# RF TEST REPORT

Product Name: One Raven Home Server

Model Number: OR-HS100

FCC ID: 2BXG8-OR-HS100

Issued For : One Raven, Inc.

16641 N 91st Street, Suite 101, Scottsdale, Arizona 85260, United States

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

| | |
|---|---|
| Report Number: | LGT26H170RF10 |
| Sample Received Date: | Aug. 24, 2026 |
| Date of Test: | Aug. 24, 2026 ~ Sep. 09, 2026 |
| Date of Issue: | Sep. 09, 2026 |

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# TEST REPORT CERTIFICATION

| | |
|---|---|
| **Applicant:** | One Raven, Inc. |
| Address: | 16641 N 91st Street, Suite 101, Scottsdale, Arizona 85260, United States |
| **Manufacturer:** | Shenzhen Pretech Industrial Co., Ltd |
| Address: | Room 808, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Street, Bao'an District, Shenzhen, China |
| Product Name: | One Raven Home Server |
| Trademark: | One Raven |
| Model Number: | OR-HS100 |
| Sample Status: | Normal |

| APPLICABLE STANDARDS | |
|---|---|
| STANDARD | TEST RESULTS |
| FCC Part 15.407, KDB 789033 D02 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS |

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Approved by:

Vita Li
Technical Director

SHENZHEN LGT TEST SERVICE CO., LTD. LGT 领冠检测

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## Revision History

| Rev. | Issue Date | Revisions |
|---|---|---|
| 00 | Sep. 09, 2026 | Initial Issue |
| | | |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

| Part 15.407 | | | |
|---|---|---|---|
| Requirement | Operational Mode | | RESULT |
| | Master | Client | |
| Non-Occupancy Period | Yes | Yes | Pass |
| DFS Detection Threshold | Yes | Not required | Not required |
| Channel Availability Check Time | Yes | Not required | Not required |
| Channel Closing Transmission Time | Yes | Yes | Pass |
| Channel Move Time | Yes | Yes | Pass |
| U-NII Detection Bandwidth | Yes | Not required | Not required |

### 1.1 TEST LABORATORY

| | |
|---|---|
| Company Name: | Shenzhen LGT Test Service Co., Ltd. |
| Address: | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate: | FCC Registration No.: 746540 |
| | CAB ID: CN0136 |

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

| No. | Item | Uncertainty |
|---|---|---|
| 1 | DFS Threshold (radiated) | ±1.50dB |
| 2 | DFS Threshold (conducted) | ±1.45dB |
| 3 | Temperature | ±0.5°C |
| 4 | Humidity | ±2% |

Note: The measurement uncertainty is not included in the test result.

## 2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name:</td><td>One Raven Home Server</td></tr>
<tr><td>Test Model Number:</td><td>OR-HS100</td></tr>
<tr><td>Series Number:</td><td>N/A</td></tr>
<tr><td>Model Difference:</td><td>N/A</td></tr>
<tr><td>Product Description:</td><td>
<table>
<tr><td>Operation Frequency:</td><td>802.11a/n/ac/ax (20):5260 MHz -5320 MHz<br>802.11a/n/ac/ax (40):5270 MHz -5310 MHz<br>802.11ac/ax (80):5290MHz<br><br>802.11a/n/ac/ax (20):5500 MHz -5700 MHz<br>802.11a/n/ac/ax (40):5510 MHz -5670 MHz<br>802.11ac/ax (80): 5530MHz-5610MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11a(OFDM): BPSK, QPSK,16-QAM,64-QAM<br>802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM<br>802.11ac(OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</td></tr>
<tr><td>Number Of Channel</td><td>Please see Note 2.</td></tr>
<tr><td>Antenna Gain (Peak)</td><td>0.91dBi</td></tr>
</table>
Based on the application, features, or specification exhibited in User’s Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User’s Manual.
</td></tr>
<tr><td>Channel List:</td><td>Refer to below</td></tr>
<tr><td>Adapter:</td><td>Input: AC 100-240V 50/60Hz 0.6A Max<br>Output: DC 5.0V 3.0A 15.0W, 9.0V 2.22A 19.98W, 12.0V 1.67A 20.0W Max</td></tr>
<tr><td>Hardware Version:</td><td>N/A</td></tr>
<tr><td>Software Version:</td><td>N/A</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the User Manual, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.

