

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description:** Wireless module installed in Security Appliance  
**Applicant:** Compex Systems Pte Ltd  
178 Paya Lebar Road #05-05 Singapore, 409030  
**Manufacturer:** Compex Systems Pte Ltd  
178 Paya Lebar Road #05-05 Singapore, 409030  
**Brand Name:** COMPEX  
**Model No.:** WLE7000E5  
**/ ISED HVIN:**  
**ISED PMN:** WiFi 7 (802.11BE) 4x4 MU-MIMO 5 GHz Single Band  
Wireless Module  
**Report Number:** TERF2510003297E2  
**FCC ID** TK4WL7000E5  
**IC:** 7849A-WL7000E5  
**Date of EUT Received:** August 14, 2025  
**Date of Test:** October 20, 2025 ~ December 16, 2025  
**Issue Date:** December 29, 2025

Approved By

Jay Lin

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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## Revision History

| Report Number    | Revision | Description | Issue Date        | Revised By | Remark |
|------------------|----------|-------------|-------------------|------------|--------|
| TERF2510003297E2 | 00       | Original    | December 29, 2025 | Susan Lin  |        |
|                  |          |             |                   |            |        |
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|                  |          |             |                   |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                            |                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Description:           | Wireless module installed in Security Appliance                                                                                                                              |
| Brand Name:                | COMPEX                                                                                                                                                                       |
| Model No.:<br>/ ISED HVIN: | WLE7000E5                                                                                                                                                                    |
| Hardware Version:          | 1.02                                                                                                                                                                         |
| Firmware Version:          | fw1_tx_dep_R82                                                                                                                                                               |
| EUT Series No.:            | WA25700467                                                                                                                                                                   |
| Power Supply:              | 12Vdc                                                                                                                                                                        |
| Platform:                  | Product Name: Security Appliance<br> <b>CHECK POINT™</b><br>Brand Name:<br>Model No.: T91WC |

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## 1.2 FCC WLAN 5GHz:

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Number of channels | 802.11 n/ac/ax/be(20MHz) : 24                                            |
|                    | 802.11 n/ac/ax/be(40MHz) : 11                                            |
|                    | 802.11 ac/ax/be(80MHz) : 5                                               |
|                    | 802.11 ac/ax/be(160MHz) : 2                                              |
| Frequency Range    | 802.11 n/ac/ax/be(20MHz) : 5180MHz~5240MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5190MHz~5230MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5210MHz                                         |
|                    | 802.11 n/ac/ax/be(20MHz) : 5260MHz~5320MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5270MHz~5310MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5290MHz                                         |
|                    | 802.11 ac/ax/be(160MHz) : 5250MHz                                        |
|                    | 802.11 n/ac/ax/be(20MHz) : 5500MHz~5700MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5510MHz~5670MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5530MHz~5610MHz                                 |
|                    | 802.11 ac/ax/be(160MHz) : 5570MHz                                        |
|                    | 802.11 n/ac/ax/be(20MHz) : 5745MHz~5825MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5755MHz~5805MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5775MHz                                         |
| Modulation type:   | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n                             |
|                    | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac                    |
|                    | 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax          |
|                    | 4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be |
| Transition Rate:   | 802.11 n_HT20: up to 288.8 Mbps                                          |
|                    | 802.11 n_HT40: up to 600 Mbps                                            |
|                    | 802.11 ac_VHT20: up to 346.8 Mbps                                        |
|                    | 802.11 ac_VHT40: up to 800 Mbps                                          |
|                    | 802.11 ac_VHT80: up to 1733.2 Mbps                                       |
|                    | 802.11 ac_VHT160: up to 3466.8 Mbps                                      |
|                    | 802.11 ax_HE20: up to 573.6 Mbps                                         |
|                    | 802.11 ax_HE40: up to 1147.2 Mbps                                        |
|                    | 802.11 ax_HE80: up to 2402 Mbps                                          |
|                    | 802.11 ax_HE160: up to 4804 Mbps                                         |
|                    | 802.11 be_EHT20: up to 688.2 Mbps                                        |
|                    | 802.11 be_EHT40: up to 1376.5 Mbps                                       |
|                    | 802.11 be_EHT80: up to 2882.4 Mbps                                       |
|                    | 802.11 be_EHT160: up to 5764.8 Mbps                                      |

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### 1.3 IC WLAN 5GHz:

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Number of channels | 802.11 n/ac/ax/be(20MHz) : 21                                            |
|                    | 802.11 n/ac/ax/be(40MHz) : 11                                            |
|                    | 802.11 ac/ax/be(80MHz) : 4                                               |
|                    | 802.11 ac/ax/be(160MHz) : 2                                              |
| Frequency Range    | 802.11 n/ac/ax/be(20MHz) : 5180MHz~5240MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5190MHz~5230MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5210MHz                                         |
|                    | 802.11 n/ac/ax/be(20MHz) : 5260MHz~5320MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5270MHz~5310MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5290MHz                                         |
|                    | 802.11 ac/ax/be(160MHz) : 5250MHz                                        |
|                    | 802.11 n/ac/ax/be(20MHz) : 5500MHz~5580MHz,5660MHz~5700MHz               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5510MHz~5550MHz,5670MHz                       |
|                    | 802.11 ac/ax/be(80MHz) : 5530MHz,5610MHz                                 |
|                    | 802.11 ac/ax/be(160MHz) : 5570MHz                                        |
|                    | 802.11 n/ac/ax/be(20MHz) : 5745MHz~5825MHz                               |
|                    | 802.11 n/ac/ax/be(40MHz) : 5755MHz~5805MHz                               |
|                    | 802.11 ac/ax/be(80MHz) : 5775MHz                                         |
| Modulation type:   | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n                             |
|                    | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac                    |
|                    | 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax          |
|                    | 4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be |
| Transition Rate:   | 802.11 n_HT20: up to 288.8 Mbps                                          |
|                    | 802.11 n_HT40: up to 600 Mbps                                            |
|                    | 802.11 ac_VHT20: up to 346.8 Mbps                                        |
|                    | 802.11 ac_VHT40: up to 800 Mbps                                          |
|                    | 802.11 ac_VHT80: up to 1733.2 Mbps                                       |
|                    | 802.11 ac_VHT160: up to 3466.8 Mbps                                      |
|                    | 802.11 ax_HE20: up to 573.6 Mbps                                         |
|                    | 802.11 ax_HE40: up to 1147.2 Mbps                                        |
|                    | 802.11 ax_HE80: up to 2402 Mbps                                          |
|                    | 802.11 ax_HE160: up to 4804 Mbps                                         |
|                    | 802.11 be_EHT20: up to 688.2 Mbps                                        |
|                    | 802.11 be_EHT40: up to 1376.5 Mbps                                       |
|                    | 802.11 be_EHT80: up to 2882.4 Mbps                                       |
|                    | 802.11 be_EHT160: up to 5764.8 Mbps                                      |

**Note:** 5600~5650MHz is disabled in Canada.

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## 1.4 Antenna Designation

| Antenna Type | Supplier | Antenna Part No.   | Freq. (MHz) | Peak Antenna (dBi) |
|--------------|----------|--------------------|-------------|--------------------|
| Dipole       | WIESON   | ARY121-0277-005-00 | 5250-5350   | 3.27               |
|              |          |                    | 5470-5725   | 3.68               |
|              |          | ARY121-0277-007-00 | 5250-5350   | 2.77               |
|              |          |                    | 5470-5725   | 2.99               |
|              |          | ARY121-0277-006-00 | 5250-5350   | 3.27               |
|              |          |                    | 5470-5725   | 3.68               |
|              |          | ARY121-0277-008-00 | 5250-5350   | 2.77               |
|              |          |                    | 5470-5725   | 2.99               |

### Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the lowest gain as worst case scenarios.
2. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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## 2 SUMMARY OF TEST RESULT

| FCC and ISED Rules                                      | Description Of Test     | Result    |
|---------------------------------------------------------|-------------------------|-----------|
| §15.407(h)<br>FCC KDB 905462 D02<br>ISED RSS-247 §7.3.6 | TPC and DFS Measurement | Compliant |

### 2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407  
FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02  
RSS-247 issue 4 July 2025

### 2.2 Measurement Uncertainty

| Test Items              | Uncertainty |      |    |
|-------------------------|-------------|------|----|
| TPC and DFS Measurement | +/-         | 1.49 | Hz |
| Temperature             | +/-         | 0.6  | °C |
| Humidity                | +/-         | 3    | %  |
| DC / AC Power Source    | +/-         | 1    | %  |

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.

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## 2.3 Test Facility

| Laboratory     | Test Site Address                                                                         | Test Site Name | FCC Designation Number / Registration Number | ISED CAB identifier/ Company Number |
|----------------|-------------------------------------------------------------------------------------------|----------------|----------------------------------------------|-------------------------------------|
| TW3702 / 4620A | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027 / 891563                              | TW3702 / 4620A                      |
|                |                                                                                           | SAC 2          |                                              |                                     |
|                |                                                                                           | SAC 3          |                                              |                                     |
|                |                                                                                           | Conduction 1   |                                              |                                     |
|                |                                                                                           | Conducted 1    |                                              |                                     |
|                |                                                                                           | Conducted 2    |                                              |                                     |
|                |                                                                                           | Conducted 3    |                                              |                                     |
|                |                                                                                           | Conducted 4    |                                              |                                     |
|                |                                                                                           | Conducted 5    |                                              |                                     |
|                |                                                                                           | Conducted 6    |                                              |                                     |
|                | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028 / 200037                              | TW3702 / 4620E                      |
|                |                                                                                           | SAC C          |                                              |                                     |
|                |                                                                                           | SAC D          |                                              |                                     |
|                |                                                                                           | SAC G          |                                              |                                     |
|                |                                                                                           | Conducted A    |                                              |                                     |
|                |                                                                                           | Conducted B    |                                              |                                     |
|                |                                                                                           | Conducted C    |                                              |                                     |
|                |                                                                                           | Conducted D    |                                              |                                     |
|                |                                                                                           | Conducted E    |                                              |                                     |
|                |                                                                                           | Conducted F    |                                              |                                     |
|                |                                                                                           | Conducted G    |                                              |                                     |

**Note:** The test site name is noted on the equipment list to indicate where the measurements were conducted.

|                |             |    |                    |            |   |
|----------------|-------------|----|--------------------|------------|---|
| Temperature:   | 22.5~25     | °C | Relative Humidity: | 52~72      | % |
| Test site      | Conducted A |    | Test Start:        | 12/05/2025 |   |
| Test Engineer: | Ari         |    | Test Done:         | 12/16/2025 |   |

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## 3 TEST INSTRUMENT

| Conducted Emission Test Site: Conducted A |            |                                  |               |                           |                          |
|-------------------------------------------|------------|----------------------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR        | MODEL NUMBER                     | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | KEYSIGHT   | 11716C                           | RF46          | 11/13/2025                | 11/12/2026               |
| EMI Test Receiver                         | Anritsu    | N9038A                           | MY52260216    | 11/24/2025                | 11/23/2026               |
| Power Divider                             | Titan      | T0510E4W118Q                     | RF67          | 11/13/2025                | 11/12/2026               |
| Signal Generator                          | Keysight   | N5182B                           | MY59101143    | 02/06/2025                | 02/05/2026               |
| Splitter                                  | RF-LAMBDA  | RFLT2W1G18G                      | RF51          | 11/13/2025                | 11/12/2026               |
| Splitter                                  | RF-LAMBDA  | RFLT2W1G18G                      | RF53          | 11/13/2025                | 11/12/2026               |
| Splitter                                  | RF-LAMBDA  | RFLT2W1G18G                      | RF55          | 11/13/2025                | 11/12/2026               |
| Test Software                             | SGS Taiwan | Dynamic Frequency Selection Test | Ver. 22.01.24 | N.C.R                     | N.C.R                    |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 4 REGULATORY REQUIREMENTS

### 4.1 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.

### 4.2 Dynamic Frequency Selection (DFS)

#### 4.2.1 FCC

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 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.

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Value<br>(See Notes 1, 2, and 3) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral<br>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> |                                  |

- (i) 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.

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- (b) The requirement for channel move time applies in both the master and slave operational modes.
- (ii) 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, is detected within 60 seconds.
- (iii) 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.

