025-03-21T23_34_32Z","logMessage":"Step 1: Resetting the AFC DUT to its Initial Pre-test
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selected : Ok, input test ","logCategory":"5"}, {"timeStamp":"2025-03-21T23_34_43Z","logMessage":"current test
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Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1\\","logCat
egory":"5"}, {"timeStamp":"2025-03-21T23_34_43Z","logMessage":"current test case log directory :
\\usr\\local\\bin\\WFA-QuickTrack-
Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1\\","logCat
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test ","logCategory":"5"}, {"timeStamp":"2025-03-21T23_34_53Z","logMessage":"current test case log directory :
\\usr\\local\\bin\\WFA-QuickTrack-
Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1\\","logCat
egory":"5"}, {"timeStamp":"2025-03-21T23_35_33Z","logMessage":"Popup response, button selected : Ok, input
test ","logCategory":"5"}, {"timeStamp":"2025-03-21T23_35_33Z","logMessage":"Step 2 : AFC Test Harness
waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it","logCategory":"2"},
{"timeStamp":"2025-03-21T23_35_33Z","logMessage":"Execution paused for 10 seconds","logCategory":"2"},
{"timeStamp":"2025-03-21T23_35_43Z","logMessage":"current test status : {\\n  \\currentTestVector\\": {},\\n
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false\\n"},"logCategory":"5"}, {"timeStamp":"2025-03-
21T23_35_43Z","logMessage":"CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1
:\\n\\nName | Value | Description
\\n_____ | _____ | _____
\\nAFC_DUT_SEND_SPECTRUM_INQUIRYREQ
UEST | False | AFC DUT sends an Available Spectrum Inquiry Request","logCategory":"9"}, {"timeStamp":"2025-
03-21T23_35_43Z","logMessage":"Completed execution of test case
:CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1","logCategory":"8"}]
```

```
[{"app_state":0,"testGroupValidationList":[],"certificationValidationList":[],"current_test_progress":60,"pass_count":0,"total_test_count":1,"current_test_case":"CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1","complete_count":0,"total_repeat_count":0,"test_case_info":{"script_reference":"CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1.py","test_case_id":10638,"testValidationResult":"","test_group_id":5,"end_time":0,"script_sha1":"3e16fb62283dbd58a3e9612611278aca1e512826","log_time":0,"test_case_name":"CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1","start_time":1742600072,"capabilities_id":15,"test_hash":false,"end_of_script_execution":false,"measurements":{"_6GHz":{"name":"AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST","description":"AFC DUT sends an Available Spectrum Inquiry Request","value":"false"}}},"certifications_id":2},"capabilitiesValidationList":[],"incomplete_count":0,"validator_error_count":0,"current_repeat_count":0,"validatorState":0,"current_execution_count":1,"current_test_id":10638,"fail_count":0,"not_tested_count":0,"finalValidationResult":""}]
```



## CT AFC ServerValidation AP AFCDUSV35 NoRootCA 10639 1

```
[{"timeStamp": "2025-03-21T23_36_25Z", "logMessage": "Started execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 : 10639", "logCategory": "7"}, {"timeStamp": "2025-03-21T23_36_25Z", "logMessage": "Step 1: Resetting the AFC DUT to its Initial Pre-test State", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_38_08Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_38_12Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_38_12Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_38_22Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_38_22Z", "logMessage": "current test case log directory : \\usr\\local\\bin\\WFA-QuickTrack-Tool\\log_temp_data\\CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1\\", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_39_39Z", "logMessage": "Popup response, button selected : Ok, input test ", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_39_39Z", "logMessage": "Step 2 : AFC Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_39_39Z", "logMessage": "Execution paused for 10 seconds", "logCategory": "2"}, {"timeStamp": "2025-03-21T23_39_49Z", "logMessage": "current test status : {\n  \"currentTestVector\": {},\n  \"receivedRequestHeaders\": {},\n  \"receivedRequest\": {},\n  \"sentResponse\": {},\n  \"valid_request\": false\n}", "logCategory": "5"}, {"timeStamp": "2025-03-21T23_39_49Z", "logMessage": "CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 : \n\nName | Value | Description\n\n_____|_____|\n\nAFC_DUT_SEND_SPECTRUM_INQUIRYREQ_UEST | False | AFC DUT sends an Available Spectrum Inquiry Request", "logCategory": "9"}, {"timeStamp": "2025-03-21T23_39_49Z", "logMessage": "Completed execution of test case :CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1", "logCategory": "8"}]
```

```
[{"app_state":0,"testGroupValidationList":[],"certificationValidationList":[],"current_test_progress":60,"pass_count":0,"total_test_count":1,"current_test_case":"CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1","complete_count":0,"total_repeat_count":0,"test_case_info":[{"script_reference":"CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1.py","test_case_id":10639,"testValidationResult":"","test_group_id":5,"end_time":0,"script_sha1":"","1a66d26948b562938a3e1d8562858c081b58d326","log_time":0,"test_case_name":"CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1","start_time":1742600185,"capabilities_id":15,"test_hash":false,"end_of_script_execution":false,"measurements":{"_6GHz":[{"name":"AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST","description":"AFC DUT sends an Available Spectrum Inquiry Request","value":"","false"}]},"certifications_id":2},"capabilitiesValidationList":[],"incomplete_count":0,"validator_error_count":0,"current_repeat_count":0,"validatorState":0,"current_execution_count":1,"current_test_id":10639,"fail_count":0,"not_tested_count":0,"finalValidationResult":""}]
```

## Appendix B: AFC Analyzer Screenshots

### B.1 Duty Cycle

#### Duty Cycle Test Requirement

From KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v03:

#### B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

1. All measurements are to be performed with the EUT transmitting at 100 percent duty cycle at its maximum power control level; however, if 100 percent duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.

#### Duty Cycle Test Method

From KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v03:

#### B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  EBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$ , where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

#### Duty Cycle Test Information

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Tested By:</b><br>Johanna Knudsen | <b>Date of testing:</b><br>03/19/2025 – 03/21/2025 |
| <b>Test Result:</b> N/A              |                                                    |

#### Test Equipment

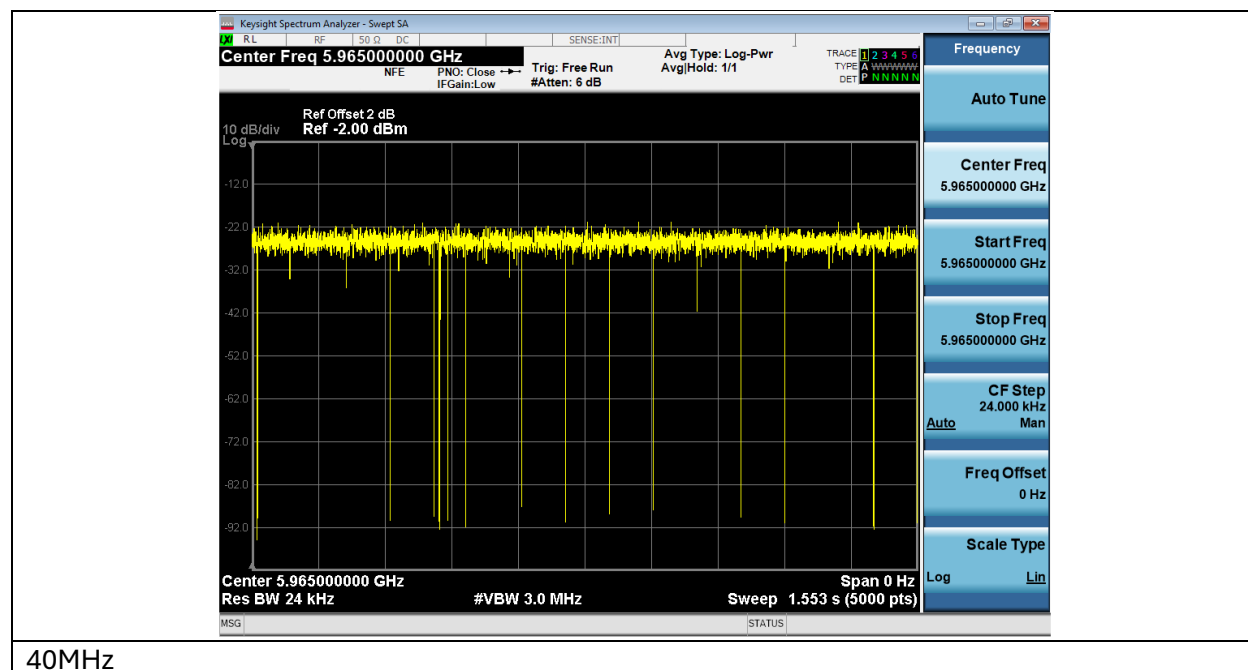
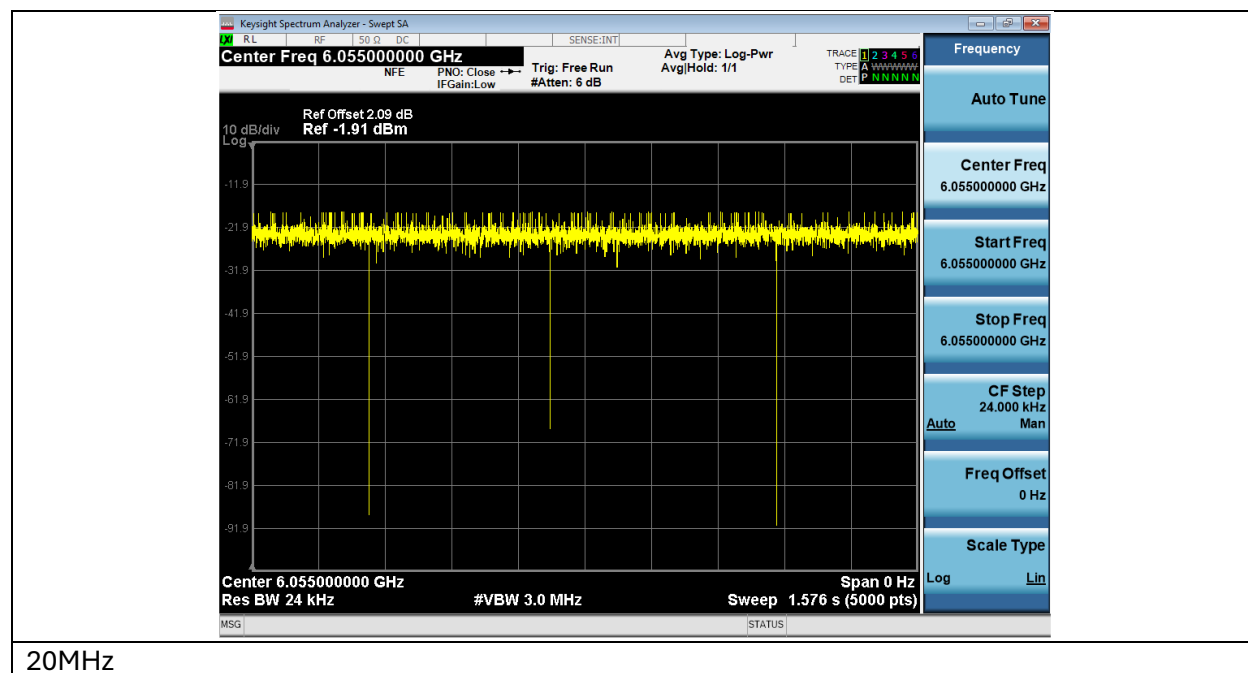
See Appendix C for list of test equipment.