| Operation Frequency of channel | | | |
|---|---|---|---|
| 5.260GHz-5.320GHz | | 5.500GHz-5.720GHz | |
| Channel | Frequency | Channel | Frequency |
| 52 | 5260 | 100 | 5500 |
| 54 | 5270 | 102 | 5510 |
| 56 | 5280 | 104 | 5520 |
| 58 | 5290 | 106 | 5530 |
| 60 | 5300 | 108 | 5540 |
| 62 | 5310 | 110 | 5550 |
| 64 | 5320 | 112 | 5560 |
| | | 116 | 5580 |
| | | 118 | 5590 |
| | | 120 | 5600 |
| | | 122 | 5610 |
| | | 124 | 5620 |
| | | 126 | 5630 |
| | | 128 | 5640 |
| | | 132 | 5660 |
| | | 134 | 5670 |
| | | 136 | 5680 |
| | | 140 | 5700 |

Remark: 1. The EUT not support TPC function, Radar detection and hotspot.

2. The master device fixed the test mode and working channel on the background management page, the client device is connected to the wireless network sent by the master device, it takes 120 seconds for the master device to fully boot up, and 8.0 seconds for the client device.

## 2.2 EQUIPMENT UNDER TEST (EUT) DETAILS

The manufacturer declared values for the EUT operational characteristics that affect DFS are as follows

Operating Modes (5250 – 5350 MHz, 5470 – 5725 MHz)

☐ Master Device
☒ Client Device (no In Service Monitoring, no Ad-Hoc mode)
☐ Client Device with In-Service Monitoring

Antenna Gains / EIRP (5250 – 5350 MHz, 5470 – 5725 MHz)

| | **5250 – 5350 MHz** | **5470 – 5725 MHz** |
|---|---|---|
| Lowest Antenna Gain (dBi) | 0.91 | 0.91 |
| Highest Antenna Gain (dBi) | 0.91 | 0.91 |
| DFS Detection Threshold (dBm) | -62 | |

Channel Protocol
☒ IP Based
☐ Frame Based
☐ OTHER_____

The EUT did not require modifications during testing in order to comply with the requirements of the standard(s) referenced in this test report.

## 2.3 TEST CONDITIONS AND CHANNEL

| | Normal Test Conditions |
|---|---|
| Temperature | -10°C – 50°C |
| Relative Humidity | 20% - 75% |
| Supply Voltage | AC 230V/50Hz |

| Channel List | | |
|---|---|---|
| Band Frequency | EUT Channel | Test Frequency (MHz) |
| U-NII-2A | CH58 | 5290 |

| Channel List | | |
|---|---|---|
| Band Frequency | EUT Channel | Test Frequency (MHz) |
| U-NII-2C | CH122 | 5610 |

## 2.4 DFS MEASUREMENT INSTRUMENTATION

### a. RADAR GENERATION SYSTEM

An Agilent PSG is used as the radar-generating source. The integral arbitrary waveform generators are programmed using Agilent's "Pulse Building" software and Elliott custom software to produce the required waveforms, with the capability to produce both unmodulated and modulated (FM Chirp) pulses. Where there are multiple values for a specific radar parameter then the software selects a value at random and, for FCC tests, the software verifies that the resulting waveform is truly unique.

With the exception of the hopping waveforms required by the FCC's rules (see below), the radar generator is set to a single frequency within the radar detection bandwidth of the EUT.

Frequency hopping radar waveforms are simulated using a time domain model. A randomly hopping sequence algorithm (which uses each channel in the hopping radar's range once in a hopping sequence) generates a hop sequence. A segment of the first 100 elements of the hop sequence are then examined to determine if it contains one or more frequencies within the radar detection bandwidth of the EUT. If it does not then the first element of the segment is discarded and the next frequency in the sequence is added. The process repeats until a valid segment is produced. The radar system is then programmed to produce bursts at time slots coincident with the frequencies within the segment that fall

in the detection bandwidth. The frequency of the generator is stepped in 1 MHz increments across the EUT's detection range.

The radar signal level is verified during testing using a CW signal with the AGC function switched on. Correction factors to account for the fact that pulses are generated with the AGC functions switched off are measured annually and an offset is used to account for this in the software. The generator output is connected to the coupling port of the conducted set-up or to the radar-generating antenna.