**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.

#### 4.2.2 ISED

According to RSS 247 §7.3.6, this section sets out the requirements for equipment utilizing DFS and operating in the 5250-5350 MHz and 5470-5725 MHz bands.

To demonstrate compliance with the DFS radar requirements outlined in this section, ISED accepts either the FCC KDB Procedure 905462 or the DFS test procedure specified in ETSI EN 301 893.

For devices operating in the 5600-5650 MHz band, only the ETSI EN 301 893 test procedure shall be used to demonstrate compliance. Devices using the FCC KDB Procedure 905462 must operate exclusively within the 5250-5350 MHz, 5470-5600 MHz, 5650-5725 MHz bands, or any combination of these bands.

If any part of an operating device's emission bandwidth falls in the bands 5250-5350 MHz or 5470-5725 MHz, the device shall comply with requirements in the following sections.

#### (a) DFS radar signal detection threshold

Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. The device must detect radar signals within its entire emission bandwidth. The minimum DFS radar signal detection threshold is described below.

| Devices                                                                     | DFS Threshold |
|-----------------------------------------------------------------------------|---------------|
| Devices with an e.i.r.p. < 200 mW AND a Power Spectral Density < 10 dBm/MHz | -62 dBm       |
| Devices with $200 \text{ mW} \leq \text{e.i.r.p.} \leq 1 \text{ W}$         | -64 dBm       |

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**Note:** The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna.

**(b) Operational requirements**

Devices shall comply with the following requirements, however, the requirement for in-service monitoring does not apply to slave devices without radar detection.

- (i) In-service monitoring: an LE-LAN device shall be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.
- (ii) Channel availability check time: the device shall check whether there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in Section 6.3.1 above is detected within 60 seconds. This requirement only applies in the master operational mode.
- (iii) Channel move time: after a radar signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds.
- (iv) Channel closing transmission time: is comprised of 200 ms 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 ms) over the remaining 10-second period of the channel move time.
- (v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected.

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### 4.3 Applicability of DFS requirements during normal operation

| Requirement                     | Operational Mode                           |                                                        |
|---------------------------------|--------------------------------------------|--------------------------------------------------------|
|                                 | <input checked="" type="checkbox"/> Master | <input type="checkbox"/> Client (with radar detection) |
| Non-occupancy Period            | Yes                                        | Yes                                                    |
| DFS Detection Threshold         | Yes                                        | Yes                                                    |
| Channel Availability Check Time | Yes                                        | Not required                                           |
| U-NII Detection Bandwidth       | Yes                                        | Yes                                                    |

| Requirement                       | Operational Mode                             |
|-----------------------------------|----------------------------------------------|
|                                   | Master Device or Client with Radar Detection |
| DFS Detection Threshold           | Yes                                          |
| Channel Closing Transmission time | Yes                                          |
| Channel Move time                 | Yes                                          |
| U-NII Detection Bandwidth         | Yes                                          |

| 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.

**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.

**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.

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| Additional requirements for devices with multiple bandwidth mode                                                                                                                                                                                                                                                                                             | Master Device or Client with Radar Detection |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                                                  | All BW modes must be tested                  |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                      | Test using widest BW mode available          |
| All other tests                                                                                                                                                                                                                                                                                                                                              | Any single BW mode                           |
| <b>Note:</b> 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. |                                              |

#### 4.3.1 Operational requirements for 5600~5650MHz in Canada

| Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DFS operational mode                               |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> Primary device | <input type="checkbox"/> Secondary device with radar detection (see note 2, note 3) |
| CAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Required                                           | Required (see note 2)                                                               |
| Off-channel CAC (see note 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Required                                           | Required (see note 2)                                                               |
| In-service monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Required                                           | Required                                                                            |
| Channel shutdown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Required                                           | Required                                                                            |
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Required                                           | Required                                                                            |
| Uniform spreading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Required                                           | Not required                                                                        |
| NOTE 1: If implemented.<br>NOTE 2: A secondary device with radar detection is not required to perform a CAC or off-channel CAC at initial use of a channel but only before returning to the use of a channel where it has detected a radar signal by in-service monitoring. Where the secondary device with radar detection is under the control of its primary device and does not start transmissions on the channel until connected to that primary device, then the secondary device with radar detection does not have to perform a CAC or off-channel CAC and may rely on the CAC performed by the primary device to enable in-service monitoring.<br>NOTE 3: Secondary devices with a maximum RF output power of less than or equal to 23 dBm EIRP do not have to implement radar detection unless these devices are used in fixed outdoor point-to-point or fixed outdoor point-to-multipoint applications. |                                                    |                                                                                     |

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| Parameter                                                                                                                                                                                                                                                                                                                                                                 | Value                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Channel Availability Check time                                                                                                                                                                                                                                                                                                                                           | 60 s (see note 1)      |
| Minimum off-channel CAC time                                                                                                                                                                                                                                                                                                                                              | 6 minutes (see note 2) |
| Maximum off-channel CAC time                                                                                                                                                                                                                                                                                                                                              | 4 hours (see note 2)   |
| Channel move time                                                                                                                                                                                                                                                                                                                                                         | 10 s                   |
| Channel closing transmission time                                                                                                                                                                                                                                                                                                                                         | 1s                     |
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                      | 30 minutes             |
| <b>NOTE 1:</b> For channels whose nominal channel bandwidth falls completely or partly within the band 5 600 MHz to 5 650 MHz, the CAC time shall be 10 minutes.<br><b>NOTE 2:</b> For channels whose nominal channel bandwidth falls completely or partly within the band 5 600 MHz to 5 650 MHz, the off-channel CAC time shall be within the range 1 hour to 24 hours. |                        |

| Parameter                                                                                                                                                     | Detection probability ( $P_d$ ) (see note)                                                                 |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                                                                                               | Channels whose nominal channel bandwidth falls partly or completely within the 5 600 MHz to 5 650 MHz band | Other channels |
| CAC, off-channel CAC                                                                                                                                          | 99,99 %                                                                                                    | 60 %           |
| In-service monitoring                                                                                                                                         | 60 %                                                                                                       | 60 %           |
| <b>NOTE:</b> $P_d$ gives the probability of detection per radar test signal and represents a minimum level of detection performance under defined conditions. |                                                                                                            |                |

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## 4.4 Radar Test Waveforms

### 4.4.1 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<br>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 | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 60%                                        | 30                       |
| 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. |                    |                                                                                                                                                                                                                                                            |                                                                                                                  |                                            |                          |

### 4.4.2 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                       |

### 4.4.3 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                       |

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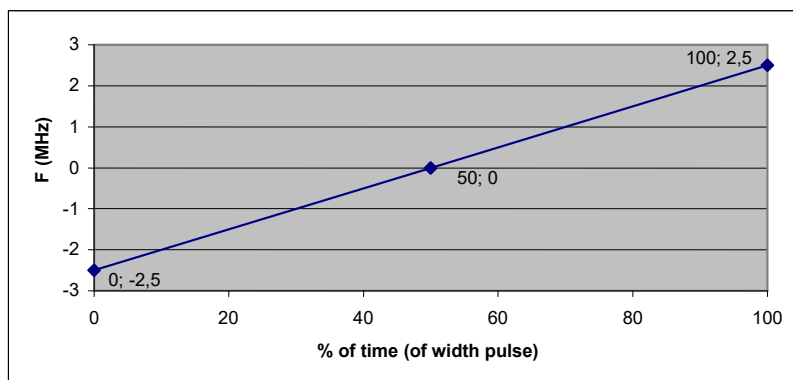
## 4.4.1 Reference DFS test signal for 5600~5650MHz in Canada

| Pulse width W (μs) | PRF (PPS) | Pulses Per Burst (PPB) |
|--------------------|-----------|------------------------|
| 1                  | 700       | 18                     |

| Radar test signal<br>(see note 1 to note 3) | Pulse width W (μs) |     | PRF (PPS) |       | Number of different PRFs | PPB for each PRF<br>(see note 5) |
|---------------------------------------------|--------------------|-----|-----------|-------|--------------------------|----------------------------------|
|                                             | Min                | Max | Min       | Max   |                          |                                  |
| 1                                           | 0,5                | 5   | 200       | 1 000 | 1                        | 10<br>(see note 6)               |
| 2                                           | 0,5                | 15  | 200       | 1 600 | 1                        | 15<br>(see note 6)               |
| 3                                           | 0,5                | 15  | 2 300     | 4 000 | 1                        | 25                               |
| 4                                           | 20                 | 30  | 2 000     | 4 000 | 1                        | 20                               |
| 5                                           | 0,5                | 2   | 300       | 400   | 2/3                      | 10<br>(see note 6)               |
| 6                                           | 0,5                | 2   | 400       | 1 200 | 2/3                      | 15<br>(see note 6)               |

**NOTE 1:** Radar test signal 1 to signal 4 are signals with constant PRF (see figure D.1). These radar test signals are intended to simulate also radars using a packet-based staggered PRF (see figure D.2).

**NOTE 2:** Radar test signal 4 is a modulated radar test signal. The modulation is a chirp modulation with a  $\pm 2,5$  MHz frequency deviation as shown in the following graph.



**NOTE 3:** Radar test signal 5 and radar test signal 6 are signals with single pulse-based staggered PRF using 2 or 3 different PRF values. For radar test signal 5, the difference between the PRF values chosen shall be between 20 PPS and 50 PPS. For radar test signal 6, the difference between the PRF values chosen shall be between 80 PPS and 400 PPS (see figure D.3).

**NOTE 4:** Apart from off-channel CAC testing, the radar test signals shall only contain a single burst of pulses (see figure D.1, figure D.3 and figure D.4).

For off-channel CAC testing, repetitive bursts shall be used for the total duration of the test (see figure D.2 and figure D.5 (see also clause 4.2.6.2.3, clause 5.4.8.2.1.4.2 and clause 5.4.8.2.1.4.3 of EN 301 893)).

**NOTE 5:** The total number of pulses in a burst is equal to the number of pulses for a single PRF multiplied by the number of different PRFs used.

**NOTE 6:** For the CAC and off-channel CAC requirements, the minimum number of pulses (for each PRF) for any of the radar test signals to be detected in the band 5 600 MHz to 5 650 MHz shall be 18.

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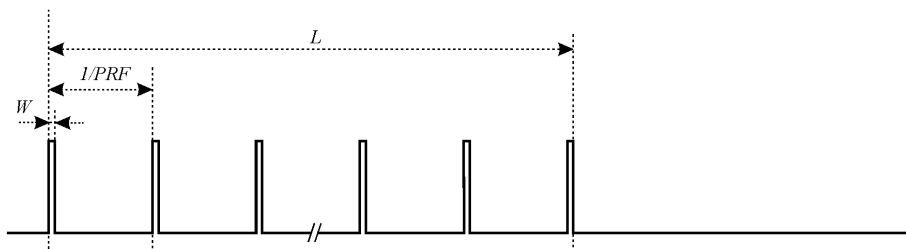


Figure D.1: General structure of a single-burst radar test signal with constant PRF

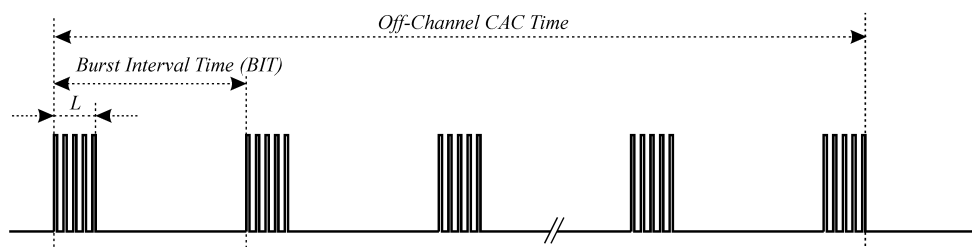


Figure D.2: General structure of a multi-burst radar test signal with constant PRF

