UNIFIED COMPLIANCE LABORATORY

**427 West 12800 South**
**Draper, UT 84020**

# Test Report

## Certification

| | |
|---|---|
| **FCC ID** | SWX-WAVEML6 |
| **ISED ID** | 6545A-WAVEML6 |
| **Equipment Under Test** | Wave-MLO6 |
| **Test Report Serial Number** | TR10564_01 |
| **Date of Test(s)** | 15 May – 11 July 2025 |
| **Report Issue Date** | 2 December 2025 |

| Test Specification | Applicant |
|---|---|
| 47 CFR FCC Part 15, Subpart E<br>RSS-247, Issue 3 (August 2023) | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |

NVLAP TESTING ilac-MRA

**NVLAP LAB CODE 600241-0**

# Certification of Engineering Report

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

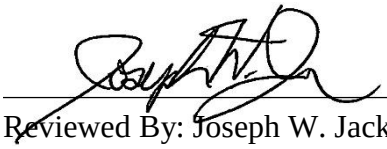
| | |
|---|---|
| **Applicant** | Ubiquiti Inc. |
| **Manufacturer** | Ubiquiti Inc. |
| **Brand Name** | UBIQUITI |
| **Model Number** | Wave-MLO6 |
| **FCC ID** | SWX-WAVEML6 |
| **ISED ID** | 6545A-WAVEML6 |

On this 2nd day of December 2025, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

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

Unified Compliance Laboratory

Written By: Clay Allred



Reviewed By: Joseph W. Jackson

| Revision History | | |
|---|---|---|
| **Revision** | **Description** | **Date** |
| 01 | Original Report Release | 2 December 2025 |

# Table of Contents

# 1 Client Information

## 1.1 Applicant

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

## 1.2 Manufacturer

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

# 2 Equipment Under Test (EUT)

## 2.1 Identification of EUT

| | | |
|---|---|---|
| **Brand Name** | | UBIQUITI |
| **Model Number** | | Wave-MLO6 |
| **Serial Number** | | 2FE39D |
| **Dimensions (cm)** | | 24.9 x 8.2 x 4.8 |
| **Antenna 1:** | **Manufacturer:** | UBIQUITI |
| | **Model:** | UISP-Dish |
| | **Gain:** | 30 dBi |
| | **Type:** | Dish |
| **Antenna 2:** | **Manufacturer:** | UBIQUITI |
| | **Model:** | UISP-Horn |
| | **Gain:** | 19.5 dBi |
| | **Type:** | Horn |

## 2.2 Description of EUT

The Wave-MLO6 is a 5 GHz and 6 GHz point-to-point customer premise equipment which features wave technology with a high throughput rate. The 5 GHz radio supports U-NII-1, U-NII-2 and U-NII-3 bands. The 6 GHz radio support U-NII-5 and U-NII-7 bands. The Wave-MLO6 has Bluetooth LE transceiver for system management. The Wave-MLO6 is an outdoor device and has an Ethernet port which is used for data transfer and is powered using a Model U-POE++ 48-volt PoE power adapter.

This device does not support channel puncturing.

The following is list of the antennas that the Wave-MLO6 can use. However, testing was performed considering only the Max and Min antenna gain antennas.

| Antenna Type | Model Number | Antenna Gain (dBi) |
|---|---|---|
| Dish | UISP Dish | 30 |
| | UISP Dish Mini | 26 |
| Horn | UISP Horn | 19 |

For CDD transmission, direction gain is calculated as follows.

**UISP- Dish:**
Array Gain = 10 log(NANT/NSS) dB
NANT = number of transmit antennas and NSS = number of spatial streams. NSS = 1 considered worst case. For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;

For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 3.01 dB + 30 dBi = 33.01 dBi.

**UISP-Horn:**
Array Gain = 10 log(NANT/NSS) dB
NANT = number of transmit antennas and NSS = number of spatial streams. NSS = 1 considered worst case. For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;

For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 3.01 dB + 19.5 dBi = 22.51 dBi.

The Wave-MLO6 uses Transmit Power (TP) Control protocol and is included in the power tables of Section 5.4.

| Band | Modulation Bandwidth | Frequency (MHz) |
|---|---|---|
| UNII-2A | 20 MHz | 5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320 |
| | 40 MHz | 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310 |
| | 80 MHz | 5290 |
| | 160 MHz | 5250 |
| UNII-2C | 20 MHz | 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720 |
| | 40 MHz | 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710 |
| | 80 MHz | 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690 |
| | 160 MHz | 5570 |
| * Frequency not applicable in Canada | | |

**Table 1: UNII-2A and UNII-2C Channel Settings**

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

## 2.3 EUT and Support Equipment

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

| Brand Name<br>Model Number<br>Serial Number | Description | Name of Interface Ports / Interface Cables |
|---|---|---|
| BN: UBIQUITI<br>MN: Wave-MLO6<br>SN: 2FE39D | Wireless Point-to-Point | See Section 2.4 |
| BN: UBIQUITI<br>MN: U-POE-at<br>SN: N/A | PoE Power Adapter | Shielded or Un-shielded Cat 5e cable (Note 2) |
| BN: Dell<br>MN: XPS 13<br>SN: N/A | Laptop Personal Computer | Shielded or Un-shielded Cat 5e cable (Note 2) |

Notes: (1) EUT
(2) Interface port connected to EUT (See Section 2.4)

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

## 2.4 Interface Ports on EUT

| Name of Ports | No. of Ports Fitted to EUT | Cable Description/Length |
|---|---|---|
| PoE Input | 1 | 7m Shielded Cat 5E |
| PoE Output (PoE Injector) | 1 | 7m Shielded Cat 5E to Wave-MLO6 PoE Input |
| LAN (PoE Injector) | 1 | unshielded Cat 5E to Laptop PC |
| AC (PoE Injector) | 1 | 3 Conductor power cord to AC mains/80cm |

## 2.5 Operating Environment

| | |
|---|---|
| **Power Supply** | 120 VAC |
| **AC Mains Frequency** | 60 Hz |
| **Temperature** | 18.1 – 24.2 °C |
| **Humidity** | 24 – 36 % |
| **Barometric Pressure** | 1020 mBar |

## 2.6 Operating Modes

The Wave-MLO6 was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/n/ac/ax were investigated. All measurements are reported with the worst-case mode (802.11ax maximum conducted output power and maximum power spectral density) unless otherwise stated.

## 2.7 EUT Exercise Software

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

## 2.8 Block Diagram of Test Configuration

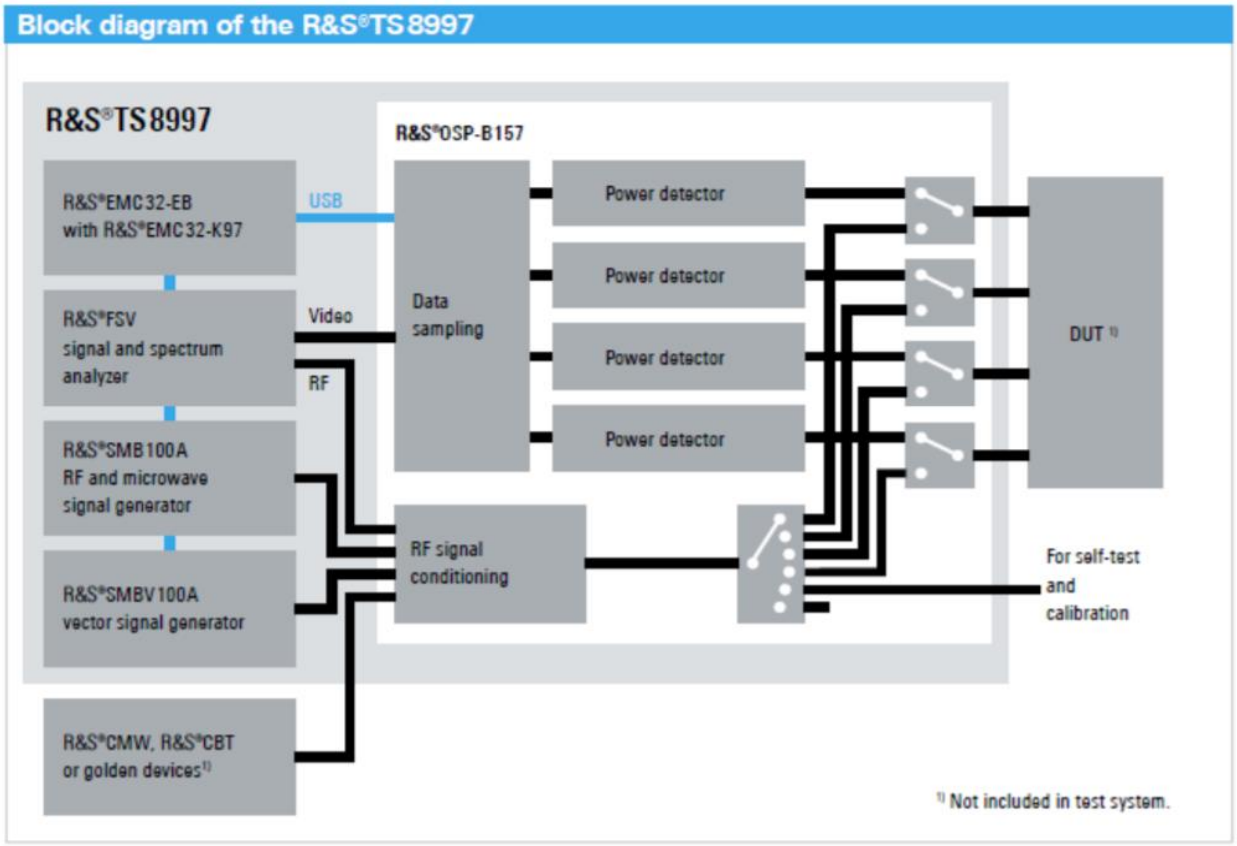



**Diagram 1: Test Configuration Block Diagram**

## 2.9 Modification Incorporated/Special Accessories on EUT

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

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

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

# 3 Test Specification, Method and Procedures

## 3.1 Test Specification

| | |
|---|---|
| **Title** | 47 CFR FCC Part 15, Subpart E, Section 15.407<br>Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices |
| **Purpose of Test** | The tests were performed to demonstrate initial compliance |

## 3.2 Methods & Procedures

### 3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

## 3.3 FCC Part 15, Subpart E

### 3.3.1 Summary of Tests

| FCC Section | ISED Section | Environmental Phenomena | Frequency Range (MHZ) | Result |
|---|---|---|---|---|
| 15.203 | N/A | Antenna requirements | Structural Requirement | Compliant |
| 15.207 | RSS-Gen | Conducted Disturbance at Mains Port | 0.15 to 30 | Compliant |
| 15.407(a) | RSS-247 §6.2.2 | Bandwidth Requirement | 5260 to 5720 | Compliant |
| 15.407(a) | RSS-247 §6.2.2, §6.2.3 | Peak Output Power | 5260 to 5720 | Compliant |
| 15.407(b) | RSS-247 §6.2.2, §6.2.3 | Antenna Conducted Spurious Emissions | 0.009 to 40000 | N/A Note[1] |
| 15.209 | RSS-247 §6.2.2, §6.2.3 | Radiated Spurious Emissions | 0.009 to 40000 | Compliant |
| 15.407(a) | RSS-247 §6.2.2, §6.2.3 | Peak Power Spectral Density | 5260 to 5720 | Compliant |
| 15.407(h) | RSS-247 §6.3 | DFS Requirements | 5260 to 5720 | Compliant |
| The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.<br>Note [1]: Radiated Spurious was performed per 15.209 with the antenna unterminated. | | | | |

## 3.4 Results

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

## 3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2026. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2026.

Unified Compliance Laboratory has been assigned Registration Number 376708 by the FCC, MRA Designation Number US5037 and Conformity Assessment Number US0223 by ISED.

# 4 Test Equipment

## 4.1 Conducted Emissions at Mains Ports

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| EMI Receiver | AFJ | FFT3010 | UCL-6754 | 2/27/2025 | 2/27/2026 |
| LISN | AFJ | LS16C/10 | UCL-6749 | 3/3/2025 | 3/3/2026 |
| ISN | Teseq | ISN T800 | UCL-2971 | 3/31/2025 | 3/31/2026 |
| AC Power Source | Laplace Instruments | AC1000A | UCL-2857 | N/A | N/A |
| Test Software | AFJ | AFJ FFT3010 | UCL-3107 | N/A | N/A |

**Table 2: List of equipment used for Conducted Emissions Testing at Mains Port**

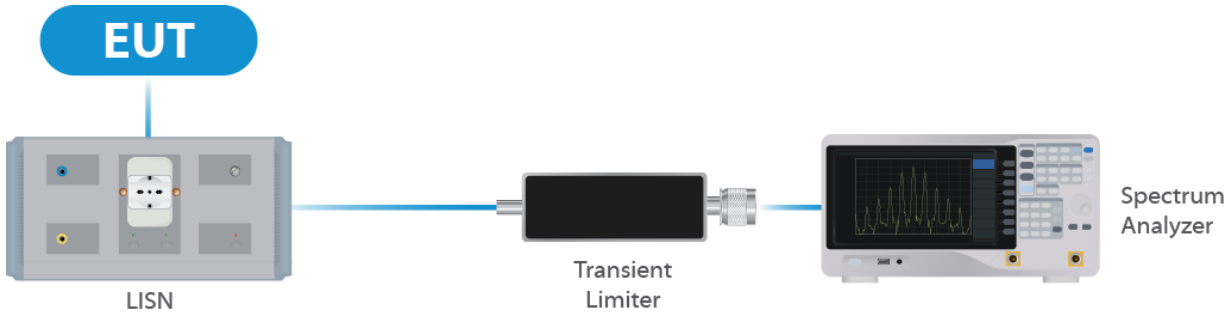



**Figure 1: Conducted Emissions Test**

## 4.2 Direct Connect at the Antenna Port Tests

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV40 | UCL-2861 | 1/16/2025 | 1/16/2026 |
| Signal Generator | R&S | SMB100A | UCL-2864 | N/A | N/A |
| Vector Signal Generator | R&S | SMBV100A | UCL-2873 | N/A | N/A |
| Switch Extension | R&S | OSP-B157WX | UCL-2867 | 4/28/2025 | 1/16/2026 |
| Switch Extension | R&S | OSP-150W | UCL-2870 | 4/28/2025 | 1/16/2026 |
| Test Software | R&S | EMC32 | UCL-9442 | -- | -- |

**Table 3: List of equipment used for Direct Connect at the Antenna Port**

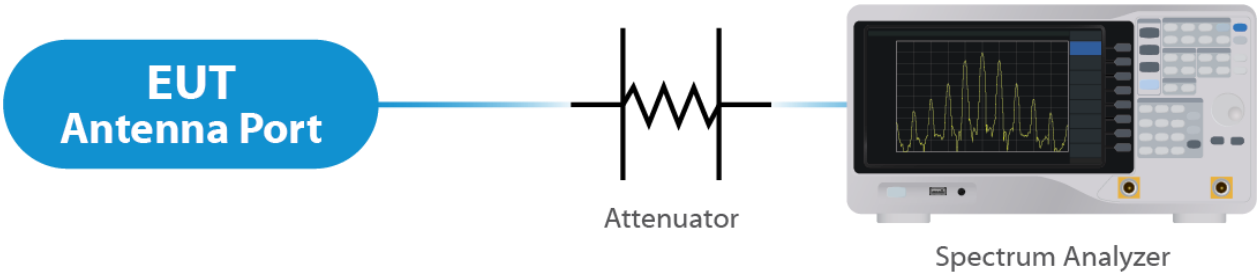



**Figure 2: Direct Connect at the Antenna Port Test**

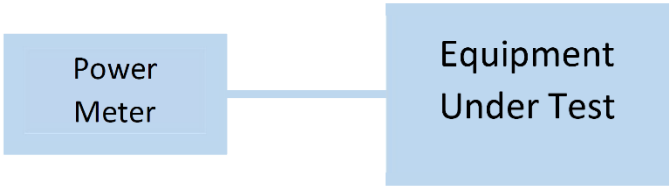



**Figure 3: Output Power Measurement**

## 4.3 Radiated Emissions

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| EMI Receiver | Keysight | N9038A | UCL-2778 | 12/27/2024 | 12/27/2025 |
| Pre-Amplifier 9 kHz – 1 GHz | Sonoma Instruments | 310N | UCL-2889 | 1/19/2024 | 1/19/2026 |
| Broadband Antenna | ETS-Lindgren | 3142E | UCL-9782 | 2/6/2025 | 2/6/2026 |
| Double Ridge Horn Antenna | Scwarzbeck | BBHA 9120D | UCL-3065 | 4/2/2025 | 4/2/2027 |
| Log Periodic | Scwarzbeck | STLP 9129 | UCL-3068 | 2/11/2025 | 2/4/2027 |
| 10 - 40 GHz Horn Antenna | ETS-Lindgren | 3116C | UCL-7209 | 6/6/2024 | 6/6/2026 |
| 1 – 18 GHz Amplifier | Com-Power | PAM 118A | UCL-3833 | 7/22/2025 | 7/22/2026 |
| Test Software | Nexio | BatEMC | UCL-5253 & UCL-5249 | N/A | N/A |

**Table 4: List of equipment used for Radiated Emissions**

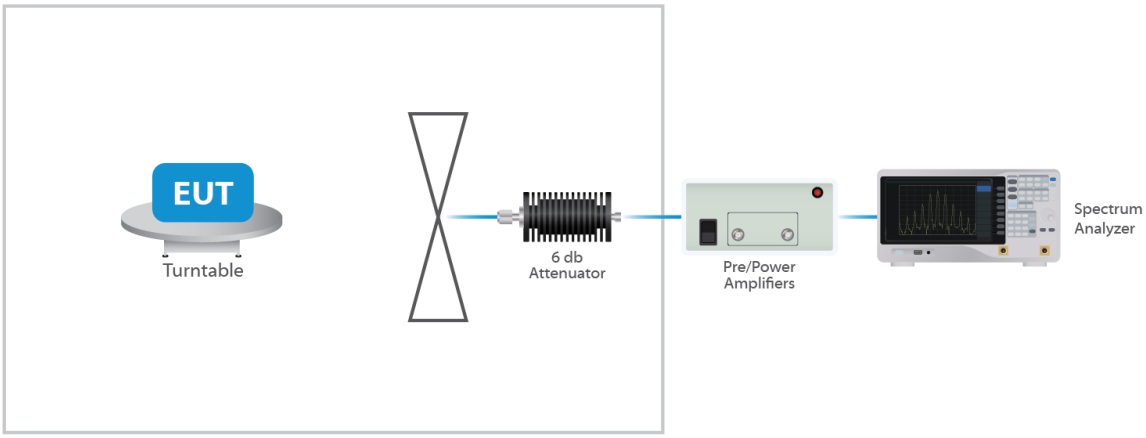



Figure 4: Radiated Emissions Test

## 4.4 DFS Testing

| Type of Equipment | Manufacturer | Model Number | Asset Number | Date of Last Calibration | Due Date of Calibration |
|---|---|---|---|---|---|
| Vector Signal Generator | R&S | SMBV100A | UCL-2873 | N/A | N/A |
| Spectrum Analyzer | Keysight | N9010B | UCL-7069 | 5/20/2025 | 5/20/2026 |

