

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Manufacturer: silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Product Name: AP-800AX

Brand Name: Silex Technology

Model No.: AP-800AX

Model Difference: N/A

Report Number: TERF2303000754ER

FCC ID N6C-AP800AX

IC: 4908A-AP800AX

Date of EUT Received: March 29, 2023

Date of Test: March 29, 2023 ~ July 10, 2023

Issue Date: August 21, 2023

Approved By _____

Blue Yang

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 C63.10:2013 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.

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|--------------------------------------|-----------------|------------|--------|
| TERF2303000754ER | 00 | Original. | July 20, 2023 | Susan Lin | |
| TERF2303000754ER | 01 | Update channel number in section 1.3 | August 21, 2023 | Susan Lin | * |
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Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|-------------------|------------------|
| Product Name: | AP-800AX |
| Brand Name: | Silex Technology |
| Model No.: | AP-800AX |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Firmware Version: | N/A |
| EUT Series No.: | 000001814 |
| Power Supply: | 12Vdc |

1.2 DFS Firmware version:

| | |
|-------------------|-------------------|
| Series Name | silex |
| Product Name | AP-800AX |
| Version | 1.0.0b9 |
| MAC Address | 1c:bc:ec:00:07:16 |
| Access Point Name | SX000716 |

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1.3 FCC WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Modulation Technology |
|--|-----------------|----------|-----------------------|
| a/ n_HT/ ac_VHT/ ax_HE 20M | 5180~5240 | 4 | OFDMA |
| | 5260~5320 | 4 | OFDMA |
| | 5500~5720 | 12 | OFDM |
| | 5745-5825 | 5 | OFDM |
| n_HT ac_VHT/ ax_HE 40M | 5190~5230 | 2 | OFDM |
| | 5270~5310 | 2 | OFDM |
| | 5510~5710 | 6 | OFDM |
| | 5755-5795 | 2 | OFDM |
| ac_VHT/ ax_HE 80M | 5210 | 1 | OFDMA |
| | 5290 | 1 | OFDM |
| | 5530~5690 | 3 | OFDM |
| | 5775 | 1 | OFDM |

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IC WLAN 5GHz:

WLAN 5 GHz for ISED (Master)

| Wi-Fi | Frequency Range | Channels | Modulation Technology |
|--|-----------------|----------|-----------------------|
| a/ n_HT/ ac_VHT/ ax_HE 20M | 5180~5240 | 4 | OFDMA |
| | 5260~5320 | 4 | OFDMA |
| | (*)5500~5700 | 8 | OFDM |
| | 5720 (U-NII 2C) | 1 | OFDM |
| | 5720 (U-NII 3) | 1 | OFDMA |
| | 5745-5825 | 5 | OFDM |
| n_HT ac_VHT/ ax_HE 40M | 5190~5230 | 2 | OFDM |
| | 5270~5310 | 2 | OFDM |
| | (*)5510~5670 | 3 | OFDM |
| | 5710 (U-NII 2C) | 1 | OFDM |
| | 5710 (U-NII 3) | 1 | OFDMA |
| | 5755-5795 | 2 | OFDM |
| ac_VHT/ ax_HE 80M | 5210 | 1 | OFDMA |
| | 5290 | 1 | OFDM |
| | 5530 | 1 | OFDM |
| | 5690 (U-NII 2C) | 1 | OFDM |
| | 5690 (U-NII 3) | 1 | OFDM |
| | 5775 | 1 | OFDM |

*Note : TDWR frequencies are not available in Canada.

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1.4 Antenna Designation

| Antenna Type | Ch0/Ch1 | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) | Directional Gain (dBi) |
|--------------|---------|------------------|-------------|-------------------------|------------------------|
| Dipole | Ch0 | ANTDP-039A0 | 5150~5250 | 1.1 | 4.11 |
| | | | 5250~5350 | 1.1 | 4.11 |
| | | | 5470~5725 | 1.2 | 4.21 |
| | | | 5725~5850 | 1.3 | 4.31 |
| | Ch1 | | 5150~5250 | 1.1 | 4.11 |
| | | | 5250~5350 | 1.1 | 4.11 |
| | | | 5470~5725 | 1.2 | 4.21 |
| | | | 5725~5850 | 1.3 | 4.31 |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.5 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 2 Feb. 2017

1.6 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | 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 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| Conducted F | | | | |
| Conducted G | | | | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SUMMARY OF TEST RESULT

| FCC and ISED Rules | Description Of Test | Result |
|---|-------------------------|-----------|
| §15.407(h) FCC KDB 905462 D02 IC RSS-247 issue 1 §6.3 | TPC and DFS Measurement | Compliant |

3 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|-------------------------|-------------|
| TPC and DFS Measurement | +/- 1.04 Hz |
| Temperature | +/- 0.7 °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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4 TPC AND DFS MEASUREMENT

4.1 TPC Requirements

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, e.i.r.p is less than 500 mW, TPC is not required.

4.2 DFS: Standard Applicable

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.

- (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.
 - (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 listed in paragraph (h)(2) of this section, 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,

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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.

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5 APPLICABLE STANDARDS

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 |

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| 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 |
| <p>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.</p> | | |

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

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

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Table 4: DFS Response requirement values

| Parameter | Value |
|--|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3. |
| <p>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.</p> <p>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.</p> <p>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.</p> | |

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**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 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 $\left\{ \begin{matrix} \frac{1}{360} \\ \frac{19 \cdot 10^6}{PRI_{\mu sec}} \end{matrix} \right\}$ | 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. | | | | | |

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 |

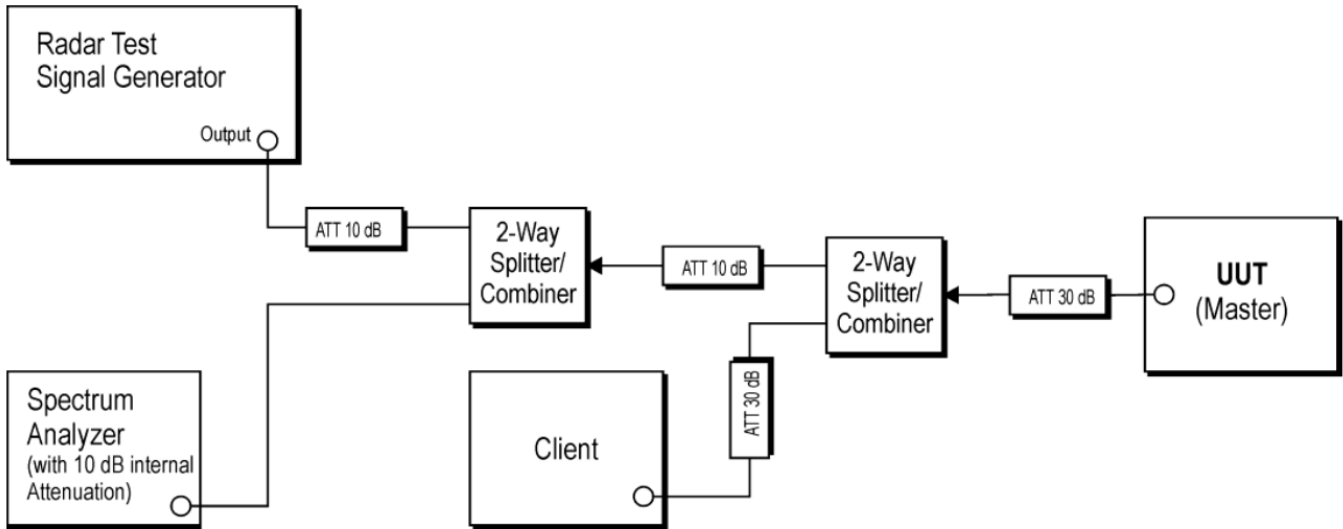
The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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6 TEST SETUP

Setup for Master with injection at the Master



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7 TEST EQUIPMENT USED:

| Conducted Emission Test Site: Conducted 6 | | | | | |
|---|---------------|---|----------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60240503 | 12/13/2022 | 12/12/2023 |
| Signal Generator | KEYSIGHT | N5182B | MY61252553 | 09/22/2022 | 09/21/2023 |
| Test Software | KEYSIGHT | N7607B Signal Stdio for DFS Radar profile | Ver. 3.2.0.0 | N.C.R | N.C.R |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/13/2022 | 12/12/2023 |
| Power Divider | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-017 | 12/13/2022 | 12/12/2023 |
| Power Divider | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-018 | 12/13/2022 | 12/12/2023 |
| Power Divider | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-020 | 12/13/2022 | 12/12/2023 |
| Power Divider | RF-LAMBDA | RFLT2W1G18G | 18112200209 | 12/13/2022 | 12/12/2023 |
| Attenuator | Agilent | 8495B | 3308A22470 | 12/13/2022 | 12/12/2023 |
| Attenuator | HP | 8494B | 2812A17605 | 12/13/2022 | 12/12/2023 |

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8 DESCRIPTION OF EUT:

EUT is a Master device with radar detection and DFS capability.

