



# RF Test Report



Report Number : 6128625036801  
Applicant : VITA ELECTRONICS LTD  
Product : TFT LCD COLOR MONITOR  
PUBLIC VIEW MONITOR  
Brand : clintonelectronics  
Model : CE-P43E-B / CE-P43XXXXXXXXXX  
FCC ID : 2AVEACE-P43-7005  
:

In accordance with

FCC rule Part §15.407

| RESPONSIBLE FOR | NAME       | SIGNATURE                                                                            | DATE       |
|-----------------|------------|--------------------------------------------------------------------------------------|------------|
| Approved By     | Jack Chang |  | 2025.10.14 |
| Prepared By     | Ariel Hsu  |  | 2025.10.14 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service control rules.

## EXECUTIVE SUMMARY

TÜV SÜD Asia Ltd., reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Asia Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Asia Ltd. issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.

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## 1 General Information

### 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

History of this test report

| Issue | Description of Change | Date of Issue |
|-------|-----------------------|---------------|
| 1     | Initial Issue         | 2025-10-14    |

### 1.2 Introduction

The information contained in this report is intended to show verification of RF qualification approval. The testing requirements of the standards for the tests listed in Section 1.5.

Applicant : VITA ELECTRONICS LTD  
Address : 5F., No. 103, Chou Tze St., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)  
Manufacturer : VITA ELECTRONICS LTD  
Product Name : TFT LCD COLOR MONITOR  
PUBLIC VIEW MONITOR  
Model Number(s) : CE-P43E-B / CE-P43XXXXXXXXXX  
Kernal Version : 3.10.0  
michael@ubuntu-srv1 #215  
Hardware Version : rk3288-userdebug 6.0.1 MXC89K user.  
Michael.20250709.203015 test-keys  
OS : 6.0.1  
Date of Receipt of EUT : 2025-06-30  
Start of Test : 2025-09-03  
Finish of Test : 2025-09-17  
Test Laboratory : TÜV SÜD Asia Ltd., Taiwan Branch  
Address : 7F., No. 37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei City 11270, R.O.C. Taiwan  
Test Location : TÜV SÜD Asia Ltd., Taiwan Branch, Guishan Laboratory  
Address : No. 31, Dinghu Road, Guishan District, Taoyuan City, TAIWAN (R.O.C.)

The test facility is accredited by TAF (member of ILAC), under number 2573 according to ISO/IEC 17025: 2017.

**1.3 Applied Standard**

|                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC rule Part §15.407                                                                                                                                                         |
| FCC Part 15, Subpart E §15.407<br>FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02<br>FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 |

**1.4 Deviation from standards**

None

**1.5 List of applied test(s) of the EUT**

| FCC rule Part §15.407 |                         |           |        |
|-----------------------|-------------------------|-----------|--------|
| FCC Clause            | Test item               | Result    | Remark |
| §15.407(h)            | TPC and DFS Measurement | Compliant |        |

## 2 General EUT Information

All information in this chapter was provided by the applicant.

### 2.1 Variation of family model(s)

#### 2.1.1 List of family model(s)

| Brand              | Product Name          | Type Identification                                      | Difference                                                                              |
|--------------------|-----------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------|
| clintonelectronics | PUBLIC VIEW MONITOR   | CE-P43E-B                                                | All models are electrically identical, different model names are for marketing purpose. |
|                    | PUBLIC VIEW MONITOR   | CE-                                                      |                                                                                         |
|                    | TFT LCD COLOR MONITOR | P43XXXXXXXXXX(clarified/ specified with it's definition) |                                                                                         |

