# Test Report

**Verified code:** 380956

**Report No.:** E202212085403-01-4

| | |
|---|---|
| Customer: | Fiberhome Telecommunication Technologies Co., Ltd. |
| Address: | No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China |
| Sample Name: | Wireless Router |
| Sample Model: | SR1021FS |
| Receive Sample Date: | Dec.10,2022 |
| Test Date: | Dec.14,2022 ~ Jan.10,2023 |
| Reference Document: | CFR 47, FCC Parts 15 Subpart E Unlicensed National Information Infrastructure Devices |
| Test Result: | Pass |

Prepared by: Lu Wei Reviewed by: Jiang Tao Approved by: Zhao Zetian

GUANGZHOU GRG METROLOGY & TEST CO., LTD.

Issued Date: 2023-02-27

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Address: No.163 Xipingyun Road, Huangpu Avenue, Tianhe District, Guangzhou（510656）

Tel：（+86）400-602-0999 FAX：（+86）020-38698685 Web：http://www.grgtest.com

# Statement

1.The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.

2.The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.

3.When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.

4.If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.

5.Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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**REPORT ISSUED HISTORY**

| Report Version | Report No. | Description | Compile Date |
|---|---|---|---|
| 1.0 | E202212085403-01-4 | Original Issue | 2023-02-21 |

**---------- The following blanks ----------**

## 1. TEST RESULT SUMMARY

| CFR 47, FCC Parts 15 Subpart E ( §15.407) | | | |
|---|---|---|---|
| **Item** | **Test Mode** | **FCC Standard Section** | **Result** |
| DFS Detection Threshold | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11n HT40 5310MHz/5510MHz<br>IEEE 802.11ac VHT80 5290MHz/5530MHz<br>IEEE 802.11ax HE160 5250MHz/5570MHz | 15.407(h) | PASS |
| Channel Availability Check Time | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11n HT40 5310MHz/5510MHz<br>IEEE 802.11ac VHT80 5290MHz/5530MHz<br>IEEE 802.11ax HE160 5250MHz/5570MHz | 15.407(h) | PASS |
| Channel Closing Transmission Time | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11ac VHT80 5290MHz<br>IEEE 802.11ax HE160 5570MHz | 15.407(h) | PASS |
| Channel Move Time | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11ac VHT80 5290MHz<br>IEEE 802.11ax HE160 5570MHz | 15.407(h) | PASS |
| Non-Occupancy Period | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11ac VHT80 5290MHz<br>IEEE 802.11ax HE160 5570MHz | 15.407(h) | PASS |
| U-NII Detection Bandwidth | IEEE 802.11a 5320MHz/5500MHz<br>IEEE 802.11n HT40 5310MHz/5510MHz<br>IEEE 802.11ac VHT80 5290MHz/5530MHz<br>IEEE 802.11ax HE160 5250MHz/5570MHz | 15.407(h) | PASS |

Note: Recorded the worst case results in this report.

**---------- The following blanks ----------**

## 2. GENERAL DESCRIPTION OF EUT

### 2.1 APPLICANT

| | |
|---|---|
| Name: | Fiberhome Telecommunication Technologies Co., Ltd. |
| Address: | No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China |

### 2.2 MANUFACTURER

| | |
|---|---|
| Name: | Fiberhome Telecommunication Technologies Co., Ltd. |
| Address: | No.88 Youkeyuan Road, Hongshan District, Wuhan,Hubei, China |

### 2.3 FACTORY

| | |
|---|---|
| Name: | Fiberhome Telecommunication Technologies Co., Ltd. |
| Address: | No.67,Chuangye Street,East Lake High-tech Development Zone,WuhanCity,HubeiProvince,P.R.China |

### 2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

| | |
|---|---|
| Equipment: | Wireless Router |
| Model No.: | SR1021FS |
| Adding Model: | / |
| Trade Name: | FiberHome |
| FCC ID: | 2AV2N-SR1021FS |
| Power supply: | DC12V power supplied by adapter |
| Adapter Specification: | Adapter1: KL-WA120100-D<br>Input:100-240V~50/60Hz 0.5A Max<br>Output:12V⎓1.0A<br>Adapter2: RD1201000-C55-35MGD<br>Input:100-240V~50/60Hz 0.6A Max<br>Output:12V⎓1A |
| Operation Frequency Range: | U-NII-2A: 5260 MHz~5320 MHz<br>U-NII-2C: 5500 MHz~5700 MHz |
| Modulation type: | OFDM, OFDMA |
| Number Of Channel | U-NII-2A:<br>IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels<br>IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels<br>IEEE 802.11ac VHT80 / ax HE80: 1 Channel<br>IEEE 802.11ax HE160: 1 Channel<br>U-NII-2C:<br>IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 11 Channels<br>IEEE 802.11n HT40 / ac VHT40 / ax HE40: 5 Channels<br>IEEE 802.11ac VHT80 / ax HE80: 2 Channel<br>IEEE 802.11ax HE160: 1 Channel |
| Channels Spacing: | IEEE 802.11a: 20MHz<br>IEEE 802.11n HT20/ ac VHT20 / ax HE20: 20MHz |

| | |
|---|---|
| | IEEE 802.11n HT40/ ac VHT40 / ax HE40: 40MHz<br>IEEE 802.11ac VHT80 / ax HE80: 80MHz<br>IEEE 802.11 ax HE160:160MHz |
| Antenna Specification: | Internal antenna<br>U-NII-2A:<br>PCBantenna 1 with 3.20dBi gain (Max.)<br>PCBantenna 2 with 3.20dBi gain (Max.)<br>On Board antenna 3 with 3.36dBi gain (Max.)<br>U-NII-2C:<br>PCBantenna 1 with 3.26dBi gain (Max.)<br>PCBantenna 2 with 3.26dBi gain (Max.)<br>On Board antenna 3 with 3.25dBi gain (Max.) |
| Operating Mode | ☒Master<br>□Client with radar detection<br>□Client without radar detection |
| TPC Funtion | □ With TPC ☒Without TPC |
| Temperature Range: | 0℃ ~ +45℃ |
| Hardware Version: | / |
| Software Version: | V1.0 |
| Sample No: | E202212085403-01-0001 |
| Note: | After the EUT is powered on, the time from connecting the device to successful full startup is 154 seconds. |

## 2.5 TEST OPERATION MODE

| Mode No. | Description of the modes |
|---|---|
| 1 | 5G Wi-Fi work normally |

Note：NB1 connects to the EUT through the WLAN port, logs in to the UI to set the default working channel of 5G WIFI, and NB2 connects to the 5G WIFI SSID of the EUT to establish data transmission.

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# 3. LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY

## 3.1 LABORATORY

The tests & measurements refer to this report were performed byShenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.


Add : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008


## 3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

| | |
|---|---|
| **USA** | A2LA(Certificate #2861.01) |

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

| | |
|---|---|
| **Canada** | ISED (Company Number: 24897，CAB identifier:CN0069) |
| **USA** | FCC (Registration Number: 759402，Designation Number:CN1198) |

Copies of granted accreditation certificates are available for downloading from our web site, http://www.grgtest.com

## 3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Uncertainty |
|---|---|
| RF frequency | $6.0 \times 10^{-6}$ |
| RF power conducted | 0.78 dB |
| Occupied channel bandwidth | 0.4 dB |
| Unwanted emission, conducted | 0.68 dB |
| Humidity | 6 % |
| Temperature | 2℃ |

This uncertainty represents an expanded uncertainty factor of k=2.

## 4. LIST OF USED TEST EQUIPMENT AT GRGT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV3044 | 101184 | 2023-09-02 |
| Vector signal generator | R&S | SMM100A | 101629 | 2023-10-20 |
| Power Splitter | Qualwave | QPD2-380-8000-30-S | 21255026 | 2023-06-19 |
| Power Splitter | Qualwave | QPD2-380-8000-30-S | 21255027 | 2023-06-19 |
| Attenuator | SHX | GKTS2-2-99-18-A7-B | 20113001 | 2023-11-06 |
| Attenuator | SHX | GKTS2-2-99-18-A7-B | 20113002 | 2023-11-06 |
| Client | DELL | Latitude | CYOGJW2 | / |

Note: The calibration interval of the above test instruments is 12 months.

## 5. EIRP POWER

| Band | Test Mode | Maximum Conducted Power (dBm) | | | Antenna Gain (dBi) | | | Total Maximum EIRP Power (mW) |
|---|---|---|---|---|---|---|---|---|
| | | Ant 1 | Ant 2 | Ant 3 | Ant 1 | Ant2 | Ant 3 | |
| UNII-2A (5250 MHz~5350 MHz) | IEEE 802.11 a | 7.55 | 8.58 | 7.75 | 3.20 | 3.20 | 3.36 | 15.066 |
| | IEEE 802.11n HT20 | 8.31 | 8.74 | 8.29 | | | | 44.411 |
| | IEEE 802.11n HT40 | 6.76 | 6.84 | 6.96 | | | | 30.766 |
| | IEEE 802.11ac VHT20 | 8.78 | 8.44 | 8.7 | | | | 46.434 |
| | IEEE 802.11ac VHT40 | 6.41 | 6.97 | 6.84 | | | | 30.012 |
| | IEEE 802.11ac VHT80 | 3.65 | 3.96 | 4.01 | | | | 15.5 |
| | IEEE 802.11ax HE20 | 3.51 | 3.8 | 3.25 | | | | 14.281 |
| | IEEE 802.11ax HE40 | 3.61 | 3.76 | 4.04 | | | | 15.259 |
| | IEEE 802.11ax HE80 | 3.9 | 4.45 | 3.6 | | | | 15.916 |
| | IEEE 802.11ax HE160 | 4.3 | 4.1 | 4.96 | | | | 17.786 |
| UNII-2C (5470 MHz~5725 MHz) | IEEE 802.11 a | 9.35 | 8.72 | 7.57 | 3.26 | 3.26 | 3.25 | 18.24 |
| | IEEE 802.11n HT20 | 9.84 | 8.67 | 8.07 | | | | 49.565 |
| | IEEE 802.11n HT40 | 8.18 | 6.55 | 6.95 | | | | 33.975 |
| | IEEE 802.11ac VHT20 | 9.09 | 8.29 | 8.8 | | | | 47.500 |
| | IEEE 802.11ac VHT40 | 8.58 | 7.44 | 6.73 | | | | 36.979 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | IEEE 802.11ac VHT80 | 5.22 | 4.48 | 3.77 | | | | 18.025 |
| | IEEE 802.11ax HE20 | 4.37 | 3.37 | 3.39 | | | | 15.010 |
| | IEEE 802.11ax HE40 | 4.82 | 4.06 | 4.07 | | | | 17.217 |
| | IEEE 802.11ax HE80 | 5.03 | 4.03 | 3.72 | | | | 17.081 |
| | IEEE 802.11ax HE160 | 5.22 | 4.22 | 4.26 | | | | 18.281 |