### 4.4.1 Master Test Set Up

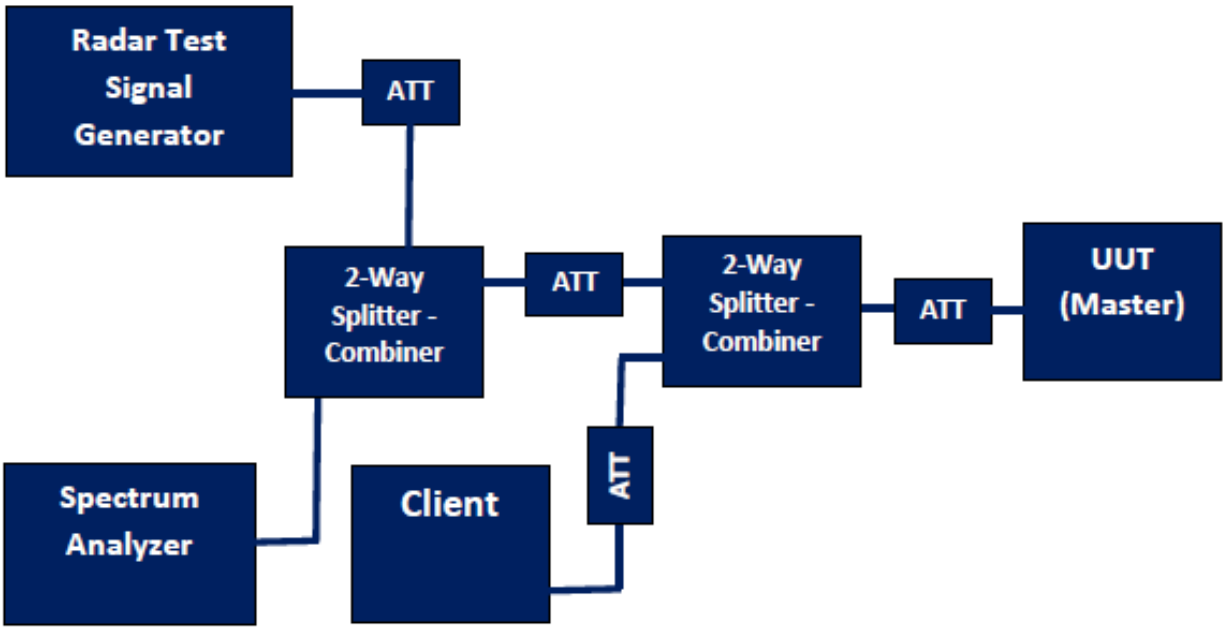



Figure 5: DFS Test Set Up - Master

## 4.5 Equipment Calibration

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

## 4.6 Measurement Uncertainty

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

# 5 Test Results

## 5.1 §15.203 Antenna Requirements

The EUT uses a Dish and a Horn. Per the manufacturer, the Maximum gain of the antenna per chain is 30dBi and 19.5dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is user replaceable.

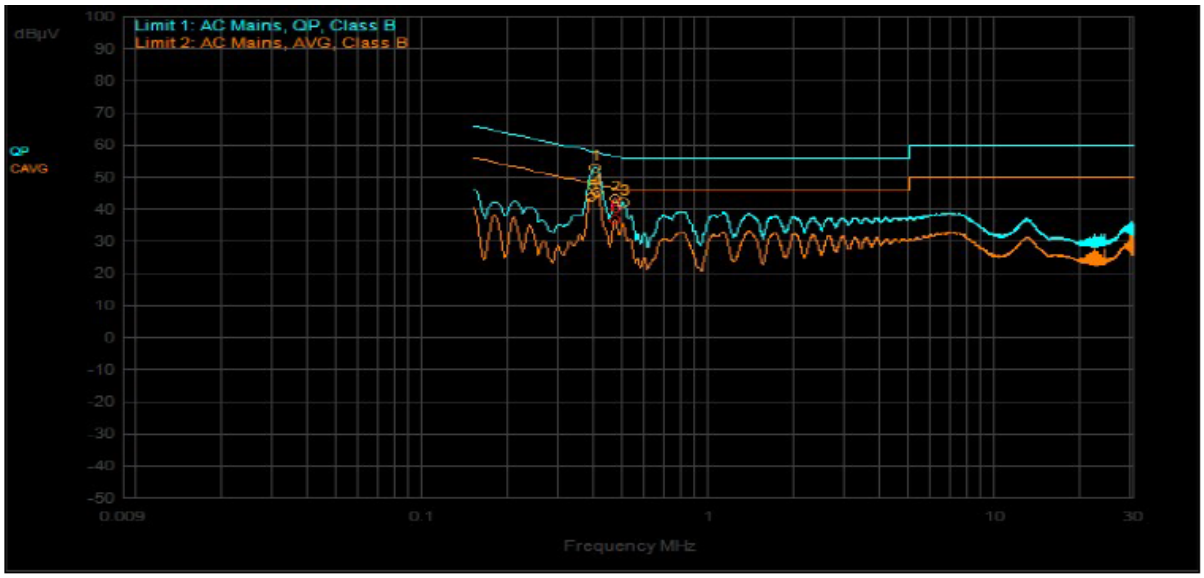
See Section 2.2 for directional gain calculation.

### Results

The EUT complied with the specification

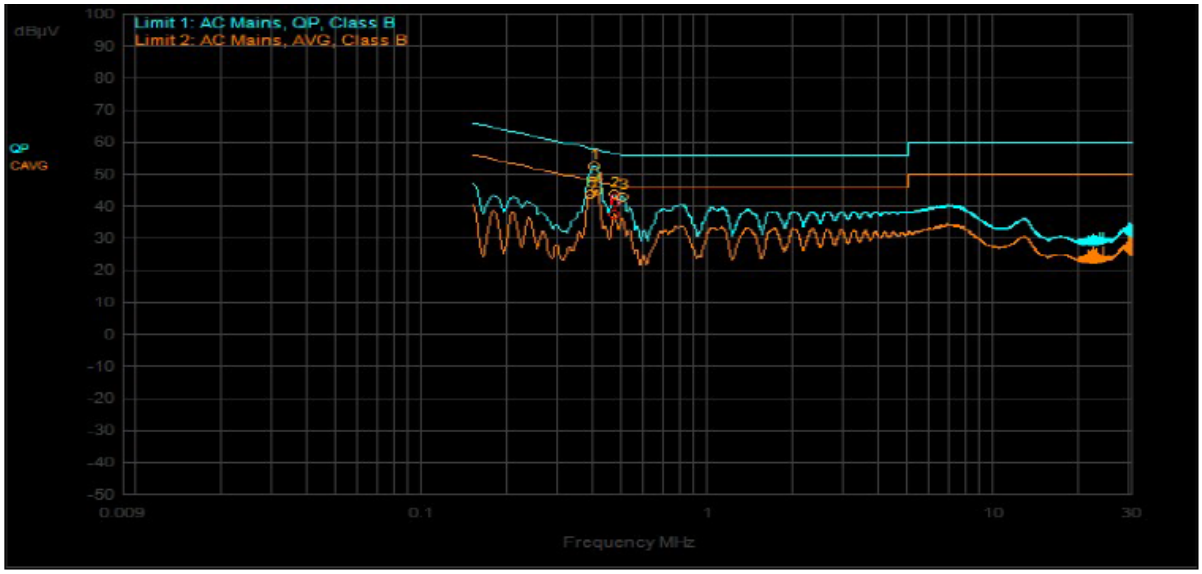
## 5.2 §15.207 Conducted Emissions at Mains Ports Data

### 5.2.1 Line




| ID | Frequency | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MU | MHz | dB | dB | dB | Type | dBµV | dBµV | dBµV | dB | dBµV | dB | P/F |
| 1 | 399,000kHz | 12.38 | 0.00 | | QPeak | 40.58 | 52.96 | 57.87 | -4.92 | | | |
| 2 | 465,000kHz | 12.36 | 0.00 | | QPeak | 30.89 | 43.25 | 56.60 | -13.36 | | | |
| 3 | 498,000kHz | 12.35 | 0.00 | | QPeak | 29.69 | 42.04 | 56.03 | -13.99 | | | |
| 4 | 402,000kHz | 12.38 | 0.00 | | C_AVG | 33.16 | 45.54 | | | 47.81 | -2.27 | |
| 5 | 384,000kHz | 12.38 | 0.00 | | C_AVG | 31.37 | 43.75 | | | 48.19 | -4.44 | |
| 6 | 465,000kHz | 12.36 | 0.00 | | C_AVG | 24.35 | 36.71 | | | 46.60 | -9.90 | |

### 5.2.2 Neutral




| ID | Frequency | Probe | Cable | Atten. | Detector | Meter Read | Meas Level | Limit 1 | Limit 1 Dist. | Limit 2 | Limit 2 Dist. | P/F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MU | MHz | dB | dB | dB | Type | dBµV | dBµV | dBµV | dB | dBµV | dB | P/F |
| 1 | 396,000kHz | 12.37 | 0.00 | | QPeak | 40.21 | 52.58 | 57.94 | -5.36 | | | |
| 2 | 468,000kHz | 12.37 | 0.00 | | QPeak | 31.47 | 43.84 | 56.55 | -12.71 | | | |
| 3 | 498,000kHz | 12.37 | 0.00 | | QPeak | 30.52 | 42.89 | 56.03 | -13.15 | | | |
| 4 | 405,000kHz | 12.37 | 0.00 | | C_AVG | 32.64 | 45.01 | | | 47.75 | -2.74 | |
| 5 | 384,000kHz | 12.37 | 0.00 | | C_AVG | 31.52 | 43.89 | | | 48.19 | -4.31 | |
| 6 | 468,000kHz | 12.37 | 0.00 | | C_AVG | 24.99 | 37.36 | | | 46.55 | -9.19 | |

**Result**

The EUT complied with the specification limit.

## 5.3 §15.407(a) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 662911 D01. Please see associated annex for details on instrument settings.

### 5.3.1 UNII-2A

**Horn Antenna**

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5260 | 17.23 | 24.75 |
| OFDM 20 | 5280 | 17.08 | 22.92 |
| OFDM 20 | 5320 | 17.08 | 22.50 |
| EHT 20 | 5260 | 19.18 | 23.25 |
| EHT 20 | 5280 | 19.18 | 22.80 |
| EHT 20 | 5320 | 19.18 | 22.80 |
| EHT 40 | 5270 | 38.25 | 43.75 |
| EHT 40 | 5310 | 38.25 | 44.00 |
| EHT 80 | 5290 | 78.00 | 90.00 |
| EHT 160 | 5250 | 158.00 | 169.00 |

**Dish Antenna**

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5260 | 16.93 | 22.80 |
| OFDM 20 | 5280 | 16.93 | 22.62 |
| OFDM 20 | 5320 | 17.08 | 22.35 |
| EHT 20 | 5260 | 19.18 | 23.25 |
| EHT 20 | 5280 | 19.18 | 23.40 |
| EHT 20 | 5320 | 19.18 | 22.50 |
| EHT 40 | 5270 | 38.50 | 45.25 |
| EHT 40 | 5310 | 38.00 | 44.00 |
| EHT 80 | 5290 | 78.50 | 90.50 |
| EHT 160 | 5250 | 158.00 | 174.00 |

### 5.3.2 UNII-2C

**Horn Antenna**

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5500 | 17.08 | 22.80 |
| OFDM 20 | 5600 | 17.08 | 22.65 |
| OFDM 20 | 5720 | 17.08 | 22.50 |
| EHT 20 | 5500 | 19.18 | 23.25 |
| EHT 20 | 5600 | 19.18 | 22.95 |
| EHT 20 | 5720 | 19.18 | 23.10 |
| EHT 40 | 5510 | 38.00 | 43.50 |
| EHT 40 | 5590 | 38.25 | 43.00 |
| EHT 40 | 5710 | 38.25 | 43.75 |
| EHT 80 | 5530 | 77.50 | 88.00 |
| EHT 80 | 5610 | 77.50 | 90.50 |
| EHT 80 | 5690 | 78.00 | 88.50 |
| EHT 160 | 5570 | 157.00 | 178.00 |
| EHT 240 | 5600 | 238.50 | 273.00 |

**Dish Antenna**

| Bandwidth | Frequency (MHz) | 99% Bandwidth (MHz) | Emissions 26 dB Bandwidth (MHz) |
|---|---|---|---|
| OFDM 20 | 5500 | 17.38 | 22.80 |
| OFDM 20 | 5600 | 17.08 | 22.50 |
| OFDM 20 | 5720 | 16.93 | 22.80 |
| EHT 20 | 5500 | 19.33 | 22.95 |
| EHT 20 | 5600 | 19.18 | 23.10 |
| EHT 20 | 5720 | 19.18 | 22.95 |
| EHT 40 | 5510 | 38.00 | 43.50 |
| EHT 40 | 5590 | 38.25 | 42.75 |
| EHT 40 | 5710 | 38.25 | 44.00 |
| EHT 80 | 5530 | 78.00 | 87.50 |
| EHT 80 | 5610 | 78.00 | 89.50 |
| EHT 80 | 5690 | 78.00 | 88.50 |
| EHT 160 | 5570 | 157.00 | 177.00 |
| EHT 240 | 5600 | 237.00 | 276.00 |

### Result

All chains were tested and the highest bandwidth per chain is reported above. Please see Annex for all bandwidth measurements.

## 5.4 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 662911 D01. Please see associated annex for details on instrument settings.

See Section 2.2 for directional gain calculation.

For use with the horn antenna the maximum average RF conducted output power measured for this device was 10.17 dBm or 10.4 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain. The antenna has a maximum gain of 19.5dBi.

For use with the Dish antenna the maximum average RF conducted output power measured for this device was -0.44 dBm or 0.9 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain. The antenna has a maximum gain of 30 dBi.

### 5.4.1 UNII-2A

**Nss>1 – Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss2 | 8 | 9.41 | 19.5 | 28.91 | 10.5 | -1.09 |
| OFDM 20 | 5280 | Mcs0_Nss2 | 8 | 9.56 | 19.5 | 29.06 | 10.5 | -0.94 |
| OFDM 20 | 5320 | Mcs0_Nss2 | 8 | 9.63 | 19.5 | 29.13 | 10.5 | -0.87 |
| EHT 20 | 5260 | Mcs0_Nss2 | 8 | 9.46 | 19.5 | 28.96 | 10.5 | -1.04 |
| EHT 20 | 5280 | Mcs0_Nss2 | 8 | 9.66 | 19.5 | 29.16 | 10.5 | -0.84 |
| EHT 20 | 5320 | Mcs0_Nss2 | 8 | 9.73 | 19.5 | 29.23 | 10.5 | -0.77 |
| EHT 40 | 5270 | Mcs0_Nss2 | 8 | 9.40 | 19.5 | 28.90 | 10.5 | -1.1 |
| EHT 40 | 5310 | Mcs0_Nss2 | 8 | 9.59 | 19.5 | 29.09 | 10.5 | -0.91 |
| EHT 80 | 5290 | Mcs0_Nss2 | 8 | 9.57 | 19.5 | 29.07 | 10.5 | -0.93 |
| EHT 160 | 5250 | Mcs0_Nss2 | 8 | 10.03 | 19.5 | 29.53 | 10.5 | -0.47 |

### Nss=1 Horn Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 5 | 6.41 | 22.51 | 25.91 | 7.49 | -1.08 |
| OFDM 20 | 5280 | Mcs0_Nss1 | 5 | 6.56 | 22.51 | 26.06 | 7.49 | -0.93 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 5 | 6.63 | 22.51 | 26.13 | 7.49 | -0.86 |
| EHT 20 | 5260 | Mcs0_Nss1 | 5 | 6.46 | 22.51 | 25.96 | 7.49 | -1.03 |
| EHT 20 | 5280 | Mcs0_Nss1 | 5 | 6.66 | 22.51 | 26.16 | 7.49 | -0.83 |
| EHT 20 | 5320 | Mcs0_Nss1 | 5 | 6.73 | 22.51 | 26.23 | 7.49 | -0.76 |
| EHT 40 | 5270 | Mcs0_Nss1 | 6 | 7.40 | 22.51 | 26.90 | 7.49 | -0.09 |
| EHT 40 | 5310 | Mcs0_Nss1 | 5 | 6.59 | 22.51 | 26.09 | 7.49 | -0.9 |
| EHT 80 | 5290 | Mcs0_Nss1 | 5 | 6.57 | 22.51 | 26.07 | 7.49 | -0.92 |
| EHT 160 | 5250 | Mcs0_Nss1 | 5 | 7.03 | 22.51 | 26.53 | 7.49 | -0.46 |

### Nss>1 – Dish Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss2 | -3 | -1.79 | 30.0 | 28.21 | 0.0 | -1.79 |
| OFDM 20 | 5280 | Mcs0_Nss2 | -2 | -0.70 | 30.0 | 29.30 | 0.0 | -0.7 |
| OFDM 20 | 5320 | Mcs0_Nss2 | -2 | -0.72 | 30.0 | 29.28 | 0.0 | -0.72 |
| EHT 20 | 5260 | Mcs0_Nss2 | -2 | -0.82 | 30.0 | 29.18 | 0.0 | -0.82 |
| EHT 20 | 5280 | Mcs0_Nss2 | -2 | -0.78 | 30.0 | 29.22 | 0.0 | -0.78 |
| EHT 20 | 5320 | Mcs0_Nss2 | -2 | -0.77 | 30.0 | 29.23 | 0.0 | -0.77 |
| EHT 40 | 5270 | Mcs0_Nss2 | -2 | -0.89 | 30.0 | 29.11 | 0.0 | -0.89 |
| EHT 40 | 5310 | Mcs0_Nss2 | -2 | -0.81 | 30.0 | 29.19 | 0.0 | -0.81 |
| EHT 80 | 5290 | Mcs0_Nss2 | -2 | -0.78 | 30.0 | 29.22 | 0.0 | -0.78 |
| EHT 160 | 5250 | Mcs0_Nss2 | -2 | -0.77 | 30.0 | 29.23 | 0.0 | -0.77 |