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.

The rated output power of the master unit is $\geq 23\text{dBm}$ (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 $< 23\text{ dBm}$ (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 .

DFS Detection Threshold (dBm) = $-64 + G$ (dBi), for conducted test.

| DFS Detection Threshold (dBm) | Minimum of Peak Antenna Gain (dBi) | Threshold for test (dBm) |
|-------------------------------|------------------------------------|--------------------------|
| -62 | 1.1 | -60.9 |

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.

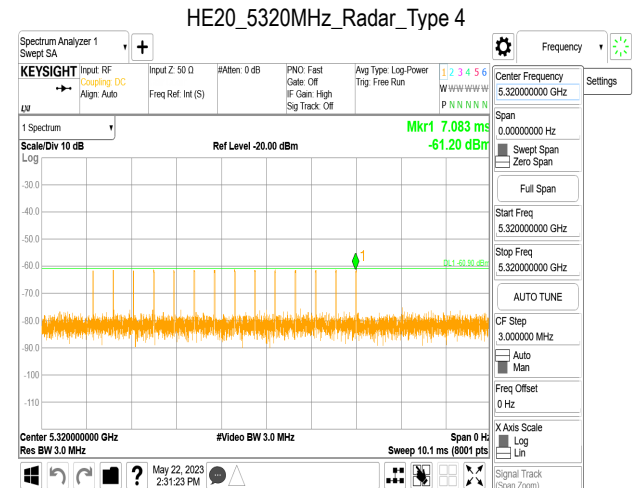
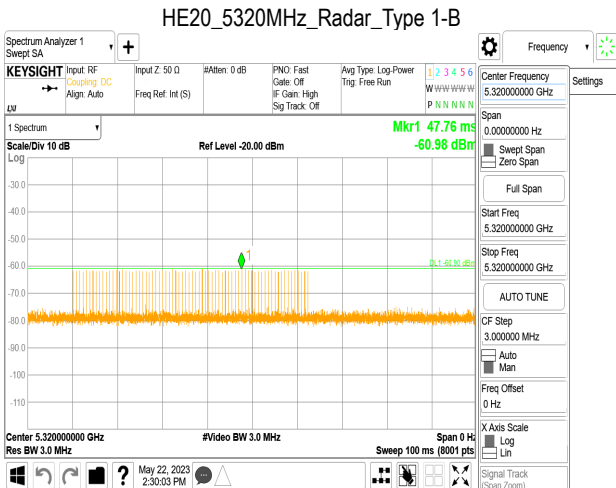
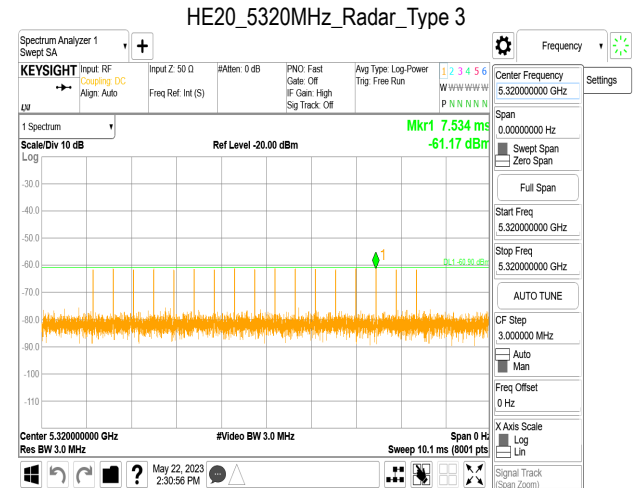
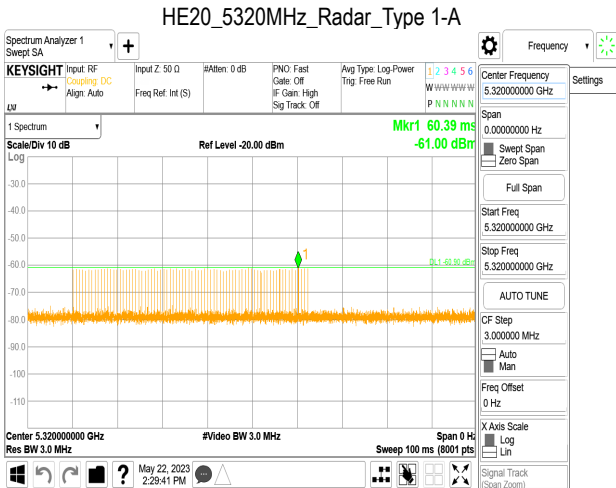
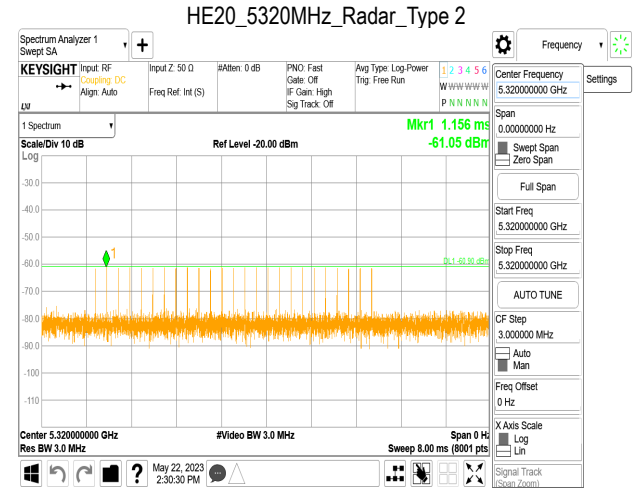
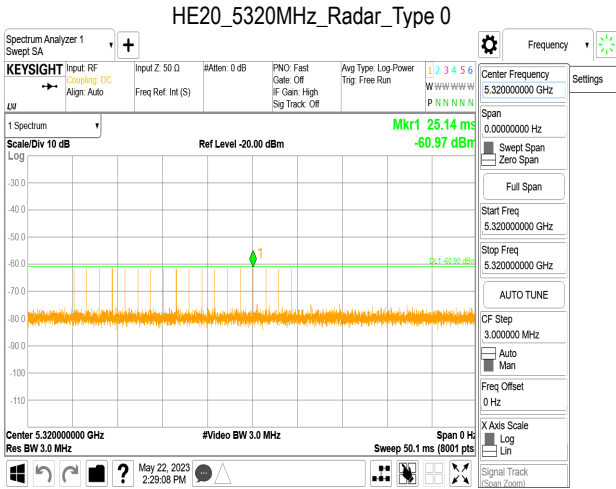
The EUT uses one transmitter/receiver chains and one receive only chain, each connected to an antenna to perform radiated tests.