#### 2.1.2 Reason for selection of EUT

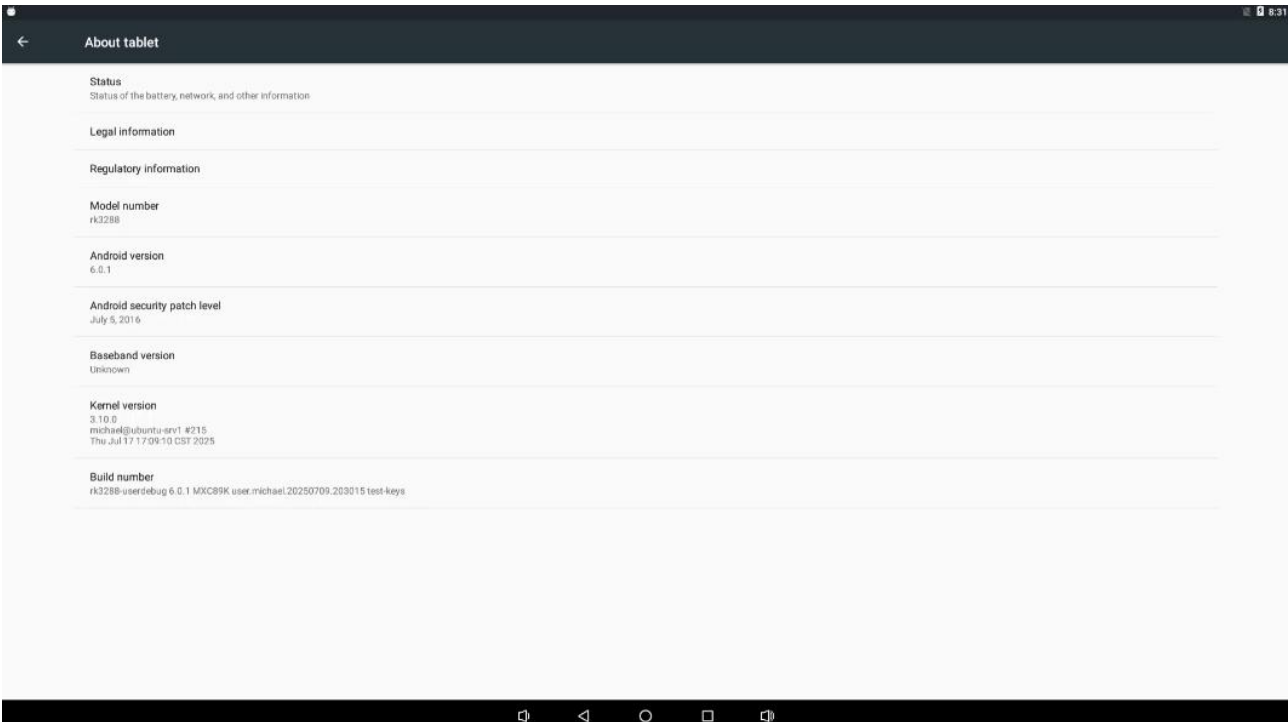
Not applicable

## 2.2 Technical Specification of EUT

| Item                      | EUT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Frequency       | Band 1: 5180 MHz to 5240 MHz<br>Band 2a: 5260 MHz to 5320 MHz<br>Band 2c: 5500 MHz to 5720 MHz<br>Band 3: 5745 MHz to 5825 MHz                                                                                                                                                                                                                                                                                                                                                                                                     |
| Channel number            | <div> <div>Band 1:</div> <div>4 for 20 MHz BW mode</div> <div>2 for 40 MHz BW mode</div> <div>1 for 80 MHz BW mode</div> </div> <div> <div>Band 2a:</div> <div>4 for 20 MHz BW mode</div> <div>2 for 40 MHz BW mode</div> <div>1 for 80 MHz BW mode</div> </div> <div> <div>Band 2c:</div> <div>12 for 20 MHz BW mode</div> <div>6 for 40 MHz BW mode</div> <div>3 for 80 MHz BW mode</div> </div> <div> <div>Band 3:</div> <div>5 for 20 MHz BW mode</div> <div>2 for 40 MHz BW mode</div> <div>1 for 80 MHz BW mode</div> </div> |
| Data Rate                 | 802.11a: up to 54 Mbps<br>802.11n HT20: up to 72.2 Mbps<br>802.11n HT40: up to 150 Mbps<br>802.11ac VHT20: up to 86.7 Mbps<br>802.11ac VHT40: up to 200 Mbps<br>802.11ac VHT80: up to 433.3 Mbps                                                                                                                                                                                                                                                                                                                                   |
| Operation Voltage         | 24.0Vdc From Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Modulation                | OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Output Power (mW) | 5180 ~ 5240 MHz: 23.496328<br>5260 ~ 5320 MHz: 27.733201<br>5500 ~ 5720 MHz: 29.580125<br>5745 ~ 5825 MHz: 22.855988                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum EIRP (mW)         | 5260 ~ 5320 MHz: 43.052661<br>5500 ~ 5720 MHz: 48.194780                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



2.3 DFS Firmware version



2.4 Antenna List

| Antenna Type | Brand | Model          | Connector | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-------|----------------|-----------|-------------|-------------------------|
| Dipole       | Cowin | CW-20241024200 | RP-SMA    | 5150 – 5250 | 1.75                    |
|              |       |                |           | 5250 – 5350 | 1.91                    |
|              |       |                |           | 5470 – 5725 | 2.12                    |
|              |       |                |           | 5725 - 5850 | 0.98                    |

### 3 Configuration of Equipment

#### 3.1 Equipment used

| No. | Equipment                | Brand   | Model No. | FCC ID/DoC  | Comment         |
|-----|--------------------------|---------|-----------|-------------|-----------------|
| 1   | 802.11ax wireless Router | NETGEAR | RAXE500   | PY318300455 | 5G Ant gain:5dB |

NOTE: This device was functioned as a ☒ Master ☐ Slave device during the DFS test.

| No. | Equipment               | Model No. | Software/Firmware Version |
|-----|-------------------------|-----------|---------------------------|
| 1   | Tri-Band WiFi 6E Router | RAXE500   | V1.2.13.100_2.1.46.1      |

Software/Firmware Information.

## **4 General Test Configurations**

The EUT has been tested under Transmitting and Receiving condition. And used to control the EUT for staying in engineering mode that enables selectable of channel, and capable of continuous transmitting and constant receiving mode.

Remark: All applicable test items were tested based on the combination of modulation scheme that generates the worst case.