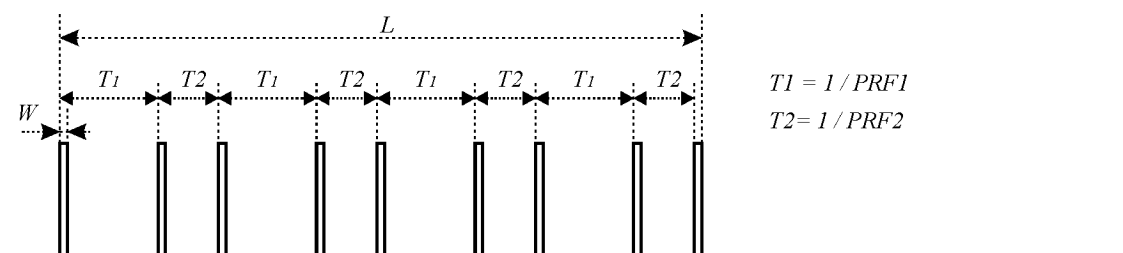


Figure D.3: General structure of a single-burst radar test signal with single pulse-based staggered PRF

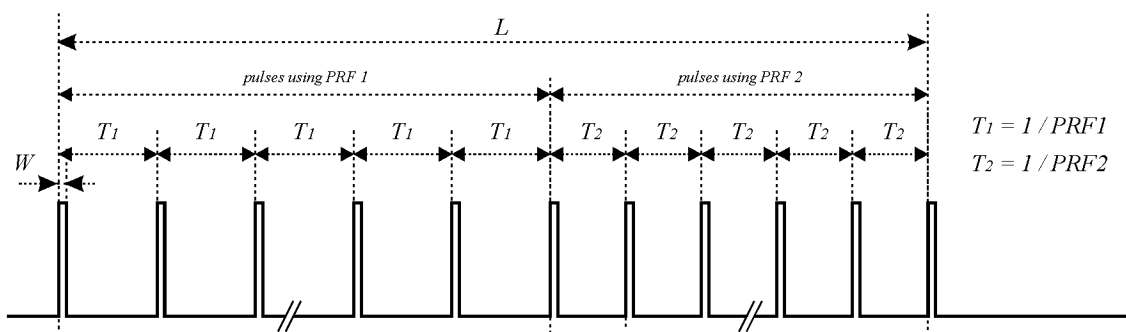


Figure D.4: General structure of a single-burst radar test signal with packet-based staggered PRF

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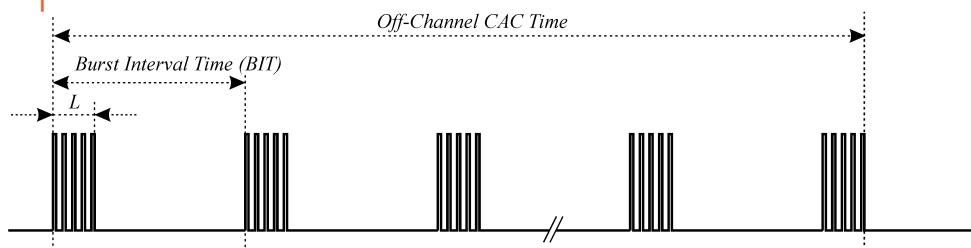


Figure D.5: General structure of a multi-burst radar test signal with packet-based staggered PRF

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

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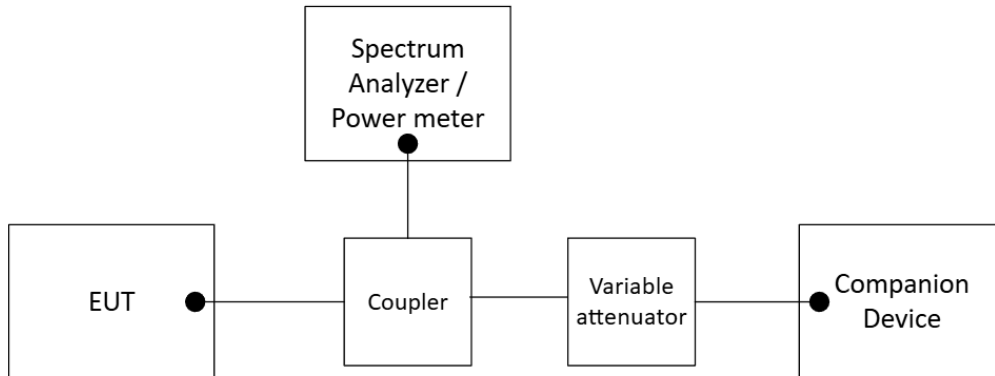
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## 5 TEST CONFIGURATION

### 5.1 Transmit Power Control (TPC)



1. Configure EUT and companion device for peer-to-peer communication
2. Set variable attenuator to a high RSSI level to enable TPC function of the device (noise free spectral environment)
3. Establish a link and start communication between EUT and companion device
4. Capture power from spectrum analyzer/power meter
5. Set variable attenuator to a low RSSI level to disable TPC function of the device (noisy spectral environment)
6. Capture power from spectrum analyzer/power meter
7. Compare the highest power from the step 4 to the highest power from the step 6 and determine the delta. For MIMO operations use the sum of the highest power from each individual antenna.

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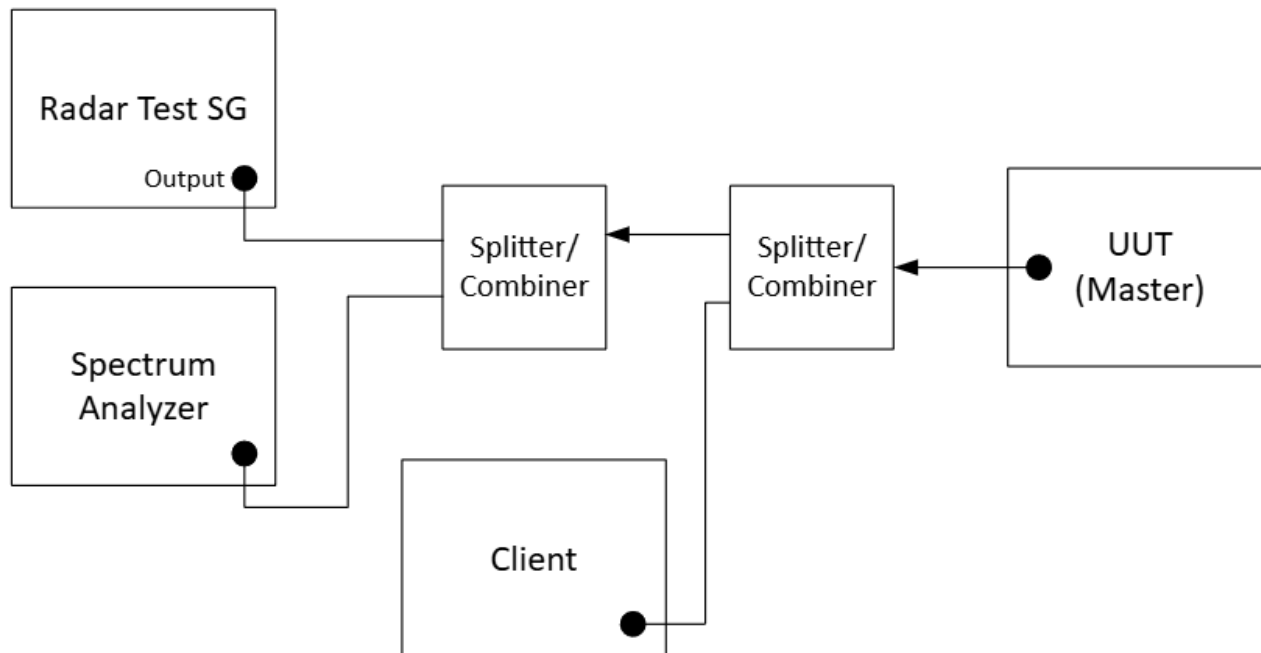
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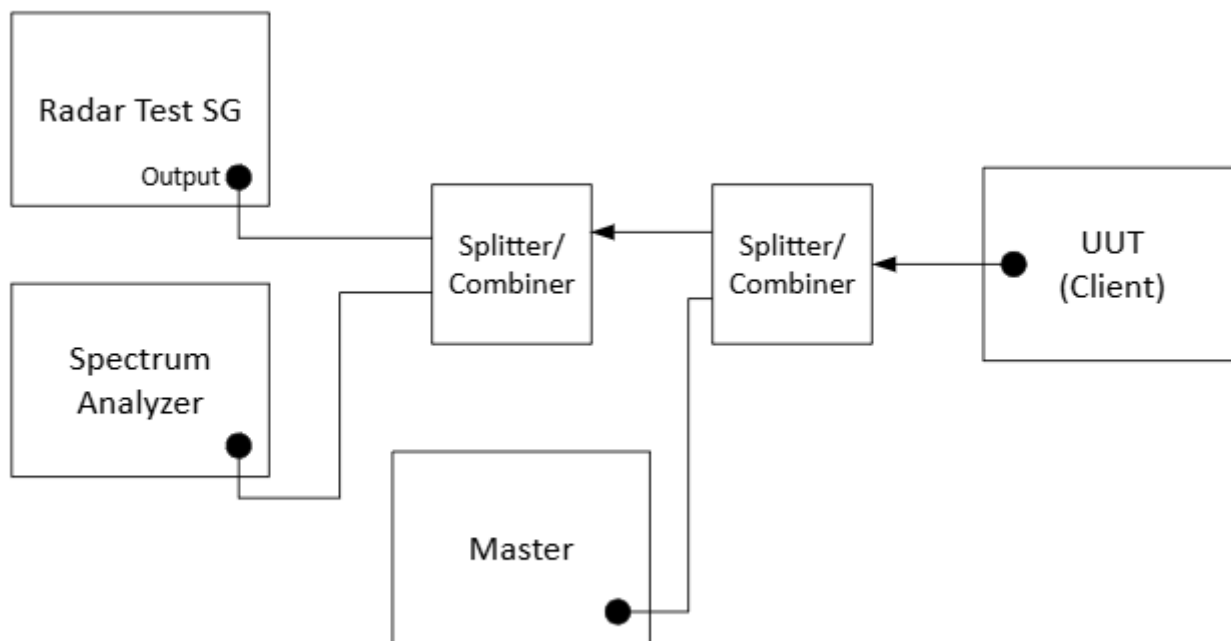
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## 5.2 Dynamic Frequency Selection (DFS)

### Setup for Master with injection at the Master



### Setup for Client with injection at the Client



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### 5.3 Off Channel CAC Feature Implemented

| Off Channel CAC Feature Implemented                            |       |
|----------------------------------------------------------------|-------|
| <input checked="" type="checkbox"/>                            | No    |
| <input type="checkbox"/>                                       | Yes   |
| If yes, specify the Off Channel CAC Time:5600 MHz to 5650 MHz: |       |
|                                                                | Hours |
| Minimum Off-Channel CAC Time                                   |       |

### 5.4 EUT Exercise

WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player or transmit the data with the minimum channel loading of approximately 17%.

For testing of 5600~5650MHz operating in Canada, WLAN traffic is generated by transmitting the data with the minimum channel loading of approximately 30%.

| DFS Detection Threshold (dBm) | Minimum of Peak Antenna Gain (dBi) | Threshold for test (dBm) |
|-------------------------------|------------------------------------|--------------------------|
| -64                           | 2.44                               | -61.56                   |

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

The EUT uses one transmitter/receiver chains and one receive only chain, each connected to an antenna to perform radiated tests.

The Slave device associated with the EUT during these tests does not have radar detection capability.

#### 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 the applicable payload via the UE to the slave.

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## 6 TEST RESULTS

### 6.1 Transmit Power Control (TPC)

N/A, TPC is not required.