### b. CHANNEL MONITORING SYSTEM

Channel monitoring is achieved using a spectrum analyzer and digital storage oscilloscope. The analyzer is configured in a zero-span mode, center frequency set to the radar waveform's frequency or the center frequency of the EUT's operating channel.

The IF output of the analyzer is connected to one input of the oscilloscope and analyzer.
A signal generator output is set to send either the modulating signal directly or a pulse gate with an output pulse co-incident with each radar pulse. This output is connected to a second input on the oscilloscope and the oscilloscope displays both the channel traffic (via the if input) and the radar pulses on its display.

For in service monitoring tests the analyzer sweep time is set to > 20 seconds and the oscilloscope is configured with a data record length of 10 seconds for the short duration and frequency hopping waveforms, 20 seconds for the long duration waveforms. Both instruments are set for a single acquisition sequence. The analyzer is triggered 500ms before the start of the waveform and the oscilloscope is triggered directly by the modulating pulse train. Timing measurements for aggregate channel transmission time and channel move time are made from the oscilloscope data, with the end of the waveform clearly identified by the pulse train on one trace. The analyzer trace data is used to confirm that the last transmission occurred within the 10-second record of the oscilloscope. If necessary the record length of the oscilloscope is expanded to capture the last transmission on the channel prior to the channel move.

Channel availability check time timing plots are made using the analyzer. The analyzer is triggered at start of the EUT's channel availability check and used to verify that the EUT does not transmit when radar is applied during the check time.
The analyzer detector and oscilloscope sampling mode is set to peak detect for all plots.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until |
|---|---|---|---|---|---|
| Signal Generator | keysight | N5182B | MY59100717 | 2026-03-03 | 2027-03-02 |
| Signal Analyzer | keysight | N9010B | MY60242508 | 2026-03-03 | 2027-03-02 |
| Attenuator | eastsheep | 90db | N.A | 2026-03-02 | 2027-03-01 |
| Router | netis (FCC ID: T58X30SR) | X30S | 1200023545300032 | N.C.R | N.C.R |
| Temperature & Humidity | JINGCHUANG | BT-3 | N.A | 2026-03-05 | 2027-03-04 |
| Testing Software | MTS8310_V2.0.0.0_MW | | | | |

## 3. DFS PARAMETERS

### 3.1 DFS PARAMETERS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| **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 |

Table 2: Applicability of DFS requirements during normal operation

| **Requirement** | **Operational Mode** | |
|---|---|---|
| | **Master Device or Client with 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 |

| **Additional requirements for devices with multiple bandwidth modes** | **Master Device or Client with Radar Detection** | **Client Without Radar Detection** |
|---|---|---|
| *U-NII Detection Bandwidth and Statistical Performance Check* | All BW modes must be tested | Not required |
| *Channel Move Time and Channel Closing Transmission Time* | Test using widest BW mode available | Test using the widest BW mode available for the link |
| *All other tests* | Any single BW mode | Not required |
| **Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. | | |

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

| **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.<br>**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.<br>**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01. | |

Table 4: DFS Response Requirement Values

| **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 5 – Short Pulse Radar Test Waveforms

| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu sec}}\right)\right\}$ | 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 5a - Pulse Repetition Intervals Values for Test A

| **Pulse Repetition Frequency Number** | **Pulse Repetition Frequency (Pulses Per Second)** | **Pulse Repetition Interval (Microseconds)** |
|---|---|---|
| 1 | 1930.5 | 518 |
| 2 | 1858.7 | 538 |
| 3 | 1792.1 | 558 |
| 4 | 1730.1 | 578 |
| 5 | 1672.2 | 598 |
| 6 | 1618.1 | 618 |
| 7 | 1567.4 | 638 |
| 8 | 1519.8 | 658 |
| 9 | 1474.9 | 678 |
| 10 | 1432.7 | 698 |
| 11 | 1392.8 | 718 |
| 12 | 1355 | 738 |
| 13 | 1319.3 | 758 |
| 14 | 1285.3 | 778 |
| 15 | 1253.1 | 798 |
| 16 | 1222.5 | 818 |
| 17 | 1193.3 | 838 |
| 18 | 1165.6 | 858 |
| 19 | 1139 | 878 |
| 20 | 1113.6 | 898 |
| 21 | 1089.3 | 918 |
| 22 | 1066.1 | 938 |
| 23 | 326.2 | 3066 |

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

| Radar Type | Number of Trials | Number of Successful Detections | Minimum Percentage of Successful Detection |
|---|---|---|---|
| 1 | 35 | 29 | 82.9% |
| 2 | 30 | 18 | 60% |
| 3 | 30 | 27 | 90% |
| 4 | 50 | 44 | 88% |
| Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2% | | | |

Long Pulse Radar Test Waveform

Table 6 – Long Pulse Radar Test Waveform

| 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 |

Figure 1 provides a graphical representation of the Long Pulse Radar Test Waveform.