#### 4.1 Carrier Frequency and Channel

| Band                 | Channel | Frequency (MHz) | 802.11a<br>802.11n HT20<br>802.11ac VHT20 | 802.11n HT40<br>802.11ac VHT40 | 802.11ac VHT80 |
|----------------------|---------|-----------------|-------------------------------------------|--------------------------------|----------------|
| U-NII-1<br>(Band 1)  | 36      | 5180            | V                                         |                                |                |
|                      | 38      | 5190            |                                           | V                              |                |
|                      | 40      | 5200            | V                                         |                                |                |
|                      | 42      | 5210            |                                           |                                | V              |
|                      | 44      | 5220            | V                                         |                                |                |
|                      | 46      | 5230            |                                           | V                              |                |
|                      | 48      | 5240            | V                                         |                                |                |
| U-NII-2A<br>(Band 2) | 52      | 5260            | V                                         |                                |                |
|                      | 54      | 5270            |                                           | V                              |                |
|                      | 56      | 5280            | V                                         |                                |                |
|                      | 58      | 5290            |                                           |                                | V              |
|                      | 60      | 5300            | V                                         |                                |                |
|                      | 62      | 5310            |                                           | V                              |                |
|                      | 64      | 5320            | V                                         |                                |                |
| U-NII-2C<br>(Band 3) | 100     | 5500            | V                                         |                                |                |
|                      | 102     | 5510            |                                           | V                              |                |
|                      | 104     | 5520            | V                                         |                                |                |
|                      | 106     | 5530            |                                           |                                | V              |
|                      | 108     | 5540            | V                                         |                                |                |
|                      | 110     | 5550            |                                           | V                              |                |
|                      | 112     | 5560            | V                                         |                                |                |
|                      | 116     | 5580            | V                                         |                                |                |
|                      | 118     | 5590            |                                           | V                              |                |
|                      | 120     | 5600            | V                                         |                                |                |
|                      | 122     | 5610            |                                           |                                | V              |
|                      | 124     | 5620            | V                                         |                                |                |
|                      | 126     | 5630            |                                           | V                              |                |
|                      | 128     | 5640            | V                                         |                                |                |
|                      | 132     | 5660            | V                                         |                                |                |
|                      | 134     | 5670            |                                           | V                              |                |
|                      | 136     | 5680            | V                                         |                                |                |
|                      | 140     | 5700            | V                                         |                                |                |
| Straddle Channel     | 138     | 5690            |                                           |                                | V              |
|                      | 142     | 5710            |                                           | V                              |                |
|                      | 144     | 5720            | V                                         |                                |                |
| U-NII-3<br>(Band 4)  | 149     | 5745            | V                                         |                                |                |
|                      | 151     | 5755            |                                           | V                              |                |
|                      | 153     | 5765            | V                                         |                                |                |
|                      | 155     | 5775            |                                           |                                | V              |
|                      | 157     | 5785            | V                                         |                                |                |
|                      | 159     | 5795            |                                           | V                              |                |
|                      | 161     | 5805            | V                                         |                                |                |
|                      | 165     | 5825            | V                                         |                                |                |

## 4.2 Description of test mode

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability.

EUT has no TPC mechanism implemented, the level of output power stays at fixed and not adjustable.

WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is  $\geq 23$  dBm (EIRP). therefore, the required interference threshold level is -64dBm. after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64dBm.

The rated output power of the master unit is  $< 23$  dBm (EIRP). therefore, the required interference threshold level is -62dBm. after correction for antenna gain and procedural adjustments, the required threshold at the antenna port is -62dBm.

While calibrate the path on antenna port of DFS test equipment (master), measurements equipment (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

### **Message or files that is used for communication between Master and Client:**

IP based system:

For the required channel loading, send packets via software to reach a pay load of at least 17%, via the DFS Master device to the UE.

## 5 Test Result

### 5.1 TPC and DFS Measurement

According to Part 15.407 (h)(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Result: N/A, TPC is not required.

#### 5.1.1 Antenna Requirement

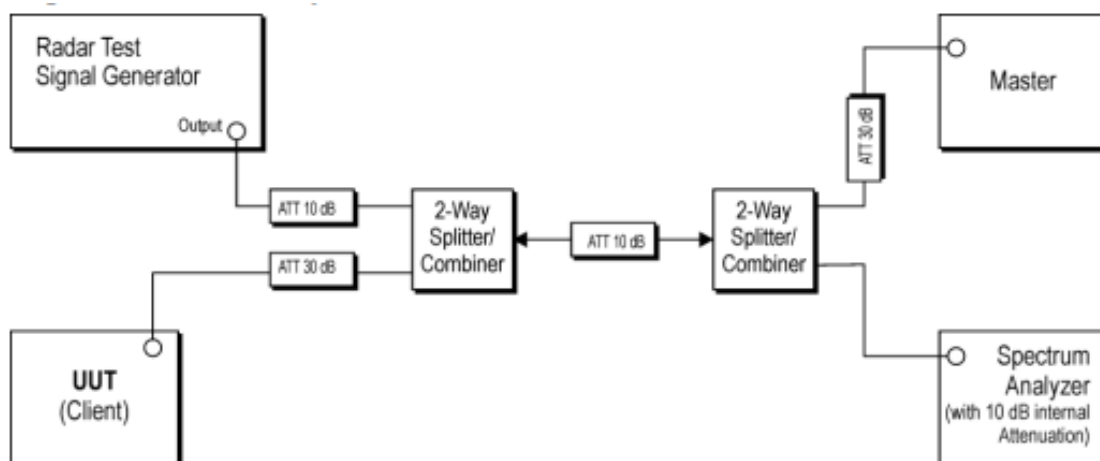
According to §15.407(h)(2) and FCC KDB 905462 D02 , Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

1. Operational Modes. The DFS requirement applies to the following operational modes:
  - a. The requirement for channel availability check time applies in the master operational mode.
  - b. The requirement for channel move time applies in both the master and slave operational modes.
2. 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.
3. Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.
4. 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.