**---------- The following blanks ----------**

# 6. DYNAMIC FREQUENCY SELECTION REQUIREMENTS

## 6.1 DFS OVERVIEW

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

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

**Table 2: Applicability of DFS requirements during normal operation**

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

| Additional requirements for devices with multiple bandwidth modes | Master Device or Client with Radar Detection | Client Without Radar Detection |
|---|---|---|
| U-NII Detection Bandwidth and Statistical Performance Check | All BW modes must be tested | Not required |
| Channel Move Time and Channel Closing Transmission Time | Test using widest BW mode available | Test using the widest BW mode available for the link |
| All other tests | Any single BW mode | Not required |

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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## 6.2 DFS DETECTION THRESHOLDS

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

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

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.
**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

## 6.3 RESPONSE REQUIREMENTS

**Table 4: DFS Response Requirement Values**

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

## 6.4 RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

### 6.4.1SHORT PULSE RADAR TEST WAVEFORMS

**Table 5 – Short Pulse Radar Test Waveforms**

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

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses would be Roundup $\{(1/360)(19\times10^6/3066)\}$ = Round up $\{17.2\}$ = 18.

**Table 5a - Pulse Repetition Intervals Values for Test A**

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

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

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

### 6.4.2LONG PULSE RADAR TEST WAVEFORM

**Table 6 – Long Pulse Radar Test Waveform**

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
2) There are a total of 8 to 20 *Bursts* in the 12 second period, with the number of *Bursts* being randomly chosen. This number is *Burst Count*.
3) Each *Burst* consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each *Burst* within the 12 second sequence may have a different number of pulses.
4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a *Burst* will have the same pulse width. Pulses in different *Bursts* may have different pulse widths.
5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a *transmission period* will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
6) If more than one pulse is present in a *Burst*, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a *Burst*, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.
7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to *Burst Count*. Each interval is of length (12,000,000 / *Burst Count*) microseconds. Each interval contains one *Burst*. The start time for the *Burst*, relative to the beginning of the interval, is between 1 and [(12,000,000 / *Burst Count*) – (Total *Burst* Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each *Burst* is chosen randomly.

**A representative example of a Long Pulse Radar Type waveform:**

1) The total test waveform length is 12 seconds.
2) Eight (8) Bursts are randomly generated for the Burst Count.
3) Burst 1 has 2 randomly generated pulses.
4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
5) The PRI is randomly selected to be at 1213 microseconds.
6) Bursts 2 through 8 are generated using steps 3 – 5.
7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

### 6.4.3FREQUENCY HOPPING RADAR TEST WAVEFORM

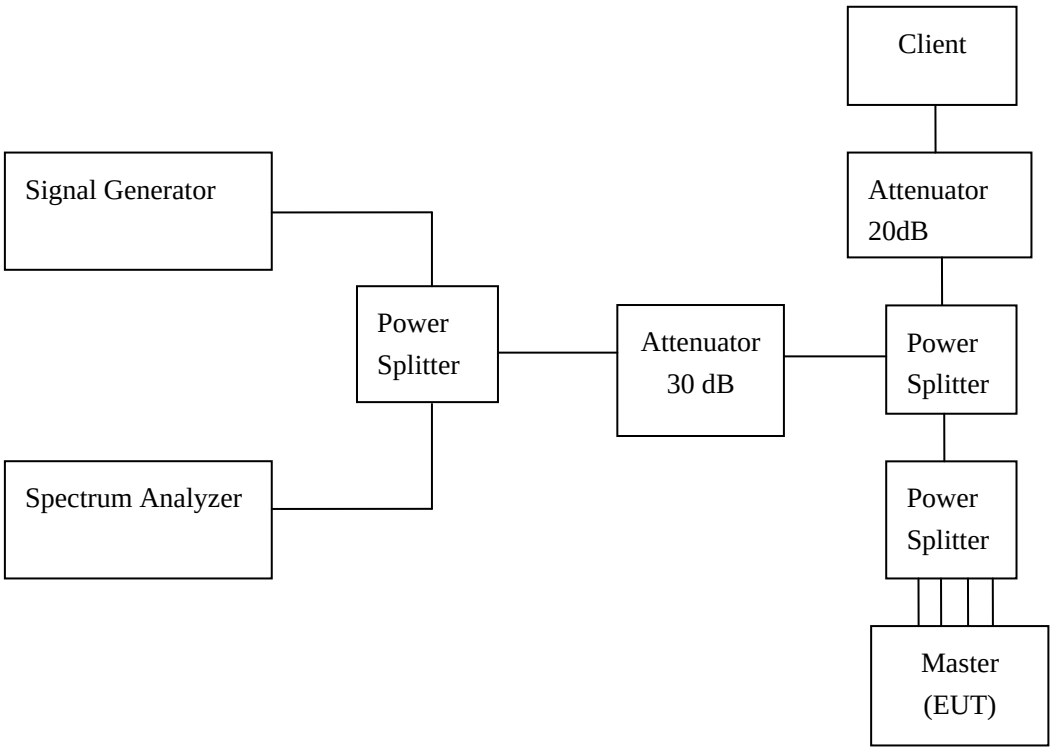
**Table 7 – Frequency Hopping Radar Test Waveform**

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

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

### 6.5 TEST SETUP



## 7. TEST RESULTS

| Environmental Conditions | 22.3℃/49%RH | Test Voltage | AC120V/60Hz |
|---|---|---|---|
| Tested By | Qin Tingting | Tested Date | 2022/12/19~2022/1/13 |

### 7.1 CHANNEL LOADING

| Frequency (MHz) | Marker Delta (ms) | Number | On Time (ms) | Total Time (ms) | Duty cycle (%) | Limit (%) |
|---|---|---|---|---|---|---|
| 5320 | 4.52 | 5 | 22.60 | 100 | 22.60 | 17.00 |
| 5310 | 3.57 | 6 | 21.42 | 100 | 21.42 | 17.00 |
| 5290 | 3.23 | 7 | 22.61 | 100 | 22.61 | 17.00 |
| 5250 | 2.53 | 8 | 20.24 | 100 | 20.24 | 17.00 |
| 5500 | 3.85 | 6 | 23.10 | 100 | 23.1 | 17.00 |
| 5510 | 3.12 | 7 | 21.84 | 100 | 21.84 | 17.00 |
| 5530 | 4.22 | 5 | 21.10 | 100 | 21.1 | 17.00 |
| 5570 | 2.54 | 8 | 20.32 | 100 | 20.32 | 17.00 |

### 7.2 RADAR WAVEFORM DETECTION THRESHOLD

**Radar Waveform Type 0**

| Description | Value | Unit |
|---|---|---|
| Configured DUT EIRP: | 49.565 | mW |
| Configured DUT PSD: | 4.82 | dBm/MHz |
| Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3 | -62 | dBm |
| This results in the following radar signal level at the DUT | -58.74 | dBm |

Note :

(1) For a detection threshold level of -62dBm and the Master antenna gain is 3.26dBi,required detection threshold is -58.8dBm(=-62+3.2).

(2) Maximum Transmit Power is less than 200 milliwattin this report, So detection threshold level is -62dBm.