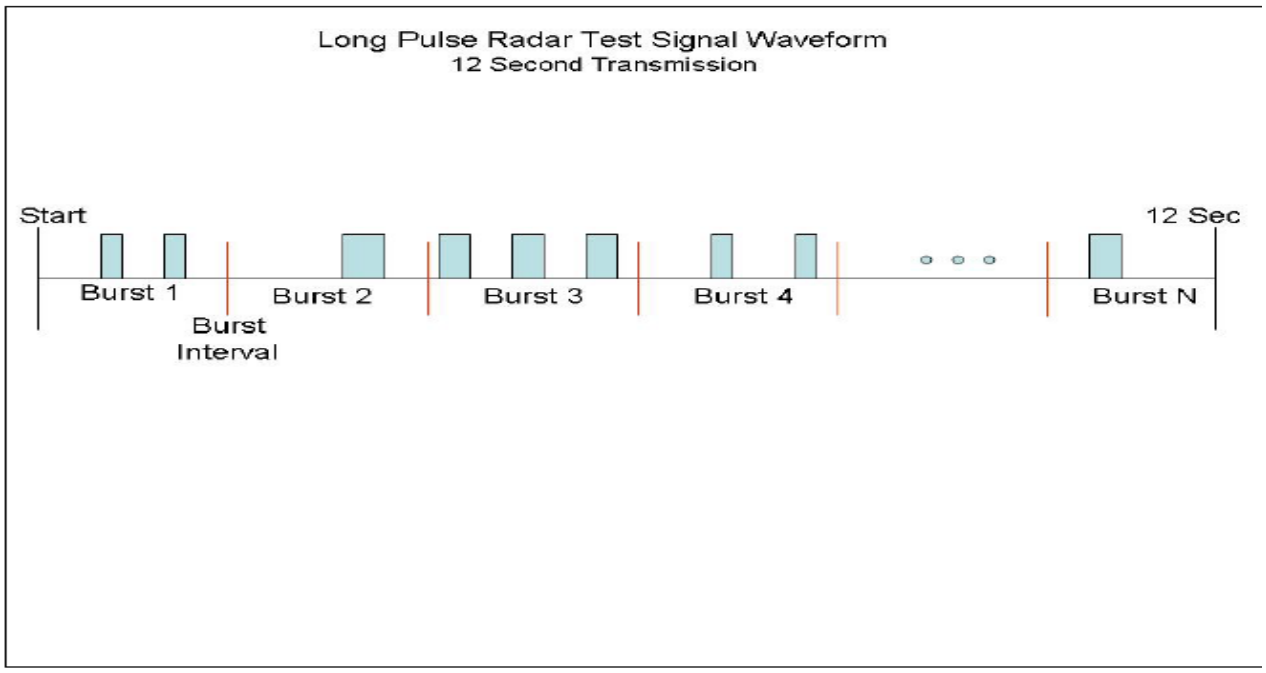



Table 7 – Frequency Hopping Radar Test Waveform

| 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 |

## 3.2 DFS–TEST RESULTS

### 3.2.1 TEST RESULTS– FCC Part 15.407 CLIENT DEVICE

Shutdown Time

| Mode | Frequency (MHz) | Channel Move Time (s) | Limit Channel Move Time (s) | Close Transmission Time (s) | Limit Close Transmission Time (s) | Close Transmission Time after 200ms(s) | Limit Close Transmission Time after 200ms (s) | Verdict |
|---|---|---|---|---|---|---|---|---|
| ac80 | 5290 | 1.0177 | 10 | 0.03 | 0.26 | 0.024 | 0.06 | Pass |
| ac80 | 5610 | 1.0381 | 10 | 0.032 | 0.26 | 0.0256 | 0.06 | Pass |

Notes:
1) Tests were performed using the conduction test method.
2) Channel availability check, detection threshold and non-occupancy period are not applicable to client devices.
3) The data source is calculated by the system program.