**Nss=1 Dish Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | -6 | -4.79 | 33.01 | 25.21 | -3.01 | -1.78 |
| OFDM 20 | 5280 | Mcs0_Nss1 | -5 | -3.70 | 33.01 | 26.30 | -3.01 | -0.69 |
| OFDM 20 | 5320 | Mcs0_Nss1 | -5 | -3.72 | 33.01 | 26.28 | -3.01 | -0.71 |
| EHT 20 | 5260 | Mcs0_Nss1 | -5 | -3.82 | 33.01 | 26.18 | -3.01 | -0.81 |
| EHT 20 | 5280 | Mcs0_Nss1 | -5 | -2.78 | 33.01 | 27.22 | -3.01 | -0.77 |
| EHT 20 | 5320 | Mcs0_Nss1 | -5 | -3.77 | 33.01 | 26.23 | -3.01 | -0.76 |
| EHT 40 | 5270 | Mcs0_Nss1 | -5 | -3.89 | 33.01 | 26.11 | -3.01 | -0.88 |
| EHT 40 | 5310 | Mcs0_Nss1 | -5 | -3.81 | 33.01 | 26.19 | -3.01 | -0.8 |
| EHT 80 | 5290 | Mcs0_Nss1 | -5 | -3.78 | 33.01 | 26.22 | -3.01 | -0.77 |
| EHT 160 | 5250 | Mcs0_Nss1 | -5 | -3.77 | 33.01 | 26.23 | -3.01 | -0.76 |

### 5.4.2 UNII-2C

**Nss>1 – Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 8 | 9.49 | 19.5 | 28.99 | 10.5 | -1.01 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 8 | 9.77 | 19.5 | 29.27 | 10.5 | -0.73 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 8 | 9.78 | 19.5 | 29.28 | 10.5 | -0.72 |
| EHT 20 | 5500 | Mcs0_Nss4 | 8 | 9.57 | 19.5 | 29.07 | 10.5 | -0.93 |
| EHT 20 | 5600 | Mcs0_Nss4 | 8 | 9.88 | 19.5 | 29.38 | 10.5 | -0.62 |
| EHT 20 | 5720 | Mcs0_Nss4 | 8 | 9.93 | 19.5 | 29.43 | 10.5 | -0.57 |
| EHT 40 | 5510 | Mcs0_Nss4 | 8 | 9.59 | 19.5 | 29.09 | 10.5 | -0.91 |
| EHT 40 | 5590 | Mcs0_Nss4 | 8 | 9.62 | 19.5 | 29.12 | 10.5 | -0.88 |
| EHT 40 | 5710 | Mcs0_Nss4 | 8 | 9.59 | 19.5 | 29.09 | 10.5 | -0.91 |
| EHT 80 | 5530 | Mcs0_Nss4 | 8 | 9.78 | 19.5 | 29.28 | 10.5 | -0.72 |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| EHT 80 | 5610 | Mcs0_Nss4 | 8 | 9.68 | 19.5 | 29.18 | 10.5 | -0.82 |
| EHT 80 | 5690 | Mcs0_Nss4 | 8 | 9.73 | 19.5 | 29.23 | 10.5 | -0.77 |
| EHT 160 | 5570 | Mcs0_Nss4 | 8 | 10.08 | 19.5 | 29.58 | 10.5 | -0.42 |
| EHT 240 | 5610 | Mcs0_Nss4 | 8 | 10.17 | 19.5 | 29.67 | 10.5 | -0.33 |

**Nss=1 – Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 5 | 6.49 | 22.51 | 25.99 | 7.49 | -1 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 5 | 6.77 | 22.51 | 26.27 | 7.49 | -0.72 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 5 | 6.78 | 22.51 | 26.28 | 7.49 | -0.71 |
| EHT 20 | 5500 | Mcs0_Nss1 | 5 | 6.57 | 22.51 | 26.07 | 7.49 | -0.92 |
| EHT 20 | 5600 | Mcs0_Nss1 | 5 | 6.88 | 22.51 | 26.38 | 7.49 | -0.61 |
| EHT 20 | 5720 | Mcs0_Nss1 | 5 | 6.93 | 22.51 | 26.43 | 7.49 | -0.56 |
| EHT 40 | 5510 | Mcs0_Nss1 | 5 | 6.59 | 22.51 | 26.09 | 7.49 | -0.9 |
| EHT 40 | 5590 | Mcs0_Nss1 | 5 | 6.62 | 22.51 | 26.12 | 7.49 | -0.87 |
| EHT 40 | 5710 | Mcs0_Nss1 | 5 | 6.59 | 22.51 | 26.09 | 7.49 | -0.9 |
| EHT 80 | 5530 | Mcs0_Nss1 | 5 | 6.78 | 22.51 | 26.28 | 7.49 | -0.71 |
| EHT 80 | 5610 | Mcs0_Nss1 | 5 | 6.68 | 22.51 | 26.18 | 7.49 | -0.81 |
| EHT 80 | 5690 | Mcs0_Nss1 | 5 | 6.73 | 22.51 | 26.23 | 7.49 | -0.76 |
| EHT 160 | 5570 | Mcs0_Nss1 | 5 | 7.08 | 22.51 | 26.58 | 7.49 | -0.41 |
| EHT 240 | 5610 | Mcs0_Nss1 | 5 | 7.17 | 22.51 | 26.67 | 7.49 | -0.32 |

### Nss>1 – Dish Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | -3 | -1.74 | 30.0 | 28.26 | 0.0 | -1.74 |
| OFDM 20 | 5600 | Mcs0_Nss4 | -3 | -1.43 | 30.0 | 28.57 | 0.0 | -1.43 |
| OFDM 20 | 5720 | Mcs0_Nss4 | -3 | -1.58 | 30.0 | 28.42 | 0.0 | -1.58 |
| EHT 20 | 5500 | Mcs0_Nss4 | -2 | -0.80 | 30.0 | 29.20 | 0.0 | -0.8 |
| EHT 20 | 5600 | Mcs0_Nss4 | -2 | -0.49 | 30.0 | 29.51 | 0.0 | -0.49 |
| EHT 20 | 5720 | Mcs0_Nss4 | -2 | -0.63 | 30.0 | 29.37 | 0.0 | -0.63 |
| EHT 40 | 5510 | Mcs0_Nss4 | -2 | -0.72 | 30.0 | 29.28 | 0.0 | -0.72 |
| EHT 40 | 5590 | Mcs0_Nss4 | -2 | -0.55 | 30.0 | 29.45 | 0.0 | -0.55 |
| EHT 40 | 5710 | Mcs0_Nss4 | -2 | -0.46 | 30.0 | 29.54 | 0.0 | -0.46 |
| EHT 80 | 5530 | Mcs0_Nss4 | -2 | -0.53 | 30.0 | 29.47 | 0.0 | -0.53 |
| EHT 80 | 5610 | Mcs0_Nss4 | -2 | -0.53 | 30.0 | 29.47 | 0.0 | -0.53 |
| EHT 80 | 5690 | Mcs0_Nss4 | -2 | -0.44 | 30.0 | 29.56 | 0.0 | -0.44 |
| EHT 160 | 5570 | Mcs0_Nss4 | -2 | -0.65 | 30.0 | 29.35 | 0.0 | -0.65 |
| EHT 240 | 5610 | Mcs0_Nss4 | -2 | -0.69 | 30.0 | 29.31 | 0.0 | -0.69 |

### Nss=1 – Dish Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | -6 | -4.74 | 33.01 | 25.26 | -3.01 | -1.73 |
| OFDM 20 | 5600 | Mcs0_Nss1 | -6 | -4.43 | 33.01 | 25.57 | -3.01 | -1.42 |
| OFDM 20 | 5720 | Mcs0_Nss1 | -6 | -4.58 | 33.01 | 25.42 | -3.01 | -1.57 |
| EHT 20 | 5500 | Mcs0_Nss1 | -5 | -3.80 | 33.01 | 26.20 | -3.01 | -0.79 |
| EHT 20 | 5600 | Mcs0_Nss1 | -5 | -3.49 | 33.01 | 26.51 | -3.01 | -0.48 |
| EHT 20 | 5720 | Mcs0_Nss1 | -5 | -3.63 | 33.01 | 26.37 | -3.01 | -0.62 |
| EHT 40 | 5510 | Mcs0_Nss1 | -5 | -3.72 | 33.01 | 26.28 | -3.01 | -0.71 |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Summed Output Power* (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|---|
| EHT 40 | 5590 | Mcs0_Nss1 | -5 | -3.55 | 33.01 | 26.45 | -3.01 | -0.54 |
| EHT 40 | 5710 | Mcs0_Nss1 | -5 | -3.46 | 33.01 | 26.54 | -3.01 | -0.45 |
| EHT 80 | 5530 | Mcs0_Nss1 | -5 | -3.53 | 33.01 | 26.47 | -3.01 | -0.52 |
| EHT 80 | 5610 | Mcs0_Nss1 | -5 | -3.53 | 33.01 | 26.47 | -3.01 | -0.52 |
| EHT 80 | 5690 | Mcs0_Nss1 | -5 | -3.44 | 33.01 | 26.56 | -3.01 | -0.43 |
| EHT 160 | 5570 | Mcs0_Nss1 | -5 | -3.65 | 33.01 | 26.35 | -3.01 | -0.64 |
| EHT 240 | 5610 | Mcs0_Nss1 | -5 | -3.69 | 33.01 | 26.31 | -3.01 | -0.68 |

## Result

In the configuration tested, the maximum average RF output power was less than 0.250 watt; therefore, the EUT complied with the requirements of the specification.

* Gated EIRP shown in the Annex is the conducted measurement.

# 5.5 §15.407(b) Spurious Emissions

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

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bans must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The "fail" is the transmitted signal exceeding the spurious limit.

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

## 5.5.2 UNII-2A – Horn

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 10.312 GHz | PK | 55.569 | 74 | -18.431 | 31 | 1.638 | Vertical | 9.488 |
| 15.796 GHz | PK | 63.14 | 74 | -10.86 | 179 | 1.643 | Vertical | 10.791 |
| 10.312 GHz | AV | 43.88 | 54 | -10.12 | 31 | 1.638 | Vertical | 9.488 |
| 15.796 GHz | AV | 45.865 | 54 | -8.135 | 179 | 1.643 | Vertical | 10.791 |
| 15.789 GHz | PK | 64.98 | 74 | -9.02 | 195 | 2.142 | Horizontal | 10.779 |
| 15.789 GHz | AV | 49.438 | 54 | -4.562 | 195 | 2.142 | Horizontal | 10.779 |
| 16.4964638 GHz | PK | 70.898 | 74 | -3.102 | 0 | 1.500 | Vertical | 2.948 |
| 16.4964638 GHz | AV | 52.473 | 54 | -1.527 | 0 | 1.500 | Vertical | 2.948 |
| 16.5122029 GHz | PK | 64.734 | 74 | -9.266 | 10 | 1.500 | Horizontal | 3.038 |
| 16.5122029 GHz | AV | 48.054 | 54 | -5.946 | 10 | 1.500 | Horizontal | 3.038 |

**Table 5: Transmitting on the Lowest Frequency 5260 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 15.846 GHz | PK | 64.73 | 74 | -9.27 | 181 | 1.638 | Vertical | 11.067 |
| 15.846 GHz | AV | 49.68 | 54 | -4.32 | 181 | 1.638 | Vertical | 11.067 |
| 15.853 GHz | PK | 67.846 | 74 | -6.154 | 174 | 1.5 | Horizontal | 11.076 |
| 15.853 GHz | AV | 50.252 | 54 | -3.748 | 174 | 1.5 | Horizontal | 11.076 |

**Table 6: Transmitting on the Middle Frequency 5280 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 15.953 GHz | PK | 64.105 | 74 | -9.895 | 169 | 1.5 | Vertical | 10.108 |
| 15.953 GHz | AV | 49.515 | 54 | -4.485 | 169 | 1.5 | Vertical | 10.108 |
| 15.965 GHz | PK | 62.009 | 74 | -11.991 | 185 | 1.5 | Horizontal | 10.082 |
| 15.965 GHz | AV | 47.723 | 54 | -6.277 | 185 | 1.5 | Horizontal | 10.082 |

**Table 7: Transmitting on the Highest Frequency 5320 MHz**

### 5.5.3 UNII-2A – Dish

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 21.0492135 GHz | PK | 63.119 | 74 | -10.881 | 255 | 1.500 | Vertical | 1.09 |
| 21.0492135 GHz | AV | 48.96 | 54 | -5.04 | 255 | 1.500 | Vertical | 1.09 |
| 21.0555461 GHz | PK | 62.599 | 74 | -11.401 | 136 | 1.500 | Horizontal | 1.177 |
| 21.0555461 GHz | AV | 46.436 | 54 | -7.564 | 136 | 1.500 | Horizontal | 1.177 |
| 10.523 GHz | PK | 61.694 | 74 | -12.306 | 26 | 1.638 | Vertical | 10.213 |
| 15.79 GHz | PK | 60.551 | 74 | -13.449 | 321 | 3.798 | Vertical | 11.009 |
| 10.523 GHz | AV | 48.968 | 54 | -5.032 | 26 | 1.638 | Vertical | 10.213 |
| 15.79 GHz | AV | 47.552 | 54 | -6.448 | 321 | 3.798 | Vertical | 11.009 |
| 10.522 GHz | PK | 63.022 | 74 | -10.978 | 26 | 1.638 | Horizontal | 10.21 |
| 15.785 GHz | PK | 63.998 | 74 | -10.002 | 318 | 3.311 | Horizontal | 11.002 |
| 10.522 GHz | AV | 49.613 | 54 | -4.387 | 26 | 1.638 | Horizontal | 10.21 |
| 15.785 GHz | AV | 50.884 | 54 | -3.116 | 318 | 3.311 | Horizontal | 11.002 |

**Table 8: Transmitting on the Lowest Frequency 5260 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 10.554 GHz | PK | 53.911 | 74 | -20.089 | 79 | 2.329 | Vertical | 10.28 |
| 15.842 GHz | PK | 58.012 | 74 | -15.988 | 319 | 3.307 | Vertical | 11.252 |
| 10.554 GHz | AV | 41.198 | 54 | -12.802 | 79 | 2.329 | Vertical | 10.28 |
| 15.842 GHz | AV | 44.709 | 54 | -9.291 | 319 | 3.307 | Vertical | 11.252 |
| 10.56 GHz | PK | 54.038 | 74 | -19.962 | 142 | 1.643 | Horizontal | 10.275 |
| 15.849 GHz | PK | 61.848 | 74 | -12.152 | 87 | 3.798 | Horizontal | 11.29 |
| 10.56 GHz | AV | 41.222 | 54 | -12.778 | 142 | 1.643 | Horizontal | 10.275 |
| 15.849 GHz | AV | 48.249 | 54 | -5.751 | 87 | 3.798 | Horizontal | 11.29 |
| 21.1147609 GHz | PK | 62.012 | 74 | -11.988 | 243 | 1.500 | Vertical | 1.829 |
| 21.1147609 GHz | AV | 47.673 | 54 | -6.327 | 243 | 1.500 | Vertical | 1.829 |
| 21.1156503 GHz | PK | 63.898 | 74 | -10.102 | 148 | 1.500 | Horizontal | 1.83 |
| 21.1156503 GHz | AV | 49.33 | 54 | -4.67 | 148 | 1.500 | Horizontal | 1.83 |

**Table 9: Transmitting on the Middle Frequency 5280 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 10.633 GHz | PK | 54.888 | 74 | -19.112 | 29 | 1.638 | Vertical | 10.189 |
| 15.957 GHz | PK | 62.638 | 74 | -11.362 | 327 | 3.798 | Vertical | 10.263 |
| 10.633 GHz | AV | 40.992 | 54 | -13.008 | 29 | 1.638 | Vertical | 10.189 |
| 15.957 GHz | AV | 50.579 | 54 | -3.421 | 327 | 3.798 | Vertical | 10.263 |
| 10.649 GHz | PK | 53.904 | 74 | -20.096 | 24 | 1.643 | Horizontal | 10.163 |
| 15.951 GHz | PK | 67.956 | 74 | -6.044 | 18 | 2.133 | Horizontal | 10.279 |
| 10.649 GHz | AV | 40.741 | 54 | -13.259 | 24 | 1.643 | Horizontal | 10.163 |
| 15.951 GHz | AV | 52.866 | 54 | -1.134 | 18 | 2.133 | Horizontal | 10.279 |
| 16.0015022 GHz | PK | 63.579 | 74 | -10.421 | 3 | 1.500 | Vertical | 3.46 |
| 21.2727366 GHz | AV | 65.597 | 74 | -8.403 | 133 | 1.500 | Vertical | 1.995 |
| 16.0015022 GHz | PK | 44.067 | 54 | -9.933 | 3 | 1.500 | Vertical | 3.46 |
| 21.2727366 GHz | AV | 51.082 | 54 | -2.918 | 133 | 1.500 | Vertical | 1.995 |

**Table 10: Transmitting on the Highest Frequency 5320 MHz**

### 5.5.4 UNII-2C – Horn

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 10.94 GHz | PK | 56.121 | 74 | -17.879 | 209 | 1.5 | Vertical | 11.807 |
| 16.499 GHz | PK | 68.105 | 74 | -5.895 | 177 | 1.643 | Vertical | 12.583 |
| 10.94 GHz | AV | 42.591 | 54 | -11.409 | 209 | 1.5 | Vertical | 11.807 |
| 16.499 GHz | AV | 52.27 | 54 | -1.73 | 177 | 1.643 | Vertical | 12.583 |
| 16.494 GHz | PK | 65.415 | 74 | -8.585 | 180 | 2.146 | Horizontal | 12.537 |
| 16.494 GHz | AV | 50.327 | 54 | -3.673 | 180 | 2.146 | Horizontal | 12.537 |

**Table 11: Transmitting on the Lowest Frequency 5500 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 16.816 GHz | PK | 68.293 | 74 | -5.707 | 176 | 1.643 | Vertical | 13.23 |
| 16.816 GHz | AV | 50.339 | 54 | -3.661 | 176 | 1.643 | Vertical | 13.23 |
| 16.786 GHz | PK | 67.707 | 74 | -6.293 | 183 | 2.646 | Horizontal | 13.178 |
| 16.786 GHz | AV | 50.735 | 54 | -3.265 | 183 | 2.646 | Horizontal | 13.178 |
| 29.773 GHz | PK | 52.29 | 74 | -21.71 | 111 | 1.500 | Horizontal | 0.14 |
| 29.773 GHz | AV | 39.254 | 54 | -14.746 | 111 | 1.500 | Horizontal | 0.14 |