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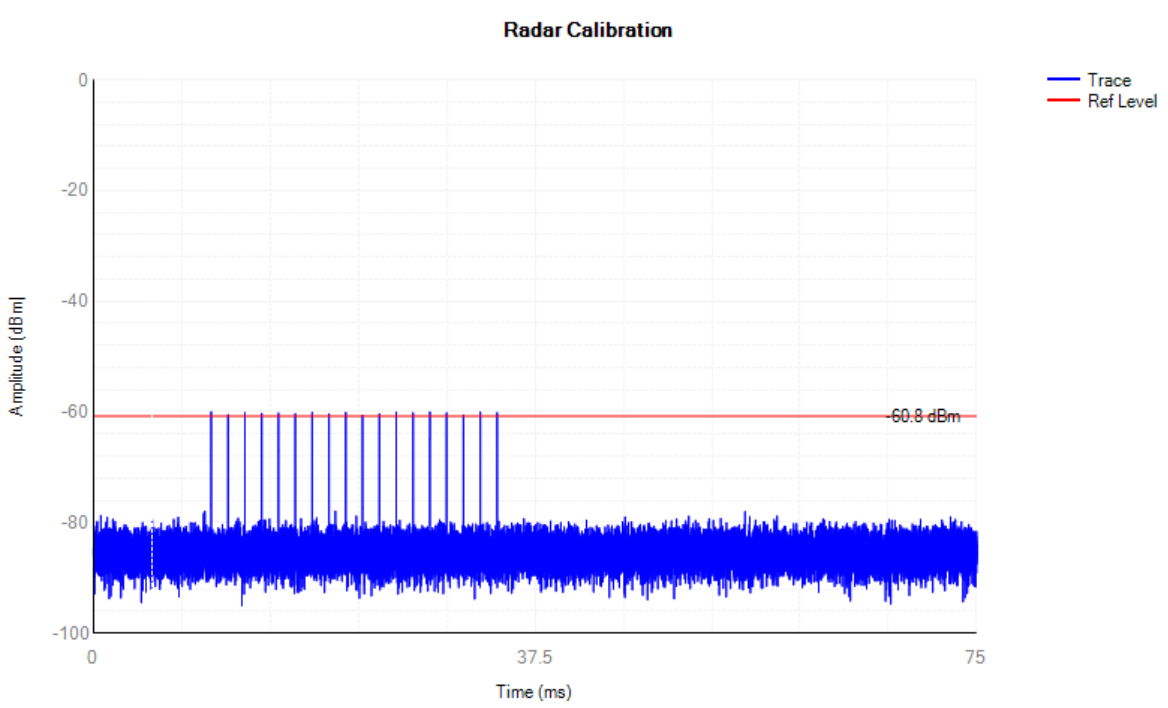
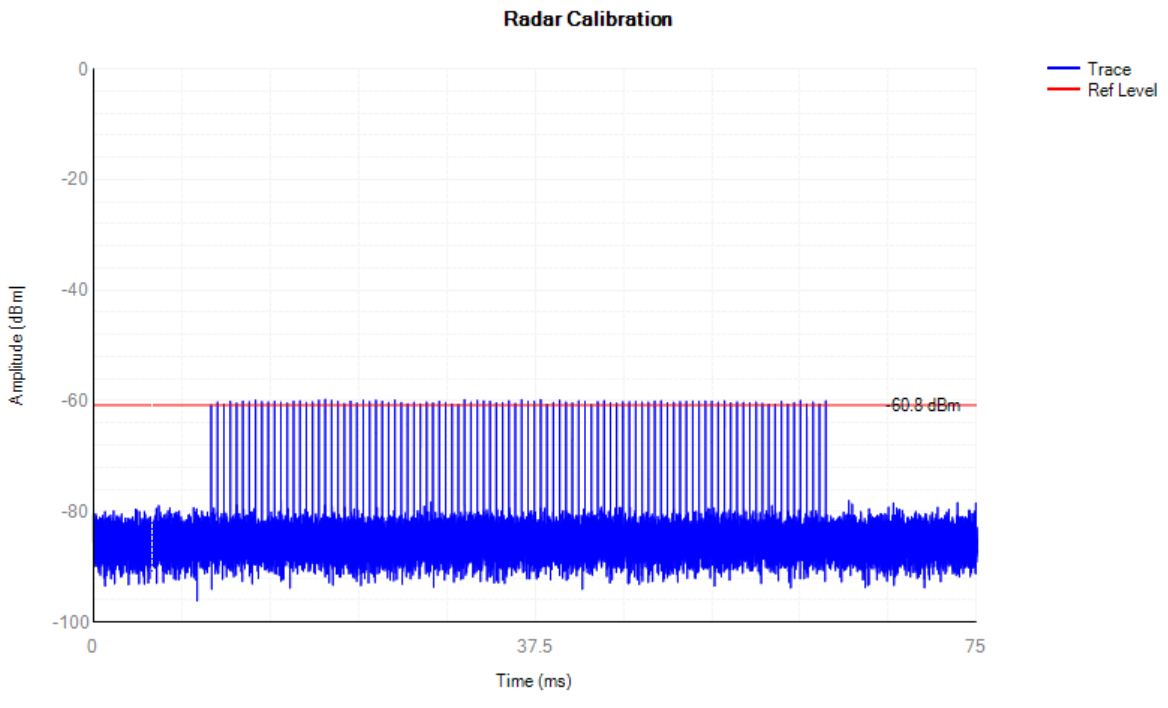
**5320MHz**