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

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9 RADAR TYPE WAVEFORM CALIBRATION AT DFS DETECTION THRESHOLD

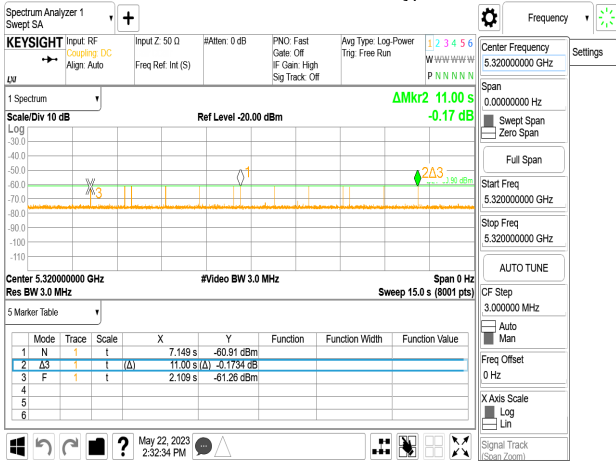


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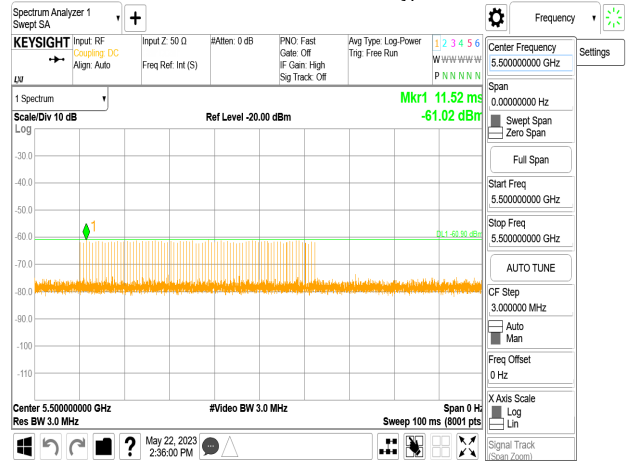
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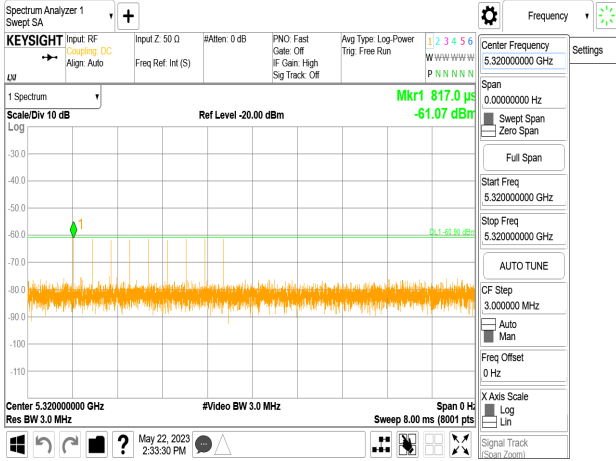
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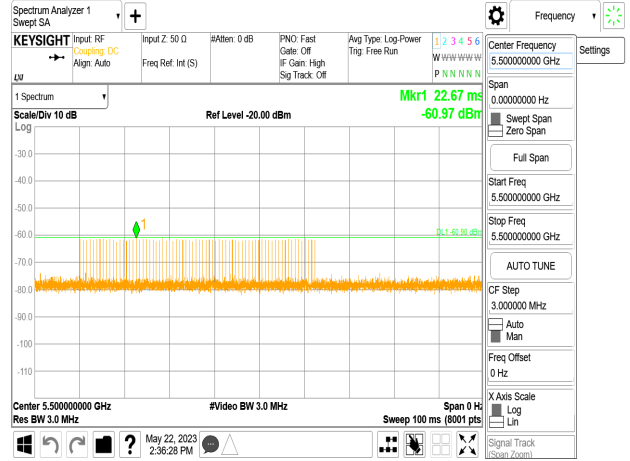
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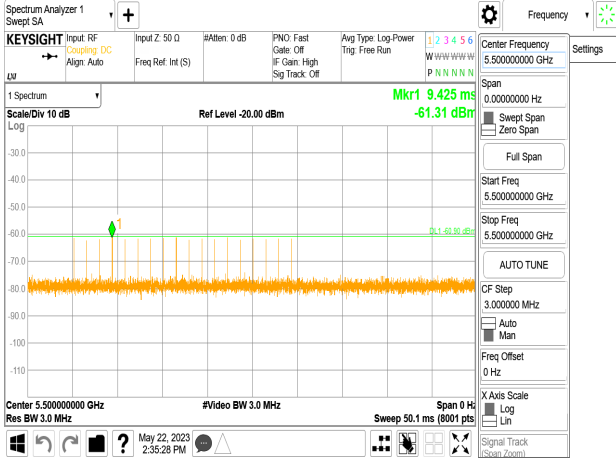
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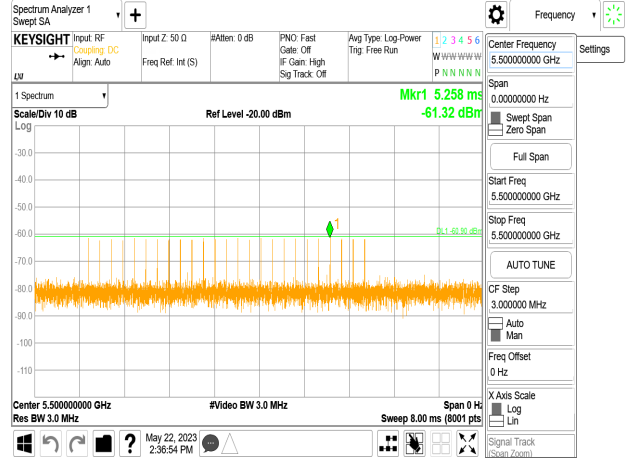
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HE20_5500MHz_Radar_Type 0



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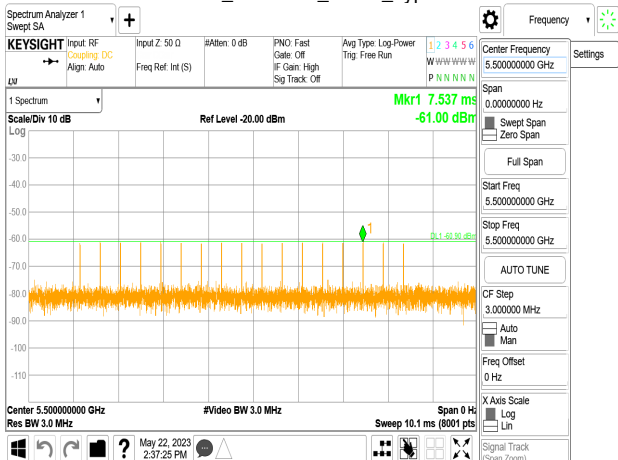


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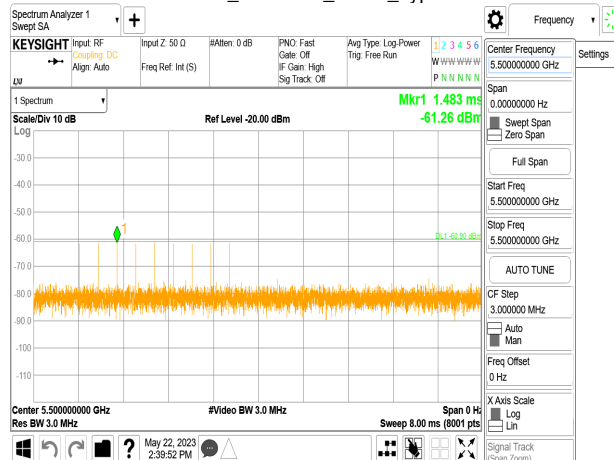
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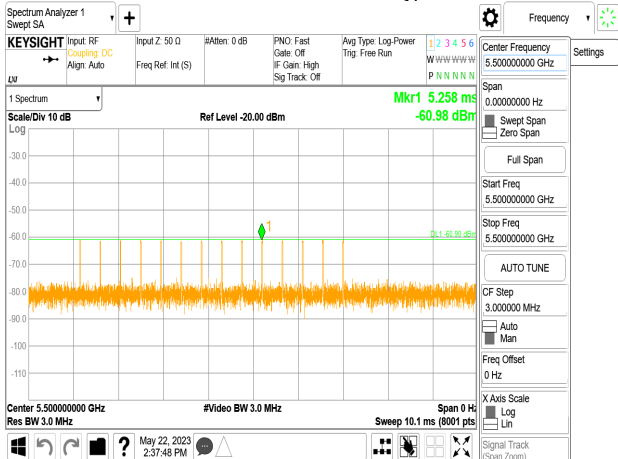
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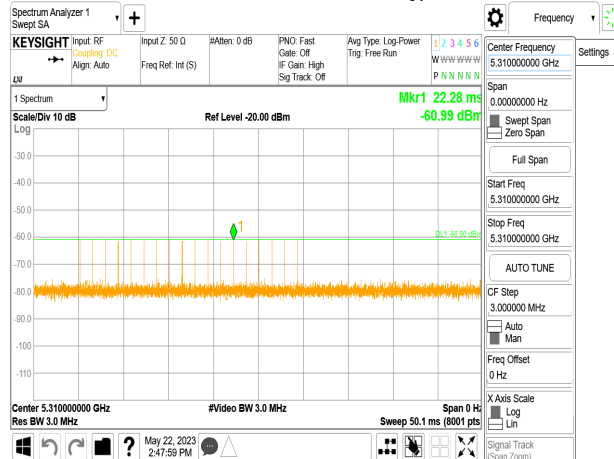
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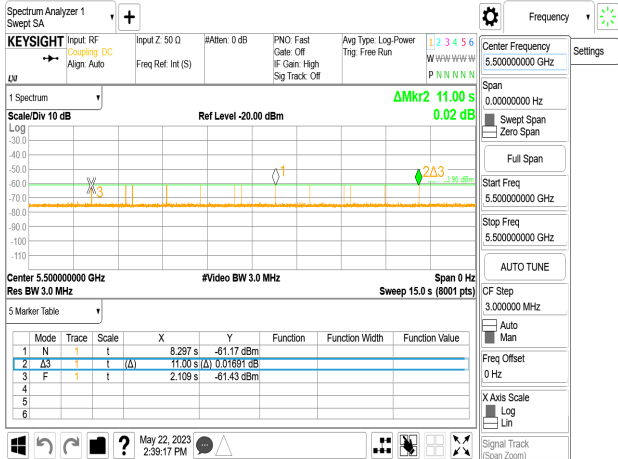
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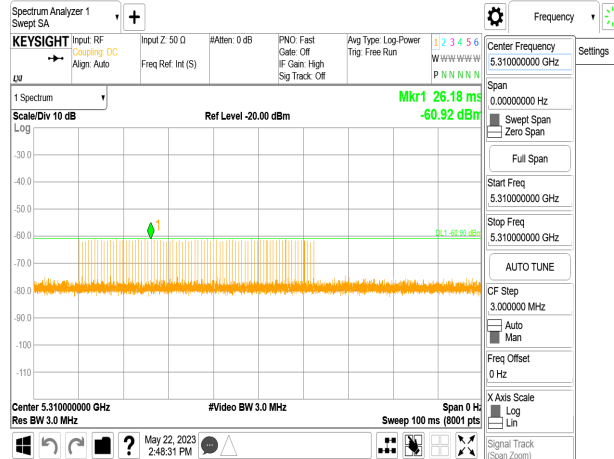
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HE20_5500MHz_Radar_Type 5