### 5.1.2 Test Setup

#### Setup for Client with injection at the Master (Conducted)



### 5.1.3 Limit

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 mode | 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: Interference Threshold values, Master or Client incorporating In-Service Monitoring

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Value<br>(See Notes 1, 2, and 3) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 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                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

Table 4: DFS Response requirement values

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Value                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <i>Non-occupancy period</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Minimum 30 minutes                                                                                        |
| <i>Channel Availability Check Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 seconds                                                                                                |
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 seconds<br>See Note 1.                                                                                 |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |
| <p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (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.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> 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.</p> |                                                                                                           |

Table 5: Radar Test Waveforms

## Short Pulse Radar

| 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                                                                     | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 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                      |
| <b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                                                                                                                               |                                            |                          |

## Long Pulse Radar

| 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                       |

## Frequency Hopping Radar

| 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                       |

## Note:

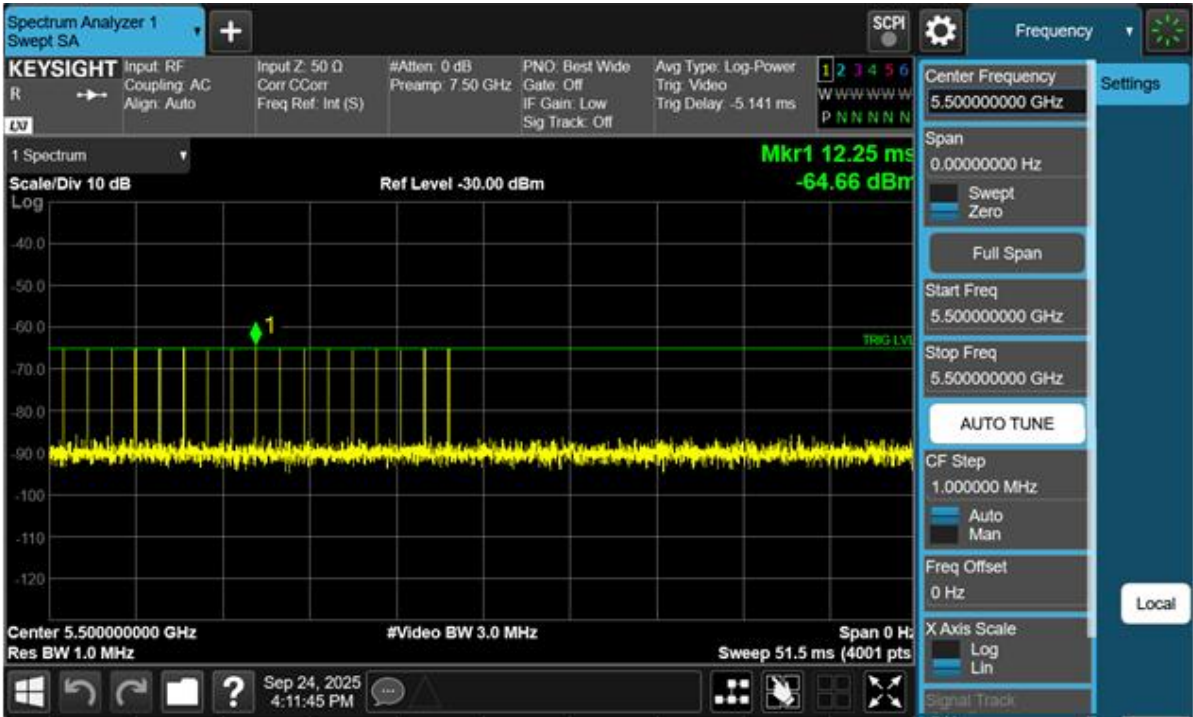
The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.