### 3.2.2 DFS MEASUREMENT METHODS

a. DFS – CHANNEL CLOSING TRANSMISSION TIME AND CHANNEL MOVE TIME

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.
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.

b. DFS – CHANNEL NON-OCCUPANCY AND VERIFICATION OF PASSIVE SCANNING

Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

c. CHANNEL AVAILABILITY CHECK TIME

Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

d. CONTROL (TPC)

Compliance with the transmit power control requirements for devices is demonstrated through measurements showing multiple power levels and manufacturer statements explaining how the power control is implemented.

e. DETECTION PROBABILITY / SUCCESS RATE

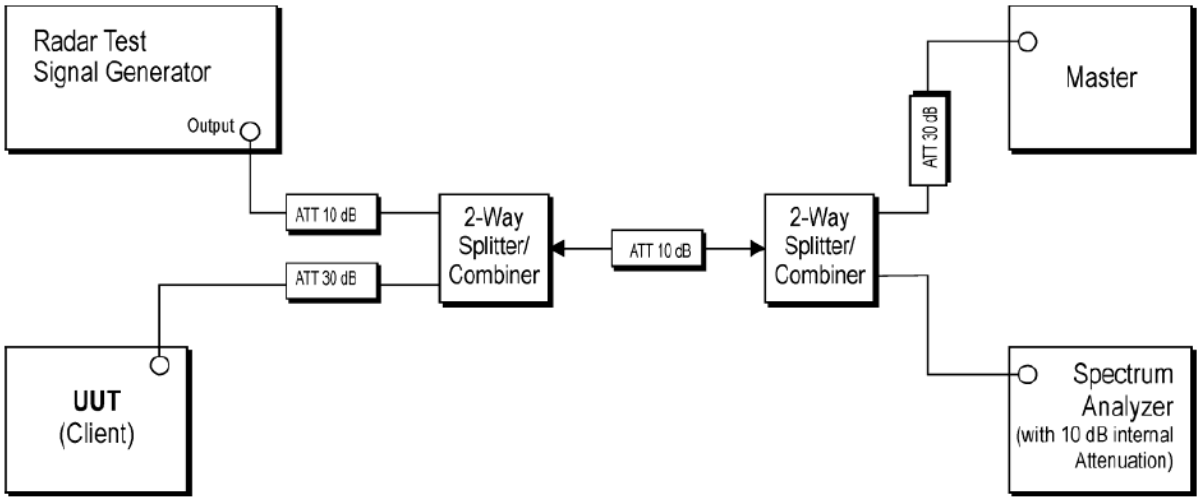
During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. Minimum 100% of the U-NII 99% transmission power bandwidth.

f. NON- OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring

### 3.2.3 DFS CONDUCTION TEST METHOD

a. The signal level of the simulated waveform is set to a reference level equal to the threshold level (plus 1dB if testing against FCC requirements). Lower levels may also be applied on request of the manufacturer.
The signal level is verified by measuring the CW signal level at the coupling point to the RDD antenna port. The radar signal level is calculated from the measured level, R (dBm) and the lowest gain antenna assembly intended for use with the RDD
If both master and client devices have radar detection capability then the radar level at the non RDD is verified to be at least 20dB below the threshold level to ensure that any responses are due to the RDD detecting radar.
The antenna connected to the channel monitoring subsystem is positioned to allow both master and client transmissions to be observed, with the level of the EUT's transmissions between 6 and 10dB higher than those from the other device.