HE40_5310MHz_Radar_Type 1-A

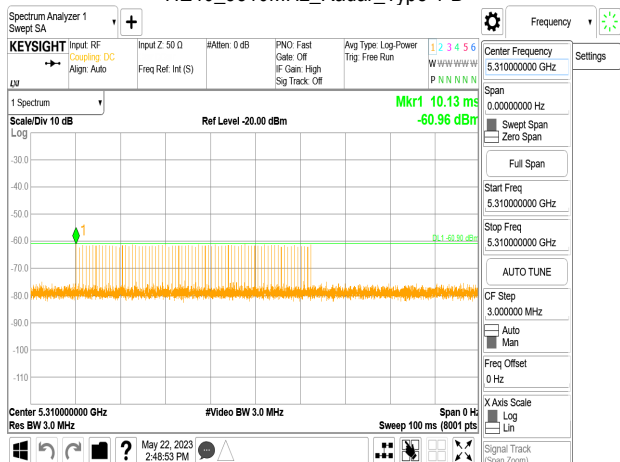


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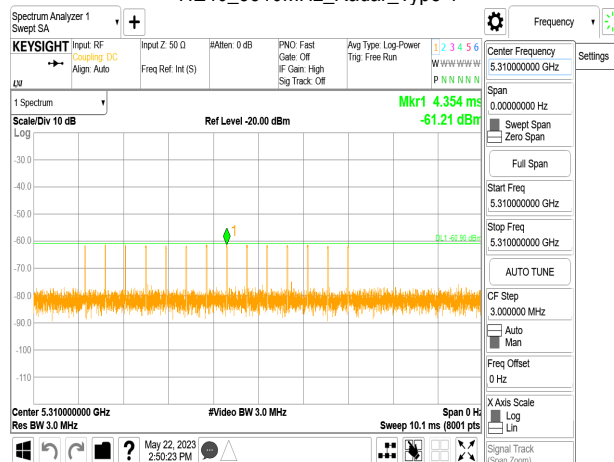
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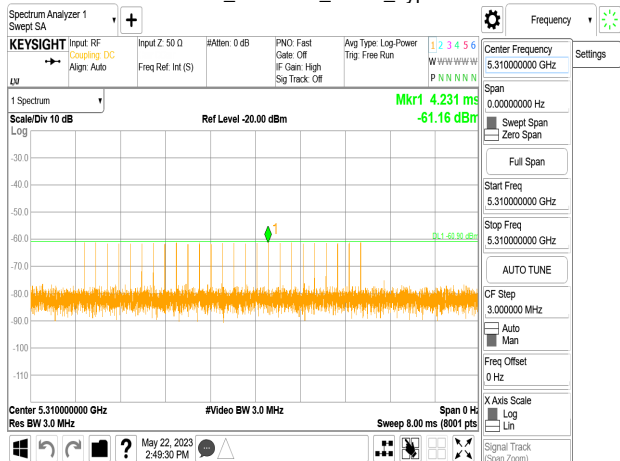
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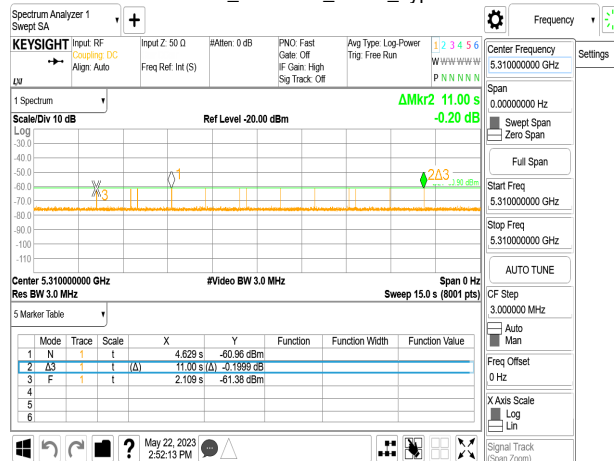
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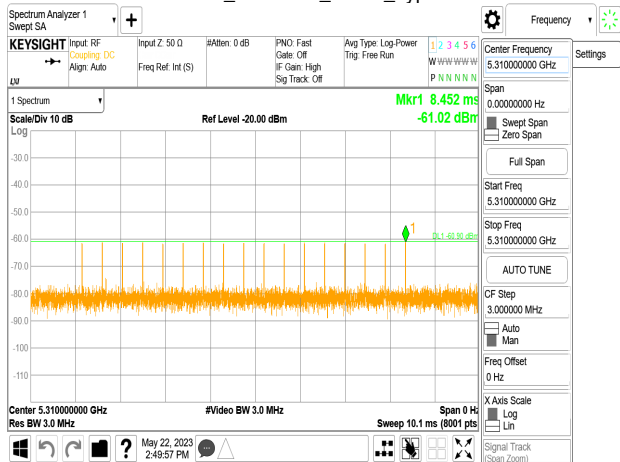
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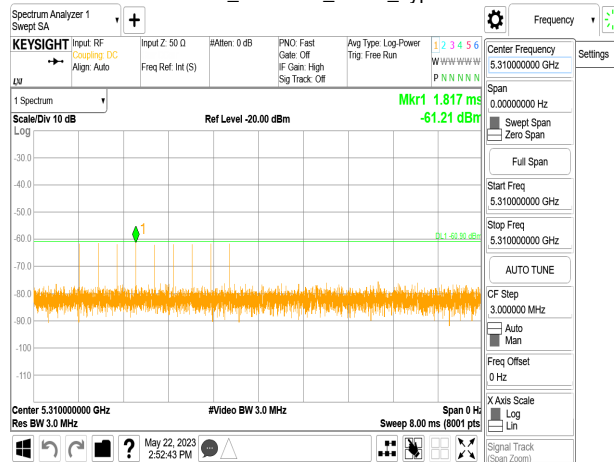
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HE40_5310MHz_Radar_Type 3