**Table 12: Transmitting on the Middle Frequency 5600 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 11.443 GHz | PK | 54.964 | 74 | -19.036 | 120 | 3.798 | Vertical | 10.651 |
| 11.443 GHz | AV | 41.439 | 54 | -12.561 | 120 | 3.798 | Vertical | 10.651 |
| 11.433 GHz | PK | 54.539 | 74 | -19.461 | 268 | 3.802 | Horizontal | 10.565 |
| 11.433 GHz | AV | 41.657 | 54 | -12.343 | 268 | 3.802 | Horizontal | 10.565 |
| 17.163 GHz | PK | 65.088 | 74 | -8.912 | 355 | 1.500 | Vertical | -0.903 |
| 17.163 GHz | AV | 49.974 | 54 | -4.026 | 355 | 1.500 | Vertical | -0.903 |
| 17.165 GHz | PK | 65.888 | 74 | -8.112 | 2 | 1.500 | Horizontal | -0.918 |
| 17.165 GHz | AV | 50.772 | 54 | -3.228 | 2 | 1.500 | Horizontal | -0.918 |

**Table 13: Transmitting on the Highest Frequency 5720 MHz**

### 5.5.5 UNII-2C – Dish

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 10.996 GHz | PK | 55.02 | 74 | -18.98 | 26 | 3.798 | Vertical | 11.428 |
| 16.503 GHz | PK | 63.984 | 74 | -10.016 | 195 | 2.146 | Vertical | 12.796 |
| 10.986 GHz | AV | 42.189 | 54 | -11.811 | 35 | 3.798 | Vertical | 11.428 |
| 16.503 GHz | AV | 49.244 | 54 | -4.756 | 195 | 2.146 | Vertical | 12.796 |
| 11.008 GHz | PK | 54.339 | 74 | -19.661 | 267 | 3.798 | Horizontal | 11.278 |
| 16.503 GHz | PK | 54.495 | 74 | -19.505 | 252 | 1.5 | Horizontal | 12.796 |
| 11.008 GHz | AV | 41.49 | 54 | -12.51 | 267 | 3.798 | Horizontal | 11.278 |
| 16.503 GHz | AV | 41.206 | 54 | -12.794 | 252 | 1.5 | Horizontal | 12.796 |

**Table 14: Transmitting on the Lowest Frequency 5500 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 11.199 GHz | PK | 55.367 | 74 | -18.633 | 108 | 1.5 | Vertical | 10.449 |
| 16.799 GHz | PK | 63.366 | 74 | -10.634 | 21 | 2.132 | Vertical | 13.291 |
| 11.199 GHz | AV | 41.734 | 54 | -12.266 | 108 | 1.5 | Vertical | 10.449 |
| 16.799 GHz | AV | 48.849 | 54 | -5.151 | 26 | 2.133 | Vertical | 13.291 |

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 16.811 GHz | PK | 68.774 | 74 | -5.226 | 24 | 1.842 | Horizontal | 13.338 |
| 16.811 GHz | AV | 52.651 | 54 | -1.349 | 24 | 1.842 | Horizontal | 13.338 |
| 16.7985606 GHz | PK | 66.066 | 74 | -7.934 | 1 | 1.500 | Vertical | 1.927 |
| 16.7985606 GHz | AV | 50.927 | 54 | -3.073 | 1 | 1.500 | Vertical | 1.927 |
| 16.7962138 GHz | PK | 69.048 | 74 | -4.952 | 3 | 1.500 | Horizontal | 1.945 |
| 16.7962138 GHz | AV | 53.048 | 54 | -0.952 | 3 | 1.500 | Horizontal | 1.945 |

**Table 15: Transmitting on the Middle Frequency 5600 MHz**

| Frequency | Det. | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Azimuth (°) | Height (m) | Pol. | Correction (dB) |
|---|---|---|---|---|---|---|---|---|
| 11.453 GHz | 1 | 54.733 | 74 | -19.267 | 196 | 2.334 | Vertical | 10.877 |
| 11.456 GHz | 1 | 41.948 | 54 | -12.052 | 30 | 1.632 | Vertical | 10.877 |
| 11.442 GHz | 2 | 54.902 | 74 | -19.098 | 239 | 3.81 | Horizontal | 10.79 |
| 11.442 GHz | 2 | 41.474 | 54 | -12.526 | 239 | 3.81 | Horizontal | 10.79 |
| 17.1564344 GHz | 1 | 60.78 | 74 | -13.22 | 3 | 1.500 | Vertical | 2.052 |
| 17.1564344 GHz | 1 | 46.072 | 54 | -7.928 | 3 | 1.500 | Vertical | 2.052 |
| 17.1549056 GHz | 2 | 61.394 | 74 | -12.606 | 3 | 1.500 | Horizontal | 2.062 |
| 17.1549056 GHz | 2 | 46.044 | 54 | -7.956 | 3 | 1.500 | Horizontal | 2.062 |

**Table 16: Transmitting on the Highest Frequency 5720 MHz**

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

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission. Results of this testing are summarized. With a 6 dBi antenna, the conducted limit for power spectral density is 11 dBm. If transmitting antennas of directional gain greater than 6 dBi are used the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the Horn antenna the limit is -2.5dBm and for the Dish antenna the limit is -13dBm.

See Section 2.2 for directional gain calculation.

Results of this testing are summarized.

### 5.6.1 UNII-2A

**Nss>1 – Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss2 | 8 | -2.78 | 19.5 | -2.5 | -0.28 |
| OFDM 20 | 5280 | Mcs0_Nss2 | 8 | -2.89 | 19.5 | -2.5 | -0.39 |
| OFDM 20 | 5320 | Mcs0_Nss2 | 8 | -2.71 | 19.5 | -2.5 | -0.21 |
| EHT 20 | 5260 | Mcs0_Nss2 | 8 | -3.42 | 19.5 | -2.5 | -0.92 |
| EHT 20 | 5280 | Mcs0_Nss2 | 8 | -3.57 | 19.5 | -2.5 | -1.07 |
| EHT 20 | 5320 | Mcs0_Nss2 | 8 | -3.38 | 19.5 | -2.5 | -0.88 |
| EHT 40 | 5270 | Mcs0_Nss2 | 8 | -6.69 | 19.5 | -2.5 | -4.19 |
| EHT 40 | 5310 | Mcs0_Nss2 | 8 | -6.75 | 19.5 | -2.5 | -4.25 |
| EHT 80 | 5290 | Mcs0_Nss2 | 8 | -9.74 | 19.5 | -2.5 | -7.24 |
| EHT 160 | 5250 | Mcs0_Nss2 | 8 | -11.83 | 19.5 | -2.5 | -9.33 |

**Nss=1 Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | 5 | -5.78 | 22.51 | -5.51 | -0.27 |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5280 | Mcs0_Nss1 | 5 | -5.89 | 22.51 | -5.51 | -0.38 |
| OFDM 20 | 5320 | Mcs0_Nss1 | 5 | -5.71 | 22.51 | -5.51 | -0.2 |
| EHT 20 | 5260 | Mcs0_Nss1 | 5 | -6.42 | 22.51 | -5.51 | -0.91 |
| EHT 20 | 5280 | Mcs0_Nss1 | 5 | -6.57 | 22.51 | -5.51 | -1.06 |
| EHT 20 | 5320 | Mcs0_Nss1 | 5 | -6.38 | 22.51 | -5.51 | -0.87 |
| EHT 40 | 5270 | Mcs0_Nss1 | 6 | -8.69 | 22.51 | -5.51 | -3.18 |
| EHT 40 | 5310 | Mcs0_Nss1 | 5 | -9.75 | 22.51 | -5.51 | -4.24 |
| EHT 80 | 5290 | Mcs0_Nss1 | 5 | -12.74 | 22.51 | -5.51 | -7.23 |
| EHT 160 | 5250 | Mcs0_Nss1 | 5 | -14.83 | 22.51 | -5.51 | -9.32 |

**Nss>1 – Dish Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss2 | -3 | -13.90 | 30.0 | -13.0 | -0.9 |
| OFDM 20 | 5280 | Mcs0_Nss2 | -2 | -13.20 | 30.0 | -13.0 | -0.2 |
| OFDM 20 | 5320 | Mcs0_Nss2 | -2 | -13.07 | 30.0 | -13.0 | -0.07 |
| EHT 20 | 5260 | Mcs0_Nss2 | -2 | -13.66 | 30.0 | -13.0 | -0.66 |
| EHT 20 | 5280 | Mcs0_Nss2 | -2 | -14.03 | 30.0 | -13.0 | -1.03 |
| EHT 20 | 5320 | Mcs0_Nss2 | -2 | -13.87 | 30.0 | -13.0 | -0.87 |
| EHT 40 | 5270 | Mcs0_Nss2 | -2 | -16.77 | 30.0 | -13.0 | -3.77 |
| EHT 40 | 5310 | Mcs0_Nss2 | -2 | -17.03 | 30.0 | -13.0 | -4.03 |
| EHT 80 | 5290 | Mcs0_Nss2 | -2 | -19.96 | 30.0 | -13.0 | -6.96 |
| EHT 160 | 5250 | Mcs0_Nss2 | -2 | -22.63 | 30.0 | -13.0 | -9.63 |

**Nss=1 Dish Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5260 | Mcs0_Nss1 | -6 | -16.90 | 33.01 | -16.01 | -0.89 |
| OFDM 20 | 5280 | Mcs0_Nss1 | -5 | -16.20 | 33.01 | -16.01 | -0.19 |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5320 | Mcs0_Nss1 | -5 | -16.07 | 33.01 | -16.01 | -0.06 |
| EHT 20 | 5260 | Mcs0_Nss1 | -5 | -16.66 | 33.01 | -16.01 | -0.65 |
| EHT 20 | 5280 | Mcs0_Nss1 | -5 | -17.03 | 33.01 | -16.01 | -1.02 |
| EHT 20 | 5320 | Mcs0_Nss1 | -5 | -16.87 | 33.01 | -16.01 | -0.86 |
| EHT 40 | 5270 | Mcs0_Nss1 | -5 | -19.77 | 33.01 | -16.01 | -3.76 |
| EHT 40 | 5310 | Mcs0_Nss1 | -5 | -20.03 | 33.01 | -16.01 | -4.02 |
| EHT 80 | 5290 | Mcs0_Nss1 | -5 | -22.96 | 33.01 | -16.01 | -6.95 |
| EHT 160 | 5250 | Mcs0_Nss1 | -5 | -25.63 | 33.01 | -16.01 | -9.62 |

### 5.6.2 UNII-2C

**Nss>1 – Horn Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | 8 | -2.83 | 19.5 | -2.5 | -0.33 |
| OFDM 20 | 5600 | Mcs0_Nss4 | 8 | -2.52 | 19.5 | -2.5 | -0.02 |
| OFDM 20 | 5720 | Mcs0_Nss4 | 8 | -2.69 | 19.5 | -2.5 | -0.19 |
| EHT 20 | 5500 | Mcs0_Nss4 | 8 | -3.26 | 19.5 | -2.5 | -0.76 |
| EHT 20 | 5600 | Mcs0_Nss4 | 8 | -2.97 | 19.5 | -2.5 | -0.47 |
| EHT 20 | 5720 | Mcs0_Nss4 | 8 | -3.06 | 19.5 | -2.5 | -0.56 |
| EHT 40 | 5510 | Mcs0_Nss4 | 8 | -6.33 | 19.5 | -2.5 | -3.83 |
| EHT 40 | 5590 | Mcs0_Nss4 | 8 | -6.16 | 19.5 | -2.5 | -3.66 |
| EHT 40 | 5710 | Mcs0_Nss4 | 8 | -6.50 | 19.5 | -2.5 | -4 |
| EHT 80 | 5530 | Mcs0_Nss4 | 8 | -9.09 | 19.5 | -2.5 | -6.59 |
| EHT 80 | 5610 | Mcs0_Nss4 | 8 | -9.22 | 19.5 | -2.5 | -6.72 |
| EHT 80 | 5690 | Mcs0_Nss4 | 8 | -9.13 | 19.5 | -2.5 | -6.63 |
| EHT 160 | 5570 | Mcs0_Nss4 | 8 | -11.70 | 19.5 | -2.5 | -9.2 |
| EHT 240 | 5610 | Mcs0_Nss4 | 8 | -13.20 | 19.5 | -2.5 | -10.7 |

### Nss=1 – Horn Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | 5 | -5.83 | 22.51 | -5.51 | -0.32 |
| OFDM 20 | 5600 | Mcs0_Nss1 | 5 | -5.52 | 22.51 | -5.51 | -0.01 |
| OFDM 20 | 5720 | Mcs0_Nss1 | 5 | -5.69 | 22.51 | -5.51 | -0.18 |
| EHT 20 | 5500 | Mcs0_Nss1 | 5 | -6.26 | 22.51 | -5.51 | -0.75 |
| EHT 20 | 5600 | Mcs0_Nss1 | 5 | -5.97 | 22.51 | -5.51 | -0.46 |
| EHT 20 | 5720 | Mcs0_Nss1 | 5 | -6.06 | 22.51 | -5.51 | -0.55 |
| EHT 40 | 5510 | Mcs0_Nss1 | 5 | -9.33 | 22.51 | -5.51 | -3.82 |
| EHT 40 | 5590 | Mcs0_Nss1 | 5 | -9.16 | 22.51 | -5.51 | -3.65 |
| EHT 40 | 5710 | Mcs0_Nss1 | 5 | -9.50 | 22.51 | -5.51 | -3.99 |
| EHT 80 | 5530 | Mcs0_Nss1 | 5 | -12.09 | 22.51 | -5.51 | -6.58 |
| EHT 80 | 5610 | Mcs0_Nss1 | 5 | -12.22 | 22.51 | -5.51 | -6.71 |
| EHT 80 | 5690 | Mcs0_Nss1 | 5 | -12.13 | 22.51 | -5.51 | -6.62 |
| EHT 160 | 5570 | Mcs0_Nss1 | 5 | -14.70 | 22.51 | -5.51 | -9.19 |
| EHT 240 | 5610 | Mcs0_Nss1 | 5 | -16.20 | 22.51 | -5.51 | -10.69 |

### Nss>1 – Dish Antenna

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss4 | -3 | -13.99 | 30.0 | -13.0 | -0.99 |
| OFDM 20 | 5600 | Mcs0_Nss4 | -3 | -13.71 | 30.0 | -13.0 | -0.71 |
| OFDM 20 | 5720 | Mcs0_Nss4 | -3 | -14.01 | 30.0 | -13.0 | -1.01 |
| EHT 20 | 5500 | Mcs0_Nss4 | -2 | -13.62 | 30.0 | -13.0 | -0.62 |
| EHT 20 | 5600 | Mcs0_Nss4 | -2 | -13.37 | 30.0 | -13.0 | -0.37 |
| EHT 20 | 5720 | Mcs0_Nss4 | -2 | -13.58 | 30.0 | -13.0 | -0.58 |
| EHT 40 | 5510 | Mcs0_Nss4 | -2 | -16.60 | 30.0 | -13.0 | -3.6 |
| EHT 40 | 5590 | Mcs0_Nss4 | -2 | -16.22 | 30.0 | -13.0 | -3.22 |
| EHT 40 | 5710 | Mcs0_Nss4 | -2 | -16.59 | 30.0 | -13.0 | -3.59 |
| EHT 80 | 5530 | Mcs0_Nss4 | -2 | -19.45 | 30.0 | -13.0 | -6.45 |

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| EHT 80 | 5610 | Mcs0_Nss4 | -2 | -19.49 | 30.0 | -13.0 | -6.49 |
| EHT 80 | 5690 | Mcs0_Nss4 | -2 | -19.25 | 30.0 | -13.0 | -6.25 |
| EHT 160 | 5570 | Mcs0_Nss4 | -2 | -22.45 | 30.0 | -13.0 | -9.45 |
| EHT 240 | 5610 | Mcs0_Nss4 | -2 | -23.95 | 30.0 | -13.0 | -10.95 |

**Nss=1 – Dish Antenna**

| Modulation (BW) | Frequency (MHz) | Data Rate | TP Setting | Total Sum PSD EIRP (dBm) | Antenna Gain (dBi) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|---|---|---|
| OFDM 20 | 5500 | Mcs0_Nss1 | -5 | -16.99 | 33.01 | -16.01 | -0.98 |
| OFDM 20 | 5600 | Mcs0_Nss1 | -5 | -16.71 | 33.01 | -16.01 | -0.7 |
| OFDM 20 | 5720 | Mcs0_Nss1 | -5 | -17.01 | 33.01 | -16.01 | -1 |
| EHT 20 | 5500 | Mcs0_Nss1 | -5 | -16.62 | 33.01 | -16.01 | -0.61 |
| EHT 20 | 5600 | Mcs0_Nss1 | -5 | -16.37 | 33.01 | -16.01 | -0.36 |
| EHT 20 | 5720 | Mcs0_Nss1 | -5 | -16.58 | 33.01 | -16.01 | -0.57 |
| EHT 40 | 5510 | Mcs0_Nss1 | -5 | -19.60 | 33.01 | -16.01 | -3.59 |
| EHT 40 | 5590 | Mcs0_Nss1 | -5 | -19.22 | 33.01 | -16.01 | -3.21 |
| EHT 40 | 5710 | Mcs0_Nss1 | -5 | -19.59 | 33.01 | -16.01 | -3.58 |
| EHT 80 | 5530 | Mcs0_Nss1 | -5 | -22.45 | 33.01 | -16.01 | -6.44 |
| EHT 80 | 5610 | Mcs0_Nss1 | -5 | -22.49 | 33.01 | -16.01 | -6.48 |
| EHT 80 | 5690 | Mcs0_Nss1 | -5 | -22.25 | 33.01 | -16.01 | -6.24 |
| EHT 160 | 5570 | Mcs0_Nss1 | -5 | -25.45 | 33.01 | -16.01 | -9.44 |
| EHT 240 | 5610 | Mcs0_Nss1 | -5 | -26.95 | 33.01 | -16.01 | -10.94 |

**Result**

The maximum average power spectral density was less than the limit of 11 dBm; therefore, the EUT complies with the specification.