#### Duty Cycle Data Table

| Mode   | Duty Cycle (%) |
|--------|----------------|
| 20MHz  | 99.94          |
| 40MHz  | 99.56          |
| 80MHz  | 99.68          |
| 160MHz | 97.90          |

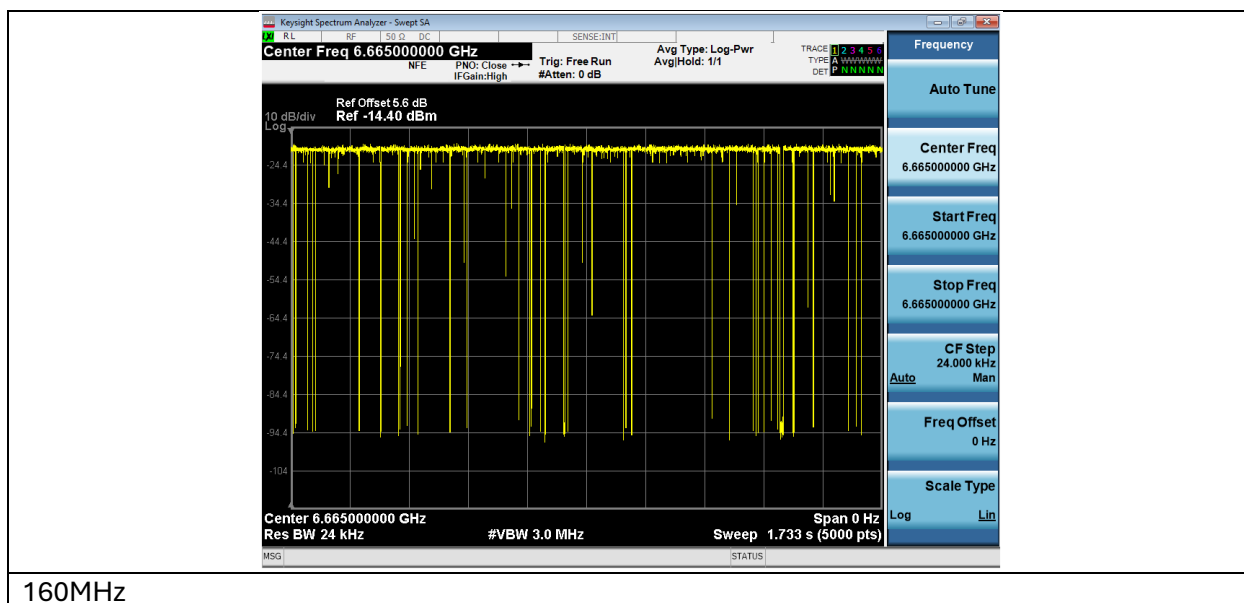
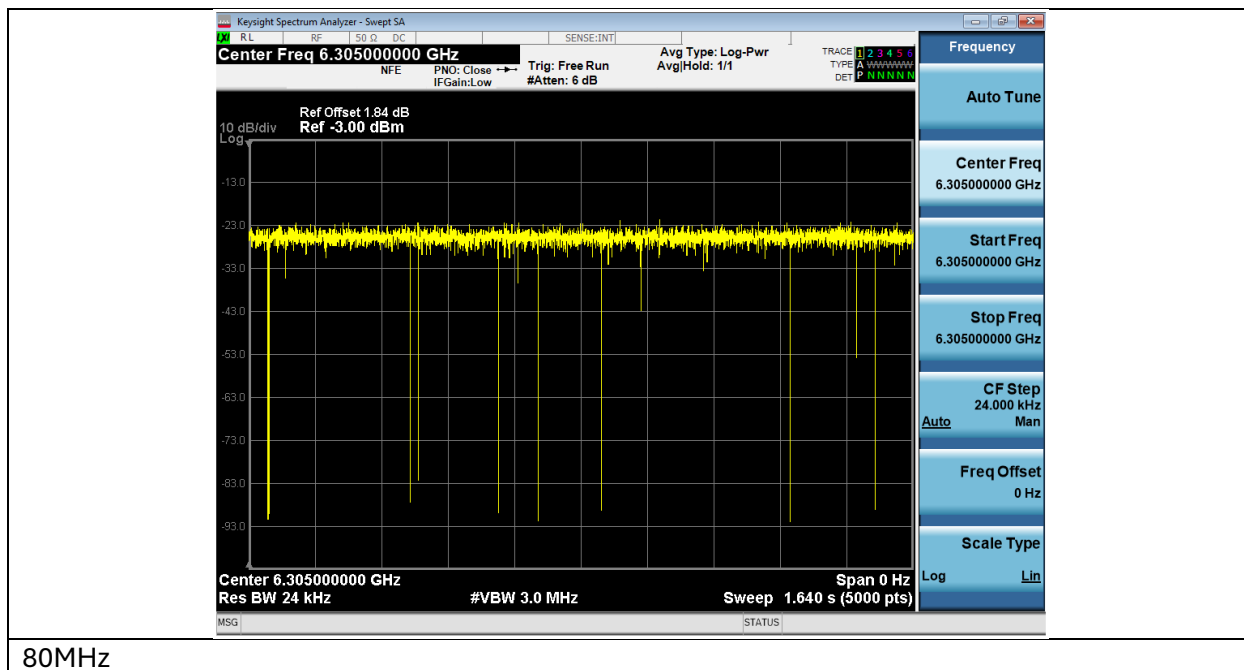
Radio Test Report No: **EDCS - 25644959**

## Duty Cycle with Traffic





Radio Test Report No: **EDCS - 25644959**



## B.2 Power

### Maximum Conducted Output Power Test Requirement

#### FCC 15.407(a):

(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(5) For an indoor access point operating in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(8) For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

(11) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

### Maximum Conducted Output Power Test Procedure

#### ANSI C63.10: 2013

#### Ref. KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v02r01

| Maximum Conducted Output Power Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Set the radio in the continuous transmitting mode</li> <li>2. Compute power by integrating the spectrum across the EBW (or alternatively entire 99% OBW) of the signal using the instrument's band power measurement function. The integration shall be performed using the spectrum analyzer band-power measurement function with band limits set equal to the EBW or the OBW band edges.</li> <li>3. Capture graphs and record pertinent measurement data.</li> </ol> |

#### Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

#### 2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2

| Maximum Conducted Output Power Test parameters |
|------------------------------------------------|
|------------------------------------------------|

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (i) Measure the duty cycle,  $x$ , of the transmitter output signal as described in section II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW  $\geq$  3 MHz.
- (v) Number of points in sweep  $\geq$  2 Span / RBW. (This ensures that bin-to-bin spacing is  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to “free run”.
- (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth)

The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Tested By:</b><br>Johanna Knudsen | <b>Date of testing:</b><br>03/19/2025 – 03/21/2025 |
| <b>Test Result: PASS</b>             |                                                    |

#### Test Equipment

See Appendix C for list of test equipment.