HE40_5310MHz_Radar_Type 6

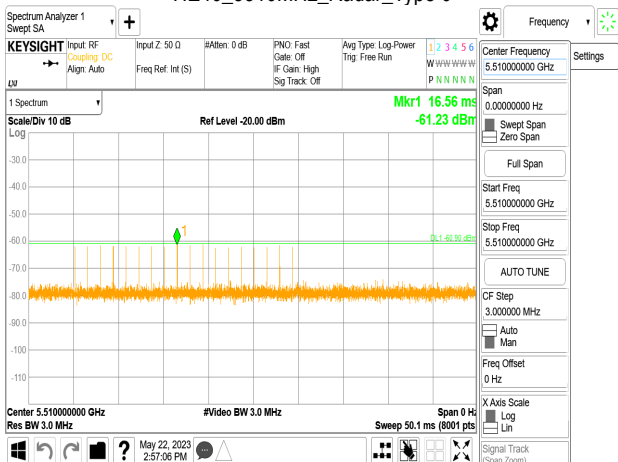


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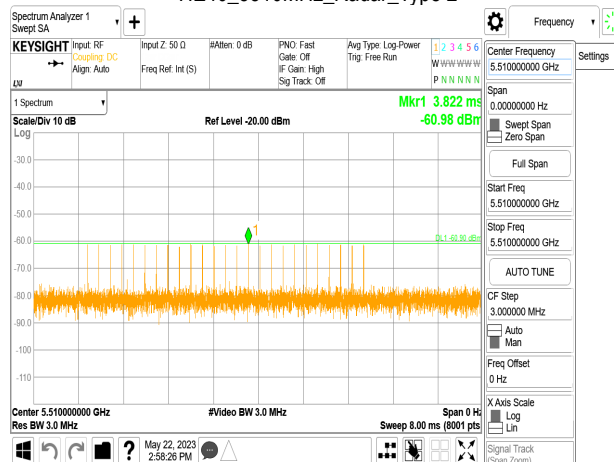
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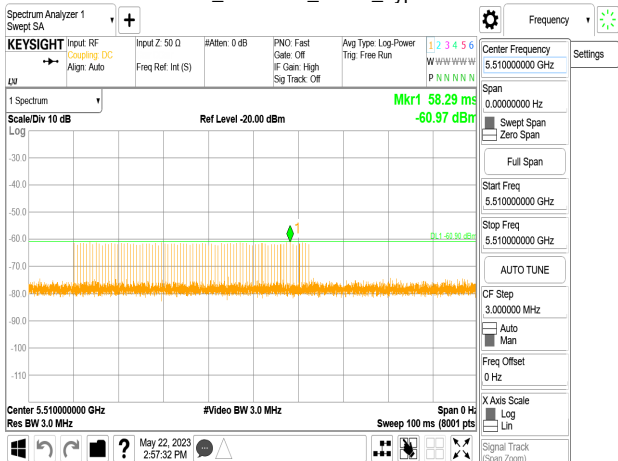
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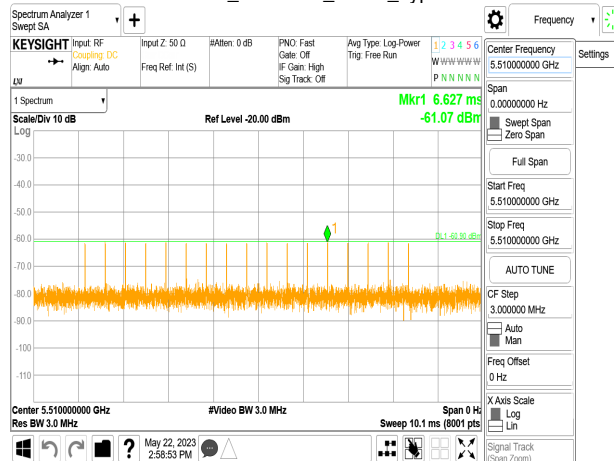
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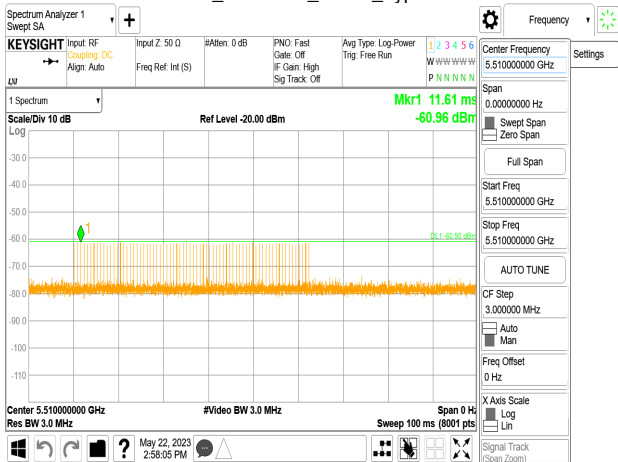
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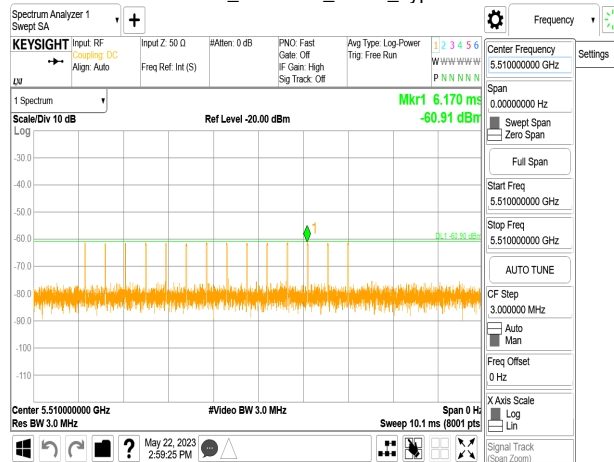
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HE40_5510MHz_Radar_Type 1-B



HE40_5510MHz_Radar_Type 4

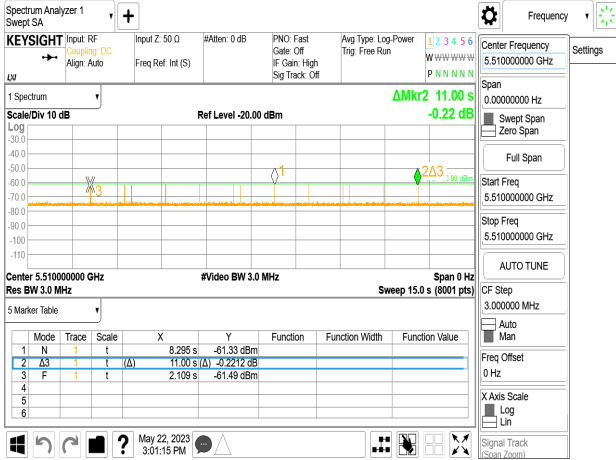


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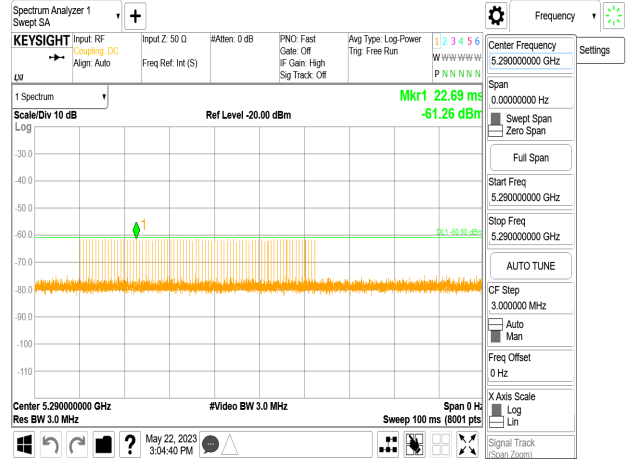
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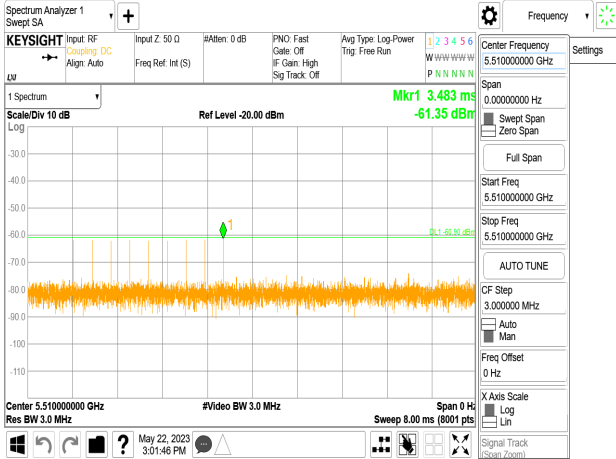
HE40_5510MHz_Radar_Type 5