## 5.7 DFS Requirement

This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

The product passes all required DFS tests for a master with radar detection.

| Information | Status |
|---|---|
| Possible Antenna/s | Dish 30 dBi / Dish 26 dBi / Horn 19.5dBi |
| Antenna used for test | Chain 0 / Chain 1 |
| Operating mode | Master |
| If Client | N/A |
| Port used for testing | Chain 0 / Chain 1 |
| EIRP range | > 200 milliwatts |
| Impedance of port | 50 ohms |
| Channel loading technique | Data transfer was enacted to achieve a minimum channel loading of approximately 17% |
| Antenna measurement technique | See note 1 |
| Time of power-on cycle | 25s |
| Detection threshold level | -53 dBm |

| Requirement | Operational Mode | | |
|---|---|---|---|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| *Non-Occupancy Period* | Yes | Not Required | Yes |
| *DFS Detection Threshold* | Yes | Not Required | Yes |
| *Channel Availability Check Time* | Yes | Not Required | Not Required |
| *U-NII Detection Bandwidth* | Yes | Not Required | Yes |

| Requirement | Operational Mode | |
|---|---|---|
| | Master or Client Client Without Radar Detection | Client Without Radar Detection |
| *DFS Detection Threshold* | Yes | Not Required |
| *Channel Closing Transmission Time* | Yes | Yes |
| *Channel Move Time* | Yes | Yes |
| *U-NII Detection Bandwidth* | Yes | Not Required |

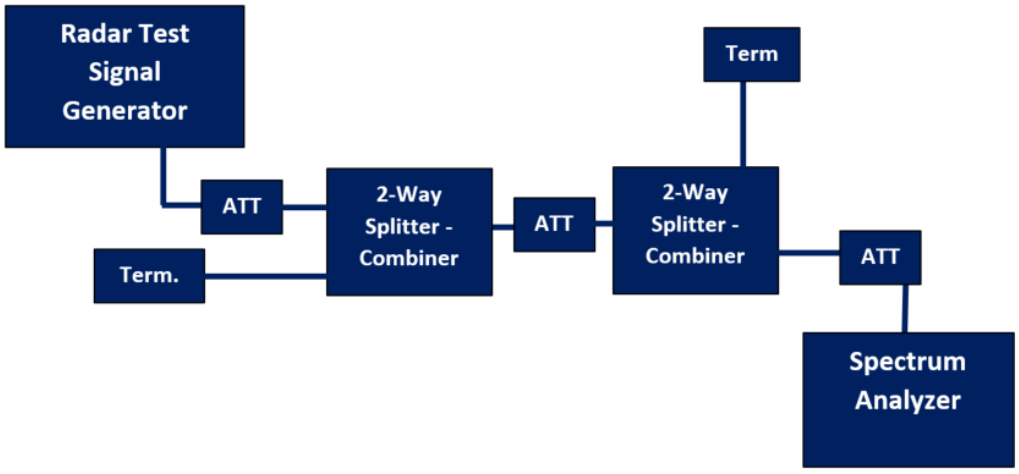



**Figure 6: DFS injection at Master conducted setup**

| Parameter | Value |
|---|---|
| *Non-occupancy period* | Minimum 30 minutes |
| *Channel Availability Check Time* | 60 seconds |
| *Channel Move Time* | 10 seconds<br>See Note 1. |
| *Channel Closing Transmission Time* | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| *U-NII Detection Bandwidth* | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3. |
| **Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.<br>**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.<br>**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. | |

**Table 17: DFS Timing requirements**

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) |
|---|---|
| EIRP ≥ 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |
| **Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01. | |

**Table 18: DFS Detection Threshold**

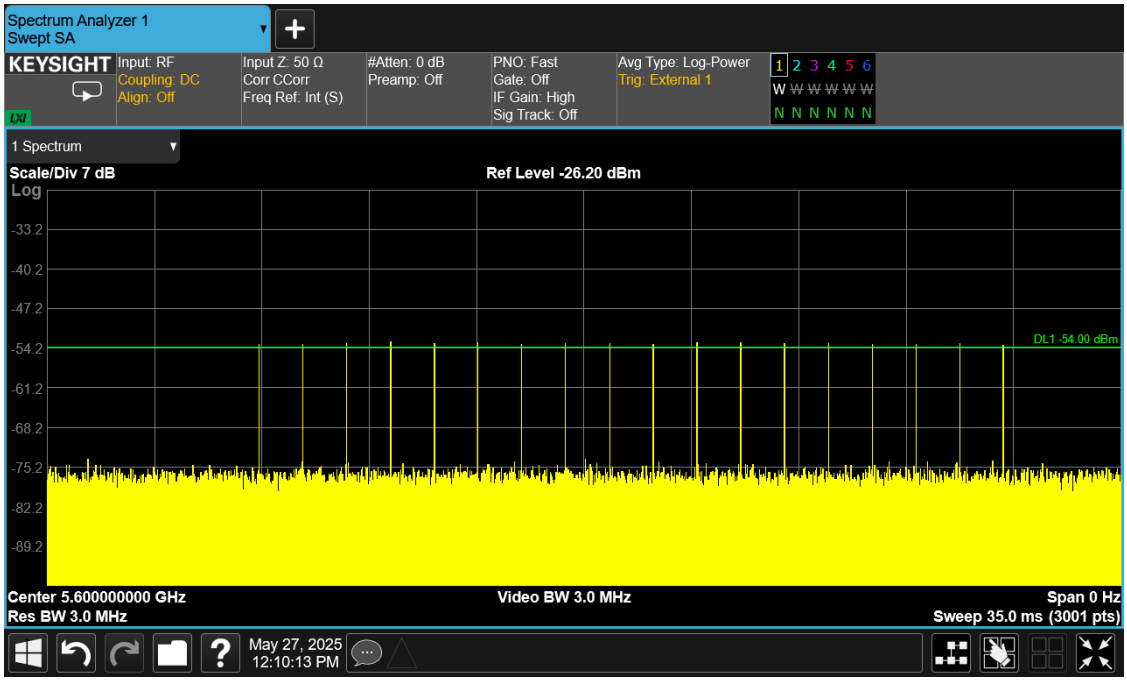
| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---|---|---|---|---|---|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 |
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 60% | 30 |
| | | Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |
| **Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. | | | | | |

**Table 19: Short Pulse Radar Types**

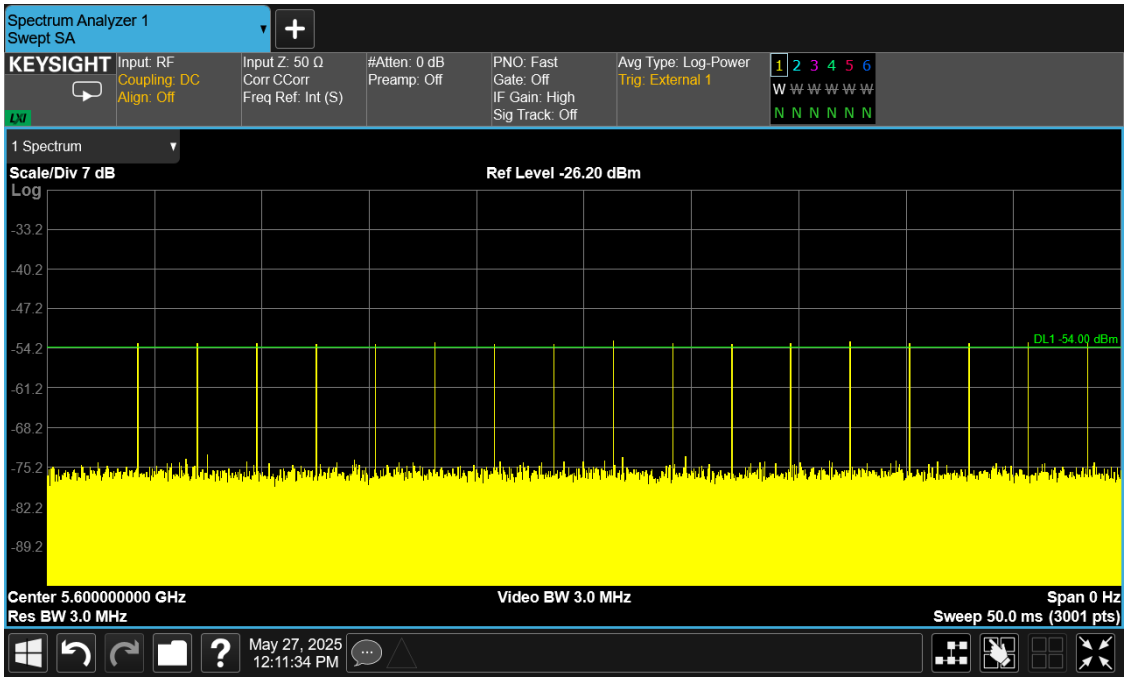
| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per *Burst* | Number of *Bursts* | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

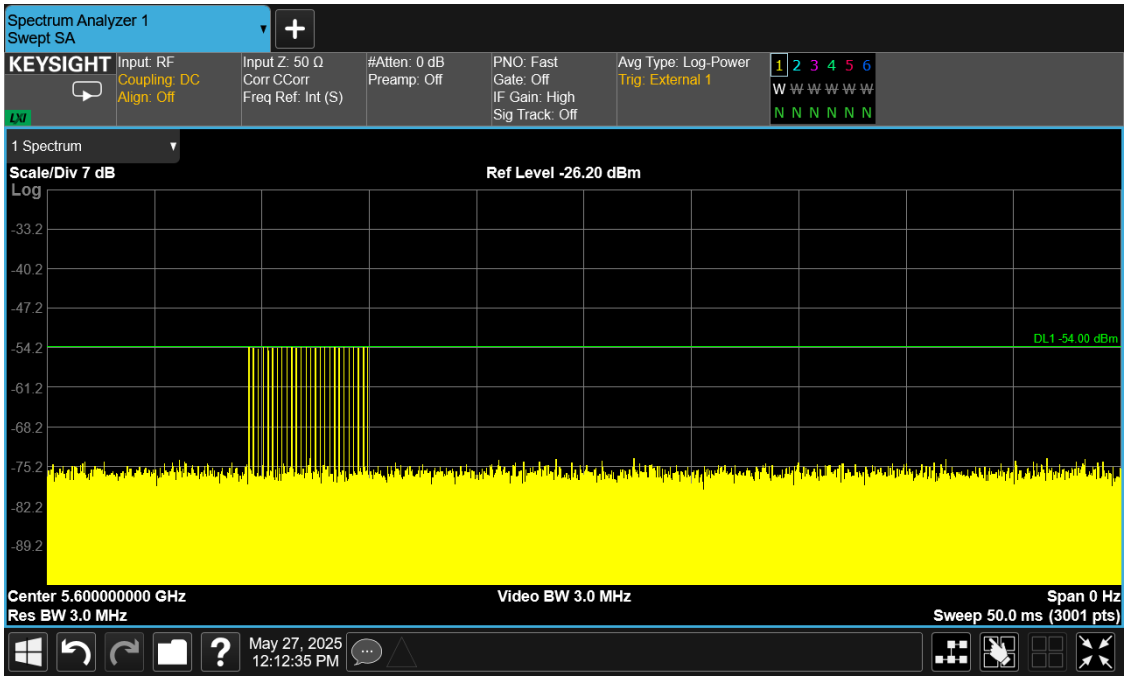
**Table 20: Long Pulse Radar Types for In-service Monitoring**