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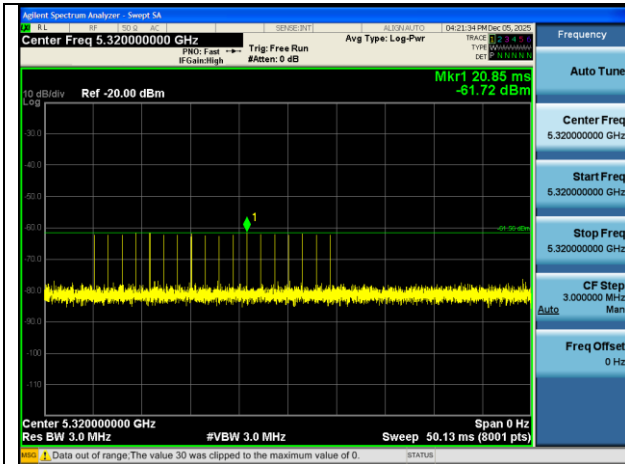
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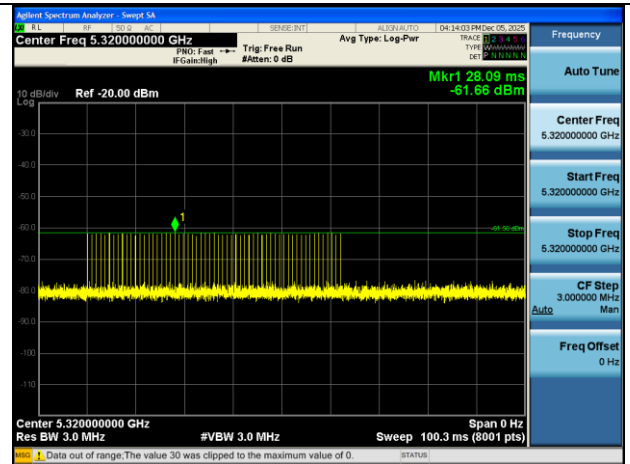
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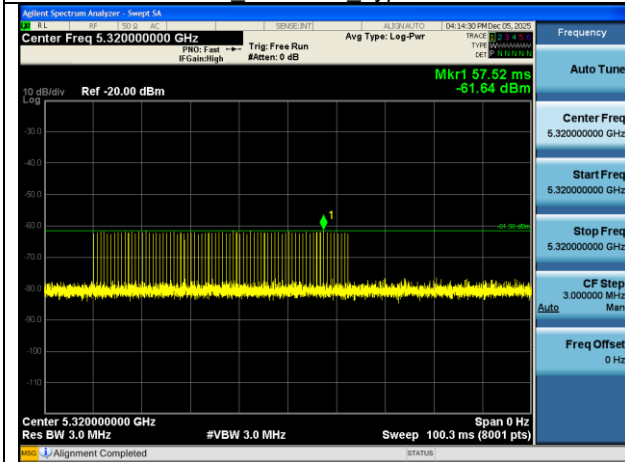
## 6.2 Radar Type Waveform Calibration At DFS Detection Threshold



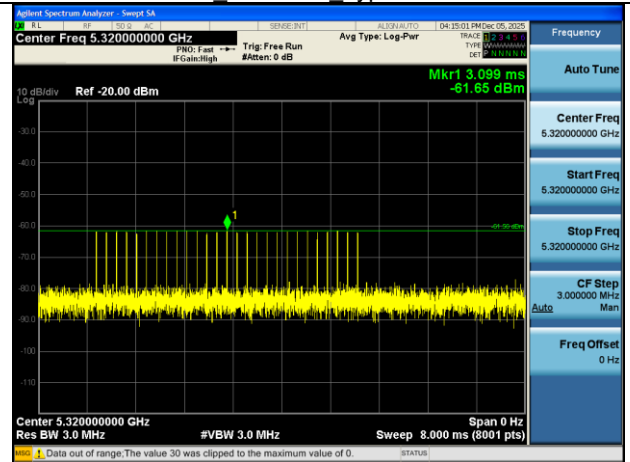
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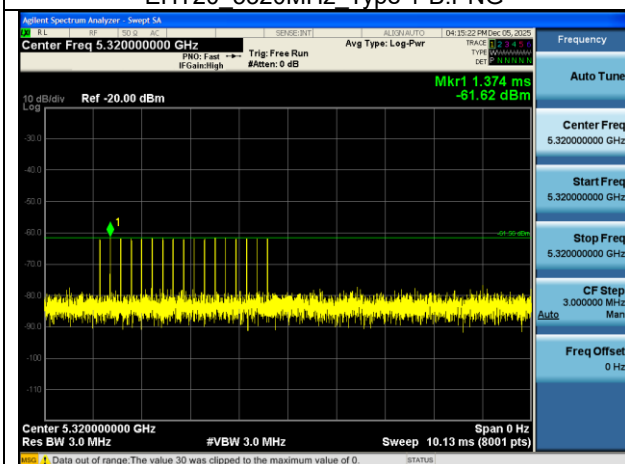
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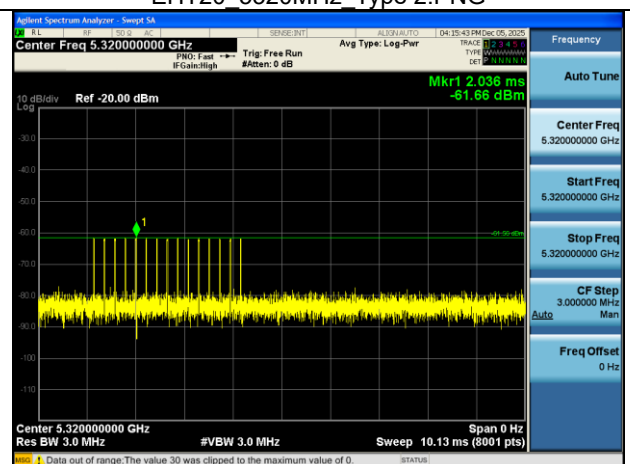
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EHT20\_5320MHz\_Type 2.PNG



EHT20\_5320MHz\_Type 3.PNG

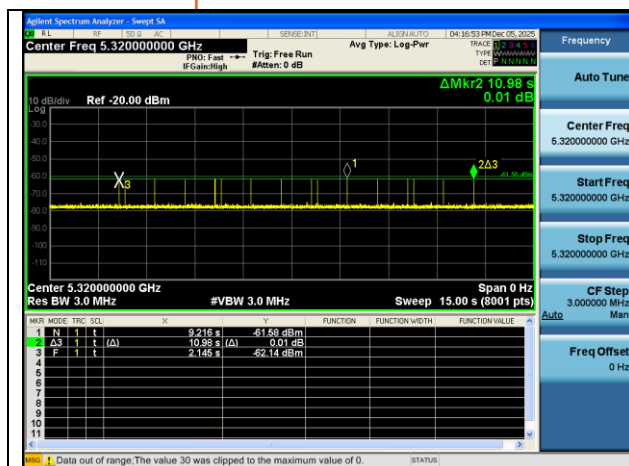


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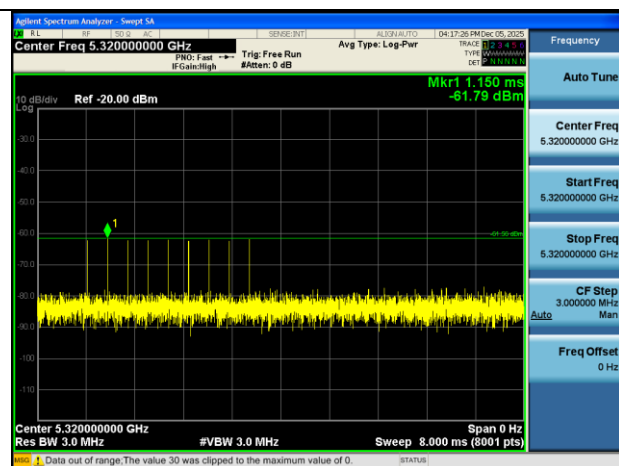
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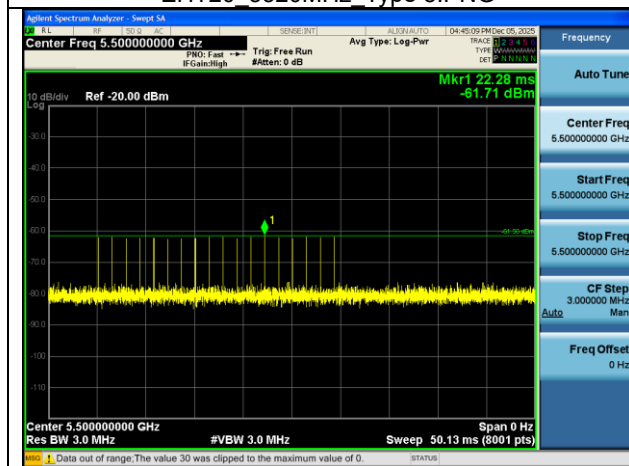
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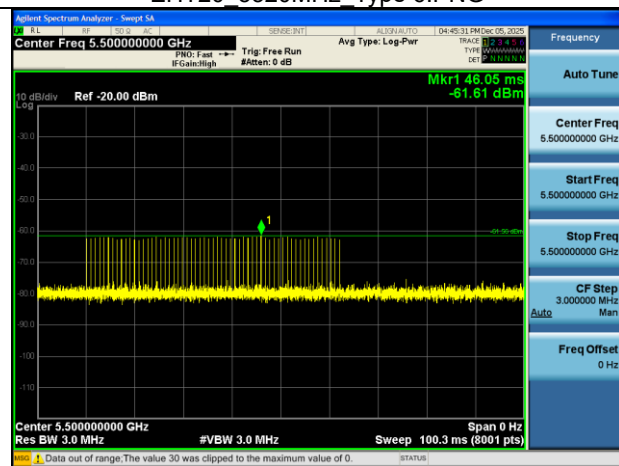
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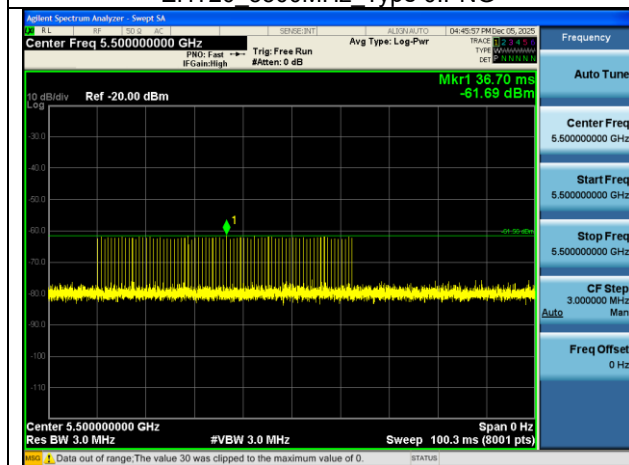
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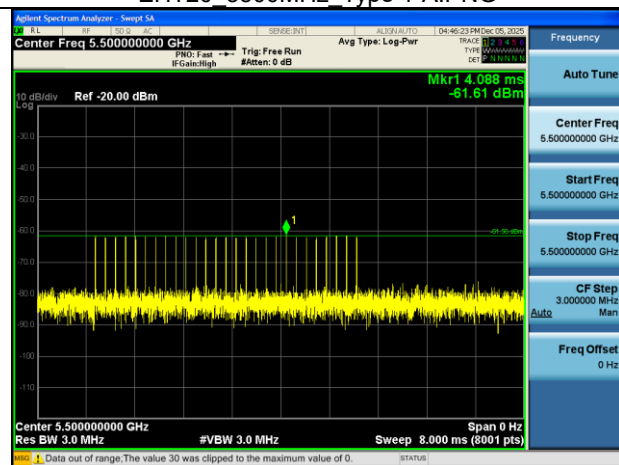
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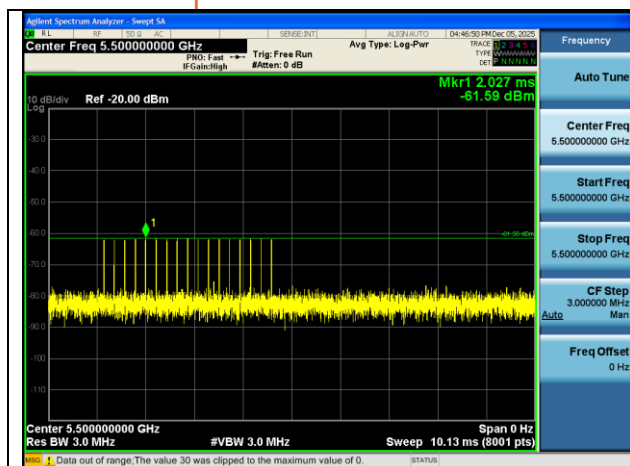