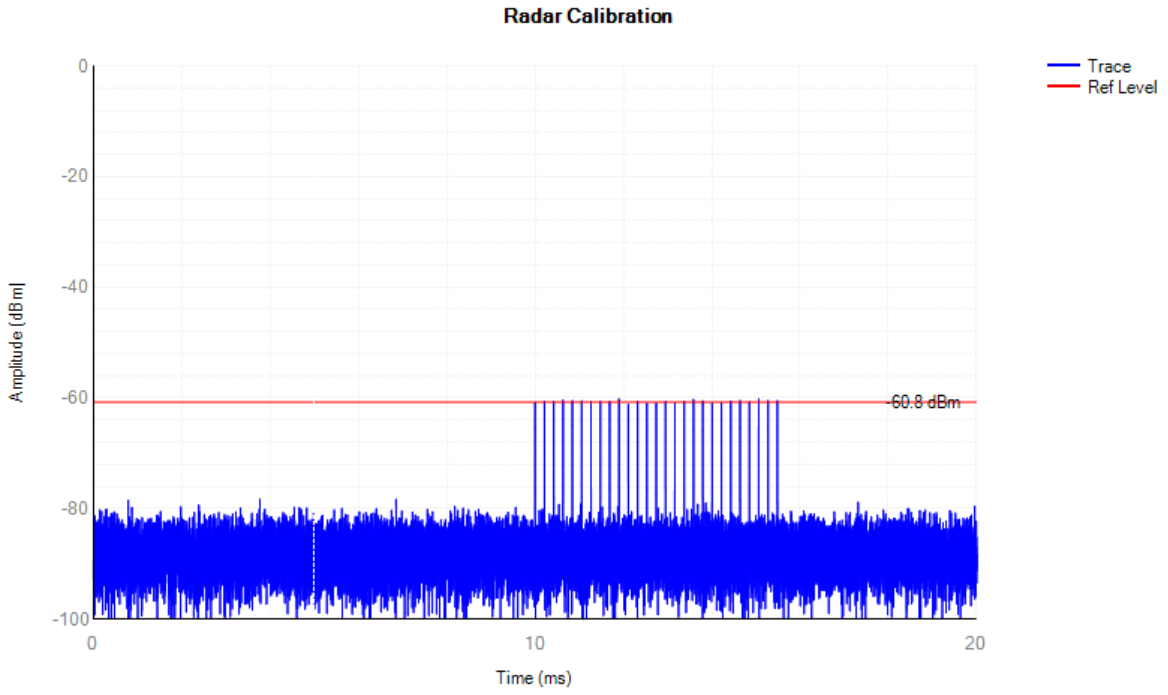
5320MHz DFS_FCC_Type 0



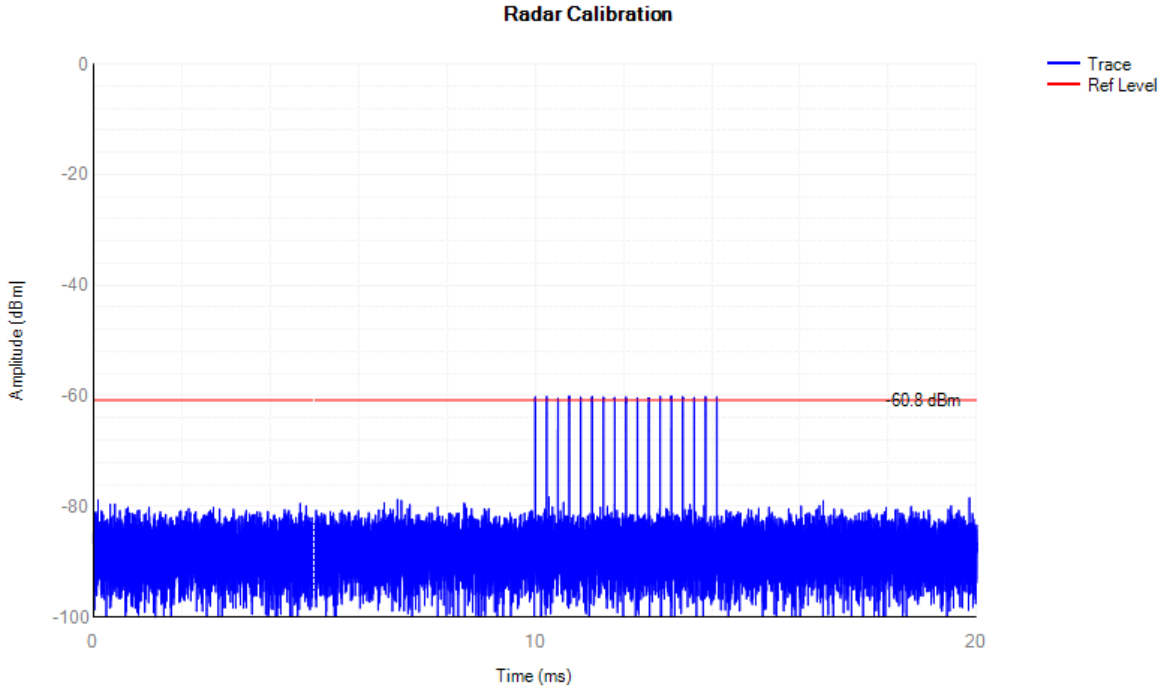

5320MHz DFS_FCC_ Type 1



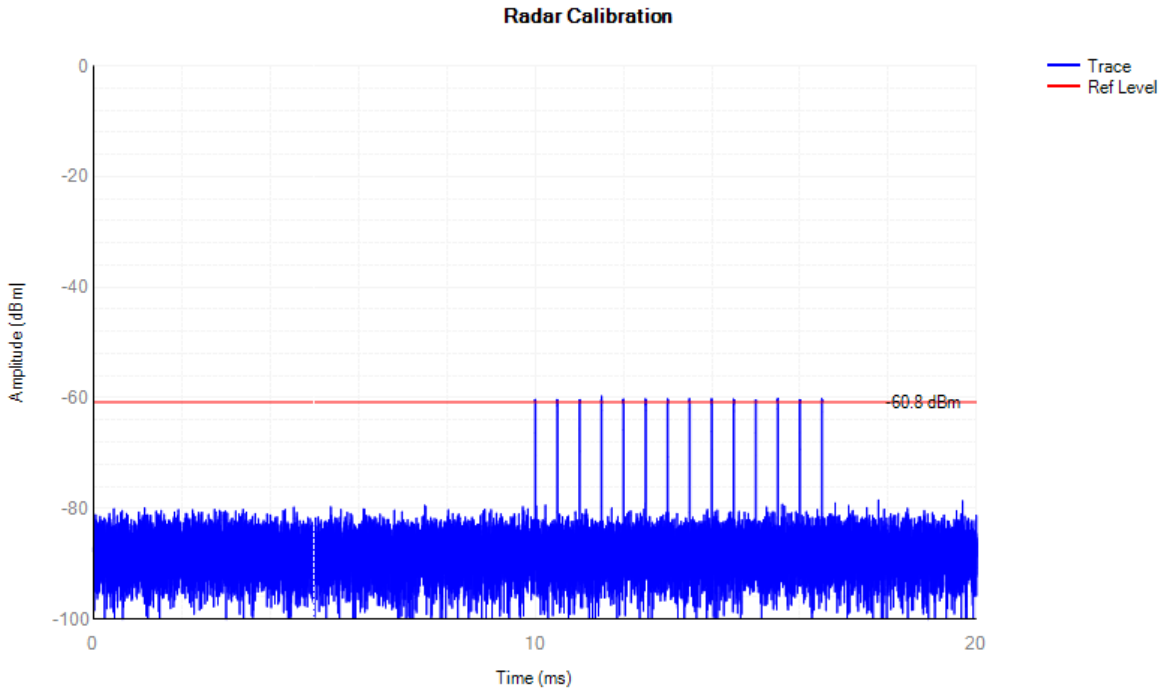
5320MHz DFS_FCC_ Type 2



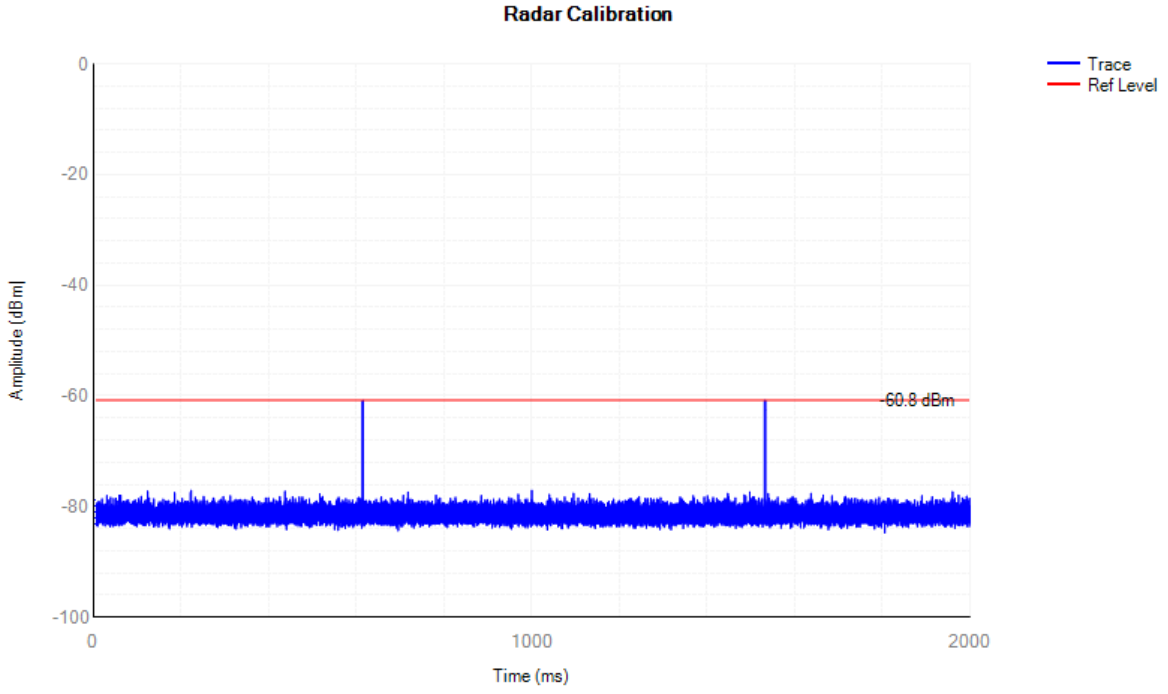

5320MHz DFS_FCC_ Type 3