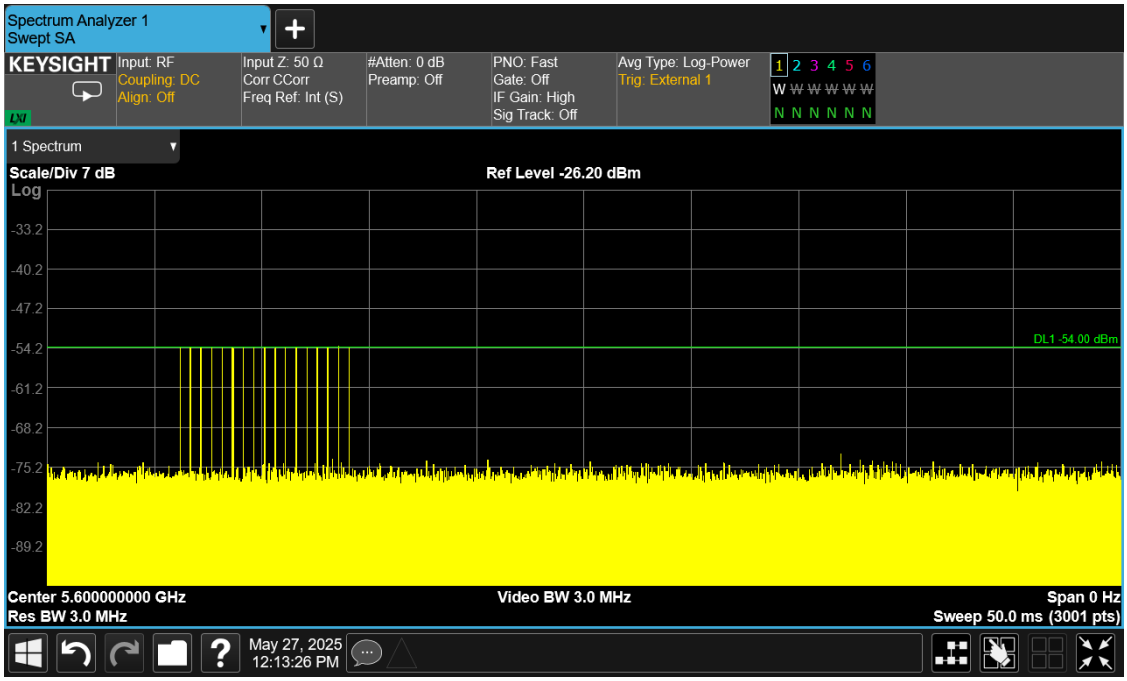

**Plot 1: Radar Level 0**



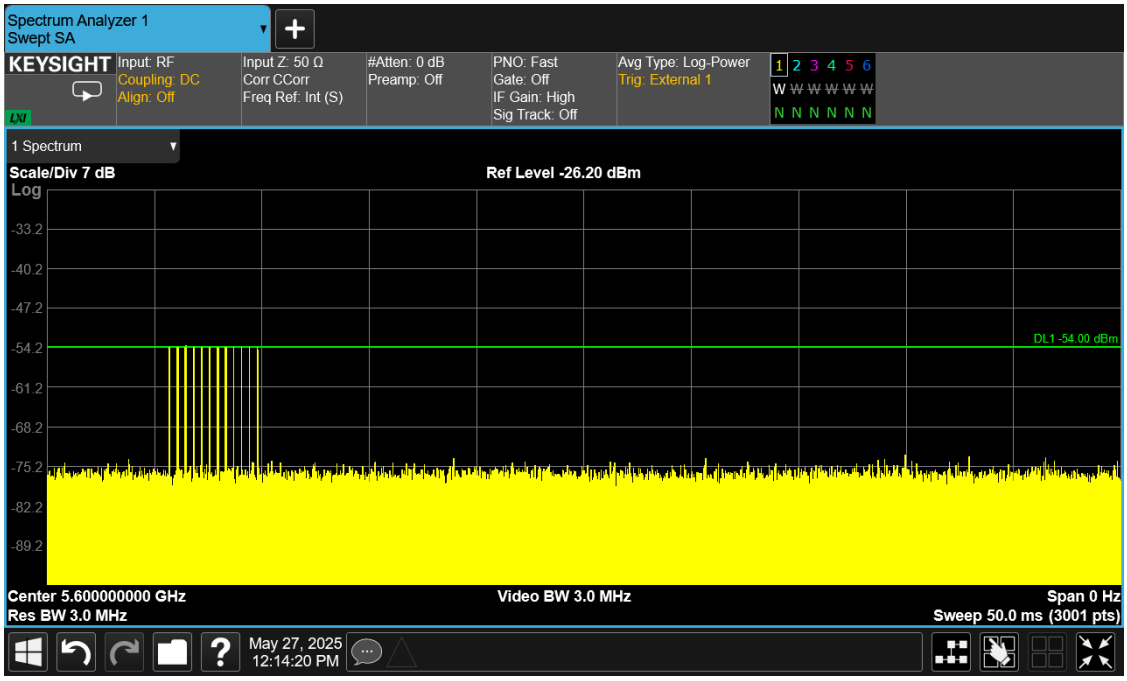

**Plot 2: Radar Level 1**



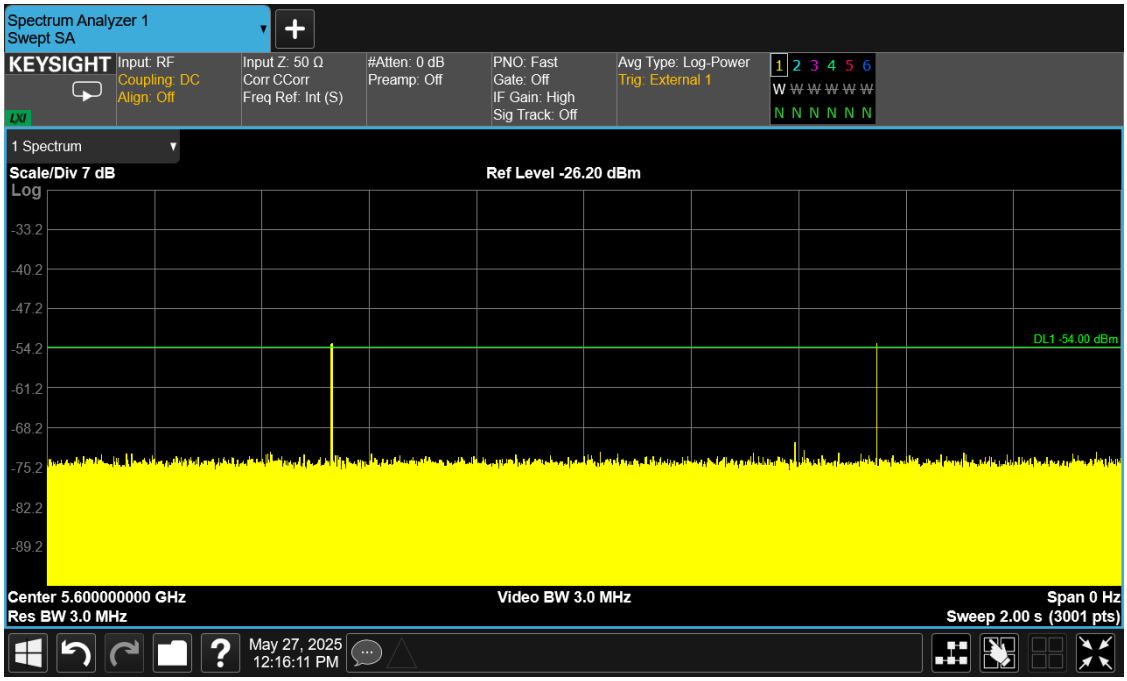

**Plot 3: Radar Level 2**



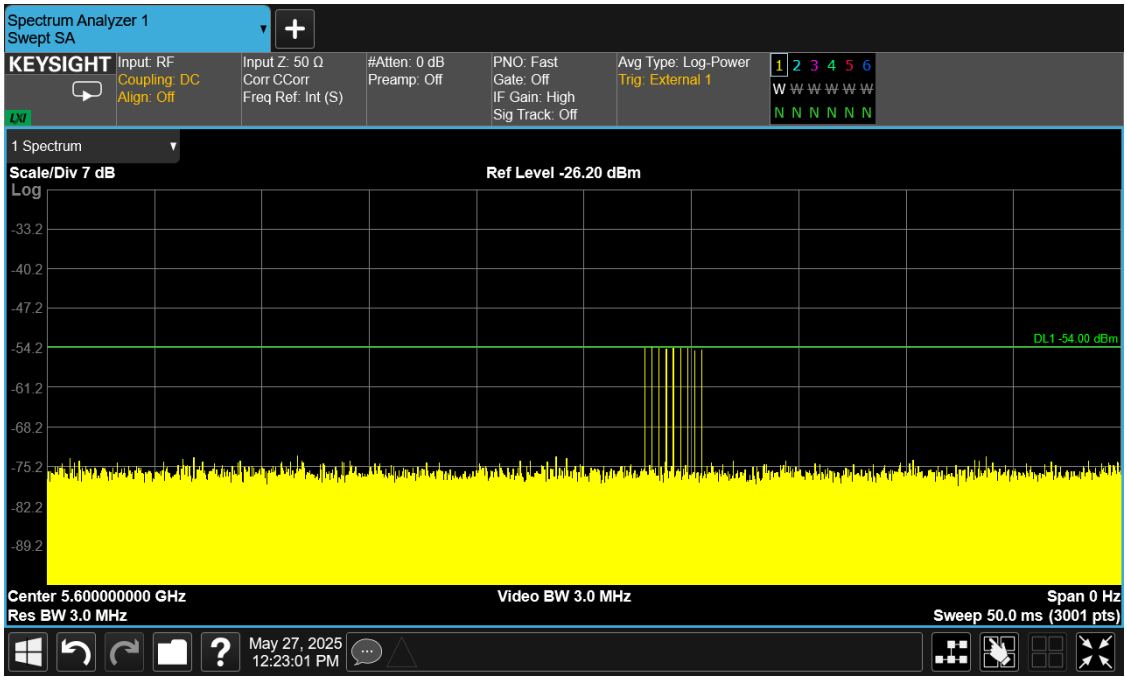

**Plot 4: Radar Level 3**




**Plot 5: Radar Level 4**




**Plot 6: Radar Level 5**




**Plot 7: Radar Level 6**

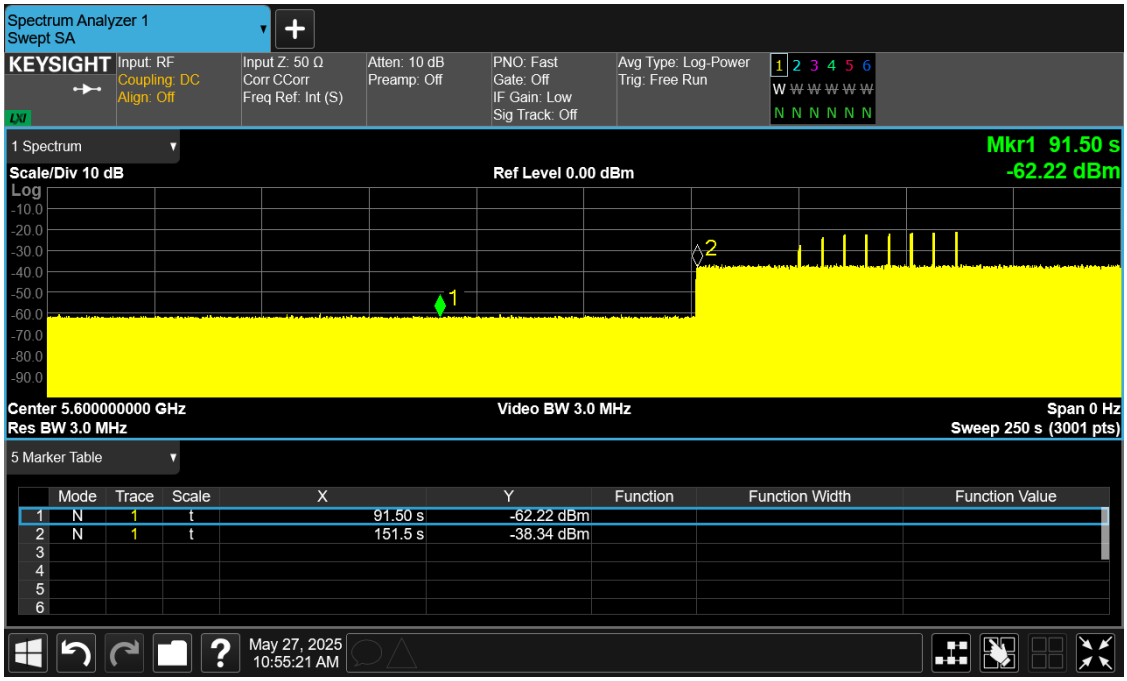
### 5.7.1 Channel Availability Check (CAC)

The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-east 1 minute shall be monitored on the intended operating frequency. For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots indicate initial beacons.

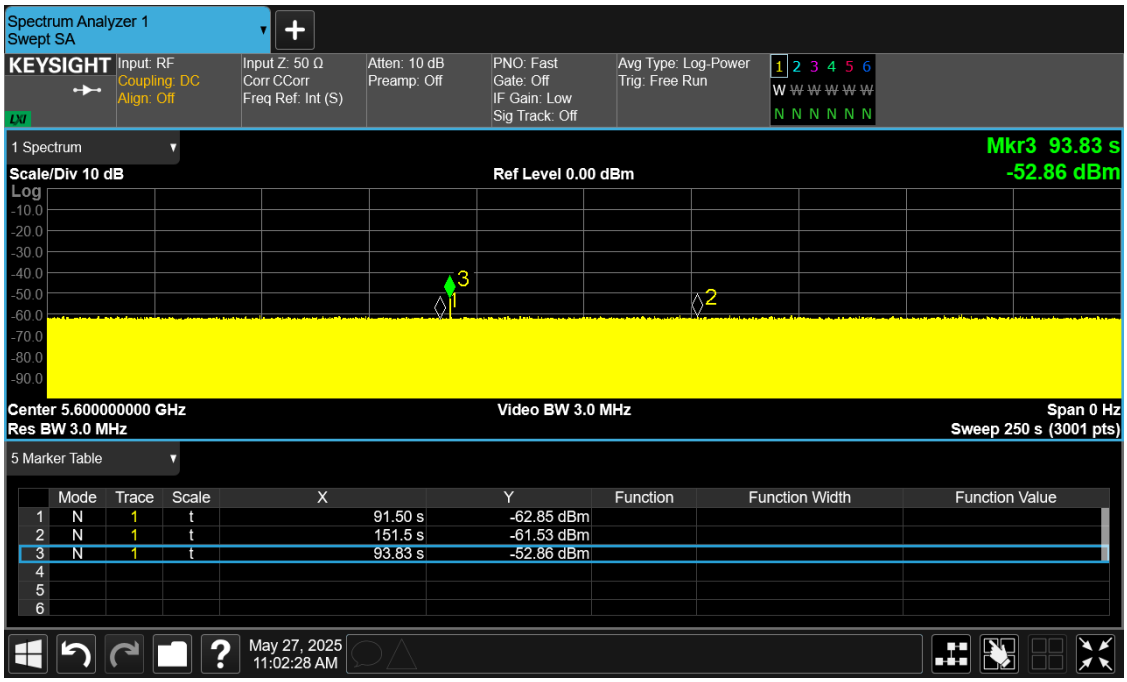
For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

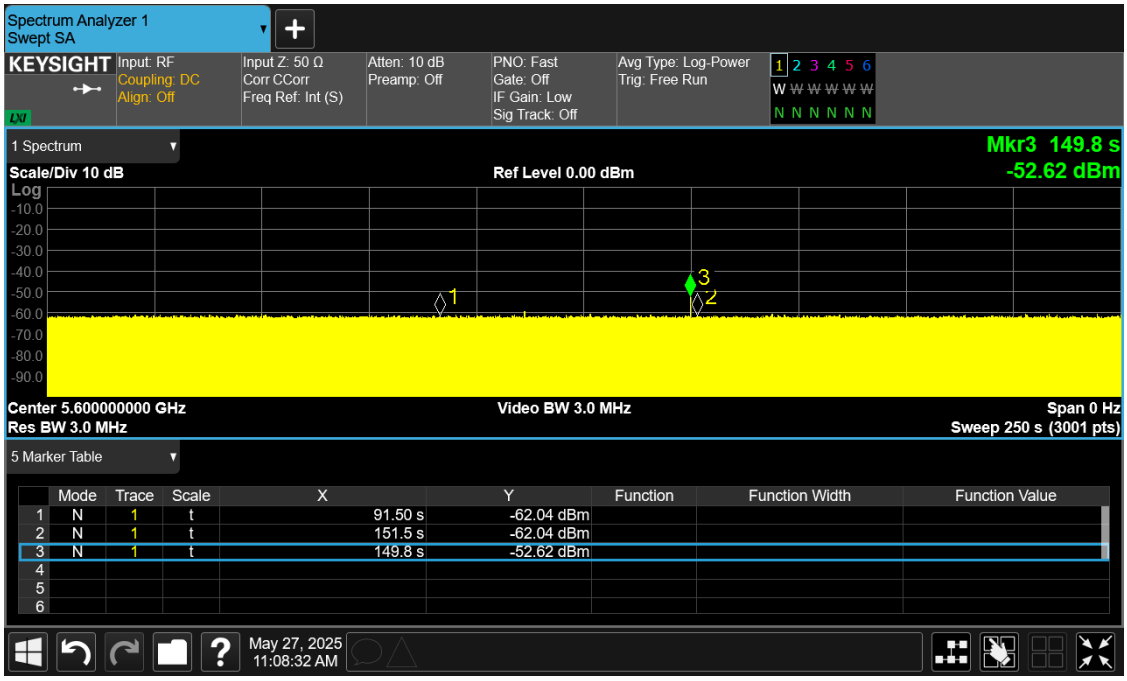
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.




**Plot 8: DUT Turn On**




**Plot 9: Beginning**




**Plot 10: End**

### 5.7.2 In-service Monitoring

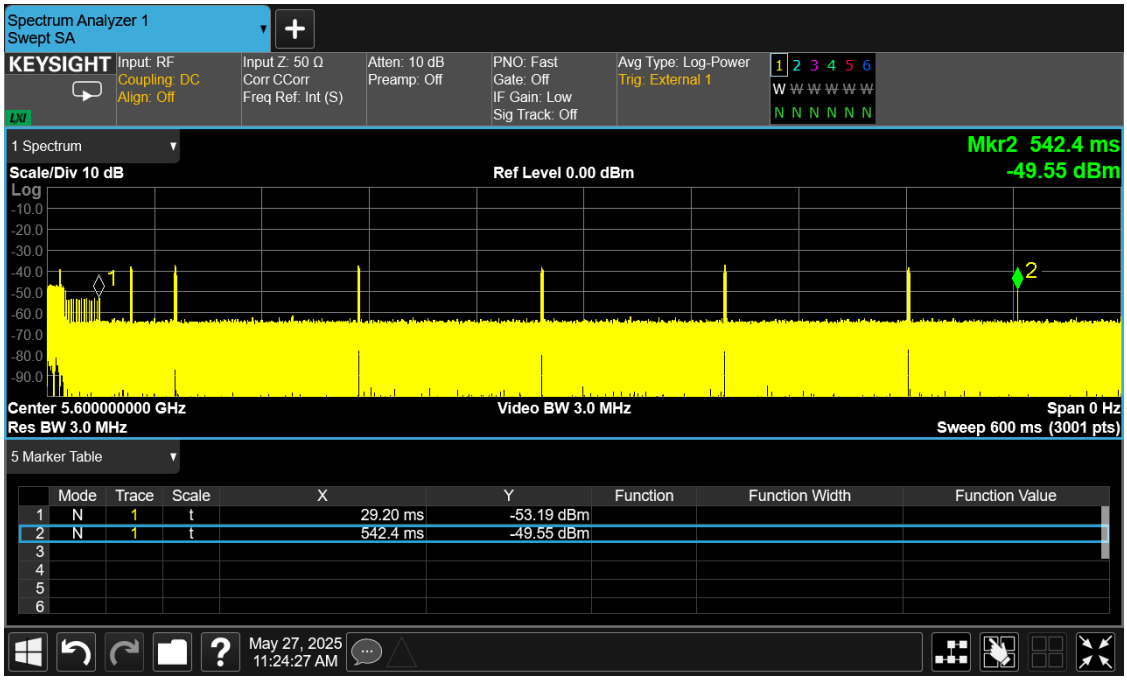
| | |
|---|---|
| Channel Move Time | 10 seconds |
| Channel Closing Transmission Time | 200 ms + aggregate of 60 ms over remaining 10 second period |
| Non-occupancy period | Minimum 30 minutes |

Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits. One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.

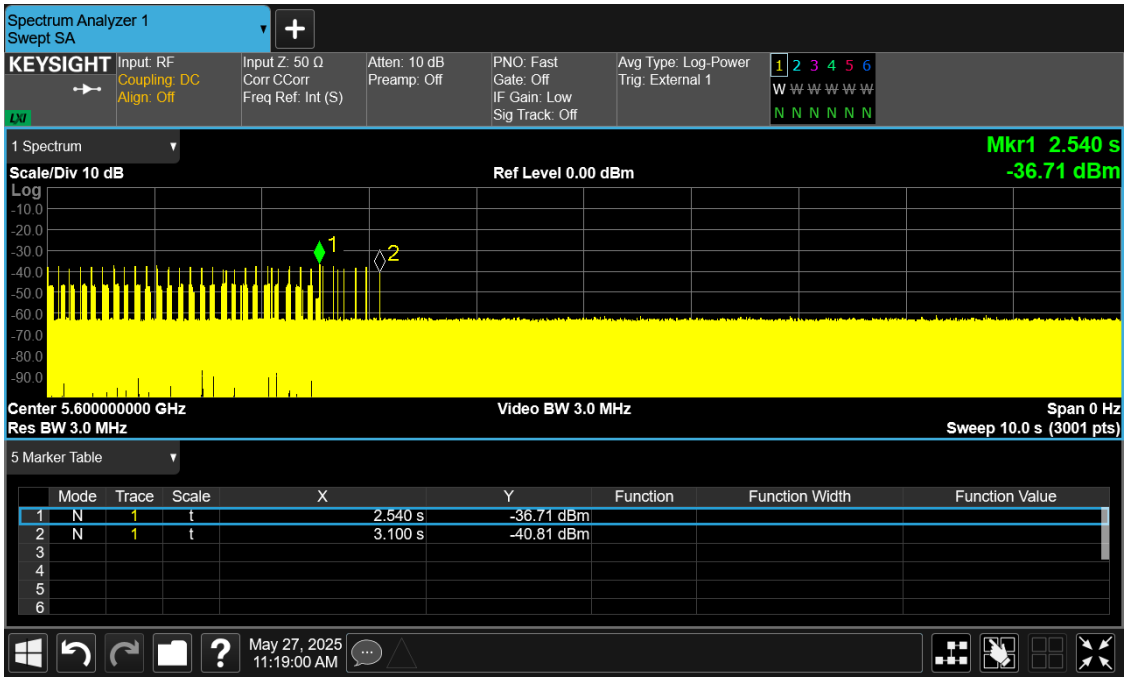
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots below.

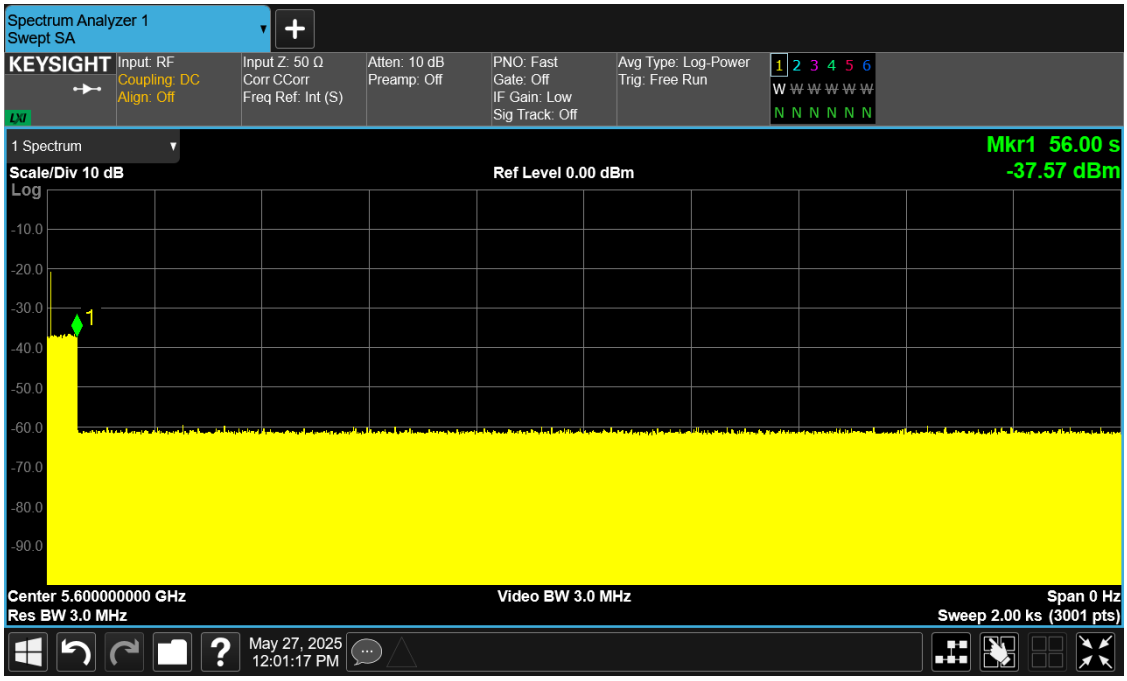
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.