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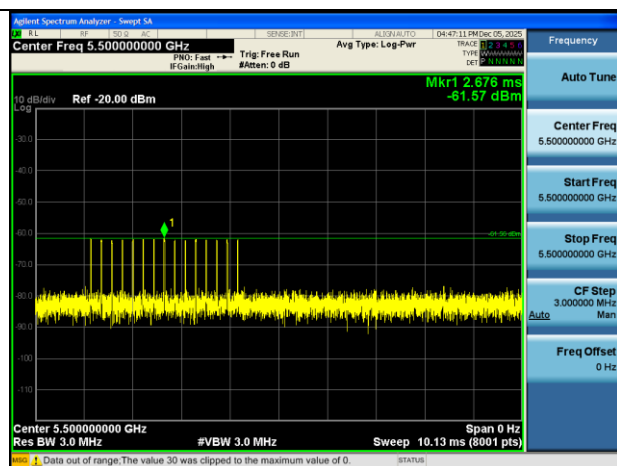
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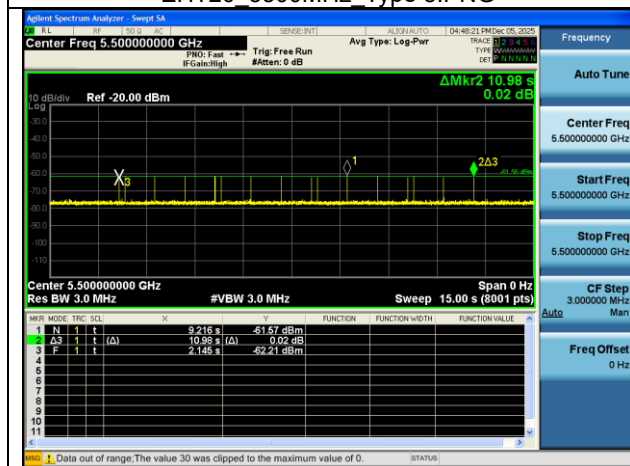
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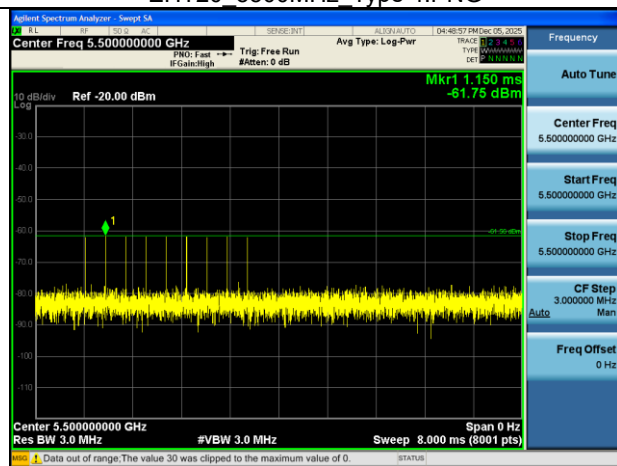
EHT20 5500MHz Type 3.PNG



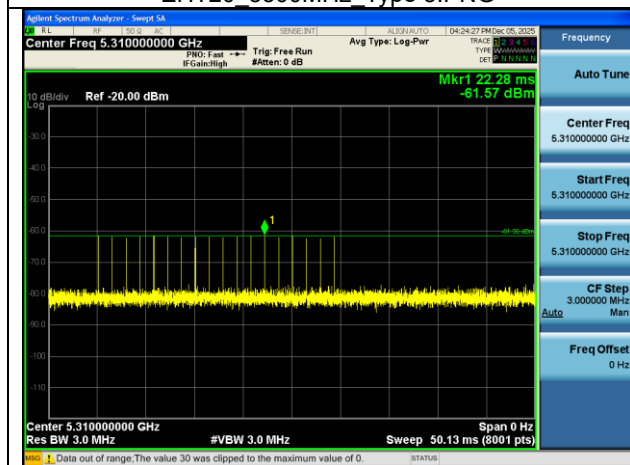
EHT20 5500MHz Type 4.PNG



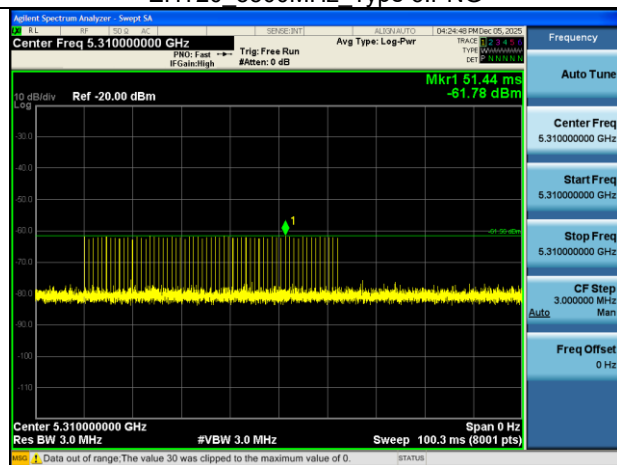
EHT20 5500MHz Type 5.PNG



EHT20 5500MHz Type 6.PNG



EHT40 5310MHz Type 0.PNG

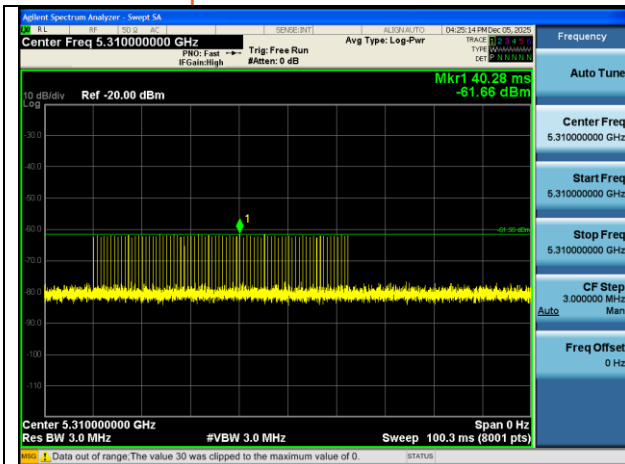


EHT40 5310MHz Type 1-A.PNG

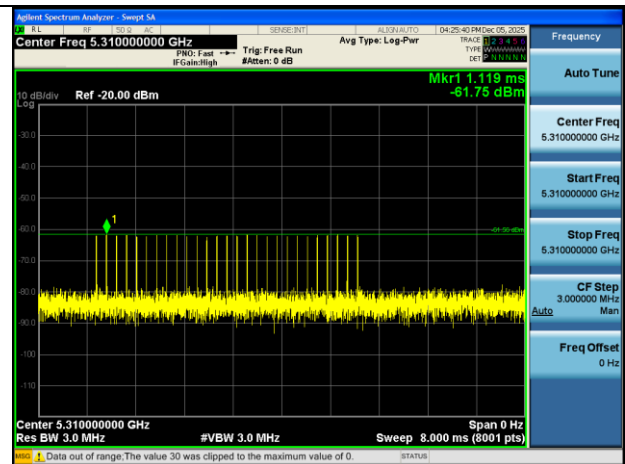
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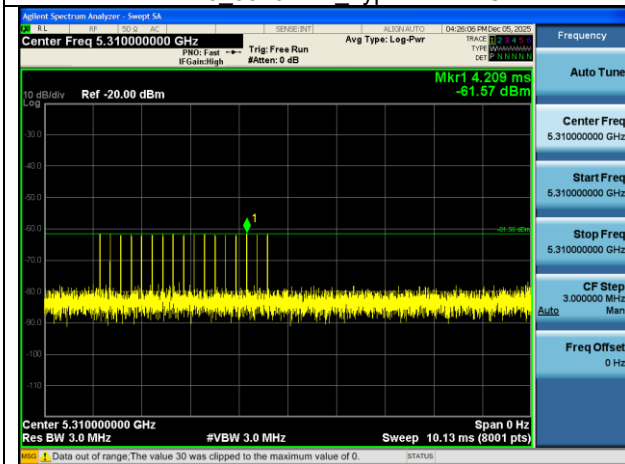
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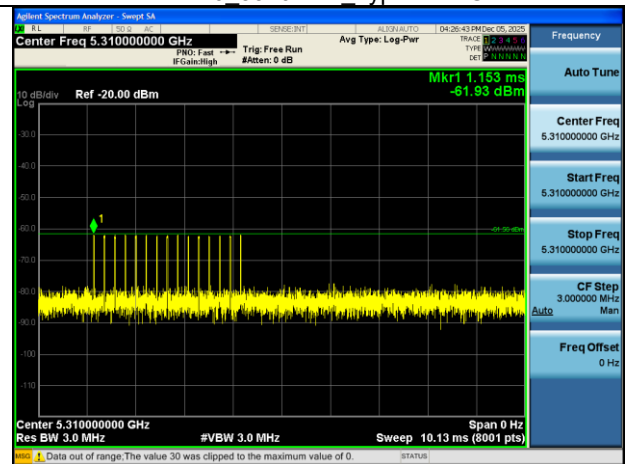
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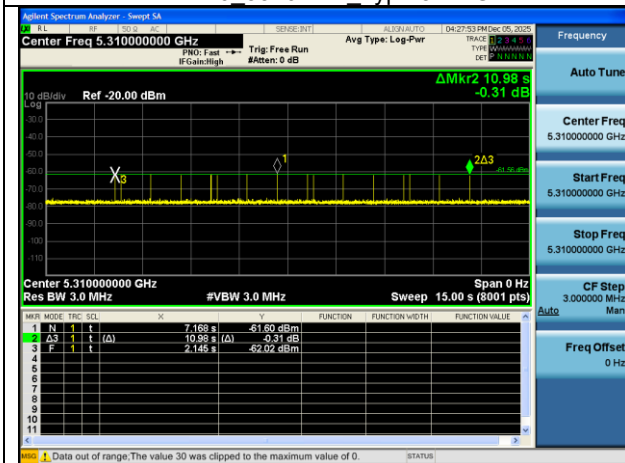
EHT40 5310MHz Type 2.PNG