5.1.4 Measurement result

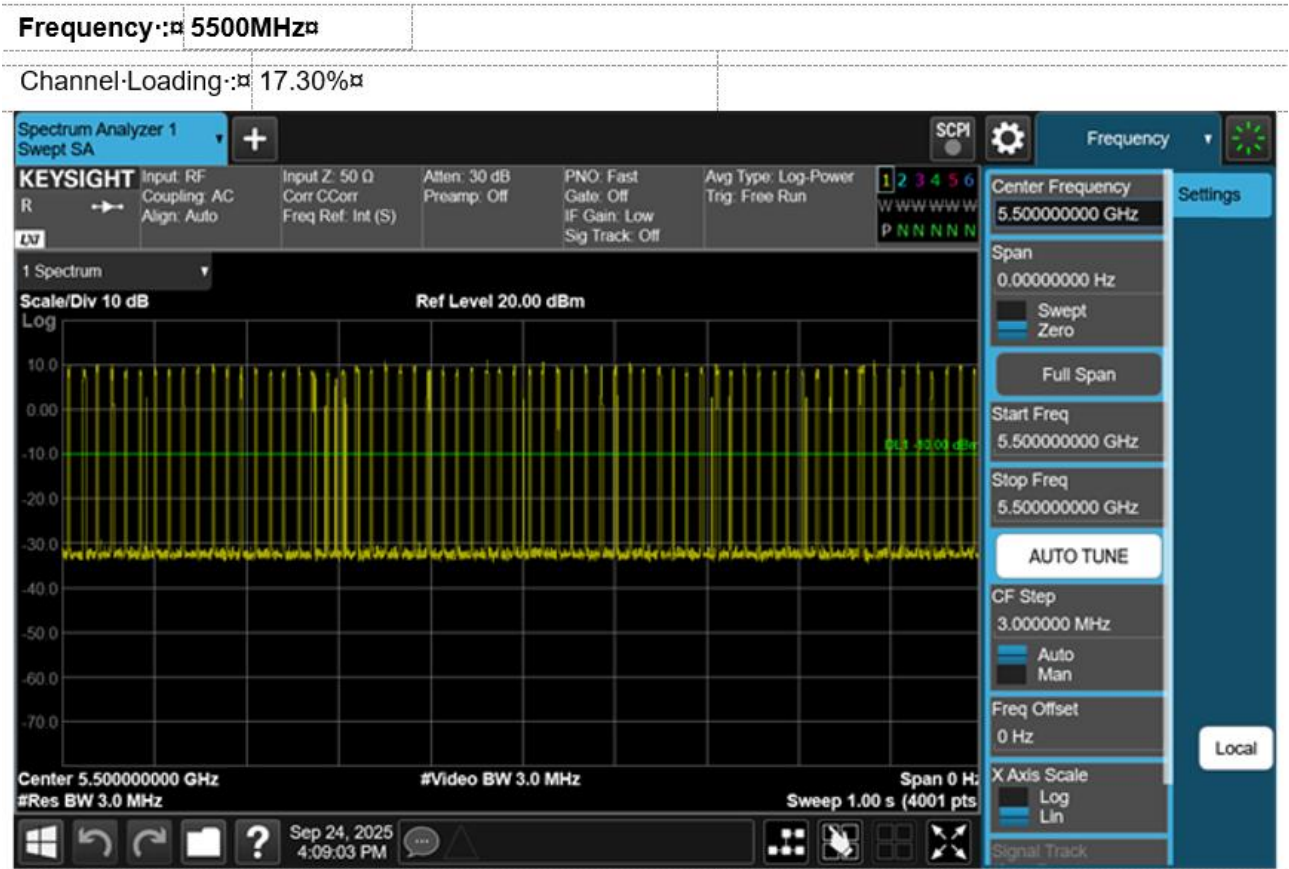
Radar waveforms

Radar type 0





WLAN traffic





|                  |         |
|------------------|---------|
| Frequency:       | 5530MHz |
| Channel Loading: | 17.17%  |





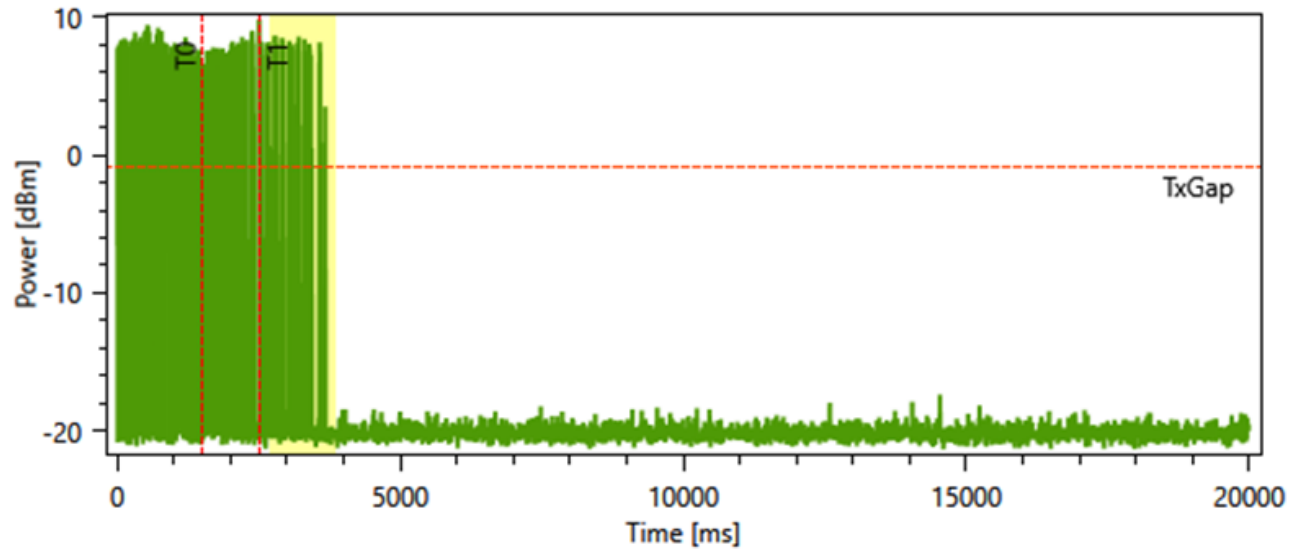
Channel closing transmission and Move time

| Channel Shutdown Result         |             |                   |                                                      |                      |
|---------------------------------|-------------|-------------------|------------------------------------------------------|----------------------|
| Detection Threshold Level (dBm) |             |                   | -64                                                  |                      |
| Modulation Mode                 | Freq. (MHz) | Radar Test Signal | Channel Closing Transmission Time(ms)<br>200ms~10sec | Channel Move Time(s) |
| VHT20                           | 5500        | Type 0            | 0.245                                                | 1.17                 |
| VHT40                           | 5510        | Type 0            | 0.03                                                 | 0.19                 |
| VHT80                           | 5530        | Type 0            | 0.16                                                 | 1.26                 |
| Limit                           |             |                   | 60 ms                                                | 10 sec               |
| Result                          |             |                   | Complied                                             |                      |

Channel Move and Closing Transmission Time - 1

|                    |  |
|--------------------|--|
| Frequency: 5500MHz |  |
|--------------------|--|