**Plot 11: Channel Close**




**Plot 12: Channel Move**




**Plot 13: Non-Occupancy**

### 5.7.3 DFS Detection Bandwidth

| EUT Frequency = 5600 MHz ; Bandwidth = 20 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 18.3 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5590 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5610 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 20 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 109% |

**20 MHz**

| EUT Frequency = 5590 MHz ; Bandwidth = 40 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Radar Frequency MHz** | **DFS Detection Trials (1 = Detection, 0 = No Detection)** | | | | | | | | | | **Detection Rate %** |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5575 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 90 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 37.1 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5570 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5610 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 40 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 108% |

**40 MHz**

| EUT Frequency = 5610 MHz ; Bandwidth = 80 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5575 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5595 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5615 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5620 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5625 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5630 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5635 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5640 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5645 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 75.5 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5570 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5650 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 80 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 106% |

**80 MHz**

| EUT Frequency = 5570 MHz ; Bandwidth = 160 MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Radar Frequency MHz | DFS Detection Trials (1 = Detection, 0 = No Detection) | | | | | | | | | | Detection Rate % |
| | Trials | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5490 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5495 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5500 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5505 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5510 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5515 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5520 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5525 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5530 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5535 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5540 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5545 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5550 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5555 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 90 |
| 5560 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5565 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5570 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5575 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5585 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5590 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 |
| 5595 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5600 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5605 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5610 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5615 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5620 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5625 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5630 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5635 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 5640 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 90 |
| 5645 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90 |
| 5650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| Parameter | | | | | | | | | | | Value |
| U-NII 99% Transmission Power Bandwidth: | | | | | | | | | | | 154.8 |
| Lowest frequency with at least 90% detection ($F_L$): | | | | | | | | | | | 5490 |
| Highest frequency with at least 90% detection ($F_H$): | | | | | | | | | | | 5650 |
| Detection Bandwidth ($F_H$ - $F_L$): | | | | | | | | | | | 160 |
| **Detection Bandwidth percentage of 99% Transmission Power Bandwidth:** | | | | | | | | | | | 103% |

**160 MHz**

### 5.7.4 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
Please see data below.

| Radar Type | Min successful detection (%) | Minimum Trials |
|---|---|---|
| 1 | 60 | 30 |
| 2 | 60 | 30 |
| 3 | 60 | 30 |
| 4 | 60 | 30 |
| Types 1 - 4 | 80 | 120 |
| 5 | 80 | 30 |
| 6 | 70 | 30 |

**20 MHz**

Summary

| Type | Detections | Trials | Detection Probability |
|---|---|---|---|
| Type 1 | 28 | 30 | 93% |
| Type 2 | 27 | 30 | 90% |
| Type 3 | 26 | 30 | 87% |
| Type 4 | 25 | 30 | 83% |
| Type 5 | 30 | 30 | 100% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 106 | 120 | 88% |

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 45 | 1 | 1185 | y |
| 2 | 22 | 1 | 2428 | y |
| 3 | 22 | 1 | 2456 | y |
| 4 | 90 | 1 | 586 | y |
| 5 | 79 | 1 | 670 | y |
| 6 | 99 | 1 | 537 | y |
| 7 | 65 | 1 | 819 | y |
| 8 | 29 | 1 | 1856 | y |
| 9 | 45 | 1 | 1187 | y |
| 10 | 38 | 1 | 1409 | y |
| 11 | 34 | 1 | 1579 | n |
| 12 | 19 | 1 | 2842 | y |
| 13 | 26 | 1 | 2038 | y |
| 14 | 55 | 1 | 963 | y |
| 15 | 68 | 1 | 776 | y |
| 16 | 24 | 1 | 2204 | y |
| 17 | 27 | 1 | 1979 | y |
| 18 | 36 | 1 | 1491 | y |
| 19 | 36 | 1 | 1464 | y |
| 20 | 23 | 1 | 2345 | y |
| 21 | 26 | 1 | 2099 | y |
| 22 | 78 | 1 | 683 | y |
| 23 | 19 | 1 | 2810 | n |
| 24 | 21 | 1 | 2541 | y |
| 25 | 28 | 1 | 1949 | y |
| 26 | 18 | 1 | 2951 | y |
| 27 | 45 | 1 | 1176 | y |
| 28 | 37 | 1 | 1455 | y |
| 29 | 40 | 1 | 1332 | y |
| 30 | 69 | 1 | 767 | y |
| | | | | 28/30: 93.3% |

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 25 | 3.4 | 192 | y |
| 2 | 29 | 2.8 | 155 | y |
| 3 | 28 | 1.5 | 211 | y |
| 4 | 26 | 2 | 194 | y |
| 5 | 28 | 4.9 | 193 | y |
| 6 | 27 | 2.7 | 198 | y |
| 7 | 26 | 2.3 | 186 | n |
| 8 | 28 | 3.6 | 229 | y |
| 9 | 26 | 2.8 | 199 | y |
| 10 | 27 | 2.8 | 193 | y |
| 11 | 29 | 4.8 | 219 | n |
| 12 | 24 | 2.8 | 154 | y |
| 13 | 27 | 2.6 | 178 | y |
| 14 | 24 | 1.9 | 221 | y |
| 15 | 26 | 3.6 | 153 | y |
| 16 | 24 | 1.5 | 168 | y |
| 17 | 29 | 3.8 | 193 | y |
| 18 | 23 | 4.5 | 167 | y |
| 19 | 27 | 4.9 | 220 | y |
| 20 | 26 | 4.9 | 186 | y |
| 21 | 25 | 2.5 | 157 | n |
| 22 | 27 | 4.9 | 171 | y |
| 23 | 26 | 3.3 | 153 | y |
| 24 | 25 | 2.4 | 173 | y |
| 25 | 28 | 1.1 | 206 | y |
| 26 | 23 | 3.3 | 164 | y |
| 27 | 26 | 2.9 | 194 | y |
| 28 | 26 | 4.9 | 150 | y |
| 29 | 24 | 4.3 | 173 | y |
| 30 | 29 | 2.2 | 203 | y |
| | | | | 27/30: 90% |

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 17 | 9.1 | 351 | y |
| 2 | 18 | 9.2 | 425 | y |
| 3 | 17 | 9 | 477 | y |
| 4 | 17 | 9.6 | 464 | n |
| 5 | 17 | 8.8 | 247 | n |
| 6 | 16 | 6.4 | 499 | y |
| 7 | 17 | 9.6 | 313 | y |
| 8 | 16 | 6.8 | 311 | y |
| 9 | 17 | 8.4 | 238 | y |
| 10 | 17 | 8.7 | 349 | y |
| 11 | 17 | 9.7 | 449 | y |
| 12 | 17 | 7.1 | 425 | y |
| 13 | 16 | 6.7 | 359 | y |
| 14 | 16 | 6.5 | 269 | y |
| 15 | 17 | 9.3 | 491 | y |
| 16 | 16 | 9.3 | 289 | y |
| 17 | 16 | 8.3 | 451 | y |
| 18 | 18 | 9 | 398 | y |
| 19 | 17 | 6.7 | 229 | y |
| 20 | 16 | 8.6 | 351 | y |
| 21 | 18 | 9.4 | 215 | n |
| 22 | 16 | 8.5 | 465 | y |
| 23 | 18 | 7.5 | 384 | y |
| 24 | 17 | 8.2 | 304 | y |
| 25 | 17 | 8.9 | 467 | y |
| 26 | 18 | 6.6 | 329 | n |
| 27 | 17 | 7.5 | 354 | y |
| 28 | 16 | 9.4 | 218 | y |
| 29 | 17 | 8.8 | 265 | y |
| 30 | 18 | 9.9 | 207 | y |
| | | | | 26/30: 86.7% |

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 14 | 11.5 | 279 | y |
| 2 | 13 | 17.6 | 297 | n |
| 3 | 15 | 11.5 | 385 | y |
| 4 | 14 | 11.1 | 299 | y |
| 5 | 14 | 13 | 252 | y |
| 6 | 14 | 17.5 | 375 | y |
| 7 | 16 | 11.5 | 495 | y |
| 8 | 14 | 16.5 | 361 | n |
| 9 | 15 | 16.8 | 211 | y |
| 10 | 13 | 14.4 | 291 | n |
| 11 | 15 | 17.2 | 298 | y |
| 12 | 16 | 17.2 | 441 | y |
| 13 | 14 | 19.3 | 418 | y |
| 14 | 13 | 16.5 | 303 | y |
| 15 | 12 | 13.6 | 492 | y |
| 16 | 16 | 16 | 347 | y |
| 17 | 13 | 13.3 | 253 | y |
| 18 | 13 | 18.4 | 486 | n |
| 19 | 13 | 15.4 | 436 | y |
| 20 | 13 | 11.1 | 347 | y |
| 21 | 13 | 15.9 | 449 | y |
| 22 | 16 | 17 | 202 | y |
| 23 | 14 | 11.3 | 286 | y |
| 24 | 13 | 14.4 | 346 | n |
| 25 | 15 | 17.1 | 259 | y |
| 26 | 14 | 12.3 | 328 | y |
| 27 | 16 | 13.1 | 333 | y |
| 28 | 14 | 15.1 | 268 | y |
| 29 | 15 | 18.3 | 480 | y |
| 30 | 14 | 13.7 | 413 | y |
| | | | | 25/30: 83.3% |

| TYPE 5 | Rohde & Schwarz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 9 | 1 | 5600 |
| 2 | y | 18 | 1 | 5600 |
| 3 | y | 13 | 1 | 5600 |
| 4 | y | 6 | 1 | 5600 |
| 5 | y | 16 | 1 | 5600 |
| 6 | y | 13 | 1 | 5600 |
| 7 | y | 18 | 1 | 5600 |
| 8 | y | 7 | 1 | 5600 |
| 9 | y | 20 | 1 | 5600 |
| 10 | y | 10 | 1 | 5600 |
| 11 | y | 11 | 2 | 5594.4 |
| 12 | y | 13 | 2 | 5595.2 |
| 13 | y | 13 | 2 | 5595.2 |
| 14 | y | 8 | 2 | 5593.2 |
| 15 | y | 10 | 2 | 5594 |
| 16 | y | 5 | 2 | 5592 |
| 17 | y | 20 | 2 | 5598 |
| 18 | y | 9 | 2 | 5593.6 |
| 19 | y | 16 | 2 | 5596.4 |
| 20 | y | 16 | 2 | 5596.4 |
| 21 | y | 17 | 3 | 5603.2 |
| 22 | y | 11 | 3 | 5605.6 |
| 23 | y | 15 | 3 | 5604 |
| 24 | y | 19 | 3 | 5602.4 |
| 25 | y | 5 | 3 | 5608 |
| 26 | y | 20 | 3 | 5602 |
| 27 | y | 8 | 3 | 5606.8 |
| 28 | y | 19 | 3 | 5602.4 |
| 29 | y | 8 | 3 | 5606.8 |
| 30 | y | 10 | 3 | 5606 |
| | 30/30: 100% | | | |

| TYPE 6 S | Rohde & Schw arz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**40 MHz**

| Summary | | | |
|---|---|---|---|
| **Type** | **Detections** | **Trials** | **Detection Probability** |
| Type 1 | 23 | 30 | 77% |
| Type 2 | 25 | 30 | 83% |
| Type 3 | 26 | 30 | 87% |
| Type 4 | 28 | 30 | 93% |
| Type 5 | 28 | 30 | 93% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 102 | 120 | 85% |

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 18 | 1 | 3042 | y |
| 2 | 77 | 1 | 687 | y |
| 3 | 19 | 1 | 2911 | y |
| 4 | 27 | 1 | 1974 | y |
| 5 | 65 | 1 | 812 | y |
| 6 | 26 | 1 | 2060 | y |
| 7 | 89 | 1 | 595 | y |
| 8 | 23 | 1 | 2364 | n |
| 9 | 27 | 1 | 2004 | y |
| 10 | 47 | 1 | 1138 | n |
| 11 | 27 | 1 | 1973 | y |
| 12 | 31 | 1 | 1712 | y |
| 13 | 21 | 1 | 2558 | y |
| 14 | 22 | 1 | 2419 | y |
| 15 | 62 | 1 | 851 | n |
| 16 | 40 | 1 | 1320 | y |
| 17 | 41 | 1 | 1314 | y |
| 18 | 18 | 1 | 2987 | n |
| 19 | 65 | 1 | 822 | y |
| 20 | 30 | 1 | 1803 | n |
| 21 | 59 | 1 | 900 | y |
| 22 | 69 | 1 | 774 | y |
| 23 | 22 | 1 | 2472 | n |
| 24 | 18 | 1 | 2989 | y |
| 25 | 29 | 1 | 1841 | y |
| 26 | 19 | 1 | 2886 | n |
| 27 | 30 | 1 | 1799 | y |
| 28 | 43 | 1 | 1252 | y |
| 29 | 78 | 1 | 680 | y |
| 30 | 35 | 1 | 1510 | y |
| | | | | 23/30: 76.7% |

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 25 | 4.6 | 157 | n |
| 2 | 24 | 4.4 | 226 | y |
| 3 | 25 | 2.6 | 196 | y |
| 4 | 28 | 3.3 | 160 | y |
| 5 | 25 | 1.4 | 204 | n |
| 6 | 25 | 4.1 | 152 | y |
| 7 | 26 | 3.3 | 210 | n |
| 8 | 29 | 1.3 | 173 | y |
| 9 | 24 | 4.9 | 150 | y |
| 10 | 25 | 2 | 165 | y |
| 11 | 29 | 3.6 | 164 | y |
| 12 | 23 | 3.7 | 211 | y |
| 13 | 28 | 1.5 | 221 | y |
| 14 | 25 | 4.7 | 151 | y |
| 15 | 25 | 4 | 219 | n |
| 16 | 27 | 4.9 | 178 | y |
| 17 | 26 | 1.6 | 196 | y |
| 18 | 28 | 4.3 | 210 | y |
| 19 | 24 | 4.2 | 162 | y |
| 20 | 23 | 3.7 | 220 | y |
| 21 | 28 | 3.3 | 224 | y |
| 22 | 29 | 3.7 | 218 | y |
| 23 | 28 | 4.1 | 161 | y |
| 24 | 24 | 3.1 | 177 | n |
| 25 | 26 | 3.6 | 162 | y |
| 26 | 24 | 3 | 188 | y |
| 27 | 25 | 4.6 | 166 | y |
| 28 | 27 | 4.9 | 202 | y |
| 29 | 26 | 4.1 | 196 | y |
| 30 | 23 | 2.2 | 183 | y |
| | | | | 25/30: 83.3% |

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 16 | 7.4 | 219 | y |
| 2 | 18 | 6 | 260 | y |
| 3 | 17 | 7.7 | 469 | y |
| 4 | 16 | 9.1 | 321 | y |
| 5 | 16 | 9.4 | 350 | y |
| 6 | 17 | 7.2 | 499 | n |
| 7 | 17 | 8.1 | 238 | y |
| 8 | 16 | 9.1 | 392 | y |
| 9 | 16 | 6.4 | 454 | n |
| 10 | 17 | 6.5 | 270 | y |
| 11 | 17 | 7.4 | 305 | y |
| 12 | 16 | 8.6 | 330 | y |
| 13 | 17 | 6.3 | 412 | y |
| 14 | 16 | 8.7 | 225 | y |
| 15 | 17 | 7.3 | 331 | n |
| 16 | 16 | 6.7 | 492 | y |
| 17 | 17 | 6 | 499 | y |
| 18 | 17 | 8 | 500 | y |
| 19 | 17 | 6.6 | 278 | y |
| 20 | 18 | 6.8 | 358 | y |
| 21 | 17 | 7.7 | 443 | y |
| 22 | 17 | 6 | 375 | y |
| 23 | 17 | 6.1 | 444 | y |
| 24 | 17 | 7.6 | 273 | n |
| 25 | 18 | 9.1 | 282 | y |
| 26 | 16 | 8.4 | 494 | y |
| 27 | 17 | 6.3 | 309 | y |
| 28 | 17 | 7.6 | 476 | y |
| 29 | 17 | 7.3 | 500 | y |
| 30 | 18 | 7.4 | 301 | y |
| | | | | 26/30: 86.7% |

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 15 | 15.7 | 210 | y |
| 2 | 13 | 11.8 | 342 | y |
| 3 | 15 | 13.8 | 415 | y |
| 4 | 14 | 18.3 | 478 | y |
| 5 | 13 | 19.9 | 219 | y |
| 6 | 14 | 19.8 | 354 | y |
| 7 | 15 | 15.3 | 317 | n |
| 8 | 15 | 12.7 | 248 | y |
| 9 | 16 | 12.8 | 483 | y |
| 10 | 14 | 18.5 | 210 | y |
| 11 | 12 | 19.7 | 338 | y |
| 12 | 15 | 11.7 | 370 | y |
| 13 | 14 | 12.7 | 316 | y |
| 14 | 15 | 16.3 | 468 | y |
| 15 | 15 | 17 | 253 | y |
| 16 | 14 | 18.4 | 264 | y |
| 17 | 14 | 18 | 239 | y |
| 18 | 15 | 17.1 | 220 | y |
| 19 | 14 | 13.7 | 244 | y |
| 20 | 15 | 15.4 | 478 | y |
| 21 | 15 | 15.7 | 397 | y |
| 22 | 14 | 11.1 | 318 | y |
| 23 | 14 | 13.4 | 447 | y |
| 24 | 14 | 13 | 333 | y |
| 25 | 13 | 14.1 | 426 | y |
| 26 | 14 | 19.6 | 300 | y |
| 27 | 13 | 13.6 | 218 | n |
| 28 | 15 | 15.9 | 410 | y |
| 29 | 14 | 19.4 | 274 | y |
| 30 | 13 | 19.9 | 291 | y |
| | | | | 28/30: 93.3% |

| TYPE 5 | Rohde & Schw arz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 20 | 1 | 5590 |
| 2 | y | 16 | 1 | 5590 |
| 3 | y | 7 | 1 | 5590 |
| 4 | y | 11 | 1 | 5590 |
| 5 | y | 15 | 1 | 5590 |
| 6 | y | 18 | 1 | 5590 |
| 7 | y | 11 | 1 | 5590 |
| 8 | y | 16 | 1 | 5590 |
| 9 | y | 11 | 1 | 5590 |
| 10 | y | 20 | 1 | 5590 |
| 11 | y | 10 | 2 | 5574 |
| 12 | y | 6 | 2 | 5572.4 |
| 13 | y | 6 | 2 | 5572.4 |
| 14 | y | 16 | 2 | 5576.4 |
| 15 | y | 17 | 2 | 5576.8 |
| 16 | n | 17 | 2 | 5576.8 |
| 17 | y | 13 | 2 | 5575.2 |
| 18 | y | 6 | 2 | 5572.4 |
| 19 | y | 7 | 2 | 5572.8 |
| 20 | y | 13 | 2 | 5575.2 |
| 21 | y | 9 | 3 | 5606.4 |
| 22 | y | 6 | 3 | 5607.6 |
| 23 | y | 19 | 3 | 5602.4 |
| 24 | y | 13 | 3 | 5604.8 |
| 25 | n | 12 | 3 | 5605.2 |
| 26 | y | 11 | 3 | 5605.6 |
| 27 | y | 18 | 3 | 5602.8 |
| 28 | y | 9 | 3 | 5606.4 |
| 29 | y | 11 | 3 | 5605.6 |
| 30 | y | 10 | 3 | 5606 |
| | 28/30: 93.3% | | | |