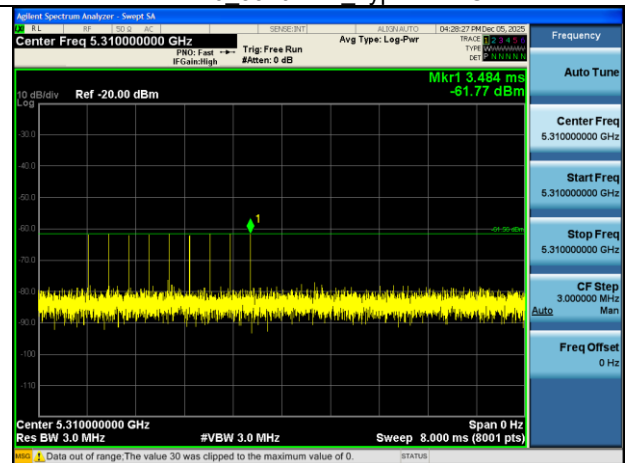
EHT40 5310MHz Type 3.PNG



EHT40 5310MHz Type 4.PNG



EHT40 5310MHz Type 5.PNG

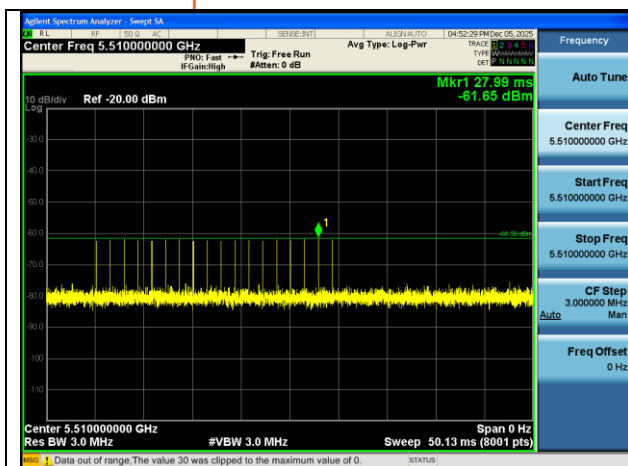


EHT40 5310MHz Type 6.PNG

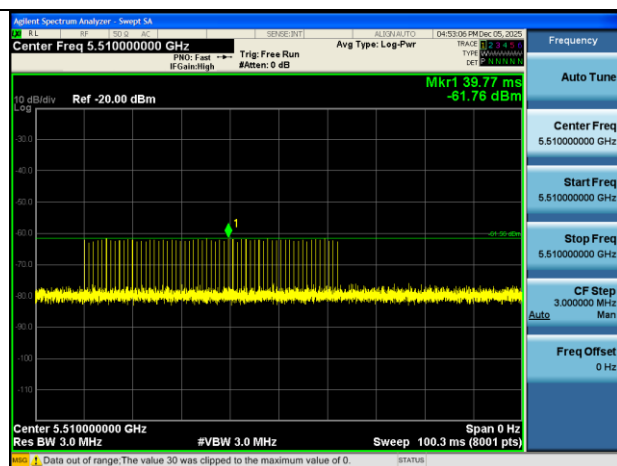
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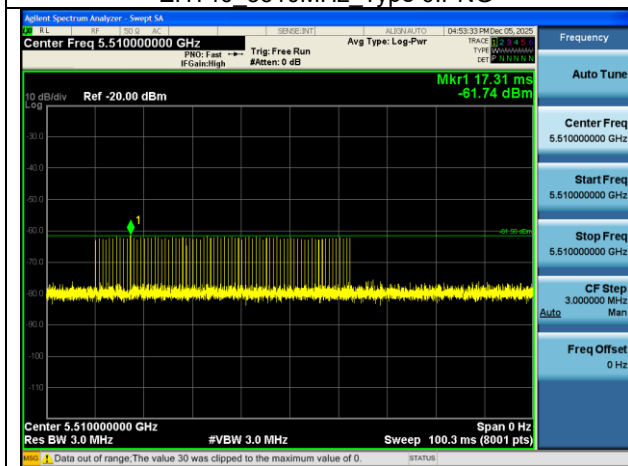
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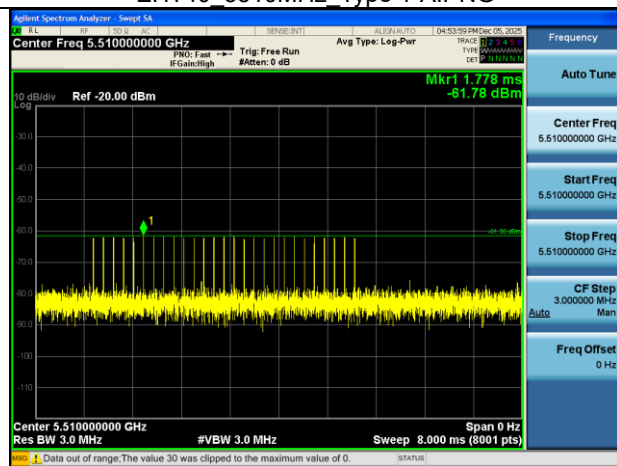
EHT40 5510MHz Type 0.PNG



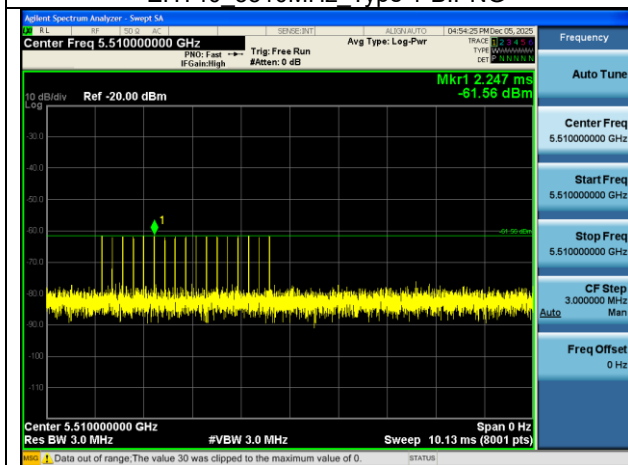
EHT40 5510MHz Type 1-A.PNG



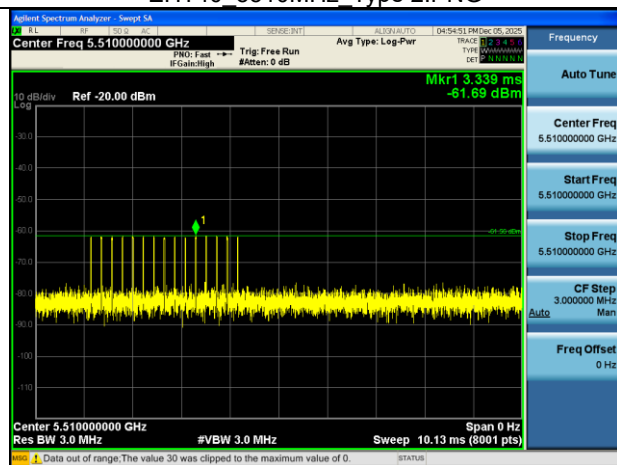
EHT40 5510MHz Type 1-B.PNG



EHT40 5510MHz Type 2.PNG



EHT40 5510MHz Type 3.PNG



EHT40 5510MHz Type 4.PNG

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EHT40 5510MHz Type 5.PNG

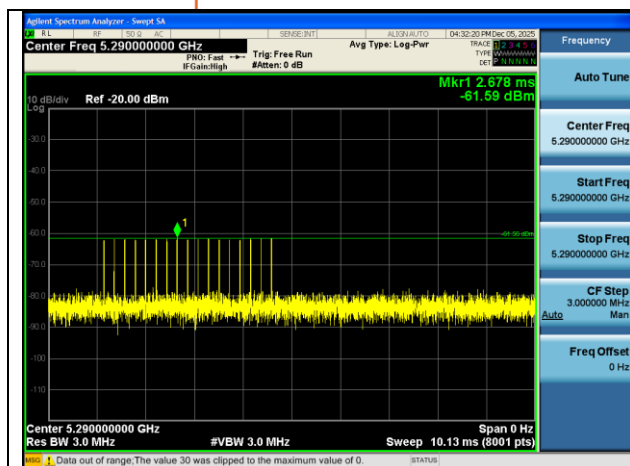
EHT40 5510MHz Type 6.PNG

EHT80 5290MHz Type 0.PNG

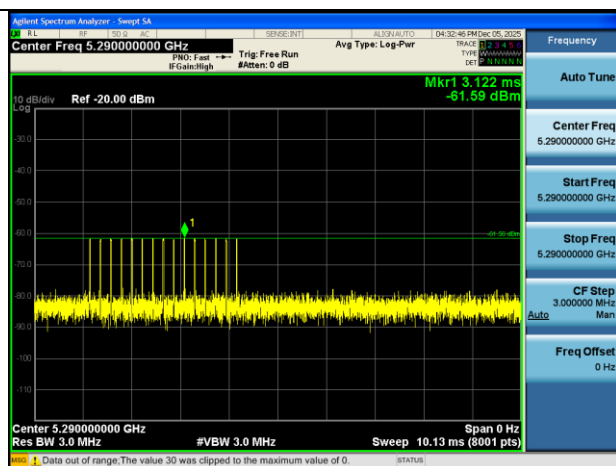
EHT80 5290MHz Type 1-A.PNG

EHT80 5290MHz Type 1-B.PNG

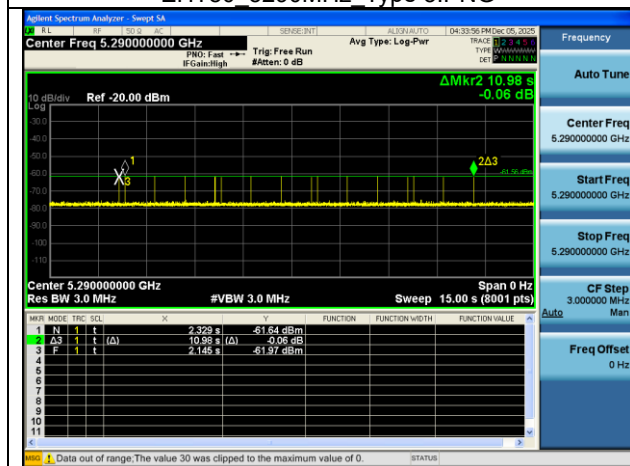
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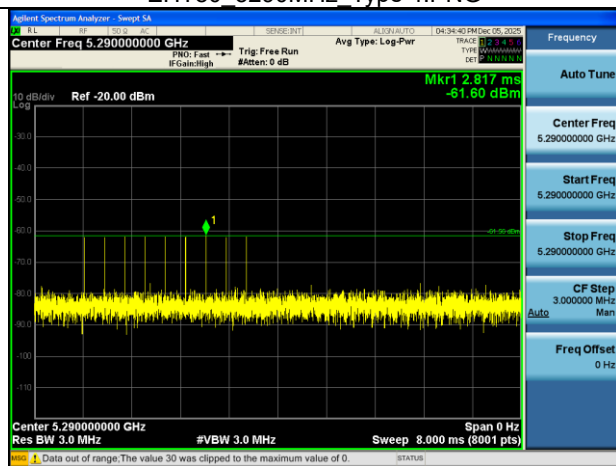
EHT80 5290MHz Type 3.PNG