Radio Test Report No: **EDCS - 25644959**

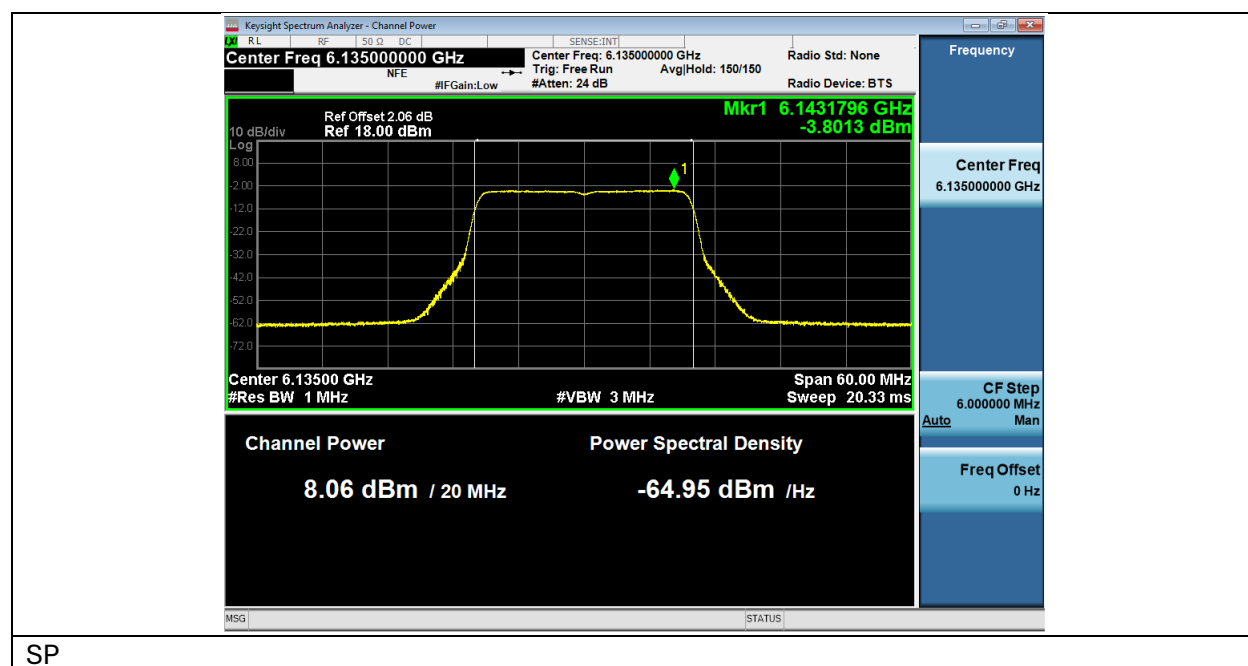
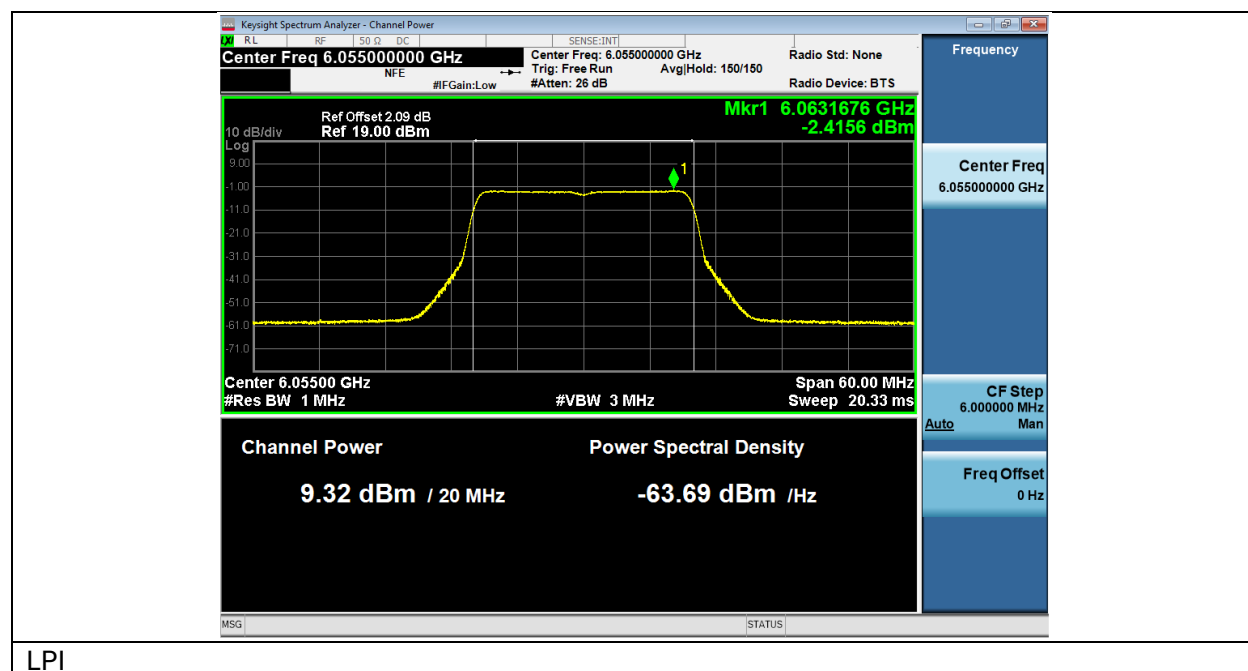
**AFC Results Table - Maximum Conducted Output Power & PSD**

| Test Case | Nominal BW (MHz) | Center Frequency (MHz) | LPI or SP | Antenna Gain | Power (dBm) | Power EIRP (dBm) | PSD (dBm/MHz) | PSD EIRP (dBm/MHz) | Ceiling Power Limit EIRP (dBm) | PSD Limit EIRP (dBm/MHz) | Margin Power EIRP (dBm) | Margin PSD EIRP (dBm/MHz) | Result |
|-----------|------------------|------------------------|-----------|--------------|-------------|------------------|---------------|--------------------|--------------------------------|--------------------------|-------------------------|---------------------------|--------|
| 10618_1   | 20               | 6055                   | LPI       | 5.04         | 9.32        | 14.36            | -2.42         | 2.62               | NA                             | 5                        | NA                      | 2.38                      | PASS   |
|           | 20               | 6135                   | SP        | 5.04         | 8.06        | 13.1             | -3.8          | 1.24               | 21.6                           | NA                       | 8.5                     | NA                        | PASS   |
|           | 20               | 6055                   | SP        | 5.04         | 10.04       | 15.08            | -1.86         | 3.18               | 33.4                           | NA                       | 18.3                    | NA                        | PASS   |
| 10619_1   | 40               | 6045                   | LPI       | 5.04         | 10.16       | 15.2             | -4.8          | 0.24               | NA                             | 5                        | NA                      | 4.76                      | PASS   |
|           | 40               | 5965                   | SP        | 5.04         | 13.01       | 18.05            | -1.56         | 3.48               | 26.6                           | NA                       | 8.55                    | NA                        | PASS   |
|           | 40               | 6605                   | SP        | 5.04         | 13.08       | 18.12            | -1.85         | 3.19               | 25.6                           | NA                       | 7.5                     | NA                        | PASS   |
| 10620_1   | 80               | 6305                   | LPI       | 5.04         | 13.68       | 18.72            | -4.26         | 0.78               | NA                             | 5                        | NA                      | 4.22                      | PASS   |
|           | 80               | 5985                   | SP        | 5.04         | 14.39       | 19.43            | -3.17         | 1.87               | 27.9                           | NA                       | 8.47                    | NA                        | PASS   |