Radar Type : FCC-13-22\_type0[0]



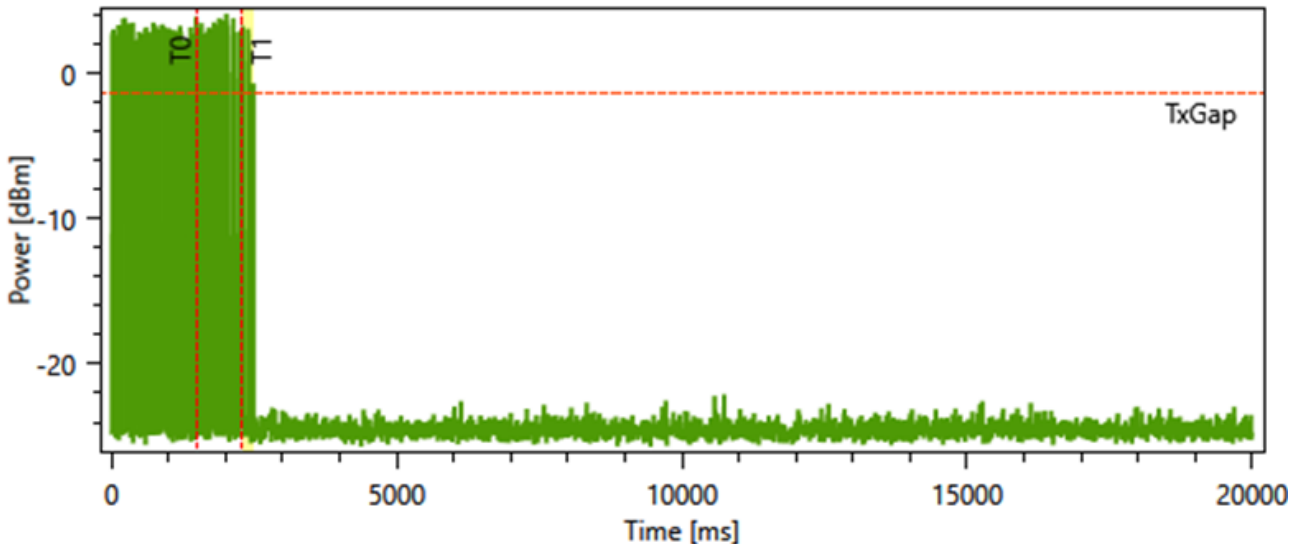
|                             |       |
|-----------------------------|-------|
| Data                        |       |
| Amplitude (dBm)             | -49   |
| Channel Move Time (s)       | 1.17  |
| Channel Closing Tx Time (s) | 0.245 |



Channel Move and Closing Transmission Time - 2

|            |         |
|------------|---------|
| Frequency: | 5510MHz |
|------------|---------|

Radar Type : FCC-13-22\_type0[0]



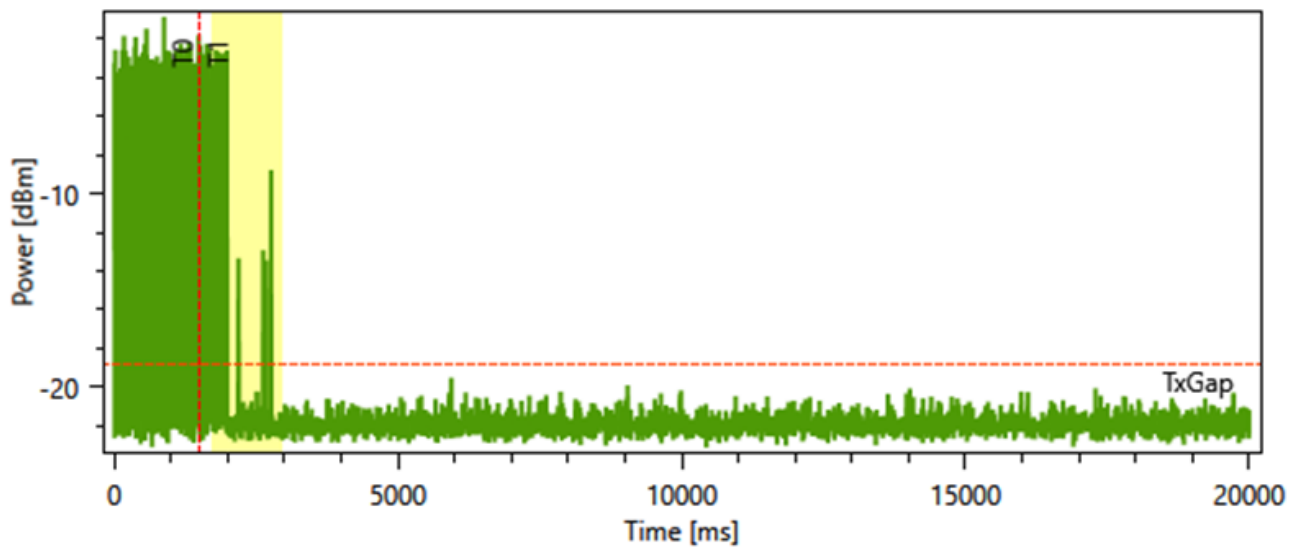
|                              |      |
|------------------------------|------|
| Data                         |      |
| Amplitude (dBm):             | -49  |
| Channel Move Time (s):       | 0.19 |
| Channel Closing Tx Time (s): | 0.03 |