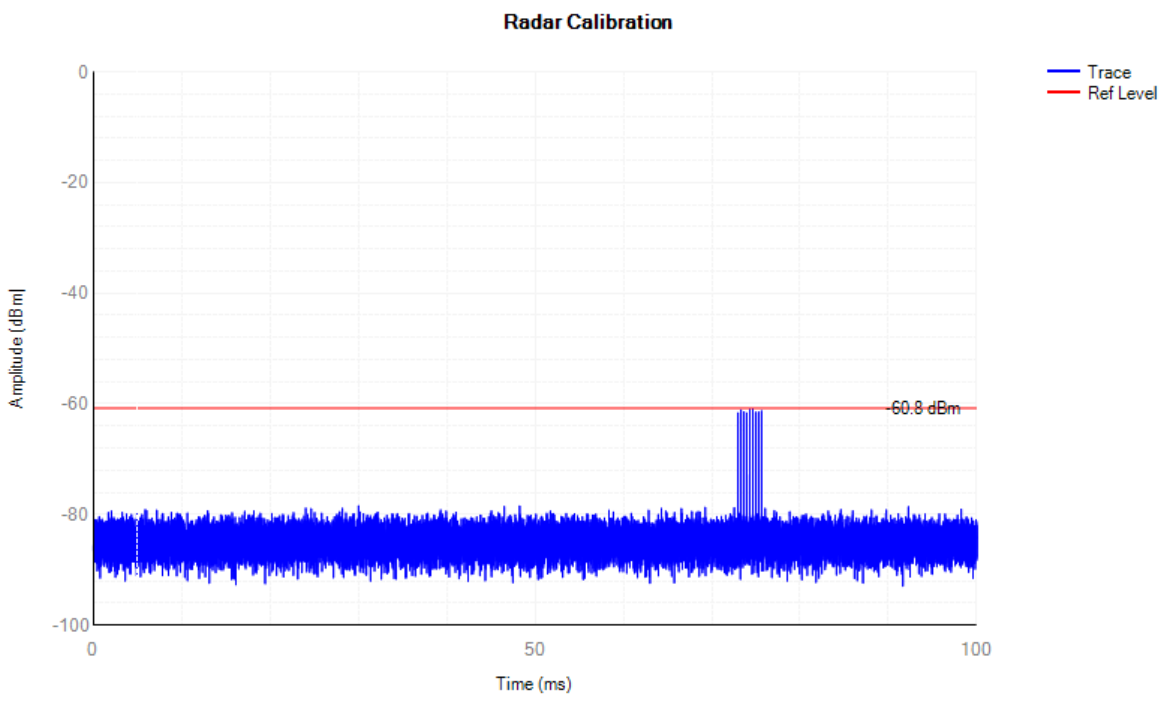
5320MHz DFS_FCC_ Type 4




5320MHz DFS_FCC_ Type 5

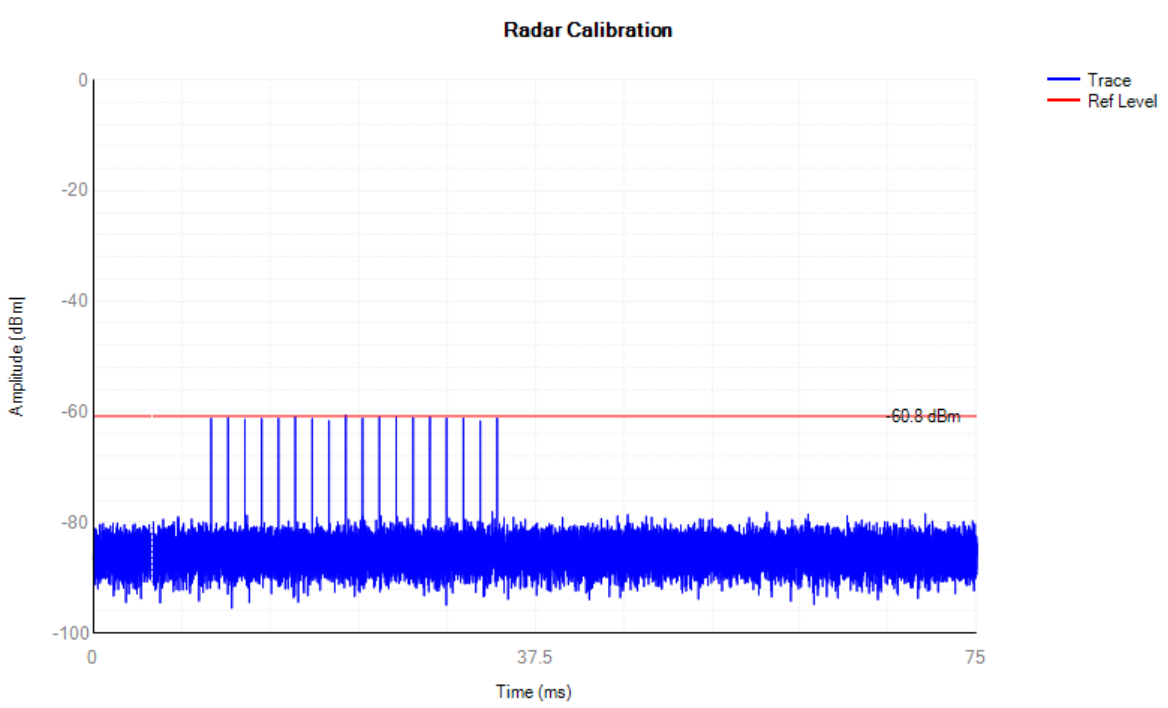


5320MHz DFS_FCC_ Type 6

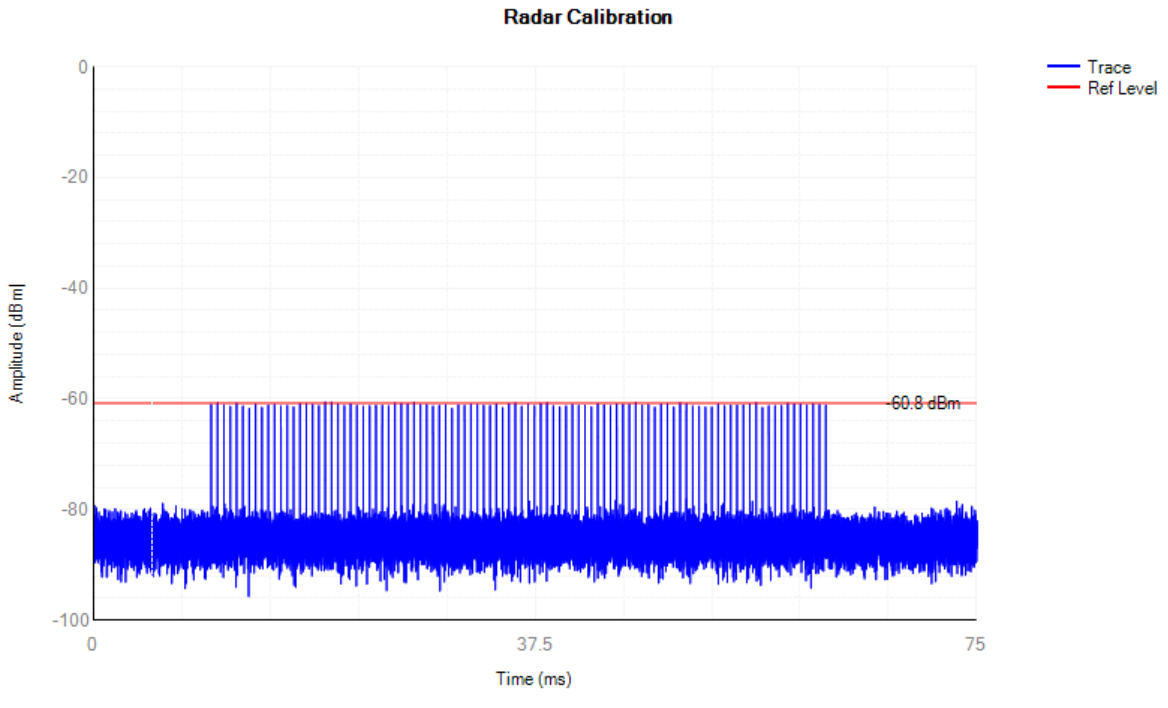


**5310MHz**

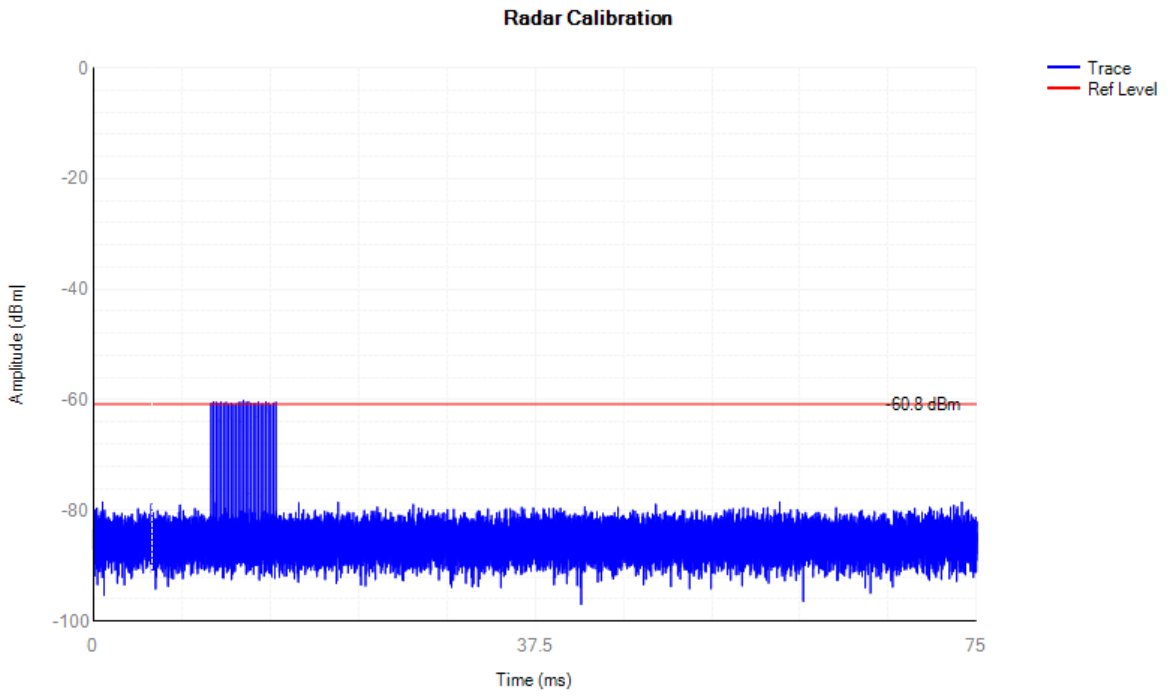
5310MHz DFS_FCC_ Type 0