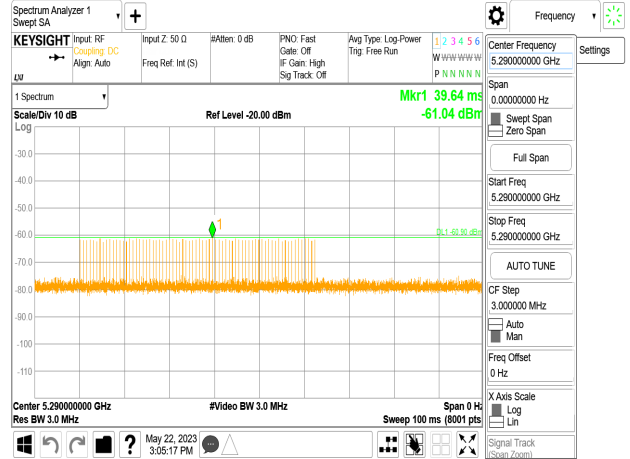
HE80_5290MHz_Radar_Type 1-A



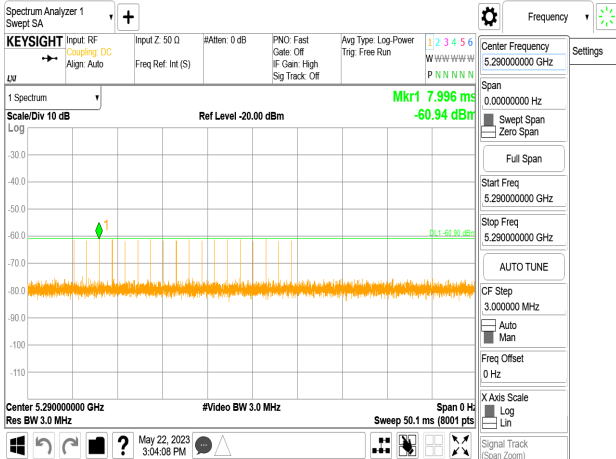
HE40_5510MHz_Radar_Type 6



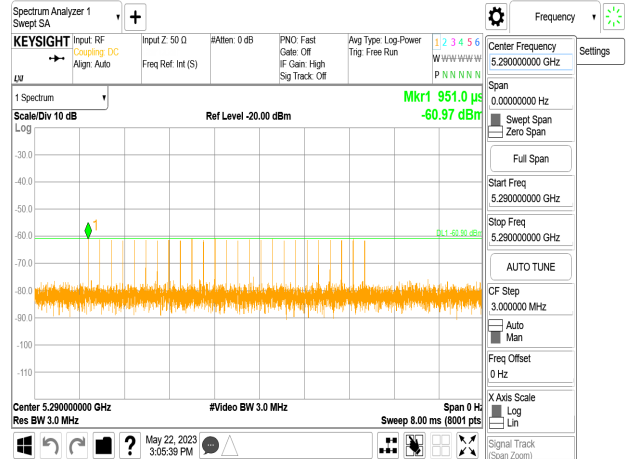
HE80_5290MHz_Radar_Type 1-B



HE80_5290MHz_Radar_Type 0



HE80_5290MHz_Radar_Type 2

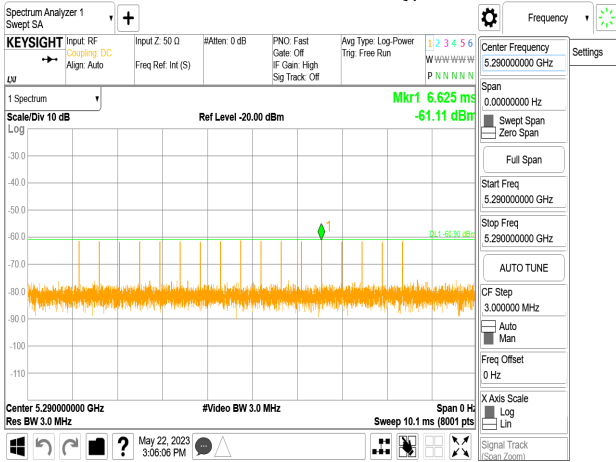


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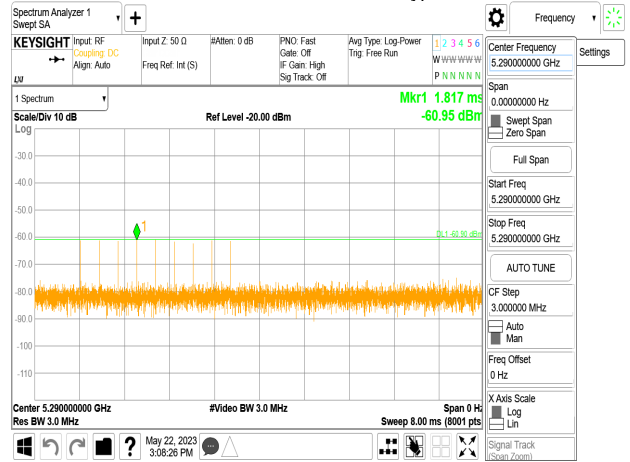
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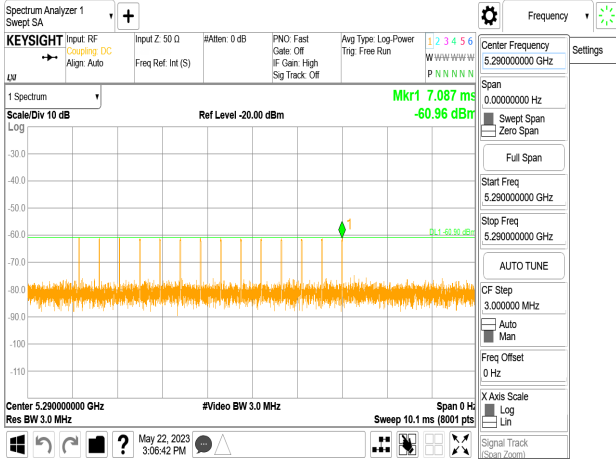
HE80_5290MHz_Radar_Type 3