Channel Move and Closing Transmission Time – 3

|             |         |
|-------------|---------|
| Frequency:: | 5530MHz |
|-------------|---------|

Radar Type : FCC-13-22\_type0[0]

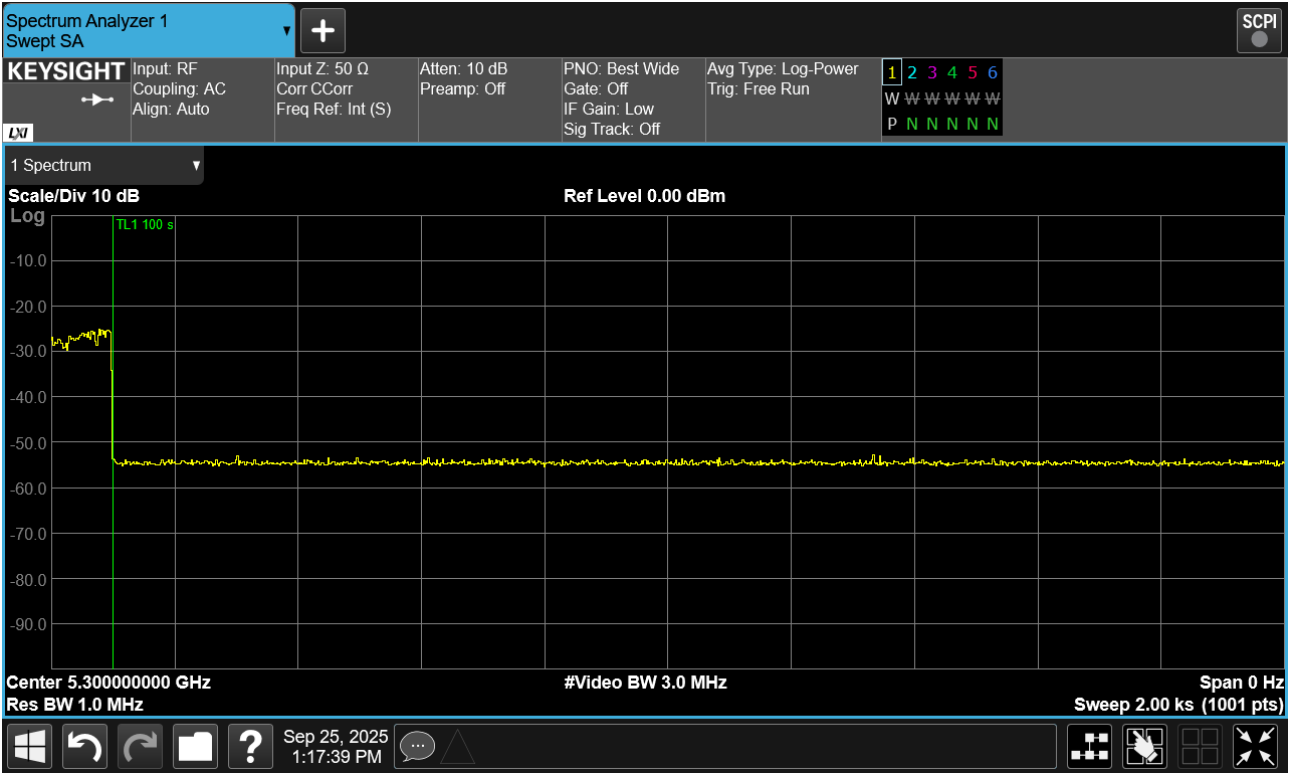


|                               |      |
|-------------------------------|------|
| Data                          |      |
| Amplitude-(dBm)::             | -49  |
| Channel·Move·Time-(s)::       | 1.26 |
| Channel·Closing·Tx·Time-(s):: | 0.16 |

**Verdict:** Note: narrowing the sweep time as the good engineering process for the verification of transmission closing in 200ms



Non-occupancy Period (without radar detection)