|           | 80               | 6065                   | SP        | 5.04         | 10.29       | 15.33            | -7.23         | -2.19              | 30.9                           | NA                       | 15.6                    | NA                        | PASS   |
| 10621_1   | 160              | 6665                   | LPI       | 5.04         | 16.21       | 21.25            | -3.5          | 1.54               | NA                             | 5                        | NA                      | 3.46                      | PASS   |
|           | 160              | 6025                   | SP        | 5.04         | 15.06       | 20.1             | -4.98         | 0.06               | 30                             | NA                       | 9.9                     | NA                        | PASS   |
|           | 160              | 6345                   | SP        | 5.04         | 16.41       | 21.45            | -3.99         | 1.05               | 30.3                           | NA                       | 8.9                     | NA                        | PASS   |
| 10622_1   | 20               | 6055                   | LPI       | 5.04         | -10.02      | -4.98            | -21.81        | -16.77             | NA                             | 5                        | NA                      | 21.77                     | PASS   |
|           | 20               | 6055                   | LPI       | 5.04         | -6.96       | -1.92            | -18.79        | -13.75             | NA                             | 5                        | NA                      | 18.75                     | PASS   |
| 10623_1   | 20               | 6055                   | LPI       | 5.04         | -6.96       | -1.92            | -18.79        | -13.75             | NA                             | 5                        | NA                      | 18.75                     | PASS   |
|           | 20               | 6215                   | SP        | 5.04         | 1.76        | 6.8              | -10.11        | -5.07              | 24.6                           | NA                       | 17.8                    | NA                        | PASS   |
|           | 20               | 6215                   | LPI       | 5.04         | -0.73       | 4.31             | -12.63        | -7.59              | NA                             | 5                        | NA                      | 12.59                     | PASS   |
| 10624_1   | 20               | 6215                   | LPI       | 5.04         | 2.49        | 7.53             | -9.48         | -4.44              | NA                             | 5                        | NA                      | 9.44                      | PASS   |