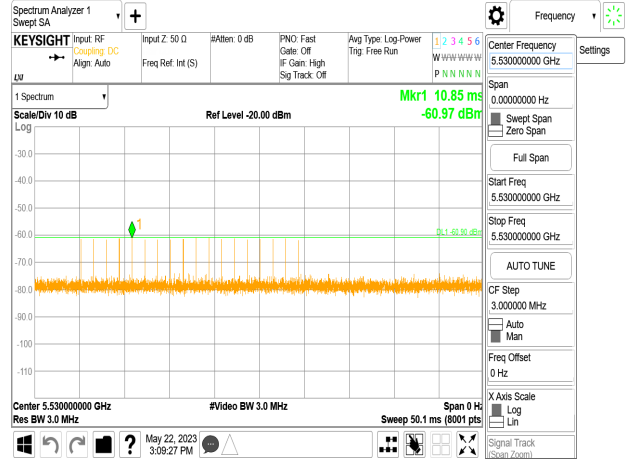
HE80_5290MHz_Radar_Type 6



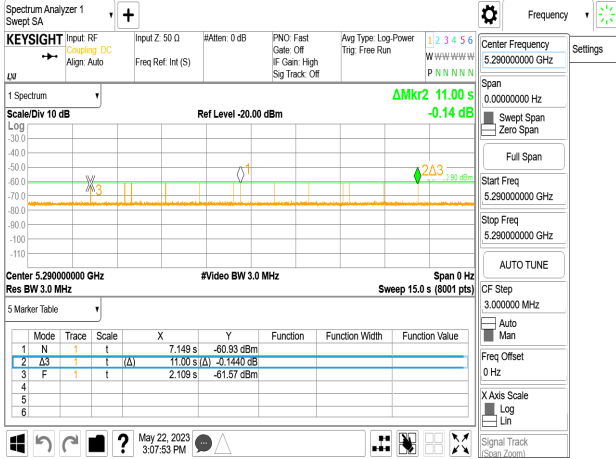
HE80_5290MHz_Radar_Type 4



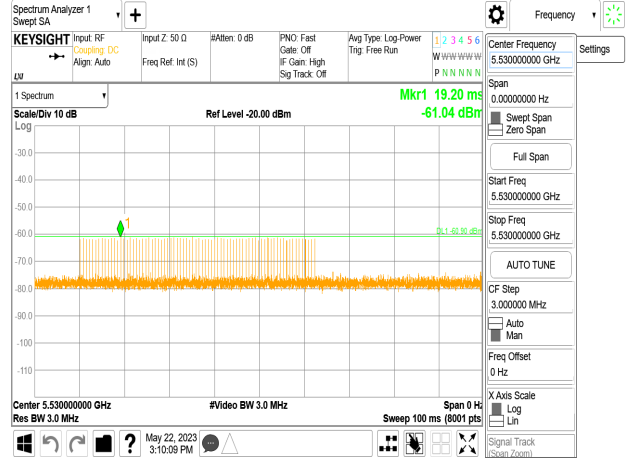
HE80_5530MHz_Radar_Type 0



HE80_5290MHz_Radar_Type 5



HE80_5530MHz_Radar_Type 1-A

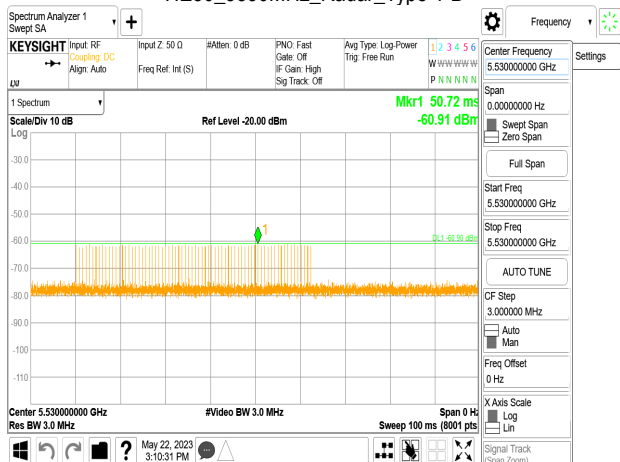


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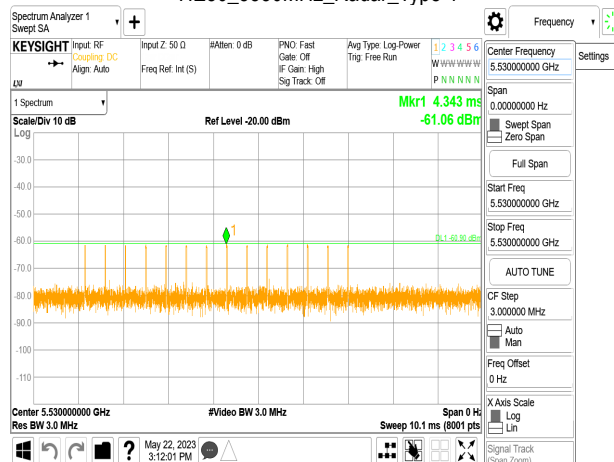
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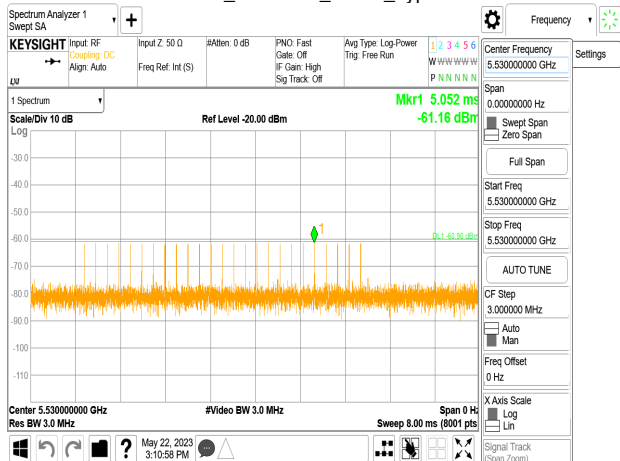
HE80_5530MHz_Radar_Type 1-B



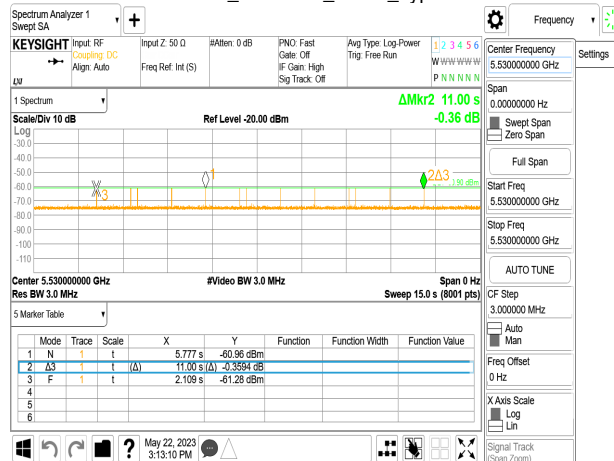
HE80_5530MHz_Radar_Type 4



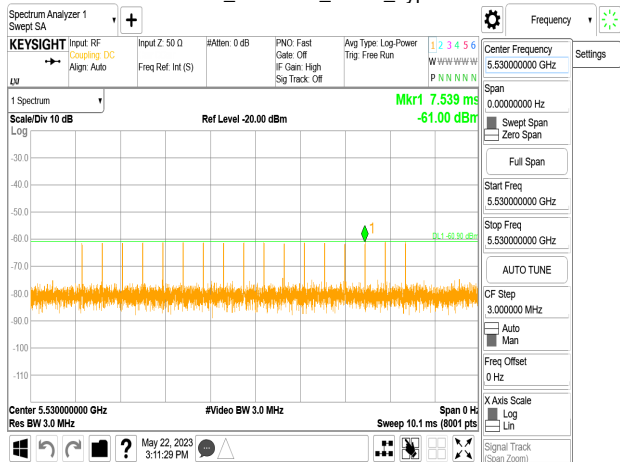
HE80_5530MHz_Radar_Type 2



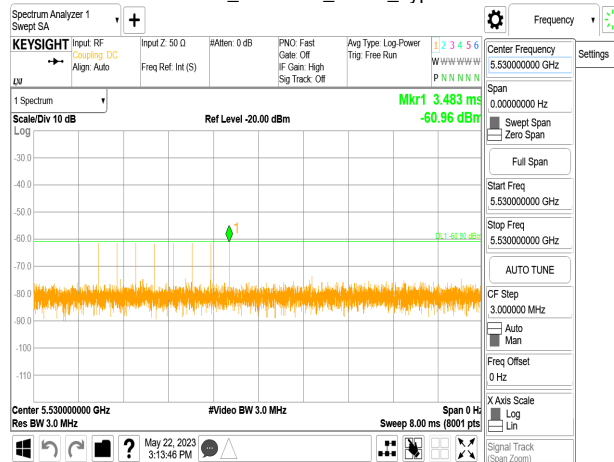
HE80_5530MHz_Radar_Type 5



HE80_5530MHz_Radar_Type 3



HE80_5530MHz_Radar_Type 6



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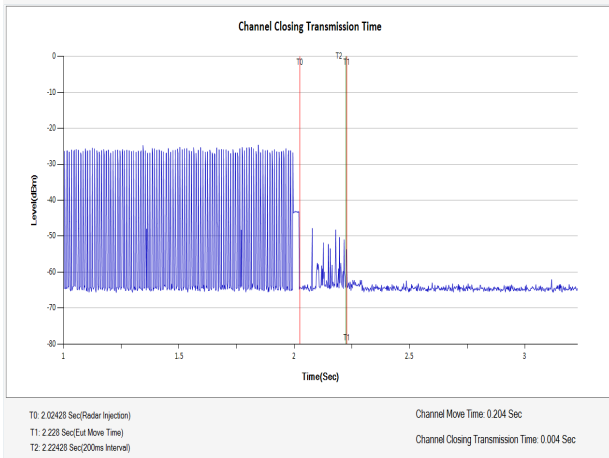
10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME MEASUREMENT (RADAR TYPE 0)

| Channel Shutdown Result | | | | |
|---------------------------------|-------------|-------------------|--|----------------------|
| Detection Threshold Level (dBm) | | | -60.9 | |
| Modulation Mode | Freq. (MHz) | Radar Test Signal | Channel Closing Transmission Time(ms) 200ms~10sec | Channel Move Time(s) |
| HE80 | 5290 | Type 0 | 4 | 0.204 |
| HE80 | 5530 | Type 0 | 4 | 0.226 |
| Limit | | | 60 | ms |
| Result | | | Complied | |