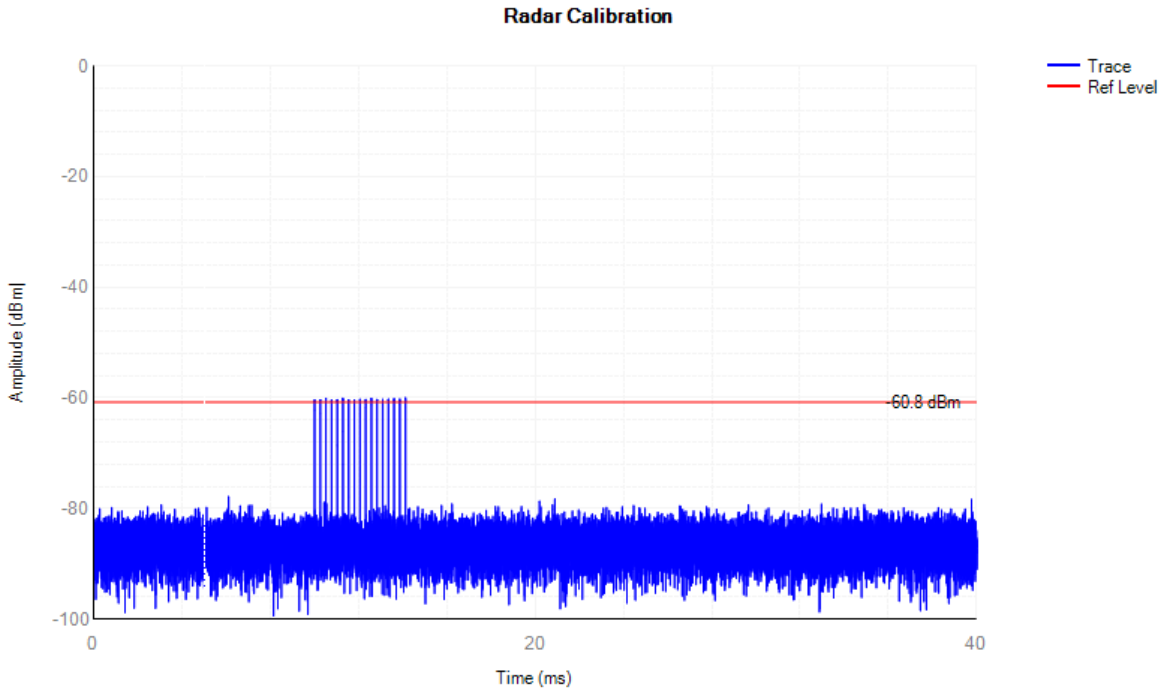

5310MHz DFS_FCC_ Type 1



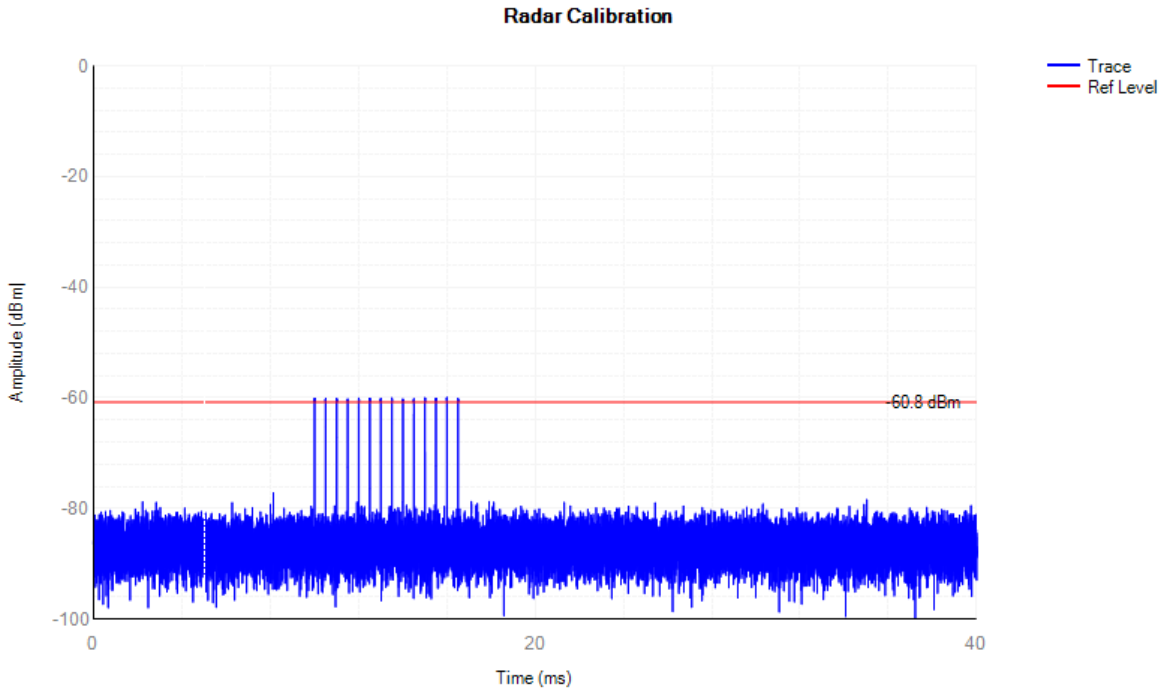
5310MHz DFS_FCC_ Type 2



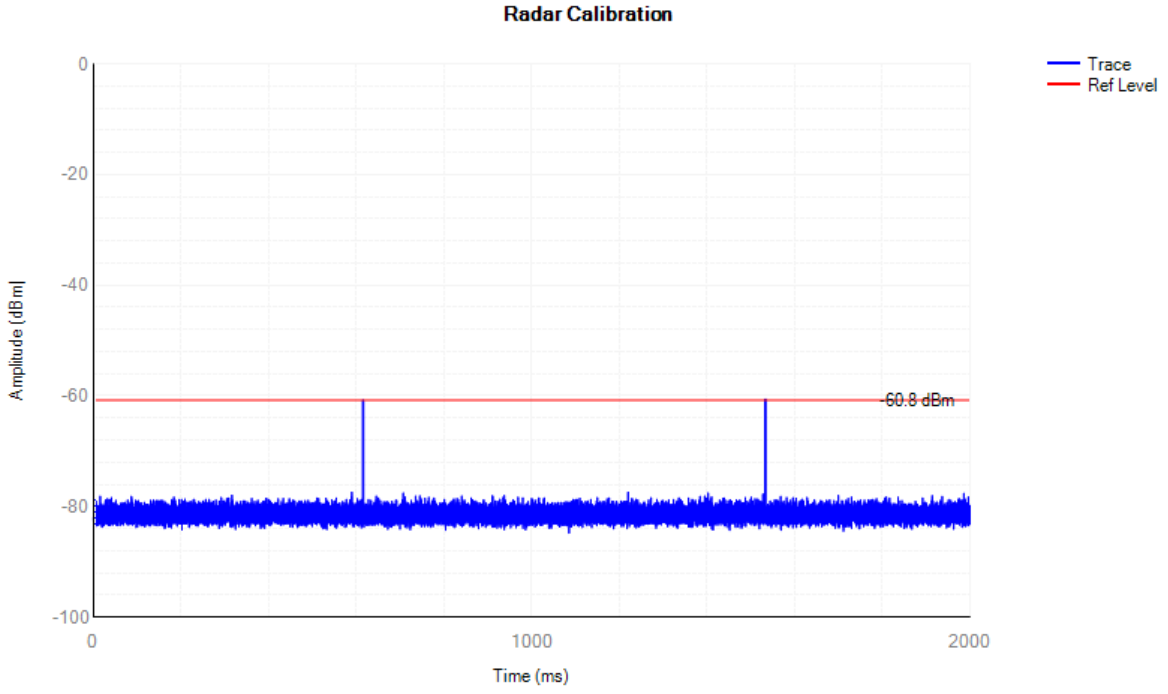

5310MHz DFS_FCC_ Type 3



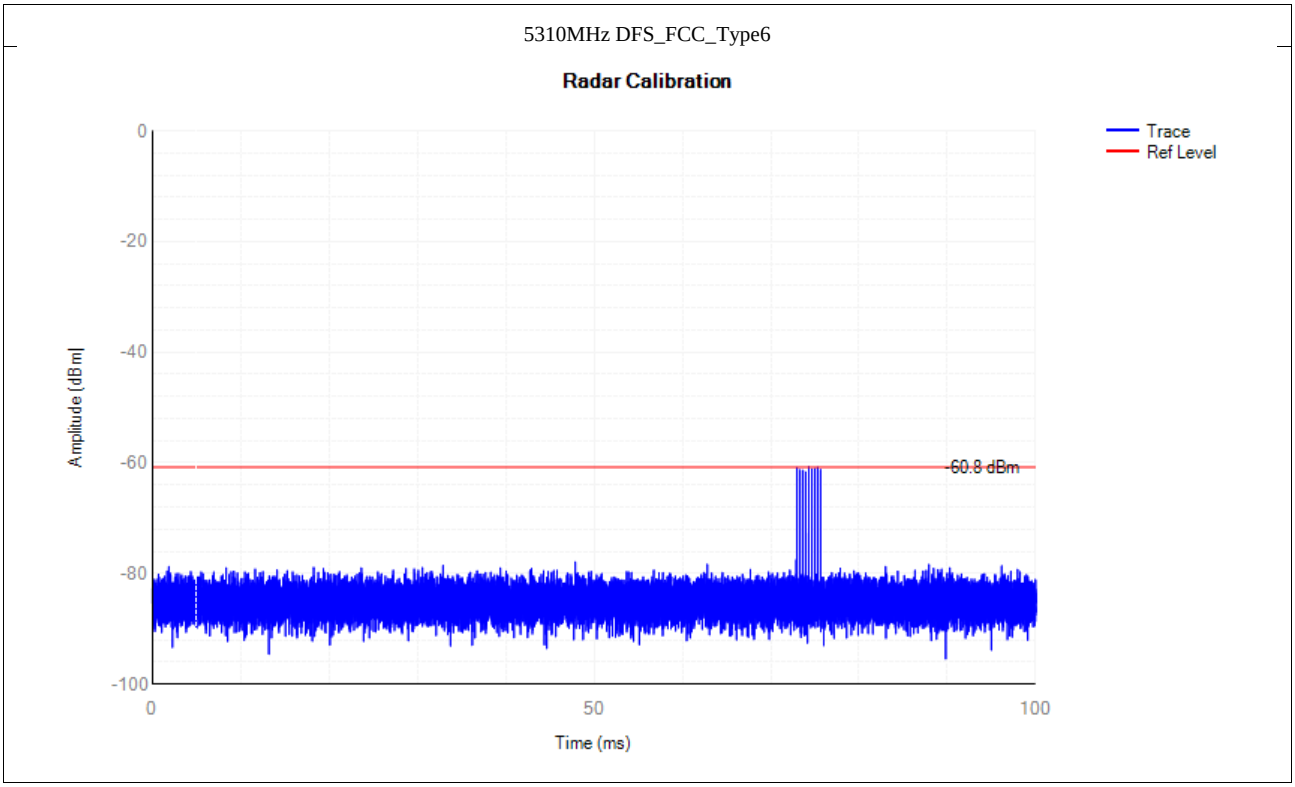
5310MHz DFS_FCC_Type4