|           | 20               | 5975                   | SP        | 5.04         | 8.31        | 13.35            | -3.53         | 1.51               | 36.0                           | NA                       | 22.7                    | NA                        | PASS   |
|           | 20               | 5975                   | LPI       | 5.04         | 4.16        | 9.2              | -7.52         | -2.48              | NA                             | 5                        | NA                      | 7.48                      | PASS   |

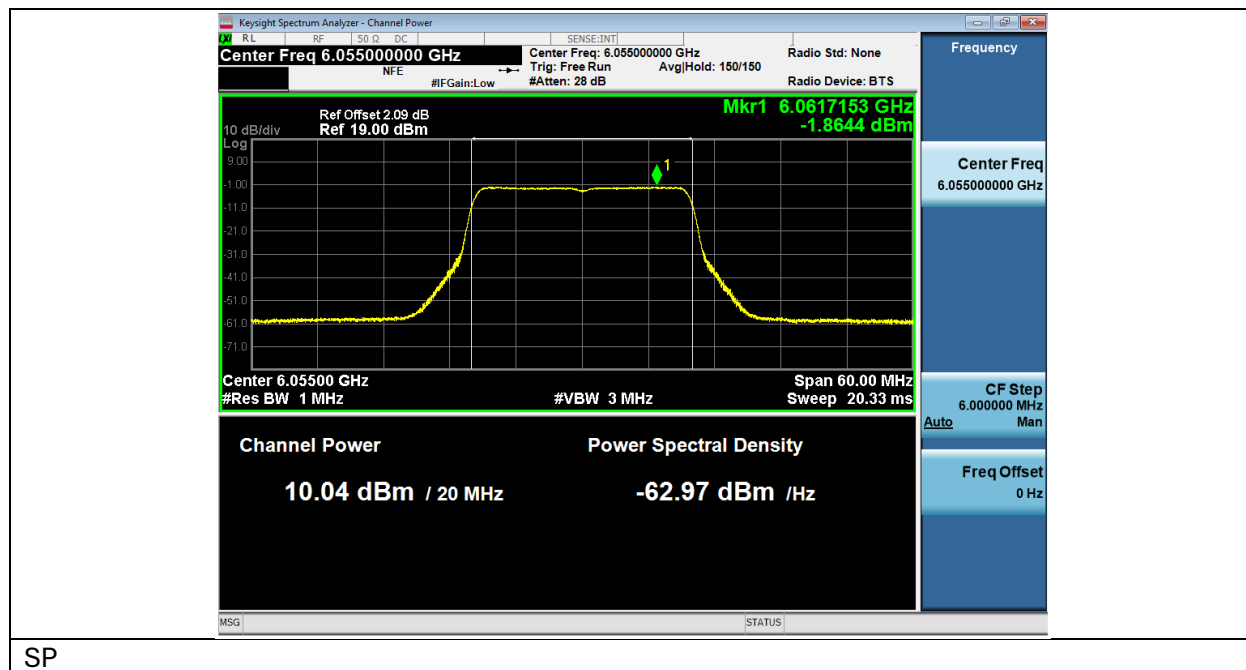
Radio Test Report No: **EDCS - 25644959**

## Maximum Conducted Output Power & PSD

Test Case 20MHz\_10618\_1

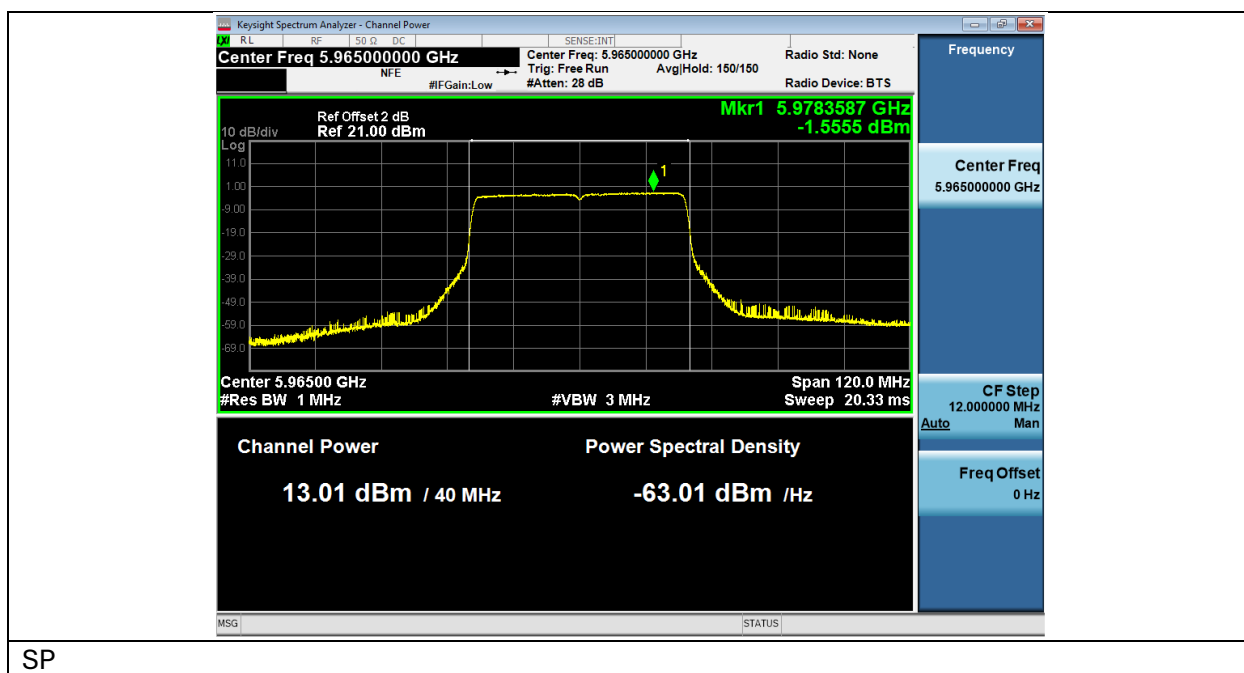
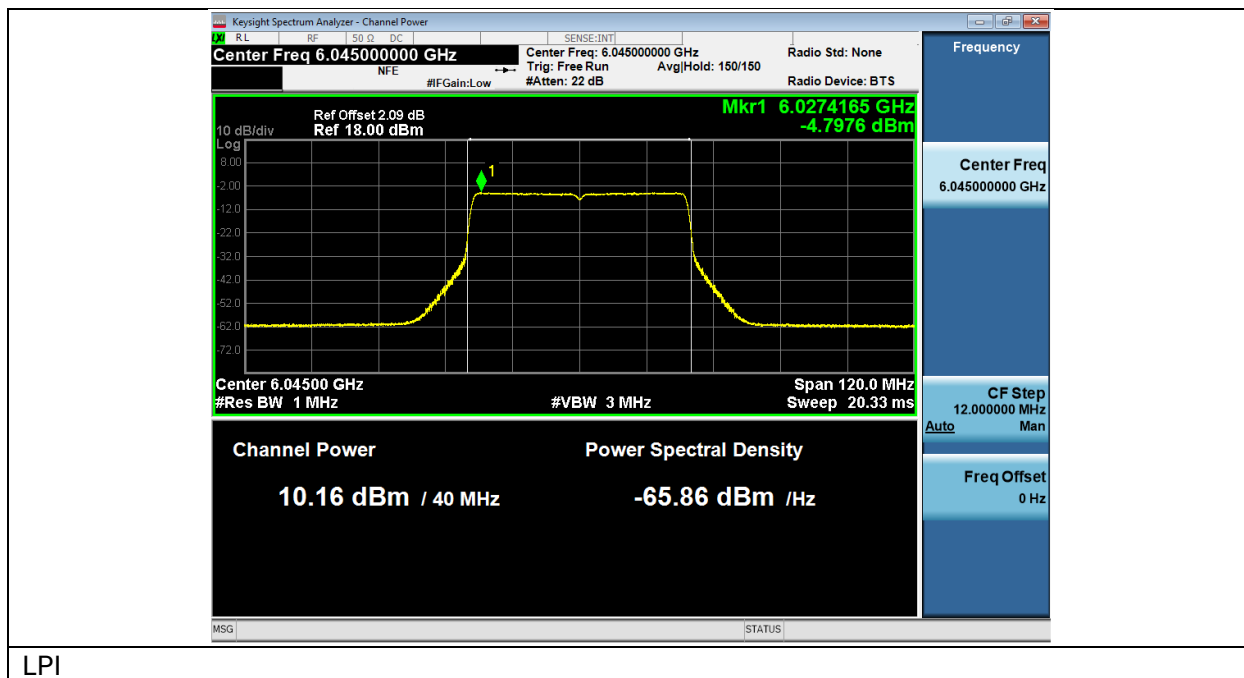


Radio Test Report No: **EDCS - 25644959**

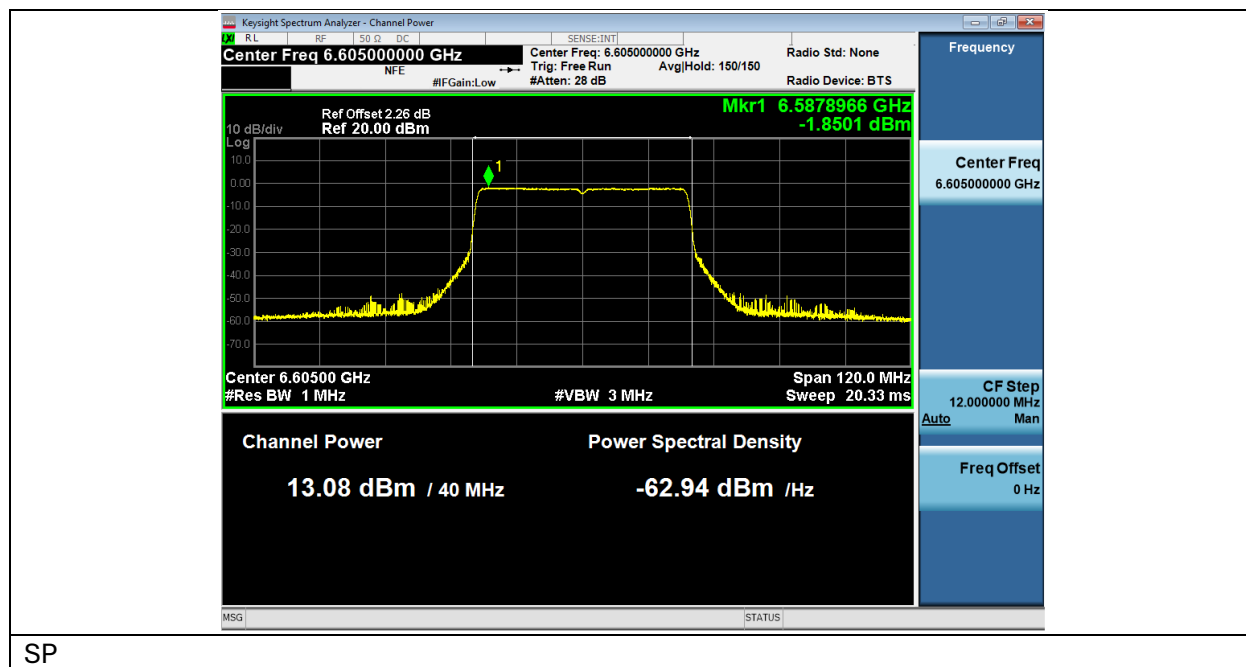


Radio Test Report No: **EDCS - 25644959**

Test Case 40MHz\_10619\_1



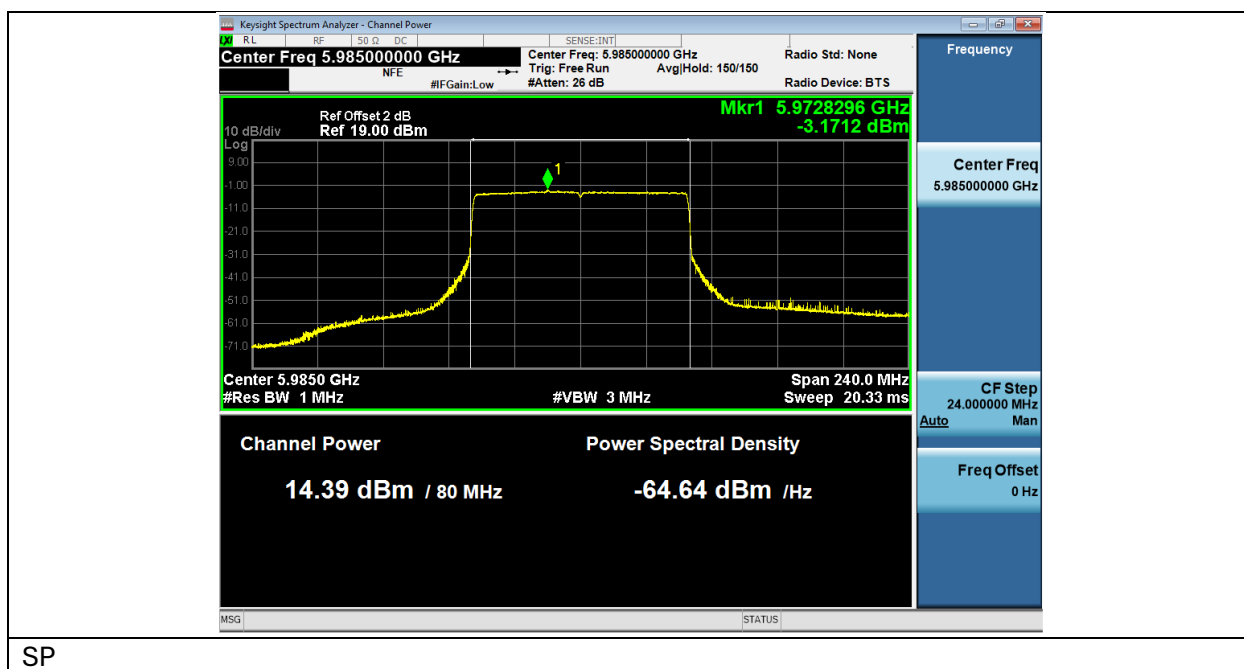
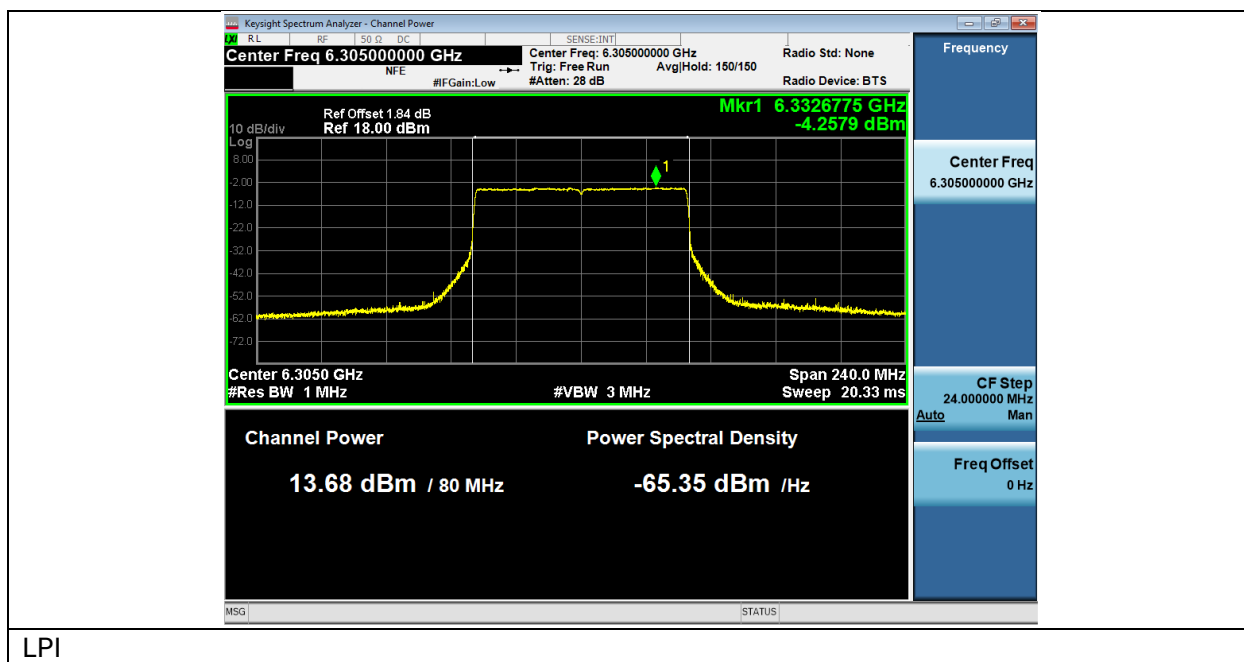
Radio Test Report No: **EDCS - 25644959**



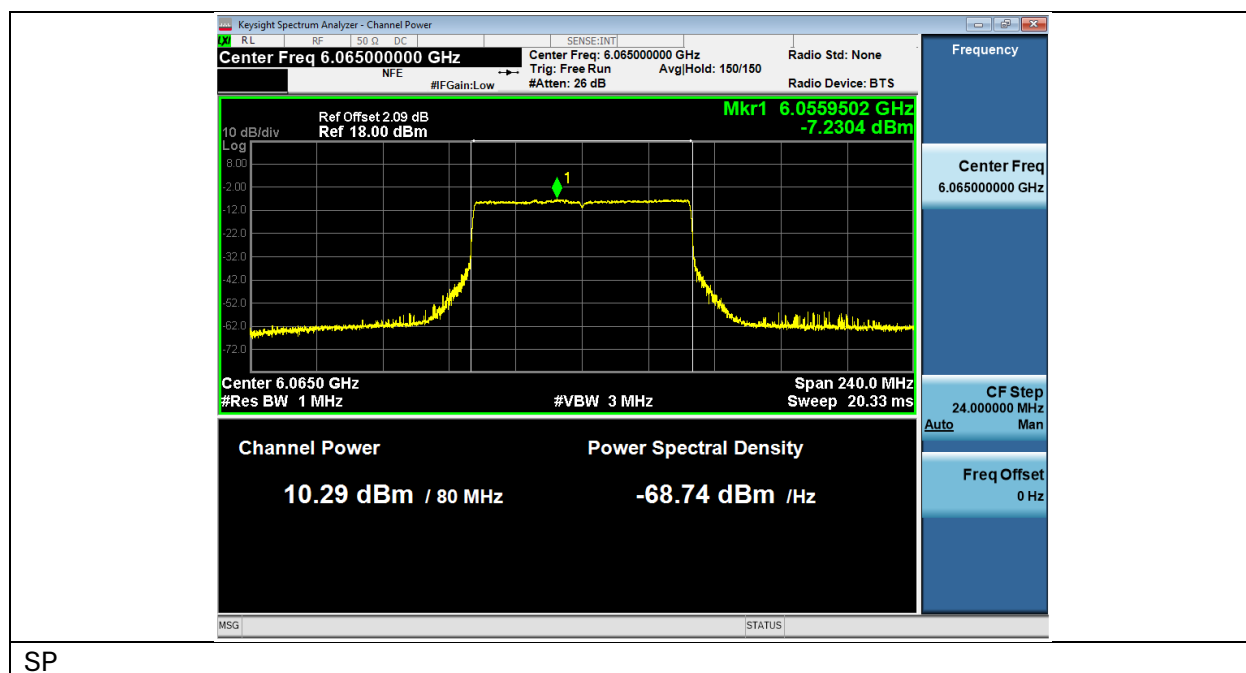


Radio Test Report No: **EDCS - 25644959**

Test Case 80MHz\_10620\_1

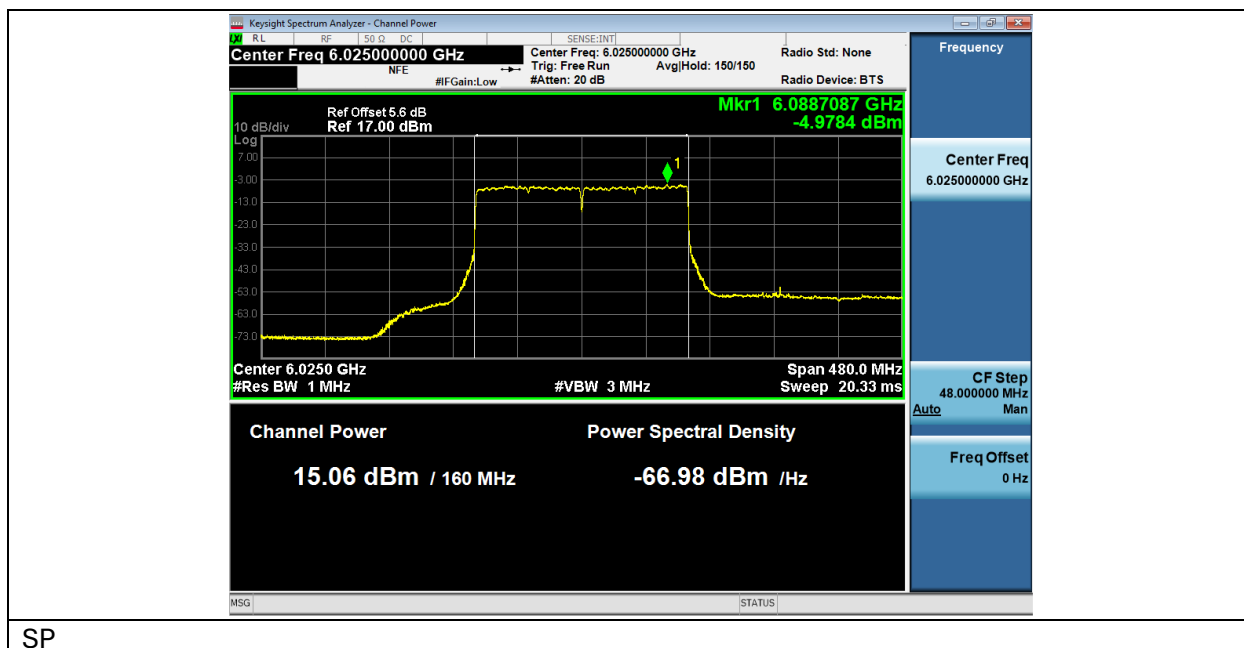
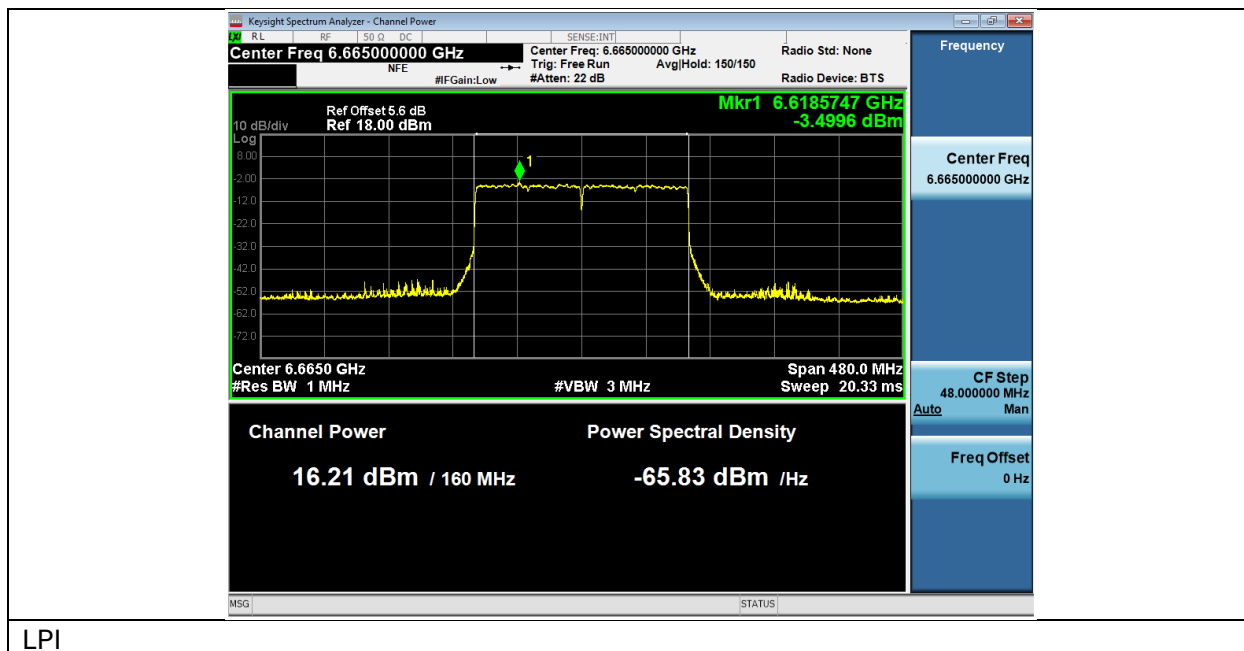


Radio Test Report No: **EDCS - 25644959**

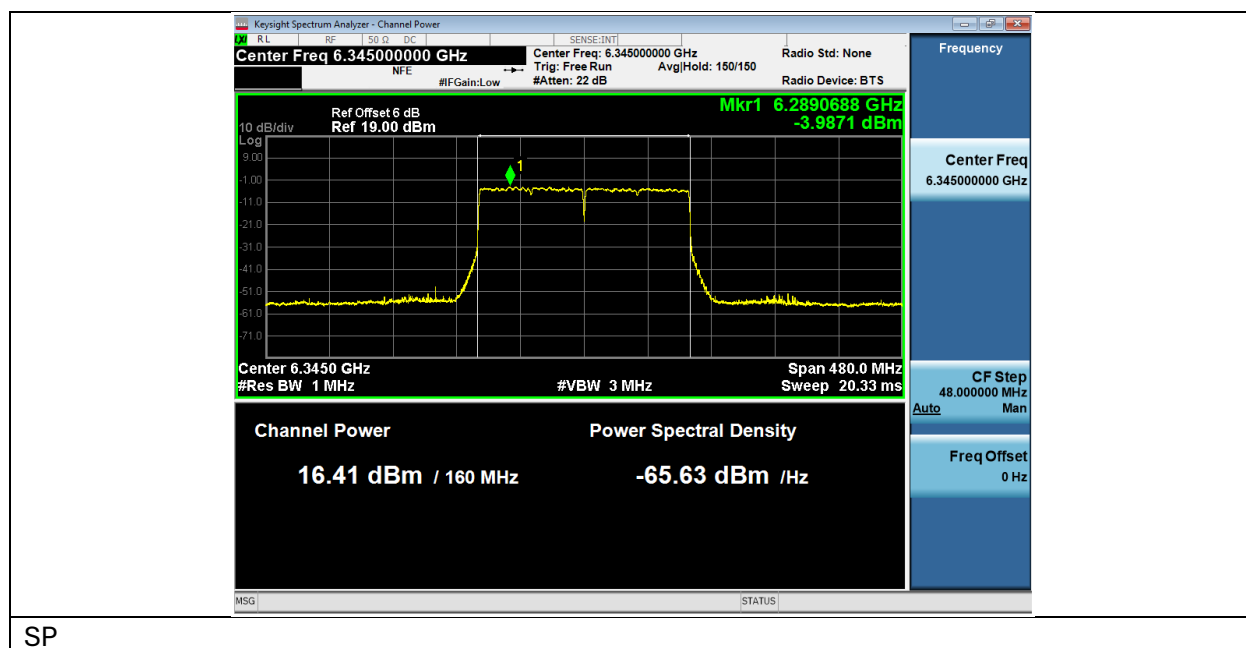


Radio Test Report No: **EDCS - 25644959**

Test Case 160MHz\_10621\_1

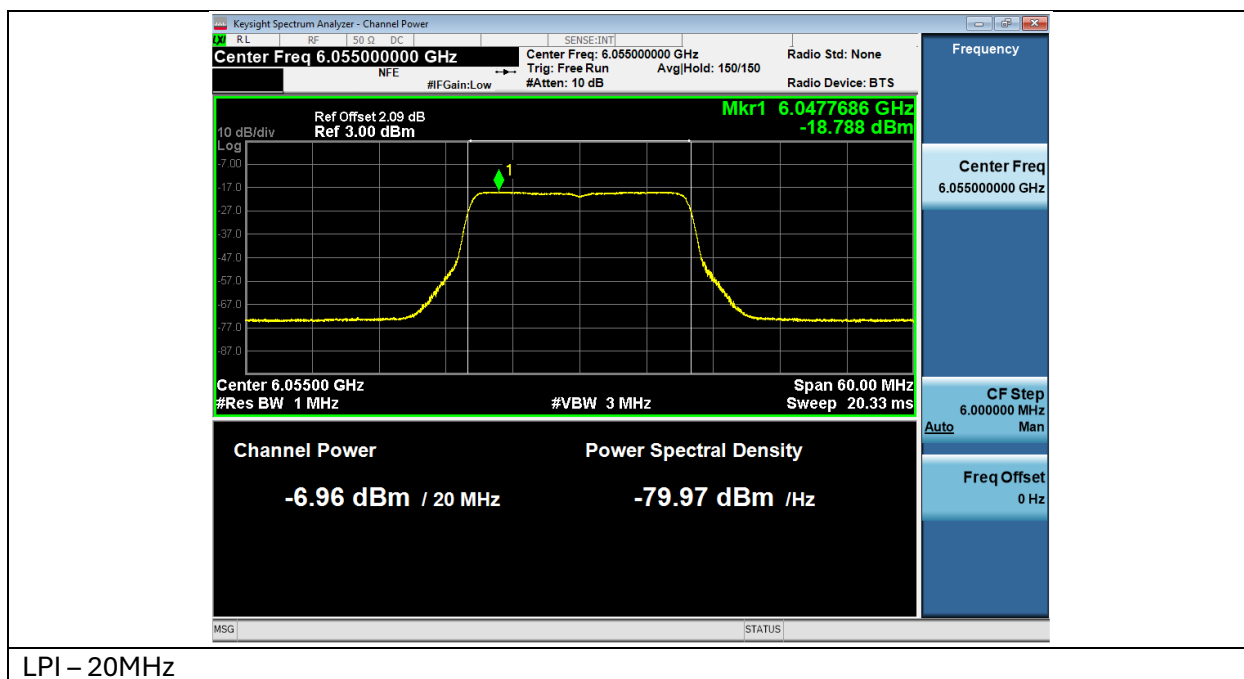
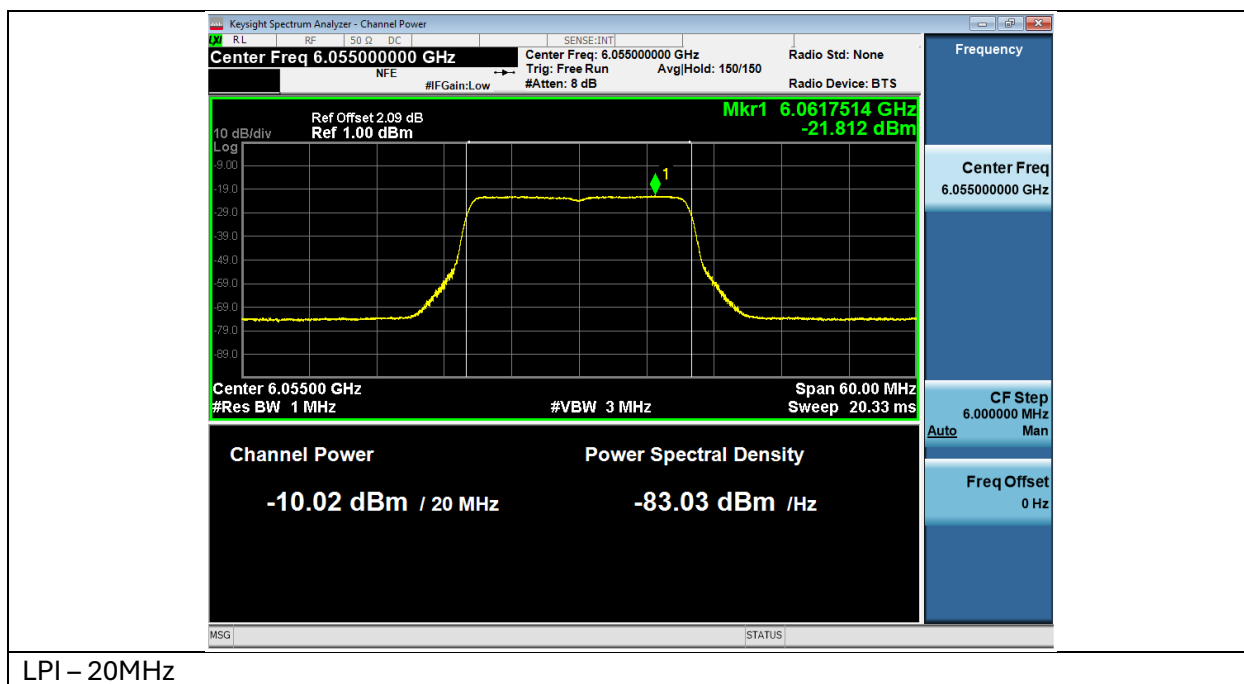


Radio Test Report No: **EDCS - 25644959**



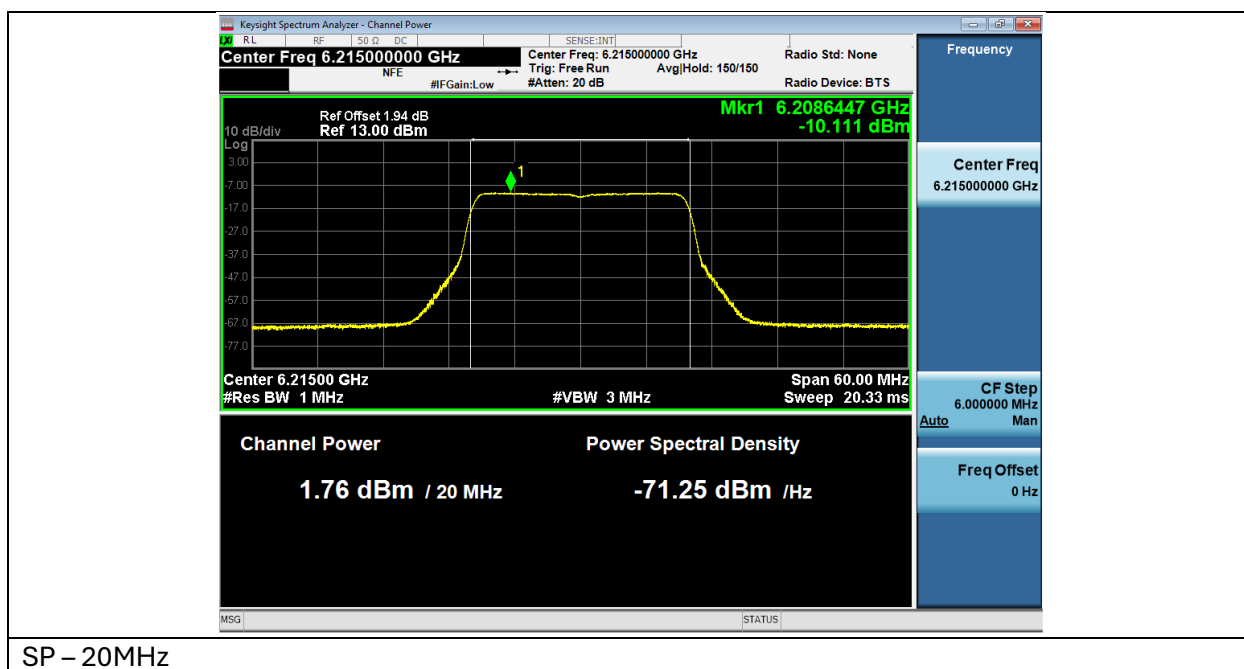
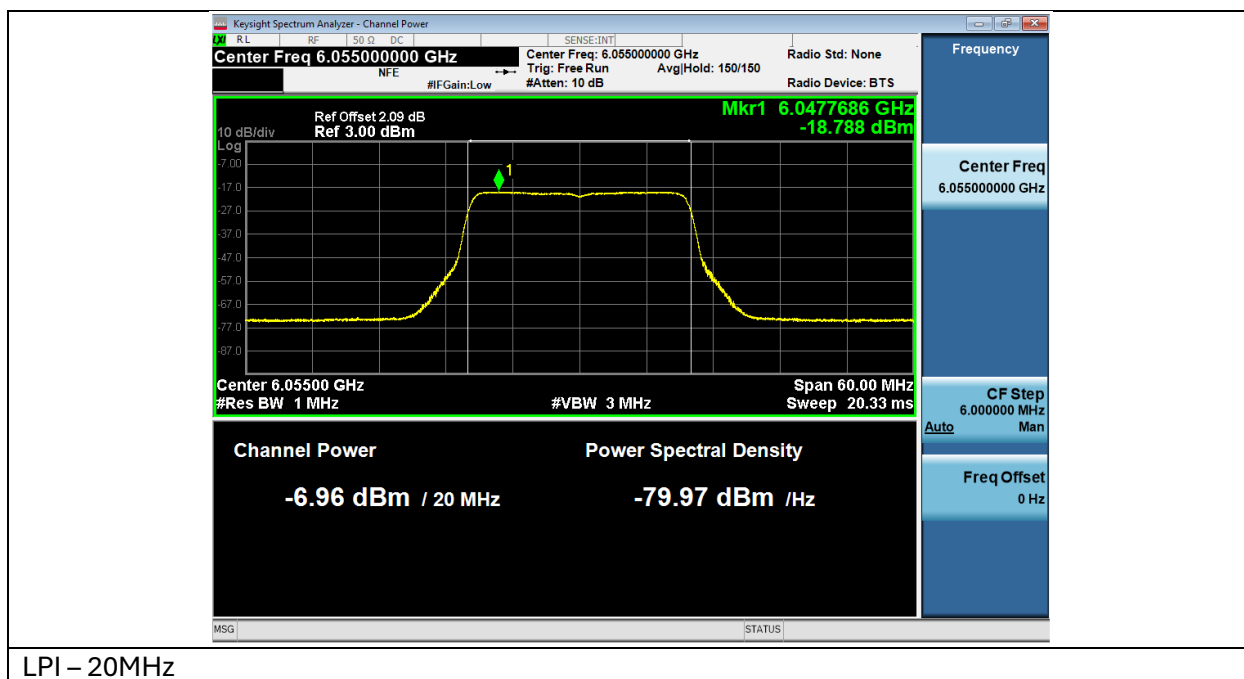
Radio Test Report No: **EDCS - 25644959**

Test Case 10622\_1

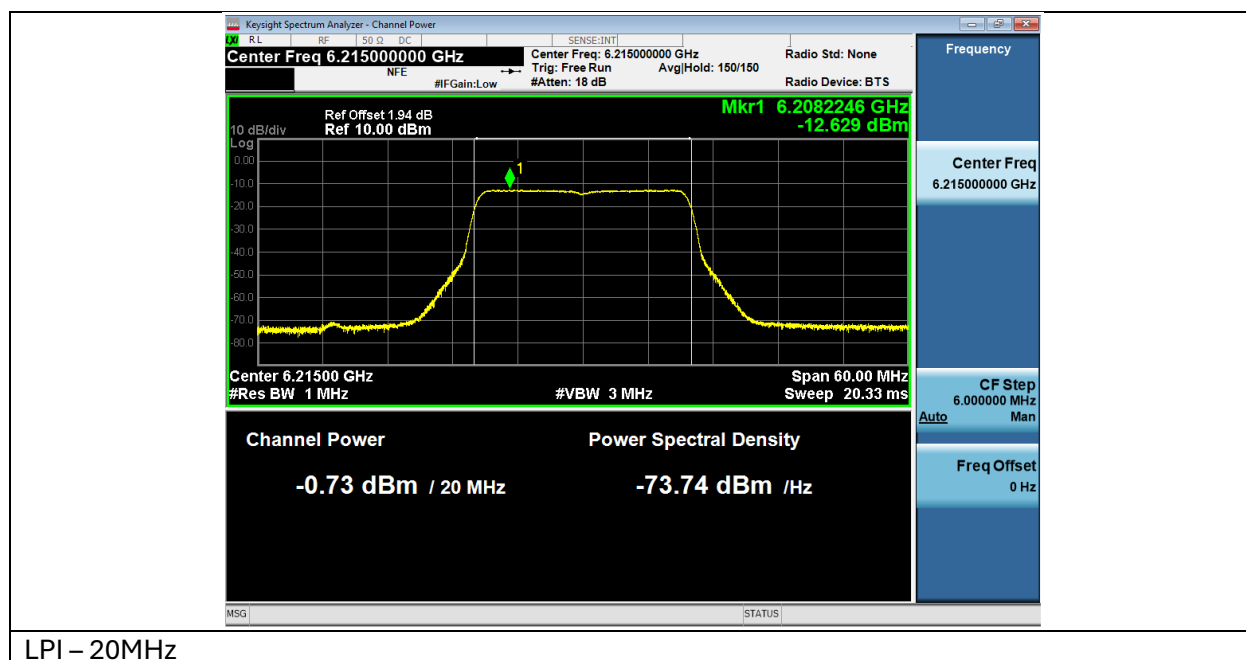


Radio Test Report No: **EDCS - 25644959**

Test Case 10623\_1

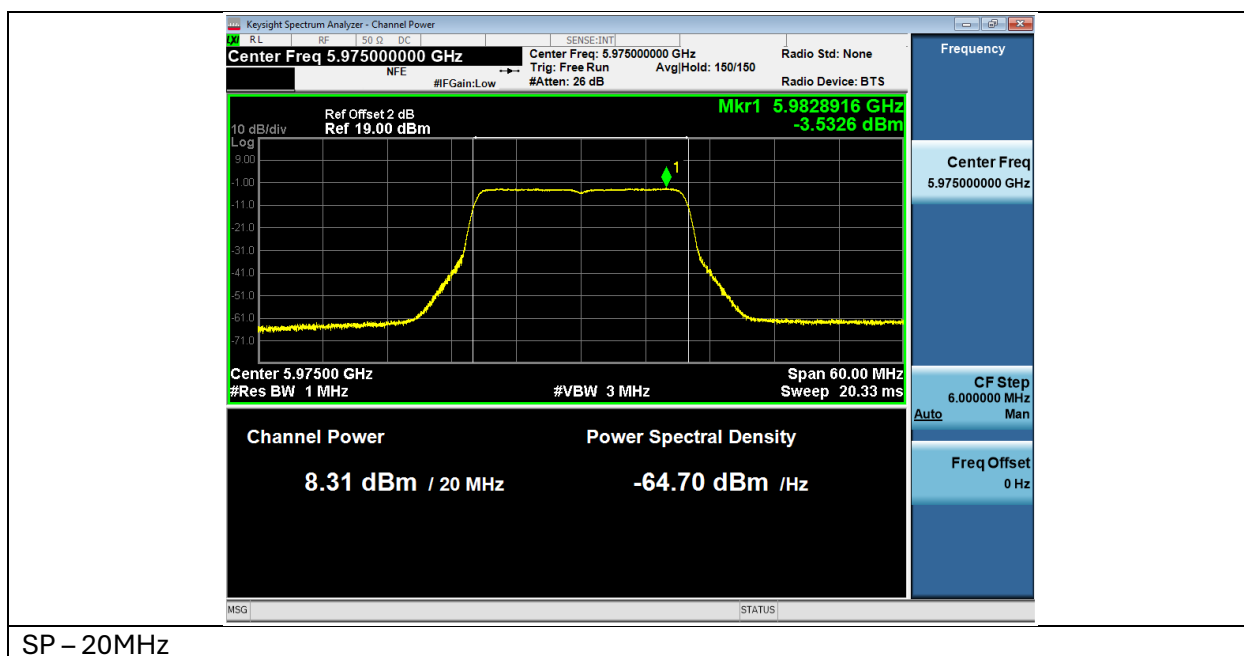
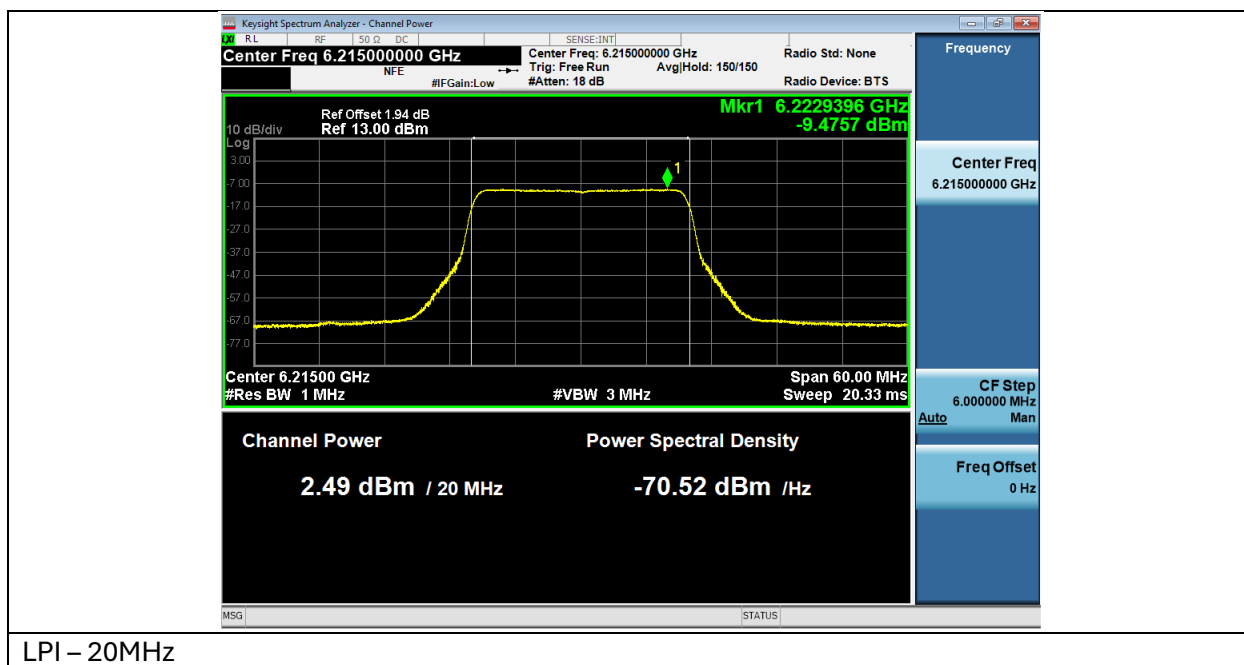


Radio Test Report No: **EDCS - 25644959**



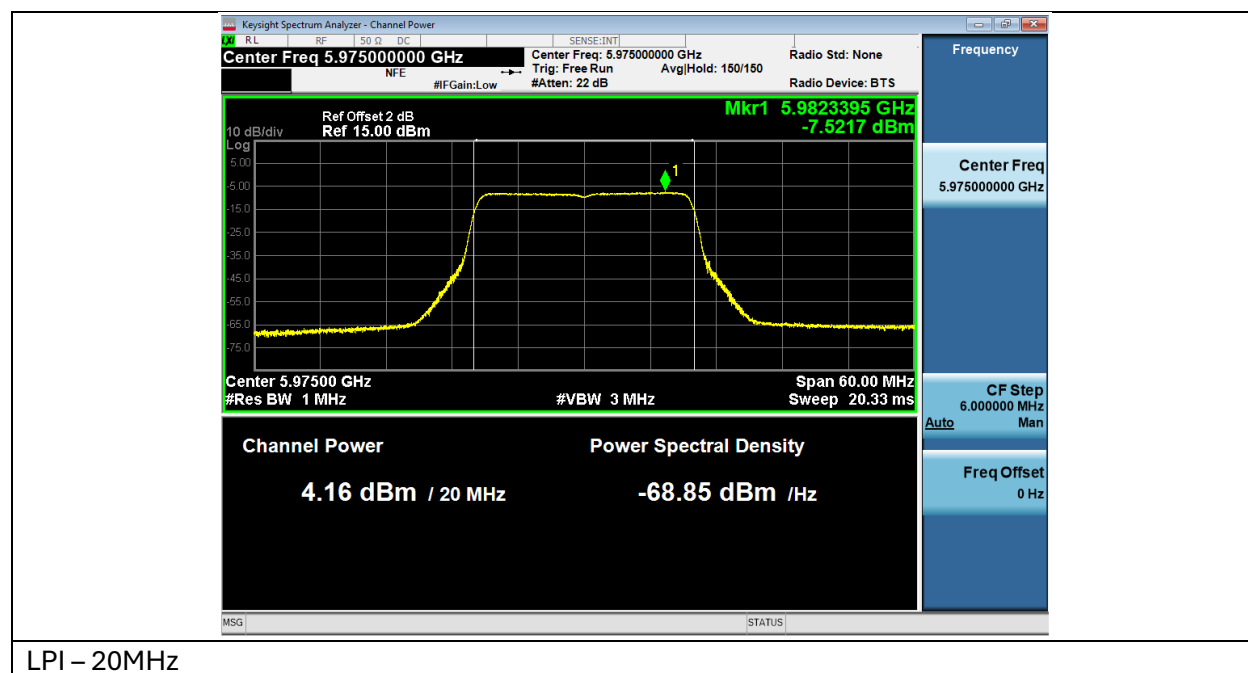
Radio Test Report No: **EDCS - 25644959**

Test Case 10624\_1





Radio Test Report No: **EDCS - 25644959**



## B.3 Power Spectral Density

### Power Spectral Density Test Requirement

#### FCC 15.407(a):

(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(5) For an indoor access point operating in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(6) For a subordinate device operating under the control of an indoor access point in the 5.925–7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(8) For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

(11) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(12) Power spectral density measurement: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725–5.895 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in all other bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