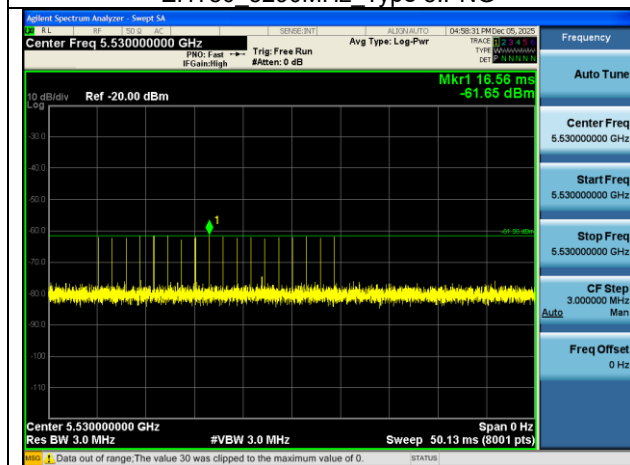
EHT80 5290MHz Type 4.PNG



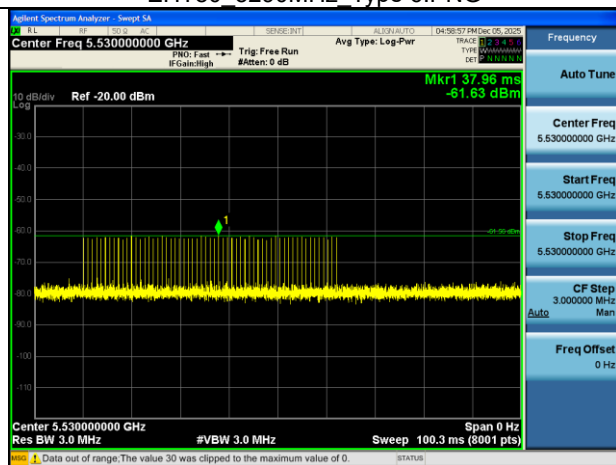
EHT80 5290MHz Type 5.PNG



EHT80 5290MHz Type 6.PNG



EHT80 5530MHz Type 0.PNG

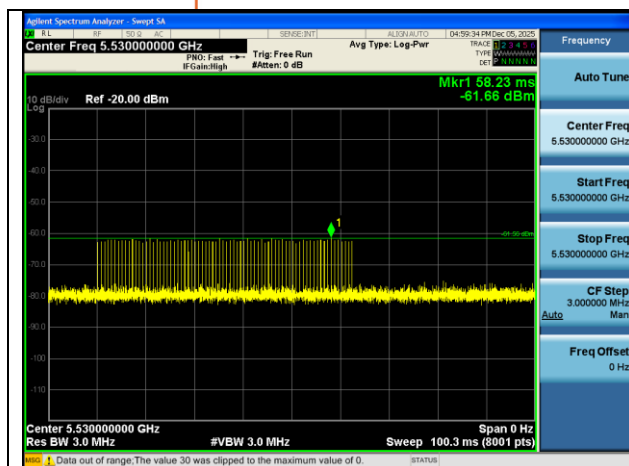


EHT80 5530MHz Type 1-A.PNG

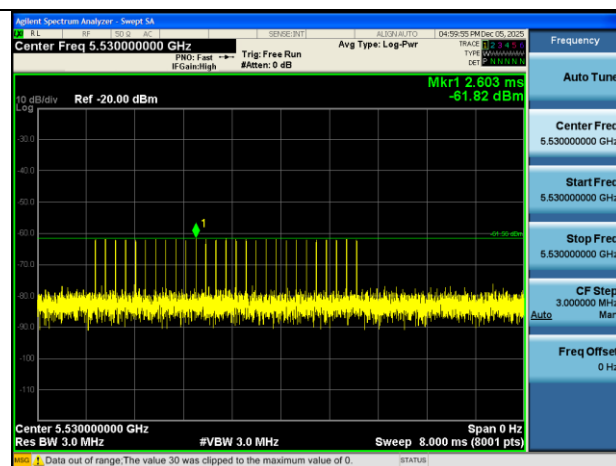
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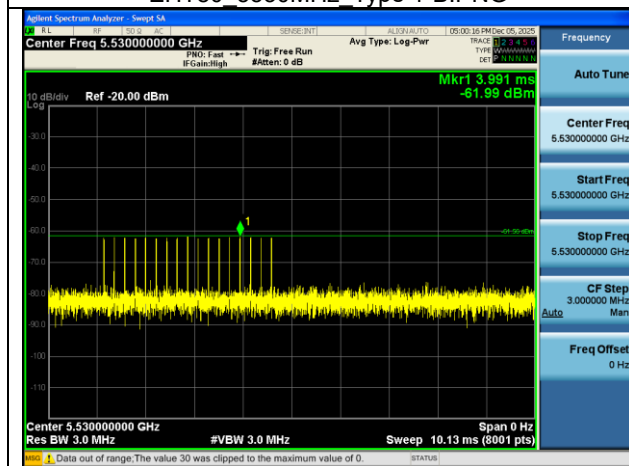
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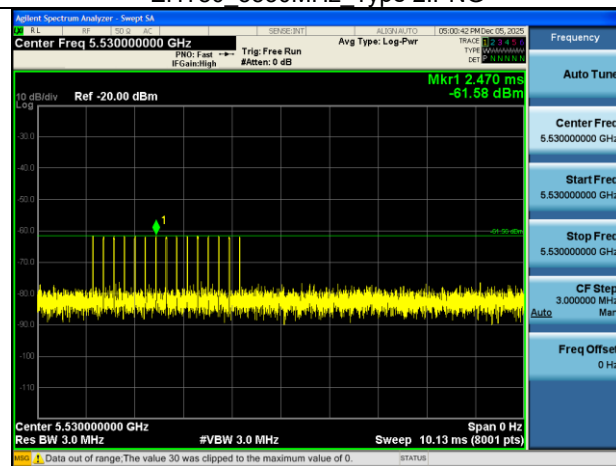
EHT80 5530MHz Type 1-B.PNG



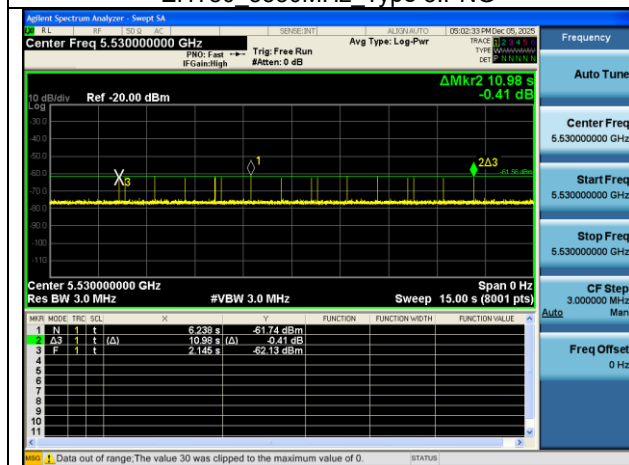
EHT80 5530MHz Type 2.PNG



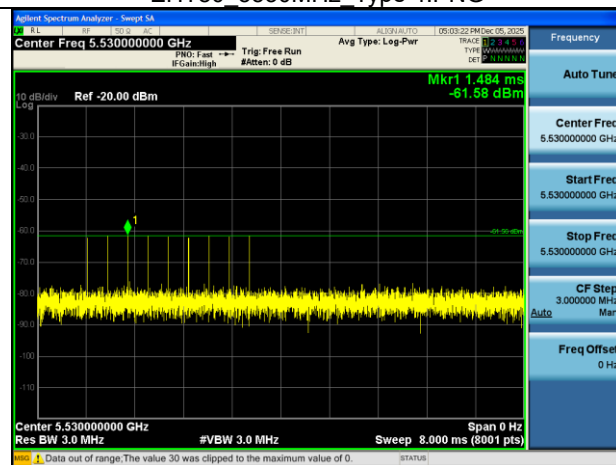
EHT80 5530MHz Type 3.PNG



EHT80 5530MHz Type 4.PNG



EHT80 5530MHz Type 5.PNG

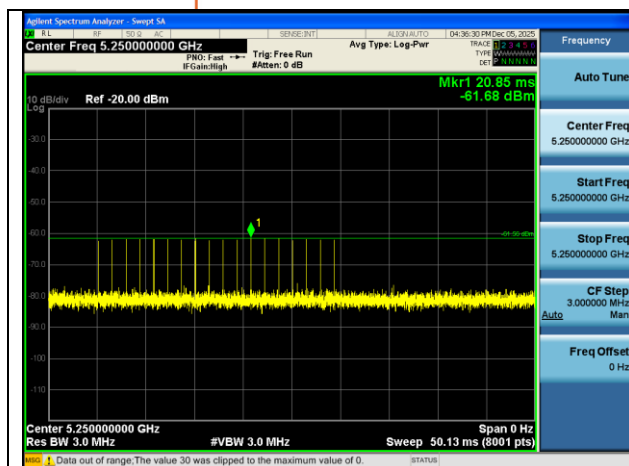


EHT80 5530MHz Type 6.PNG

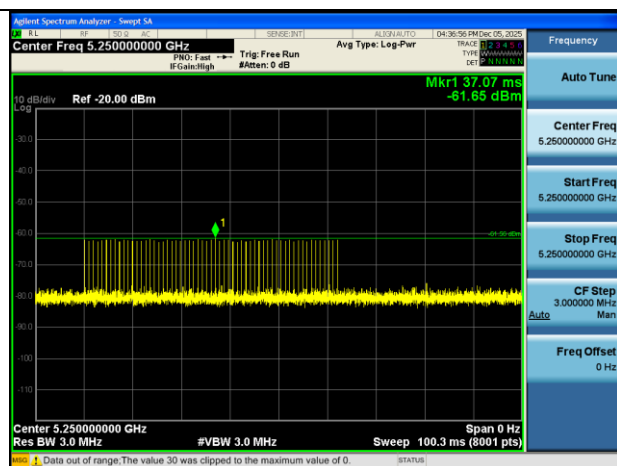
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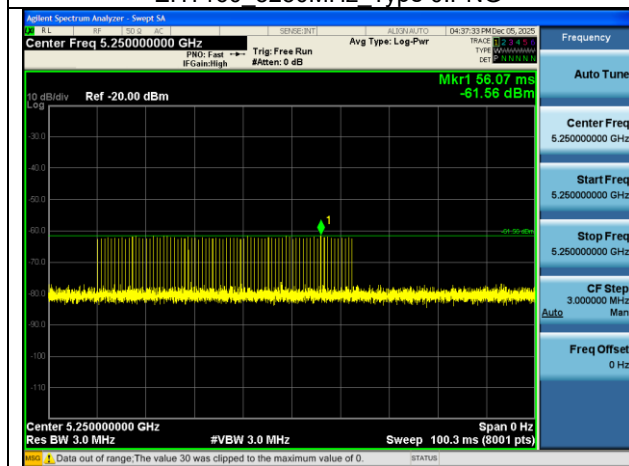
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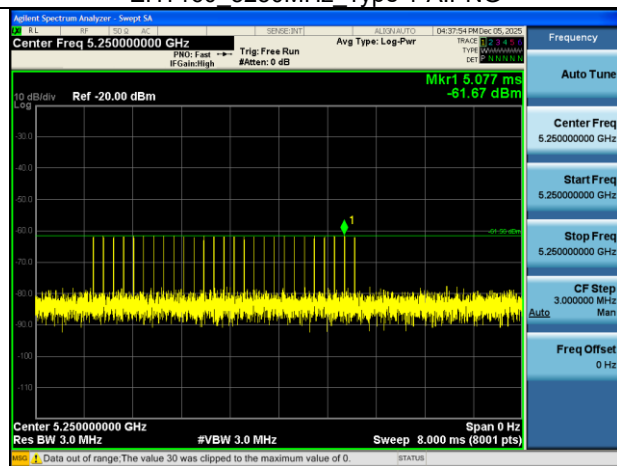
EHT160 5250MHz Type 0.PNG