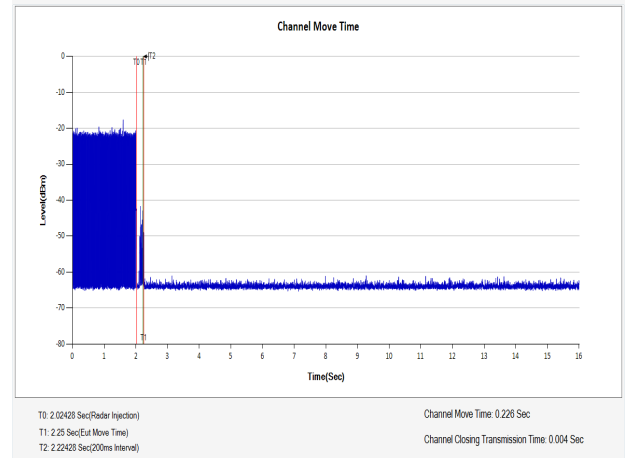
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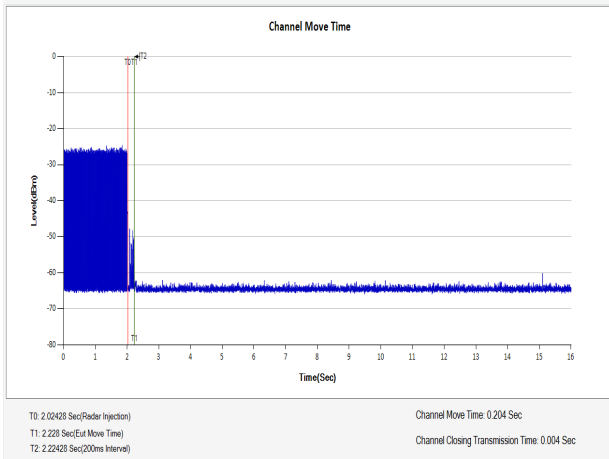
HE80_5290MHz_Channel Close Time



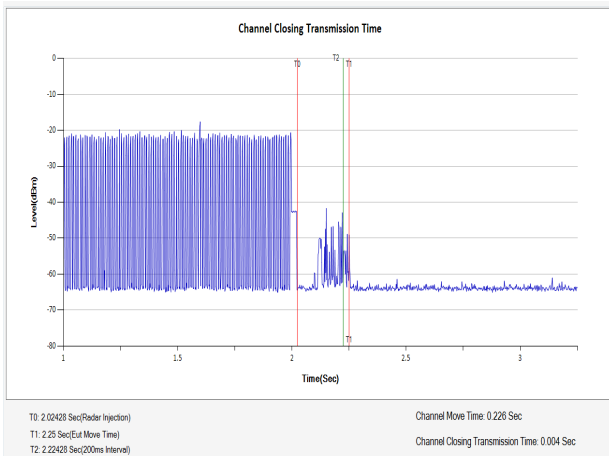
HE80_5530MHz_Channel Move Time



HE80_5290MHz_Channel Move Time



HE80_5530MHz_Channel Close Time

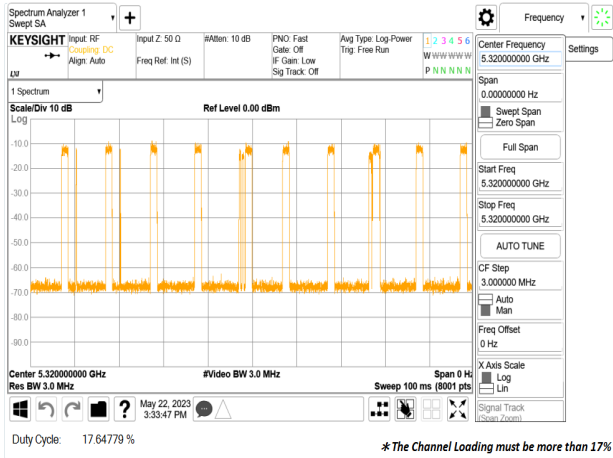


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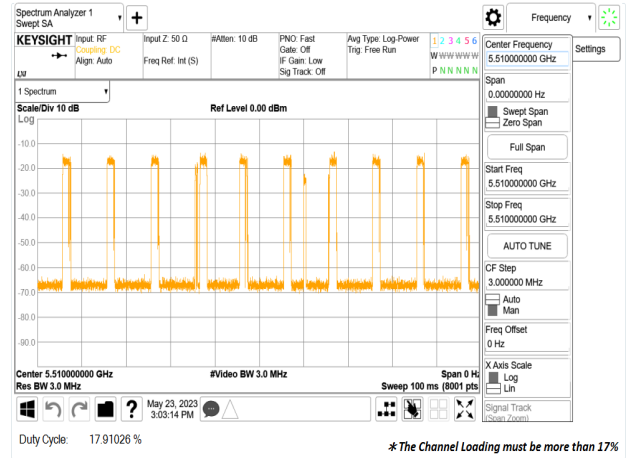
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HE20_5320MHz



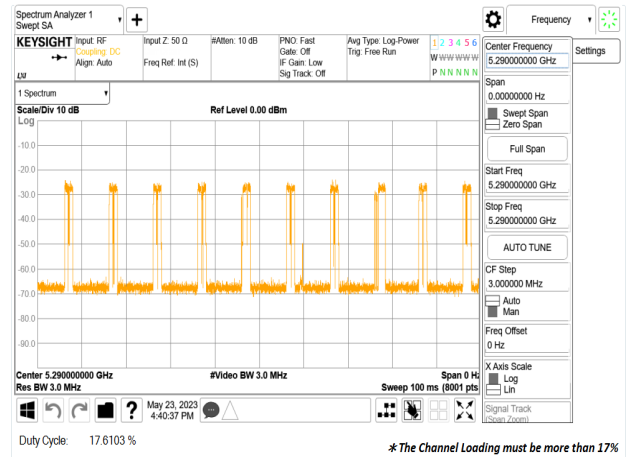
HE40_5510MHz



HE20_5500MHz



HE80_5290MHz



HE40_5310MHz



HE80_5530MHz



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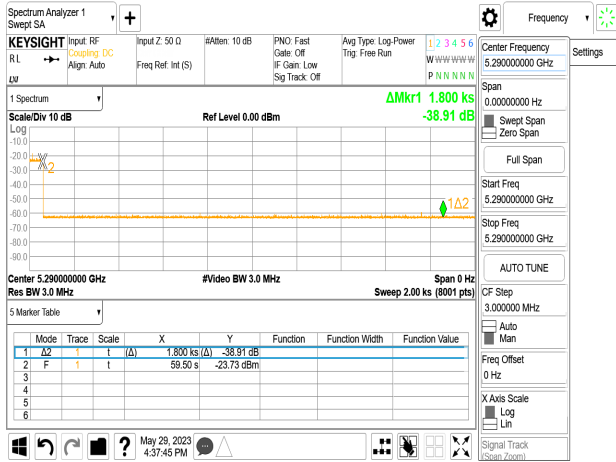
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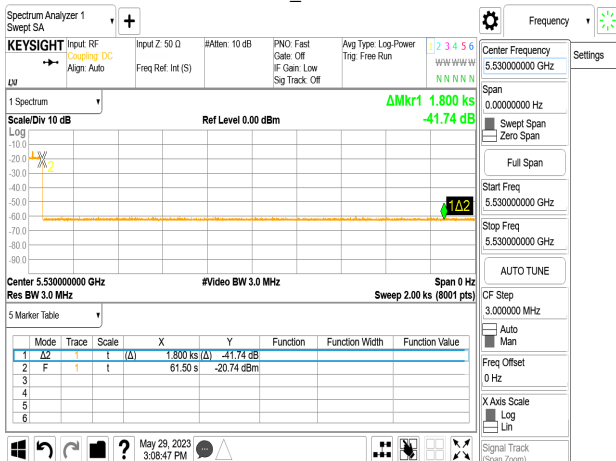
12 NON-OCCUPANCY PERIOD MEASUREMENT

To verify whether channel is unavailable to be operated in 30 minutes.
 $1.8ks = 1800s = 1800 \text{ s/min} / 60 = 30\text{minute}$

HE80_5290MHz



HE80_5530MHz



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