### Power Spectral Density Test Procedure

Ref. KDB 987594, KDB 789033 D02 General UNII Test Procedures New Rules v02r01

#### F. Maximum Power Spectral Density (PSD)

| Power Spectral Density<br>Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The rules require “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.</p> <ol style="list-style-type: none"> <li>1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)</li> <li>2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.</li> </ol> |

Radio Test Report No: **EDCS - 25644959**

3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the peak of the spectrum.
- b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.

**Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01**

**2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2**

**Power Spectral Density**

**Test parameters**

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (i) Measure the duty cycle,  $x$ , of the transmitter output signal as described in section II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW  $\geq$  3 MHz.
- (v) Number of points in sweep  $\geq$  2 Span / RBW. (This ensures that bin-to-bin spacing is  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to "free run".
- (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth)

**F. Maximum Power Spectral Density (PSD)**

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the peak of the spectrum.

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Tested By:</b><br>Johanna Knudsen | <b>Date of testing:</b><br>03/19/2025 – 03/21/2025 |
| <b>Test Result: PASS</b>             |                                                    |

**Test Equipment**

See Appendix C for list of test equipment.

**Power Spectral Density Data Table**

See Power section, Appendix B.2

**Appendix C: List of Test Equipment Used to perform the test**

| Equip# | Manufacturer/ Model                | Description                                  | Last Cal    | Next Due    |
|--------|------------------------------------|----------------------------------------------|-------------|-------------|
| 49516  | Keysight (Agilent/HP) / N9030A-550 | PXA Signal Analyzer, 3Hz to 50GHz            | 09 Apr 2024 | 09 Apr 2025 |
| 35095  | MICRO-COAX / UFA147A               | RF Coaxial Cable, to 40GHz                   | 21 Feb 2025 | 21 Feb 2026 |
| 58256  | COMET / T7611-4                    | WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER | 27 Feb 2025 | 27 Feb 2026 |
| 56328  | PASTERNAK / PE5019-1               | Torque Wrench                                | 16 Apr 2025 | 16 Apr 2025 |
| 54609  | MINI-CIRCUITS / ZFSC-2-10G         | SPLITTER, 2-10GHZ                            | 28 Aug 2024 | 28 Aug 2025 |
| 42630  | Pasternack / PE6072                | SMA 50 Ohm Termination                       | 04 Sep 2024 | 04 Sep 2025 |