5310MHz DFS_FCC_Type5

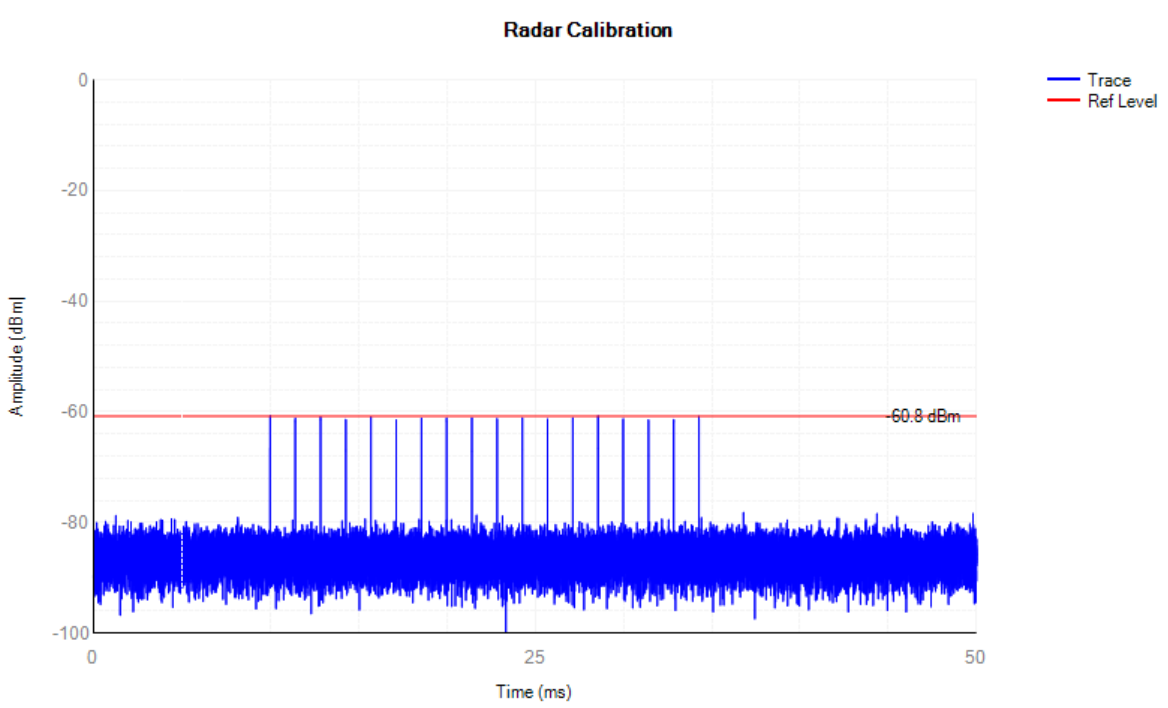


5310MHz DFS_FCC_Type6

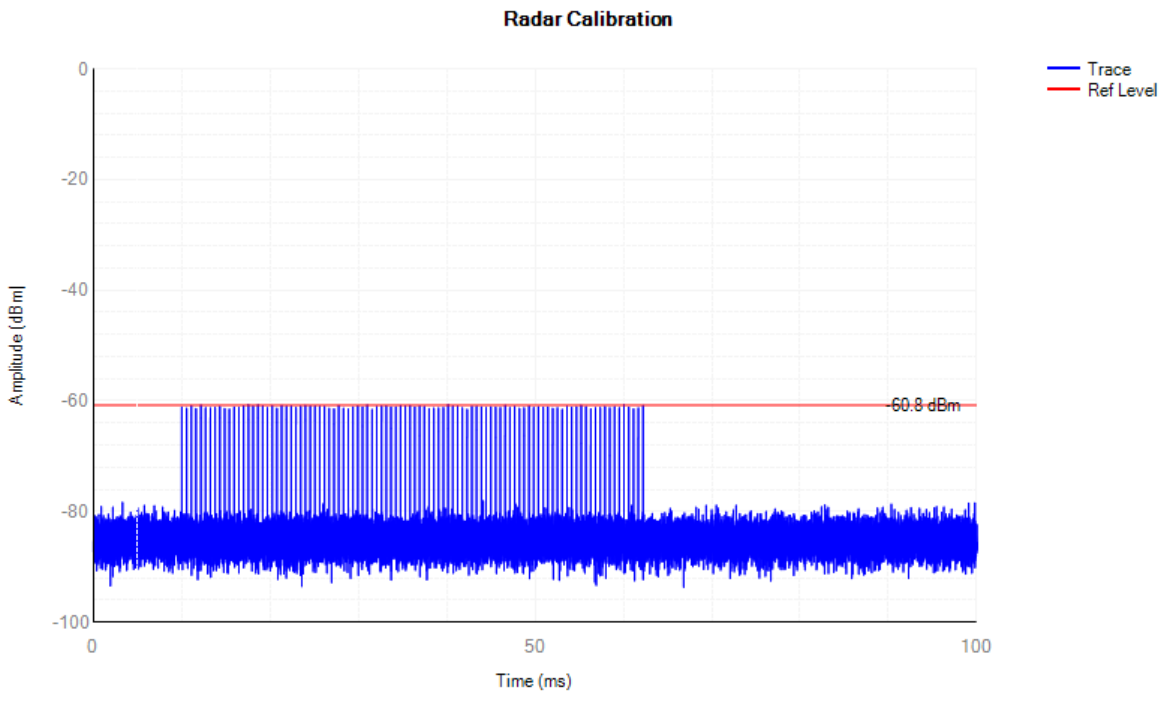


**5290MHz**

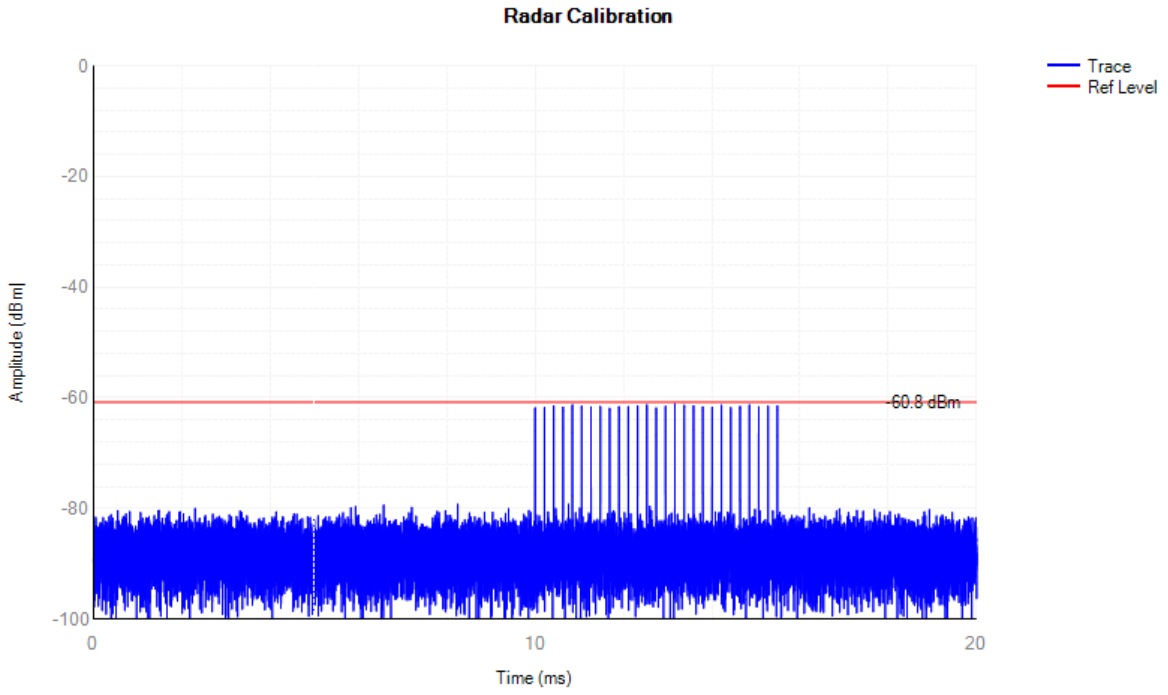
5290MHz DFS_FCC_Type 0



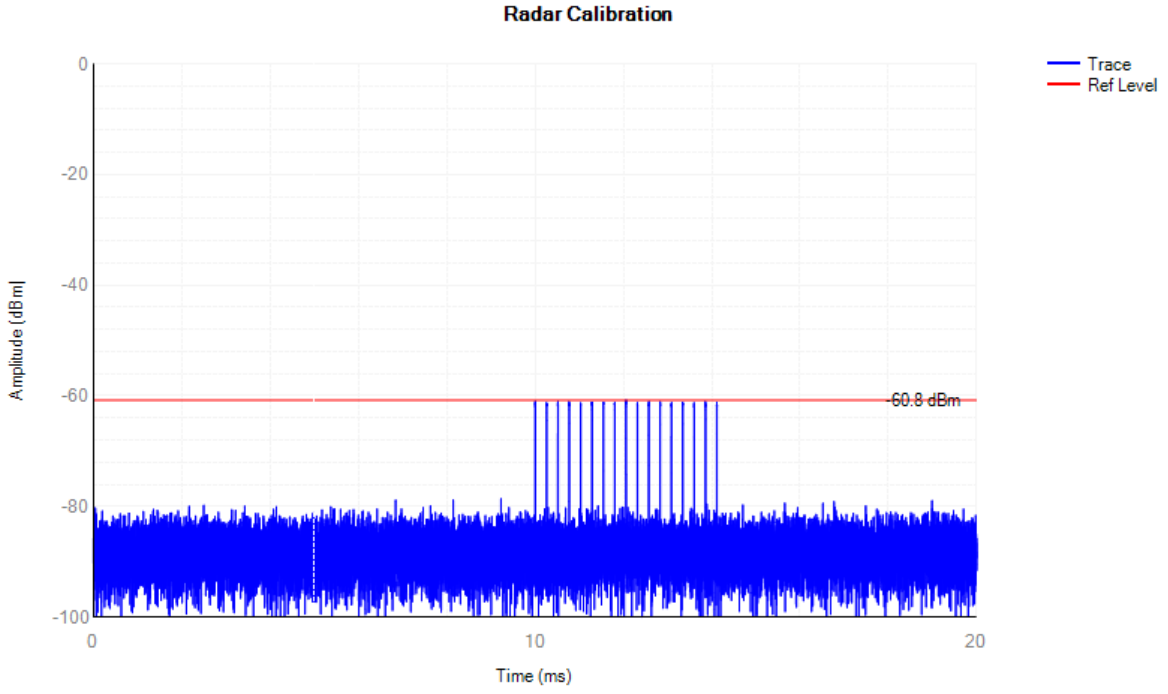

5290MHz DFS_FCC_Type1