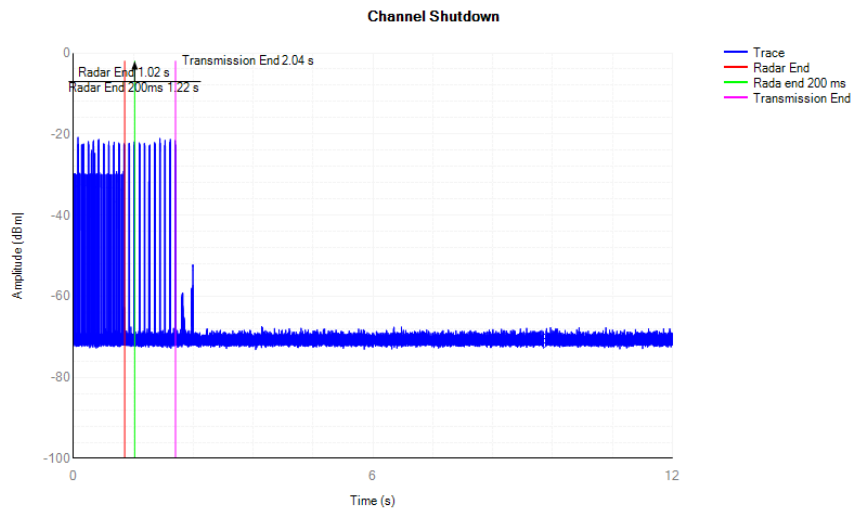



b. *Set-up B* is a set-up whereby the UUT is an RLAN device operating in slave mode, with or without Radar Interference Detection function. This set-up also contains an RLAN device operating in master mode. The radar test signals are injected into the master device. The UUT (slave device)is associated with the master device. Figure 5 shows an example for *Set-up B*. The set-up used shall be documented in the test report.
Channel loading mode:
EUT connects to the router through DFS setup, then controls and switches the EUT channel on the router background page.