## Appendix D: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

| Abbreviation | Description                                                          | Abbreviation | Description                         |
|--------------|----------------------------------------------------------------------|--------------|-------------------------------------|
| EMC          | Electro Magnetic Compatibility                                       | °F           | Degrees Fahrenheit                  |
| EMI          | Electro Magnetic Interference                                        | °C           | Degrees Celsius                     |
| EUT          | Equipment Under Test                                                 | Temp         | Temperature                         |
| ITE          | Information Technology Equipment                                     | S/N          | Serial Number                       |
| TAP          | Test Assessment Schedule                                             | Qty          | Quantity                            |
| ESD          | Electro Static Discharge                                             | emf          | Electromotive force                 |
| EFT          | Electric Fast Transient                                              | RMS          | Root mean square                    |
| EDCS         | Engineering Document Control System                                  | Qp           | Quasi Peak                          |
| Config       | Configuration                                                        | Av           | Average                             |
| CIS#         | Cisco Number (unique identification number for Cisco test equipment) | Pk           | Peak                                |
| Cal          | Calibration                                                          | kHz          | Kilohertz ( $1 \times 10^3$ )       |
| EN           | European Norm                                                        | MHz          | MegaHertz ( $1 \times 10^6$ )       |
| IEC          | International Electro technical Commission                           | GHz          | Gigahertz ( $1 \times 10^9$ )       |
| CISPR        | International Special Committee on Radio Interference                | H            | Horizontal                          |
| CDN          | Coupling/Decoupling Network                                          | V            | Vertical                            |
| LISN         | Line Impedance Stabilization Network                                 | dB           | decibel                             |
| PE           | Protective Earth                                                     | V            | Volt                                |
| GND          | Ground                                                               | kV           | Kilovolt ( $1 \times 10^3$ )        |