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| Trial # | Detection (yes/no) |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

**80 MHz**

| Summary | | | |
|---|---|---|---|
| Type | Detections | Trials | Detection Probability |
| Type 1 | 29 | 30 | 97% |
| Type 2 | 25 | 30 | 83% |
| Type 3 | 26 | 30 | 87% |
| Type 4 | 24 | 30 | 80% |
| Type 5 | 29 | 30 | 97% |
| Type 6 | 29 | 30 | 97% |
| Aggregate 1-4 | 104 | 120 | 87% |

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 24 | 1 | 2237 | y |
| 2 | 39 | 1 | 1384 | y |
| 3 | 24 | 1 | 2270 | y |
| 4 | 44 | 1 | 1225 | y |
| 5 | 21 | 1 | 2555 | y |
| 6 | 62 | 1 | 850 | y |
| 7 | 25 | 1 | 2112 | y |
| 8 | 55 | 1 | 966 | y |
| 9 | 40 | 1 | 1344 | y |
| 10 | 42 | 1 | 1259 | n |
| 11 | 92 | 1 | 575 | y |
| 12 | 42 | 1 | 1271 | y |
| 13 | 76 | 1 | 694 | y |
| 14 | 97 | 1 | 548 | y |
| 15 | 43 | 1 | 1231 | y |
| 16 | 80 | 1 | 663 | y |
| 17 | 27 | 1 | 2008 | y |
| 18 | 37 | 1 | 1439 | y |
| 19 | 82 | 1 | 643 | y |
| 20 | 51 | 1 | 1045 | y |
| 21 | 25 | 1 | 2188 | y |
| 22 | 18 | 1 | 2991 | y |
| 23 | 54 | 1 | 981 | y |
| 24 | 29 | 1 | 1847 | y |
| 25 | 97 | 1 | 545 | y |
| 26 | 30 | 1 | 1775 | y |
| 27 | 28 | 1 | 1928 | y |
| 28 | 25 | 1 | 2166 | y |
| 29 | 38 | 1 | 1415 | y |
| 30 | 50 | 1 | 1060 | y |
| | | | | 29/30: 96.7% |

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 24 | 2.4 | 183 | y |
| 2 | 26 | 1.7 | 197 | y |
| 3 | 23 | 1.5 | 156 | y |
| 4 | 26 | 4.7 | 205 | y |
| 5 | 25 | 4.9 | 185 | y |
| 6 | 28 | 2.2 | 165 | y |
| 7 | 27 | 1.9 | 157 | y |
| 8 | 26 | 2.3 | 183 | y |
| 9 | 29 | 3.6 | 185 | y |
| 10 | 24 | 2.1 | 176 | n |
| 11 | 25 | 2.8 | 229 | y |
| 12 | 29 | 4.7 | 207 | y |
| 13 | 26 | 2 | 162 | y |
| 14 | 24 | 4.1 | 158 | y |
| 15 | 24 | 3.5 | 224 | n |
| 16 | 27 | 3.6 | 170 | y |
| 17 | 24 | 4.5 | 201 | n |
| 18 | 29 | 4.3 | 186 | y |
| 19 | 24 | 1.2 | 219 | y |
| 20 | 28 | 1.3 | 205 | y |
| 21 | 25 | 1.5 | 222 | y |
| 22 | 27 | 1.2 | 194 | y |
| 23 | 25 | 3.6 | 158 | y |
| 24 | 27 | 2 | 203 | y |
| 25 | 27 | 4.7 | 191 | n |
| 26 | 26 | 3.7 | 230 | y |
| 27 | 24 | 1.3 | 167 | y |
| 28 | 23 | 2 | 197 | n |
| 29 | 24 | 4.2 | 223 | y |
| 30 | 27 | 4.4 | 152 | y |
| | | | | 25/30: 83.3% |

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 17 | 8.1 | 389 | y |
| 2 | 17 | 8.5 | 425 | y |
| 3 | 17 | 8.2 | 309 | y |
| 4 | 17 | 7.5 | 259 | y |
| 5 | 18 | 8.6 | 201 | n |
| 6 | 16 | 7.9 | 319 | y |
| 7 | 16 | 8.1 | 265 | y |
| 8 | 17 | 7.2 | 206 | n |
| 9 | 18 | 9.5 | 499 | y |
| 10 | 16 | 7.8 | 468 | y |
| 11 | 16 | 7.6 | 220 | y |
| 12 | 16 | 7.7 | 261 | y |
| 13 | 17 | 7.3 | 434 | y |
| 14 | 17 | 9.6 | 232 | y |
| 15 | 16 | 8.4 | 455 | y |
| 16 | 18 | 7.5 | 461 | y |
| 17 | 17 | 9.7 | 235 | y |
| 18 | 17 | 8.3 | 464 | y |
| 19 | 16 | 6.6 | 437 | n |
| 20 | 17 | 7.9 | 240 | n |
| 21 | 18 | 6.2 | 473 | y |
| 22 | 16 | 8.2 | 341 | y |
| 23 | 17 | 9 | 258 | y |
| 24 | 16 | 7 | 359 | y |
| 25 | 17 | 6.6 | 358 | y |
| 26 | 17 | 7.1 | 212 | y |
| 27 | 17 | 6.5 | 340 | y |
| 28 | 16 | 10 | 353 | y |
| 29 | 17 | 8.3 | 319 | y |
| 30 | 16 | 7.3 | 450 | y |
| | | | | 26/30: 86.7% |

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 12 | 12.3 | 322 | y |
| 2 | 12 | 17 | 276 | y |
| 3 | 14 | 17.9 | 352 | n |
| 4 | 16 | 18.2 | 256 | y |
| 5 | 16 | 11.9 | 394 | y |
| 6 | 15 | 19.2 | 330 | y |
| 7 | 12 | 11.5 | 336 | n |
| 8 | 13 | 12.4 | 205 | y |
| 9 | 13 | 17.4 | 450 | y |
| 10 | 15 | 17.6 | 207 | y |
| 11 | 12 | 12.6 | 395 | y |
| 12 | 15 | 18.1 | 465 | y |
| 13 | 14 | 19.3 | 211 | y |
| 14 | 16 | 15.8 | 472 | y |
| 15 | 12 | 12.4 | 343 | n |
| 16 | 16 | 15.4 | 303 | y |
| 17 | 14 | 12.6 | 425 | y |
| 18 | 15 | 16.6 | 324 | y |
| 19 | 13 | 19.4 | 247 | n |
| 20 | 15 | 12.2 | 323 | n |
| 21 | 12 | 14.3 | 391 | y |
| 22 | 14 | 15.2 | 231 | n |
| 23 | 12 | 20 | 473 | y |
| 24 | 13 | 18.3 | 306 | y |
| 25 | 15 | 12.4 | 353 | y |
| 26 | 16 | 16.6 | 492 | y |
| 27 | 13 | 11.9 | 330 | y |
| 28 | 15 | 12.6 | 389 | y |
| 29 | 16 | 11.2 | 436 | y |
| 30 | 15 | 17.7 | 317 | y |
| | | | | 24/30: 80% |

| TYPE 5 | Rohde & Schwarz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 13 | 1 | 5610 |
| 2 | y | 5 | 1 | 5610 |
| 3 | y | 16 | 1 | 5610 |
| 4 | y | 8 | 1 | 5610 |
| 5 | y | 17 | 1 | 5610 |
| 6 | y | 6 | 1 | 5610 |
| 7 | y | 14 | 1 | 5610 |
| 8 | y | 5 | 1 | 5610 |
| 9 | y | 18 | 1 | 5610 |
| 10 | y | 17 | 1 | 5610 |
| 11 | y | 10 | 2 | 5594 |
| 12 | y | 17 | 2 | 5596.8 |
| 13 | y | 14 | 2 | 5595.6 |
| 14 | y | 11 | 2 | 5594.4 |
| 15 | y | 8 | 2 | 5593.2 |
| 16 | y | 19 | 2 | 5597.6 |
| 17 | y | 5 | 2 | 5592 |
| 18 | n | 6 | 2 | 5592.4 |
| 19 | y | 5 | 2 | 5592 |
| 20 | y | 13 | 2 | 5595.2 |
| 21 | y | 10 | 3 | 5646 |
| 22 | y | 18 | 3 | 5642.8 |
| 23 | y | 10 | 3 | 5646 |
| 24 | y | 20 | 3 | 5642 |
| 25 | y | 11 | 3 | 5645.6 |
| 26 | y | 12 | 3 | 5645.2 |
| 27 | y | 15 | 3 | 5644 |
| 28 | y | 8 | 3 | 5646.8 |
| 29 | y | 20 | 3 | 5642 |
| 30 | y | 7 | 3 | 5647.2 |
| | 29/30: 96.7% | | | |

| TYPE 6 S | Rohde & Schw arz K350 Pulse Sequencer DFS |
|---|---|
| Trial # | Detection (yes/no) |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | n |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 29/30: 96.7% |

**160 MHz**

| Summary | | | |
|---|---|---|---|
| Type | Detections | Trials | Detection Probability |
| Type 1 | 23 | 30 | 77% |
| Type 2 | 28 | 30 | 93% |
| Type 3 | 27 | 30 | 90% |
| Type 4 | 21 | 30 | 70% |
| Type 5 | 30 | 30 | 100% |
| Type 6 | 30 | 30 | 100% |
| Aggregate 1-4 | 99 | 120 | 83% |

| RADAR TYPE 1 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 28 | 1 | 1935 | y |
| 2 | 68 | 1 | 778 | y |
| 3 | 61 | 1 | 870 | y |
| 4 | 53 | 1 | 1000 | y |
| 5 | 26 | 1 | 2081 | y |
| 6 | 30 | 1 | 1772 | n |
| 7 | 20 | 1 | 2690 | y |
| 8 | 27 | 1 | 1954 | n |
| 9 | 49 | 1 | 1081 | y |
| 10 | 28 | 1 | 1911 | n |
| 11 | 21 | 1 | 2526 | y |
| 12 | 35 | 1 | 1538 | n |
| 13 | 18 | 1 | 3028 | y |
| 14 | 57 | 1 | 930 | y |
| 15 | 39 | 1 | 1352 | y |
| 16 | 28 | 1 | 1933 | y |
| 17 | 22 | 1 | 2417 | y |
| 18 | 46 | 1 | 1153 | y |
| 19 | 22 | 1 | 2441 | y |
| 20 | 25 | 1 | 2142 | n |
| 21 | 25 | 1 | 2151 | y |
| 22 | 30 | 1 | 1805 | n |
| 23 | 36 | 1 | 1499 | y |
| 24 | 33 | 1 | 1632 | y |
| 25 | 56 | 1 | 950 | y |
| 26 | 30 | 1 | 1794 | y |
| 27 | 50 | 1 | 1063 | y |
| 28 | 62 | 1 | 860 | y |
| 29 | 85 | 1 | 625 | y |
| 30 | 19 | 1 | 2903 | n |
| | | | | 23/30: 76.7% |

| RADAR TYPE 2 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 25 | 3.8 | 154 | y |
| 2 | 28 | 2 | 210 | y |
| 3 | 26 | 2.1 | 187 | y |
| 4 | 25 | 3.9 | 225 | y |
| 5 | 25 | 4.1 | 153 | y |
| 6 | 29 | 3.8 | 202 | y |
| 7 | 26 | 1.7 | 164 | y |
| 8 | 23 | 2.8 | 193 | y |
| 9 | 25 | 4.4 | 184 | y |
| 10 | 26 | 2.7 | 150 | n |
| 11 | 27 | 3.1 | 189 | y |
| 12 | 25 | 4.6 | 194 | y |
| 13 | 26 | 3.6 | 181 | y |
| 14 | 28 | 1.5 | 172 | y |
| 15 | 27 | 2.4 | 224 | y |
| 16 | 26 | 4.3 | 207 | y |
| 17 | 25 | 1.6 | 153 | n |
| 18 | 23 | 1.8 | 187 | y |
| 19 | 23 | 4.4 | 229 | y |
| 20 | 28 | 2.7 | 200 | y |
| 21 | 27 | 1.4 | 165 | y |
| 22 | 25 | 4.5 | 155 | y |
| 23 | 24 | 1 | 174 | y |
| 24 | 24 | 3.2 | 222 | y |
| 25 | 28 | 1.6 | 161 | y |
| 26 | 27 | 3.6 | 166 | y |
| 27 | 25 | 2.7 | 212 | y |
| 28 | 27 | 3 | 211 | y |
| 29 | 28 | 2.8 | 196 | y |
| 30 | 25 | 2.3 | 189 | y |
| | | | | 28/30: 93.3% |

| RADAR TYPE 3 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 16 | 8.3 | 293 | y |
| 2 | 18 | 6.4 | 416 | n |
| 3 | 18 | 6.1 | 220 | y |
| 4 | 17 | 6.5 | 289 | y |
| 5 | 18 | 7 | 209 | y |
| 6 | 16 | 6.2 | 490 | y |
| 7 | 18 | 8.3 | 214 | y |
| 8 | 16 | 6 | 498 | y |
| 9 | 16 | 8 | 478 | y |
| 10 | 17 | 6.1 | 431 | n |
| 11 | 16 | 8.7 | 201 | y |
| 12 | 17 | 7.5 | 291 | y |
| 13 | 18 | 8.3 | 278 | y |
| 14 | 16 | 7.4 | 214 | y |
| 15 | 17 | 7.6 | 272 | y |
| 16 | 17 | 8.4 | 270 | y |
| 17 | 16 | 6 | 377 | y |
| 18 | 18 | 8.9 | 332 | y |
| 19 | 16 | 8.5 | 331 | n |
| 20 | 16 | 9.4 | 488 | y |
| 21 | 17 | 6.9 | 455 | y |
| 22 | 16 | 6.5 | 204 | y |
| 23 | 17 | 8.1 | 277 | y |
| 24 | 17 | 7.6 | 257 | y |
| 25 | 17 | 8.9 | 223 | y |
| 26 | 17 | 9.7 | 315 | y |
| 27 | 17 | 8.6 | 378 | y |
| 28 | 17 | 7.7 | 401 | y |
| 29 | 18 | 6.4 | 308 | y |
| 30 | 17 | 9.5 | 317 | y |
| | | | | 27/30: 90% |

| RADAR TYPE 4 | | | | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|---|---|---|
| Trial # | Number of Pulses per Burst | Pulse Width (µsec) | PRI (µs) | Detection (yes/no) |
| 1 | 16 | 17 | 407 | n |
| 2 | 15 | 15.4 | 466 | y |
| 3 | 15 | 17.8 | 417 | n |
| 4 | 15 | 19.8 | 419 | y |
| 5 | 12 | 13.6 | 376 | y |
| 6 | 13 | 16.8 | 314 | y |
| 7 | 12 | 18.8 | 257 | y |
| 8 | 13 | 16.7 | 374 | y |
| 9 | 15 | 19 | 238 | n |
| 10 | 16 | 11.5 | 494 | y |
| 11 | 13 | 18.1 | 294 | n |
| 12 | 16 | 13.7 | 492 | y |
| 13 | 15 | 19.1 | 365 | y |
| 14 | 14 | 13.1 | 307 | y |
| 15 | 14 | 18.5 | 278 | n |
| 16 | 15 | 15.2 | 473 | y |
| 17 | 15 | 12.5 | 364 | n |
| 18 | 15 | 14.2 | 417 | y |
| 19 | 15 | 12.8 | 431 | n |
| 20 | 14 | 11.3 | 387 | y |
| 21 | 16 | 17.4 | 369 | y |
| 22 | 13 | 11.2 | 249 | y |
| 23 | 12 | 15.3 | 340 | y |
| 24 | 14 | 19.6 | 349 | n |
| 25 | 16 | 14.4 | 467 | y |
| 26 | 12 | 12.3 | 325 | y |
| 27 | 13 | 11.4 | 433 | n |
| 28 | 14 | 16.4 | 389 | y |
| 29 | 12 | 15.1 | 457 | y |
| 30 | 16 | 15.8 | 318 | y |
| | | | | 21/30: 70% |

| TYPE 5 | Rohde & Schwarz K350 Pulse Sequencer DFS | | | |
|---|---|---|---|---|
| Trial # | Detection (yes/no) | Chirp Width (MHz) | Subset | Fc |
| 1 | y | 15 | 1 | 5570 |
| 2 | y | 16 | 1 | 5570 |
| 3 | y | 6 | 1 | 5570 |
| 4 | y | 6 | 1 | 5570 |
| 5 | y | 5 | 1 | 5570 |
| 6 | y | 17 | 1 | 5570 |
| 7 | y | 13 | 1 | 5570 |
| 8 | y | 16 | 1 | 5570 |
| 9 | y | 16 | 1 | 5570 |
| 10 | y | 5 | 1 | 5570 |
| 11 | y | 9 | 2 | 5493.6 |
| 12 | y | 19 | 2 | 5497.6 |
| 13 | y | 5 | 2 | 5492 |
| 14 | y | 16 | 2 | 5496.4 |
| 15 | y | 14 | 2 | 5495.6 |
| 16 | y | 8 | 2 | 5493.2 |
| 17 | y | 5 | 2 | 5492 |
| 18 | y | 15 | 2 | 5496 |
| 19 | y | 8 | 2 | 5493.2 |
| 20 | y | 7 | 2 | 5492.8 |
| 21 | y | 19 | 3 | 5642.4 |
| 22 | y | 10 | 3 | 5646 |
| 23 | y | 14 | 3 | 5644.4 |
| 24 | y | 17 | 3 | 5643.2 |
| 25 | y | 5 | 3 | 5648 |
| 26 | y | 16 | 3 | 5643.6 |
| 27 | y | 18 | 3 | 5642.8 |
| 28 | y | 10 | 3 | 5646 |
| 29 | y | 19 | 3 | 5642.4 |
| 30 | y | 9 | 3 | 5646.4 |
| | 30/30: 100% | | | |

| TYPE 6 S | Rohde & Schwarz K350 Pulse Sequencer DFS |
|---|---|
| **Trial #** | **Detection (yes/no)** |
| 1 | y |
| 2 | y |
| 3 | y |
| 4 | y |
| 5 | y |
| 6 | y |
| 7 | y |
| 8 | y |
| 9 | y |
| 10 | y |
| 11 | y |
| 12 | y |
| 13 | y |
| 14 | y |
| 15 | y |
| 16 | y |
| 17 | y |
| 18 | y |
| 19 | y |
| 20 | y |
| 21 | y |
| 22 | y |
| 23 | y |
| 24 | y |
| 25 | y |
| 26 | y |
| 27 | y |
| 28 | y |
| 29 | y |
| 30 | y |
| | 30/30: 100% |

-- End of Test Report --