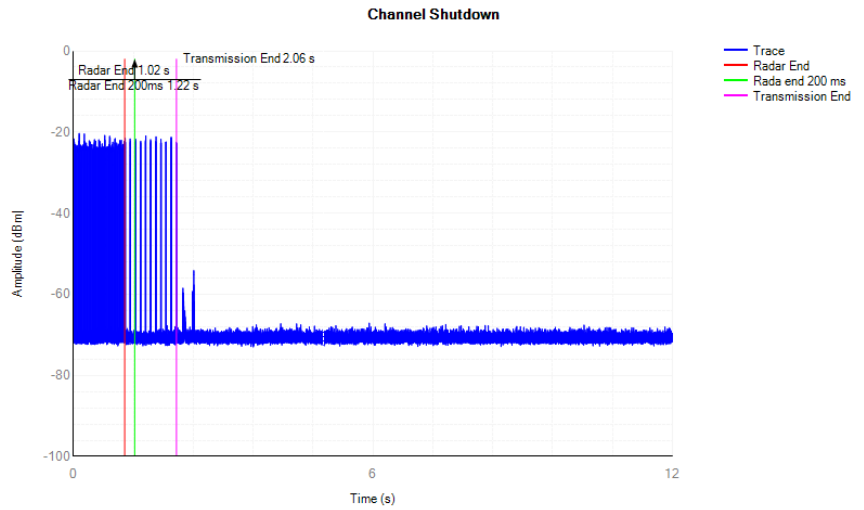
### 3.2.4 DFS Test Data

Shutdown Time

| Test Graphs |
|---|
| ac80 5290MHz Shutdown |

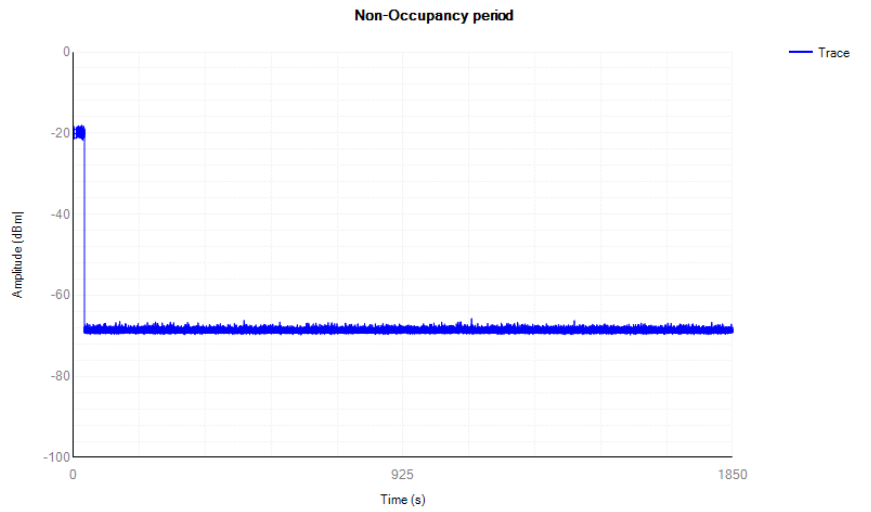



| ac80 5610MHz Shutdown |
|---|

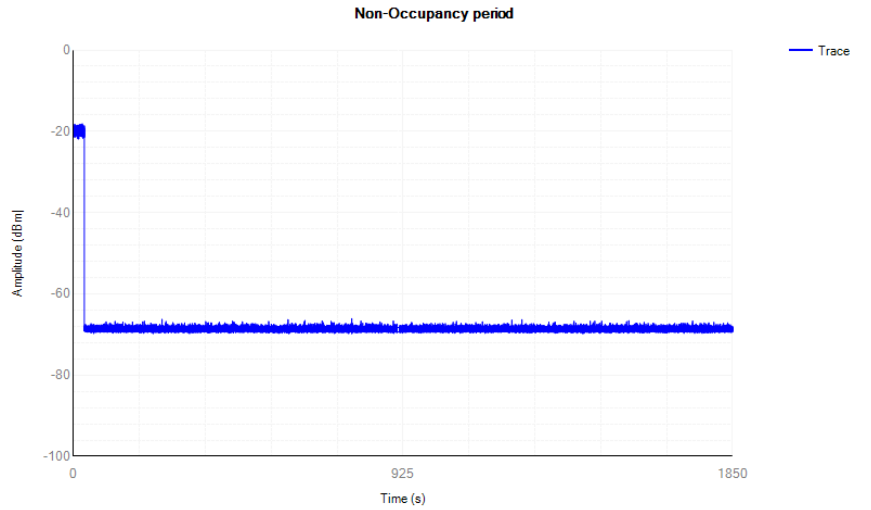


Non-Occupancy

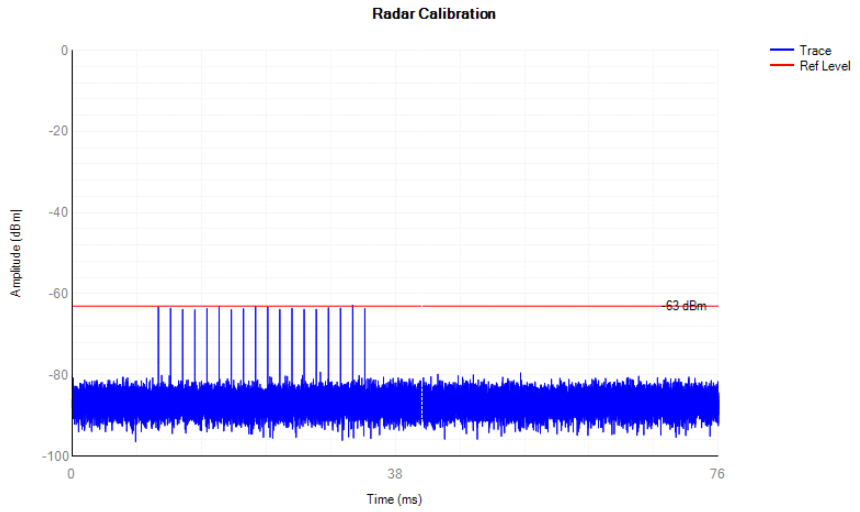
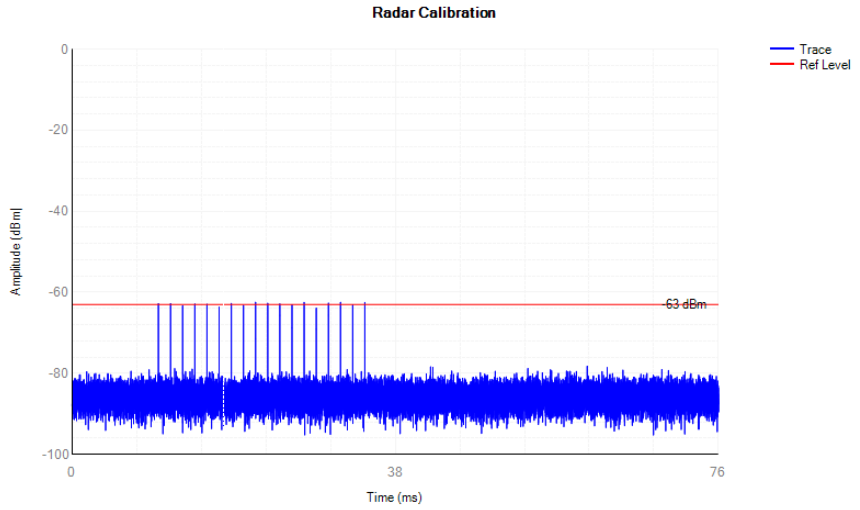
| Test Graphs |
| --- |
| ac80 5290MHz Non-Occupancy |