| L1           | Line 1                                                               | $\mu$ V      | Microvolt ( $1 \times 10^{-6}$ )    |
| L2           | Line2                                                                | A            | Amp                                 |
| L3           | Line 3                                                               | $\mu$ A      | Micro Amp ( $1 \times 10^{-6}$ )    |
| DC           | Direct Current                                                       | mS           | Milli Second ( $1 \times 10^{-3}$ ) |
| RAW          | Uncorrected measurement value, as indicated by the measuring device  | $\mu$ S      | Micro Second ( $1 \times 10^{-6}$ ) |
| RF           | Radio Frequency                                                      | $\mu$ S      | Micro Second ( $1 \times 10^{-6}$ ) |
| SLCE         | Signal Line Conducted Emissions                                      | m            | Meter                               |
| Meas dist    | Measurement distance                                                 | Spec dist    | Specification distance              |
| N/A or NA    | Not Applicable                                                       | SL           | Signal Line (or Telecom Line)       |
| P            | Power Line                                                           | L            | Live Line                           |
| N            | Neutral Line                                                         | R            | Return                              |
| S            | Supply                                                               | AC           | Alternating Current                 |

## Appendix F: Software Used to Perform Testing

Cisco CC RF Operability Suite Main version 12

## Appendix G: Test Procedures

Measurements were made in accordance with:

- KDB 987694
  - 987594 D01 U-NII 6GHz General Requirements v03
  - 987594 D02 U-NII 6 GHz EMC Measurement v03
  - 987594 D03 U-NII 6 GHz QA v03r01
  - 987594 D04 UN6GHZ Pre-Approval Guidance Checklist v03
  - 987594 D05 AFC DUT Test Harness Testing v01r01
- KDB 789033
  - 789033 D02 General UNII Test Procedures New Rules v02r01
- KDB 662911 - MIMO
- ANSI C63.4 2014 Unintentional Radiators
- ANSI C63.10 2013 Intentional Radiators

Test procedures are summarized below:

|                              |                 |
|------------------------------|-----------------|
| FCC 6GHz Test Procedures     | EDCS # 23507622 |
| FCC 6GHz AFC Test Procedures | EDCS # 24173795 |
| FCC 5GHz Test Procedures     | EDCS # 1445048  |

## Appendix H: Scope of Accreditation (A2LA certificate number 1178-01)

The scope of accreditation of Cisco Systems, Inc. can be found on the A2LA web page at:

<http://www.a2la.org/scopepdf/1178-01.pdf>

## Appendix I: Test Assessment Plan

Compliance Test Plan (Excel) EDCS# 25380412

Target Power Tables EDCS# 25254427