**Verdict:** To verify whether channel is unavailable to be operated in 30 minutes.

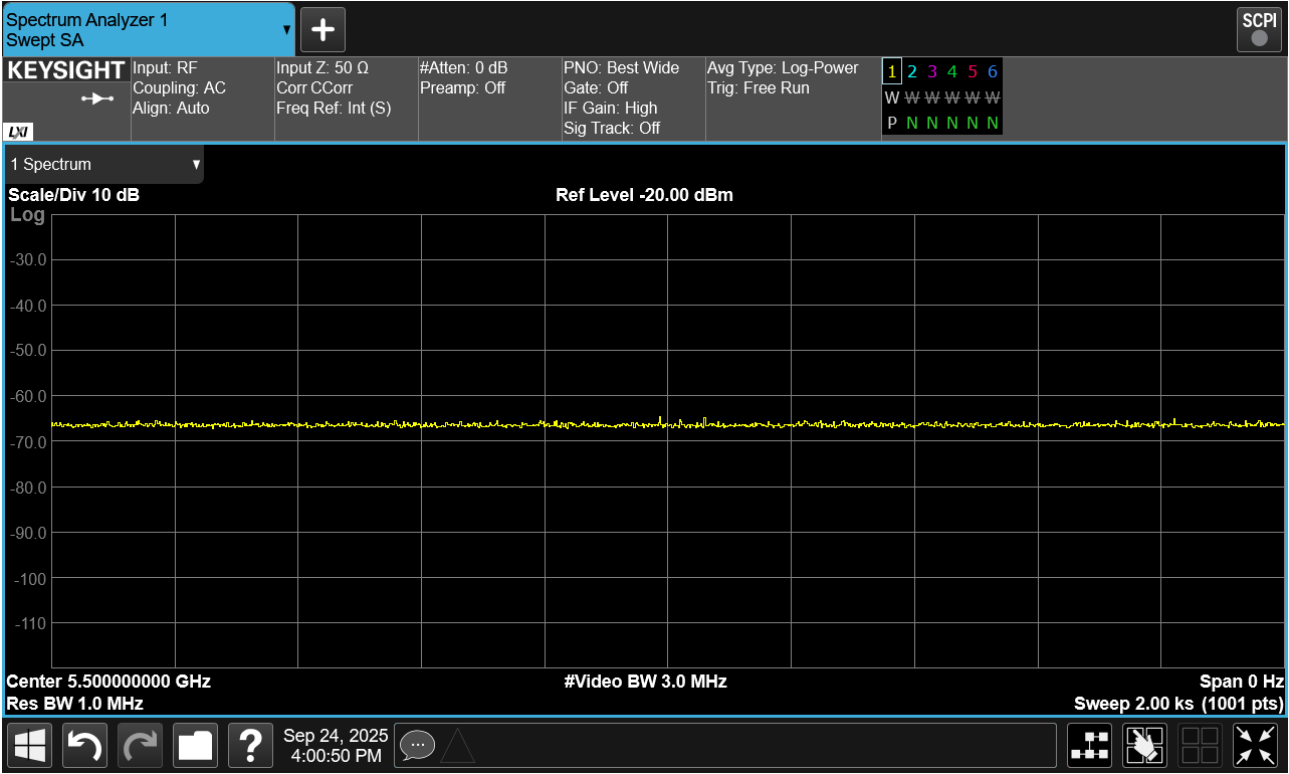
2.0ks = 2000s = 2000 s/min /60 > 30minute



Non-Associated Test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.



**Verdict:** To verify whether channel is unavailable to be operated in 30 minutes.

2.0ks = 2000s = 2000 s/min /60 > 30minute

## 6 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

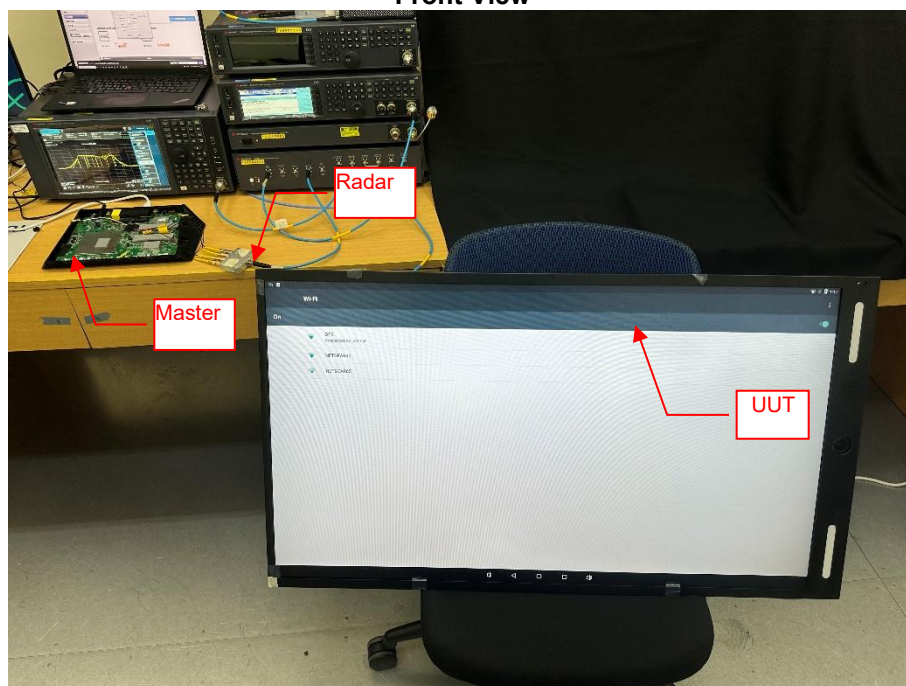
The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

| Test Items              | Measurement uncertainty           |
|-------------------------|-----------------------------------|
| TPC and DFS Measurement | $\pm 1.04\text{Hz}$               |
| Temperature             | $\pm 0.7\text{ }^{\circ}\text{C}$ |
| Humidity                | $\pm 3\%$                         |
| DC / AC Power Source    | $\pm 1\%$                         |

## 7 Photographs of the Test Set-Up

Set-up for Spurious Emissions (Front View)

Front View





## Appendix A. Test Equipment

| Test Software | Manufacturer | Model No. | Version     | Remark    |
|---------------|--------------|-----------|-------------|-----------|
| Test Software | Keysight     | IOT0047A  | 24.11.25.17 | Conducted |

### Test Equipment Used (DFS)

| Equipment         | Manufacturer | Model No.      | Serial No. | Cal. Date     | Cal. Interval |
|-------------------|--------------|----------------|------------|---------------|---------------|
| Spectrum Analyzer | Keysight     | N9000B         | MY62361242 | Jul. 10, 2025 | 1 Year        |
| Signal Generator  | Keysight     | N5172B         | MY61253223 | Jul. 08, 2025 | 1 Year        |
| 4Way Divider      | Woken        | 0120A04208001S | NCR        | NCR           | NCR           |