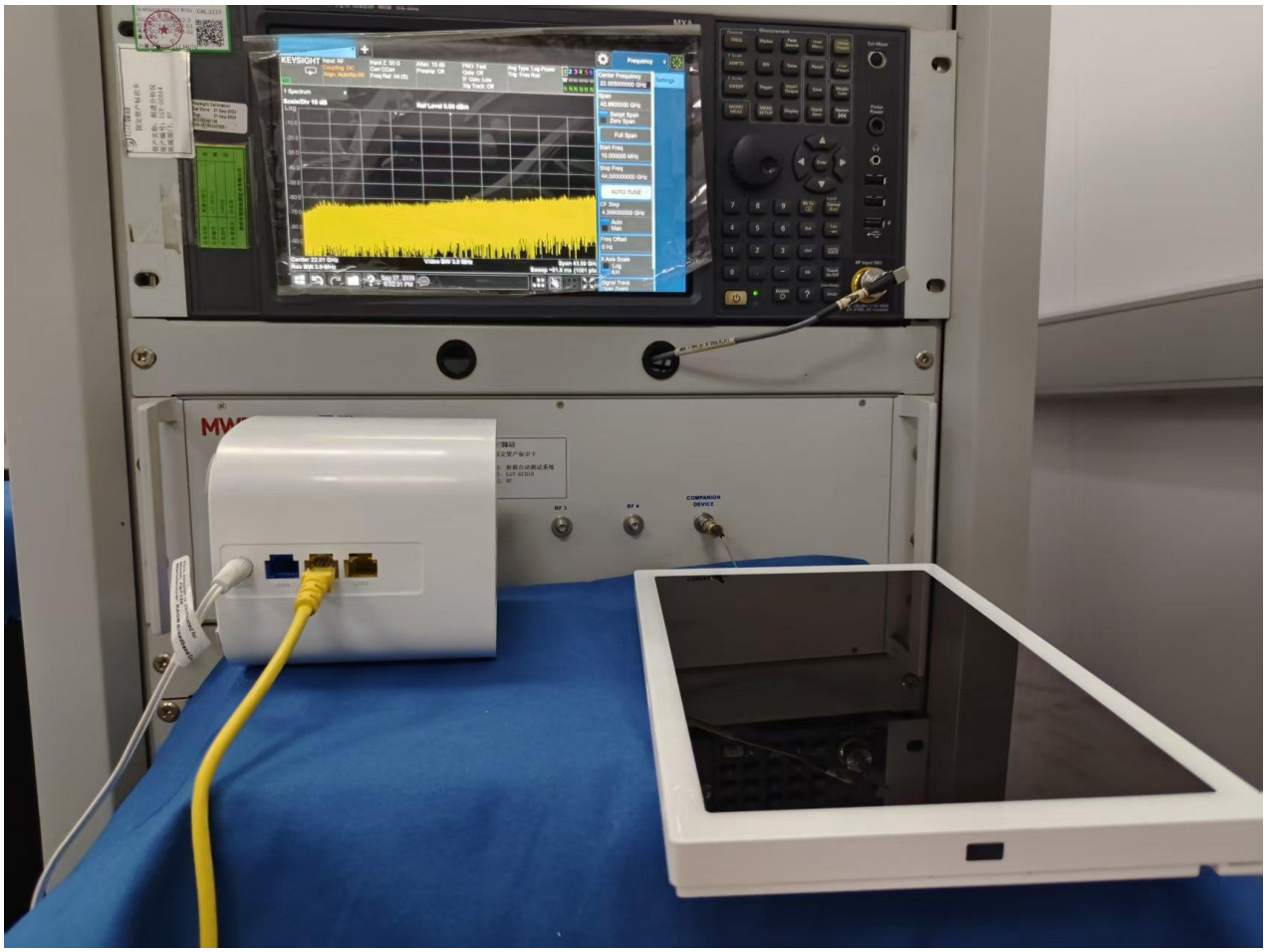

ac80 5610MHz Non-Occupancy



Radar Waveform Calibration

| Test Graphs |
| --- |
| 5290MHz DFS_FCC_T0 |
|  |
| 5610MHz DFS_FCC_T0 |
|  |

3.2.5 DFS Test photo




※※※※※END OF THE REPORT※※※※※