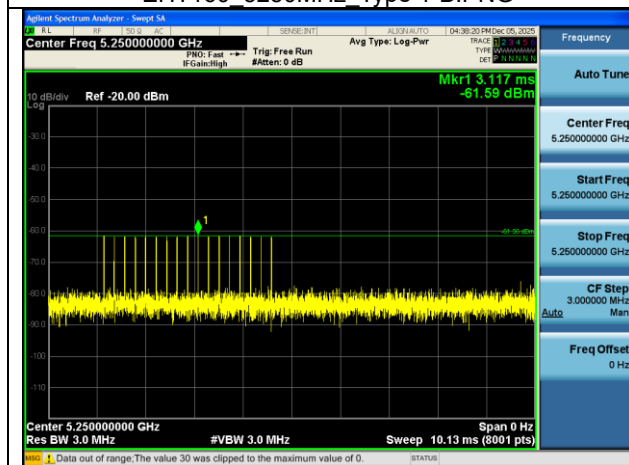
EHT160 5250MHz Type 1-A.PNG



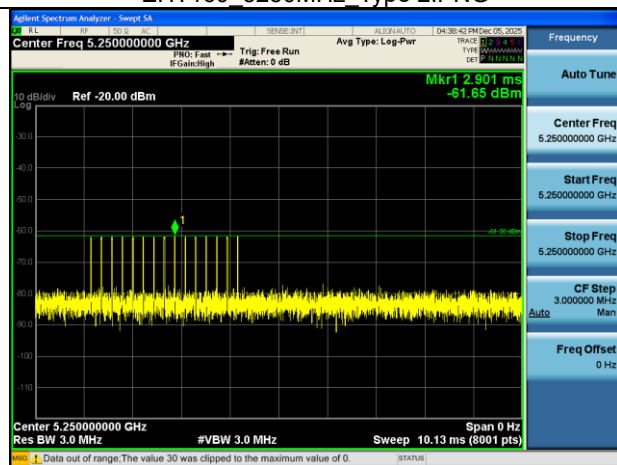
EHT160 5250MHz Type 1-B.PNG



EHT160 5250MHz Type 2.PNG



EHT160 5250MHz Type 3.PNG



EHT160 5250MHz Type 4.PNG

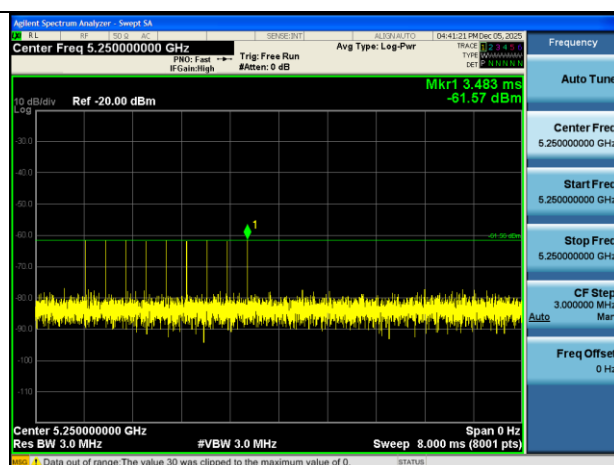
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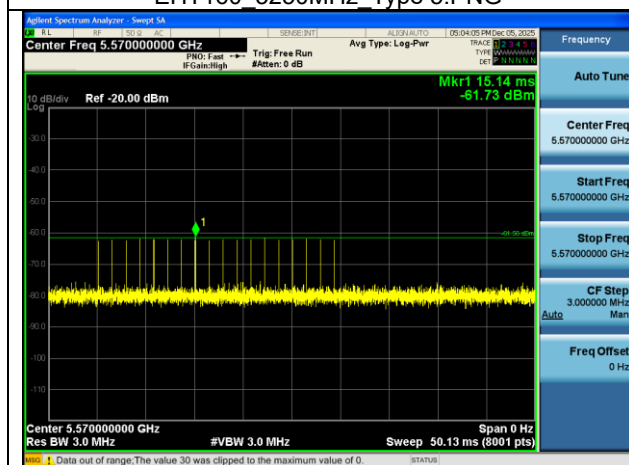
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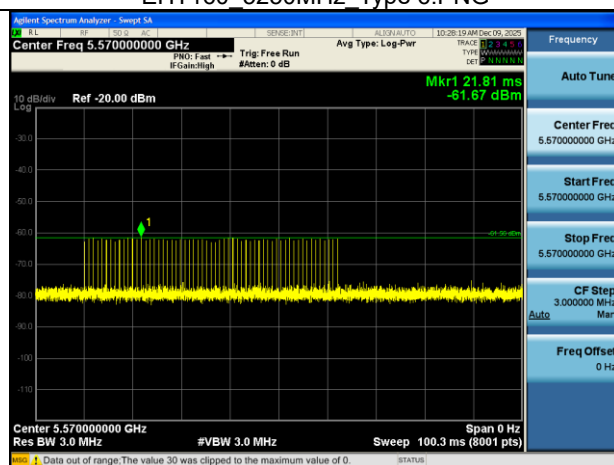
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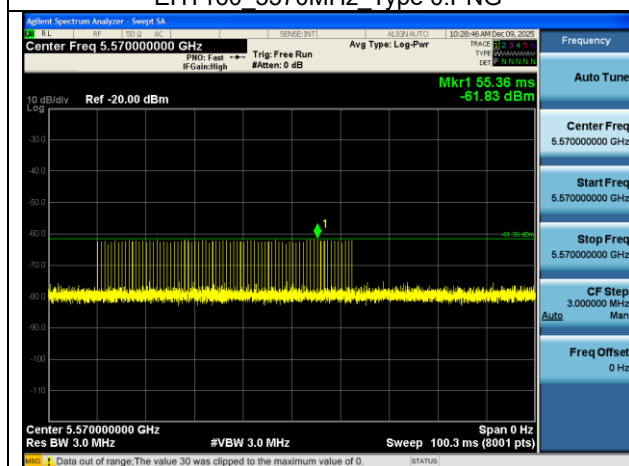
EHT160 5250MHz Type 6.PNG



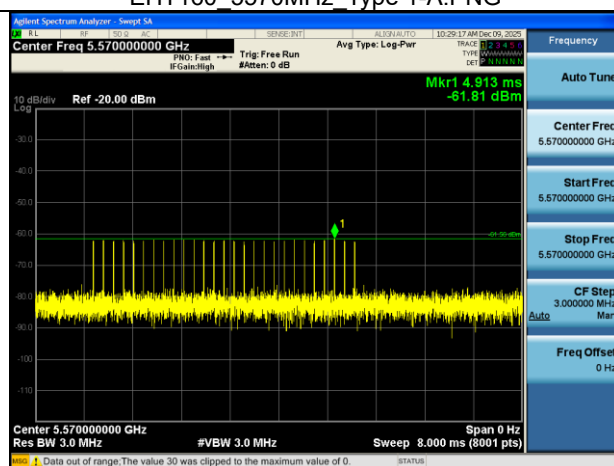
EHT160 5570MHz Type 0.PNG



EHT160 5570MHz Type 1-A.PNG



EHT160 5570MHz Type 1-B.PNG

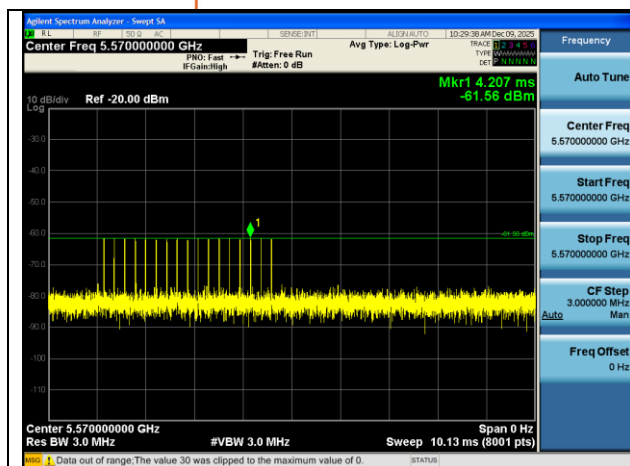


EHT160 5570MHz Type 2.PNG

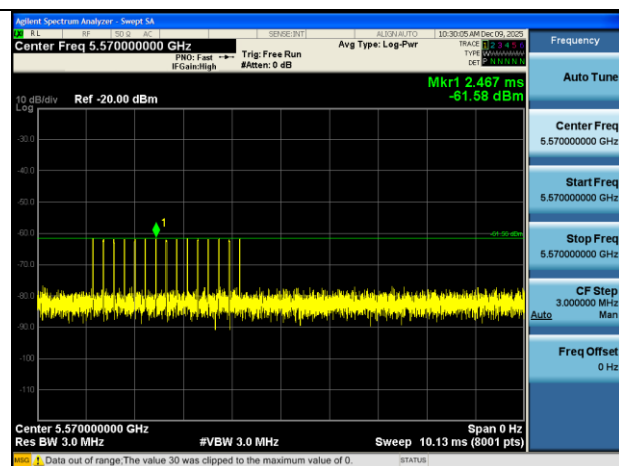
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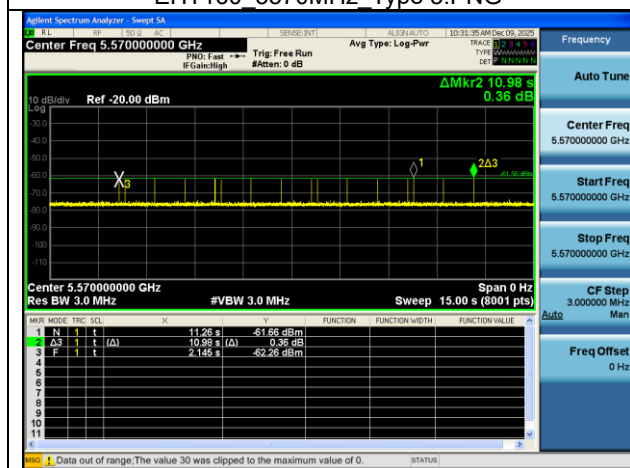
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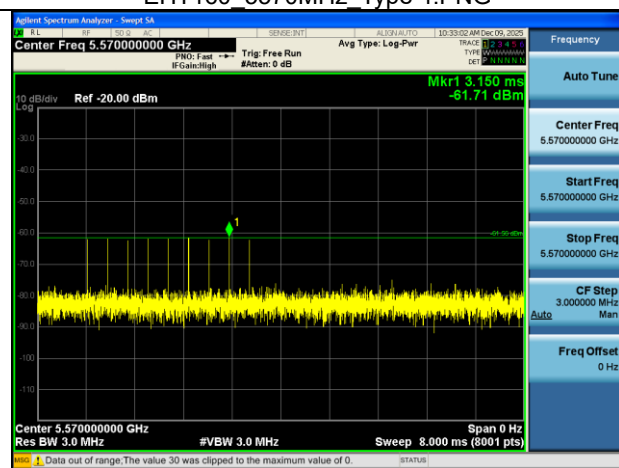
EHT160\_5570MHz\_Type 3.PNG



EHT160\_5570MHz\_Type 4.PNG



EHT160\_5570MHz\_Type 5.PNG



EHT160\_5570MHz\_Type 6.PNG

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### 6.3 Channel Closing Transmission And Channel Move Time (Radar Type 0)

| Channel Shutdown Result         |             |                   |                                                      |                      |
|---------------------------------|-------------|-------------------|------------------------------------------------------|----------------------|
| Minimum of Peak Antenna Gain    |             |                   | 2.44                                                 |                      |
| Detection Threshold Level (dBm) |             |                   | -64 + Minimum of Peak Antenna Gain = -61.56          |                      |
| Modulation Mode                 | Freq. (MHz) | Radar Test Signal | Channel Closing Transmission Time(ms)<br>200ms~10sec | Channel Move Time(s) |
| EHT160                          | 5250        | Type 0            | 0                                                    | 0.000                |
| EHT160                          | 5570        | Type 0            | 0                                                    | 0.000                |
| Limit                           |             |                   | 60 ms                                                | 10 sec               |
| Result                          |             |                   | Complied                                             |                      |

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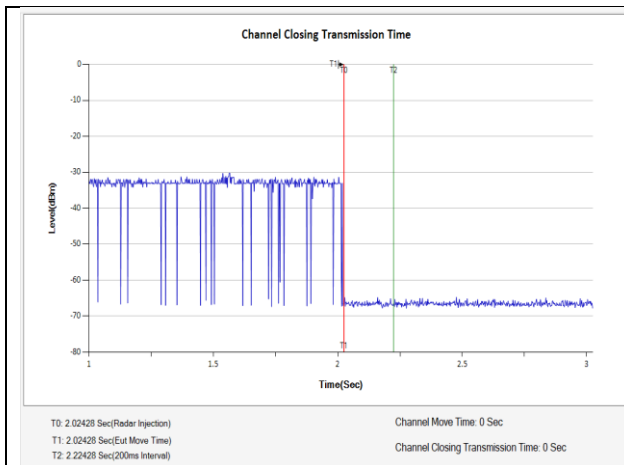
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

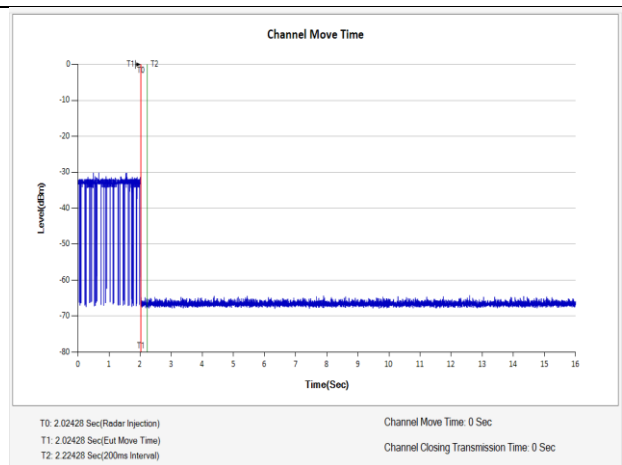
f (886-2) 2298-0488

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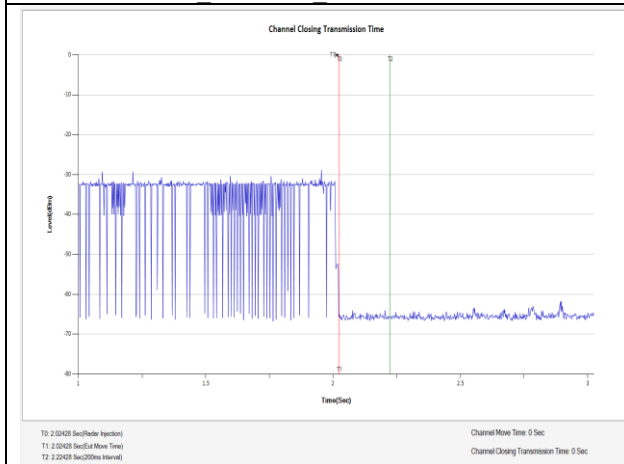
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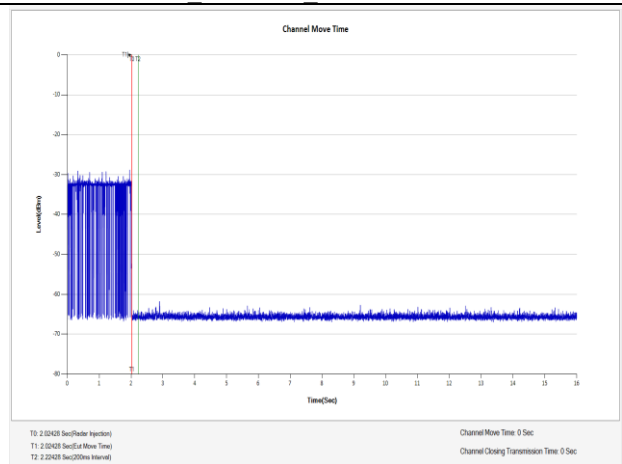
EHT160 5250MHz Channel Close Time



EHT160 5250MHz Channel Move Time



EHT160 5570MHz Channel Close Time



EHT160 5570MHz Channel Move Time

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