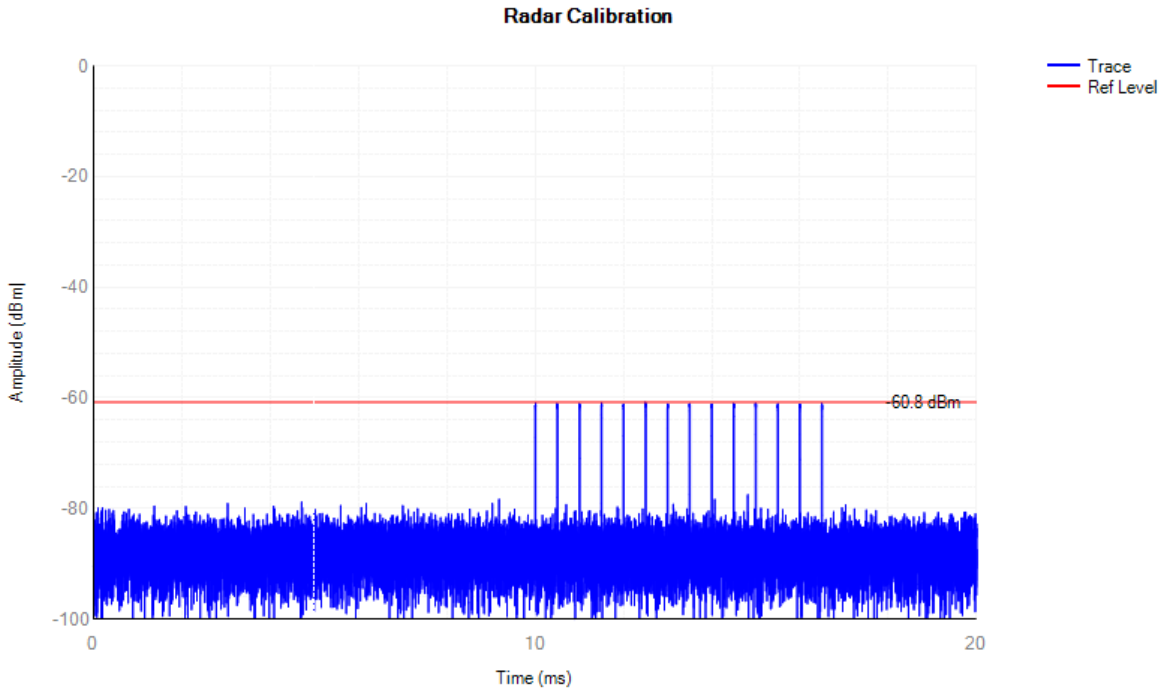
5290MHz DFS_FCC_Type2



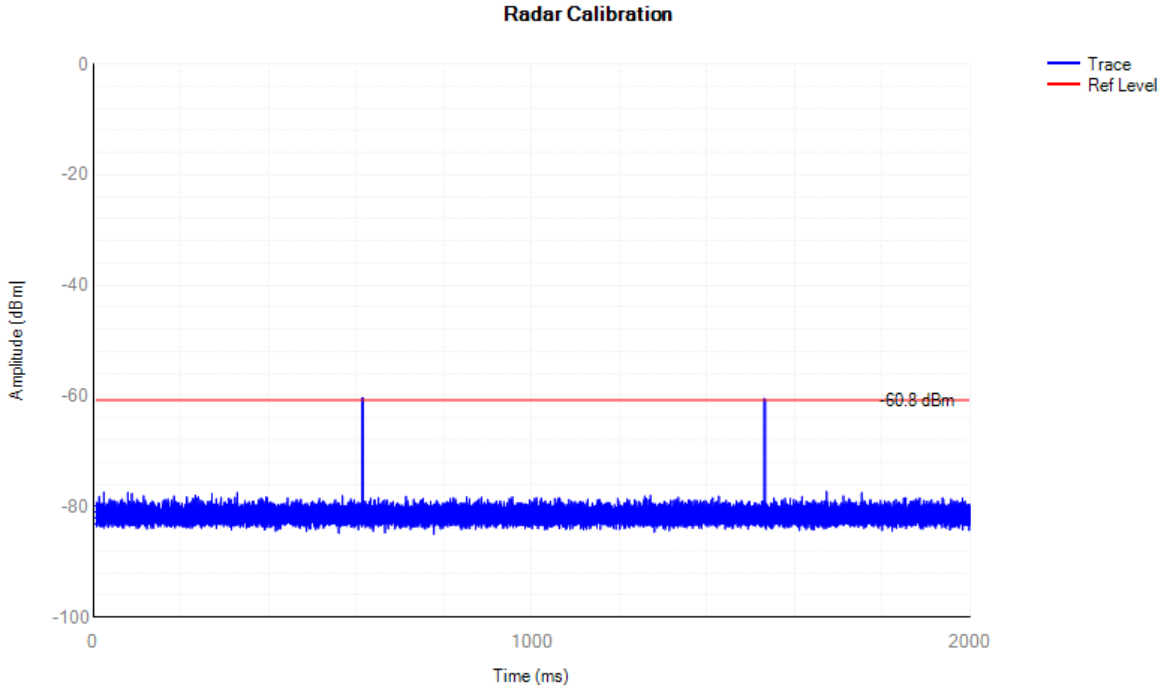

5290MHz DFS_FCC_Type3

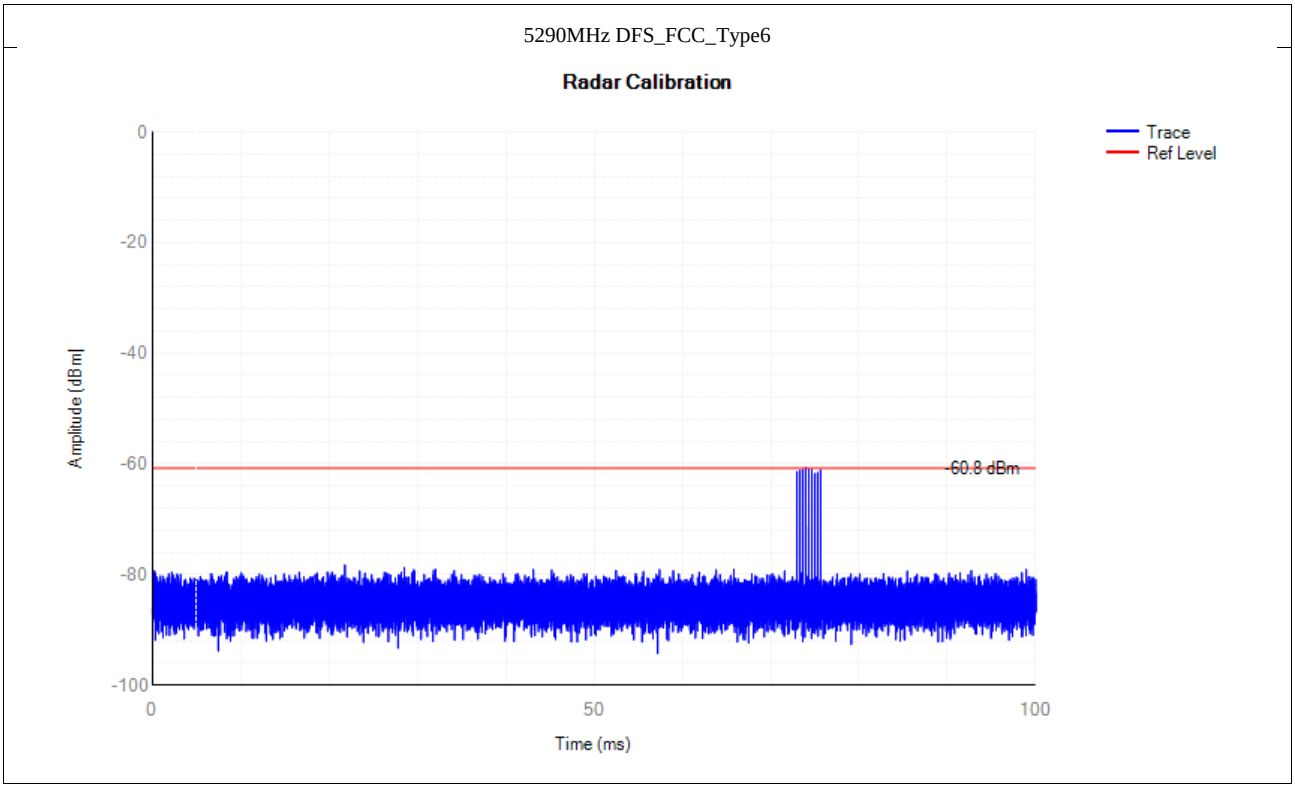


5290MHz DFS_FCC_Type4

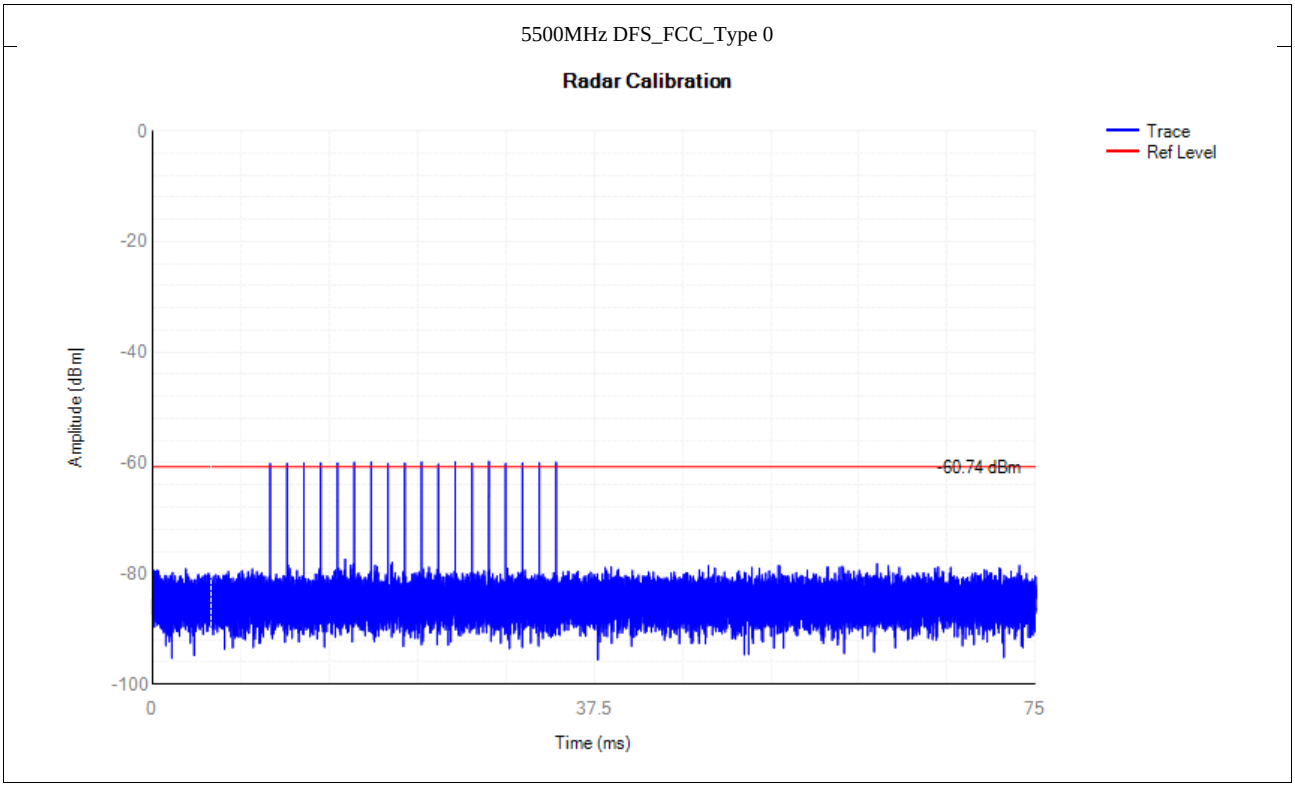



5290MHz DFS_FCC_Type5

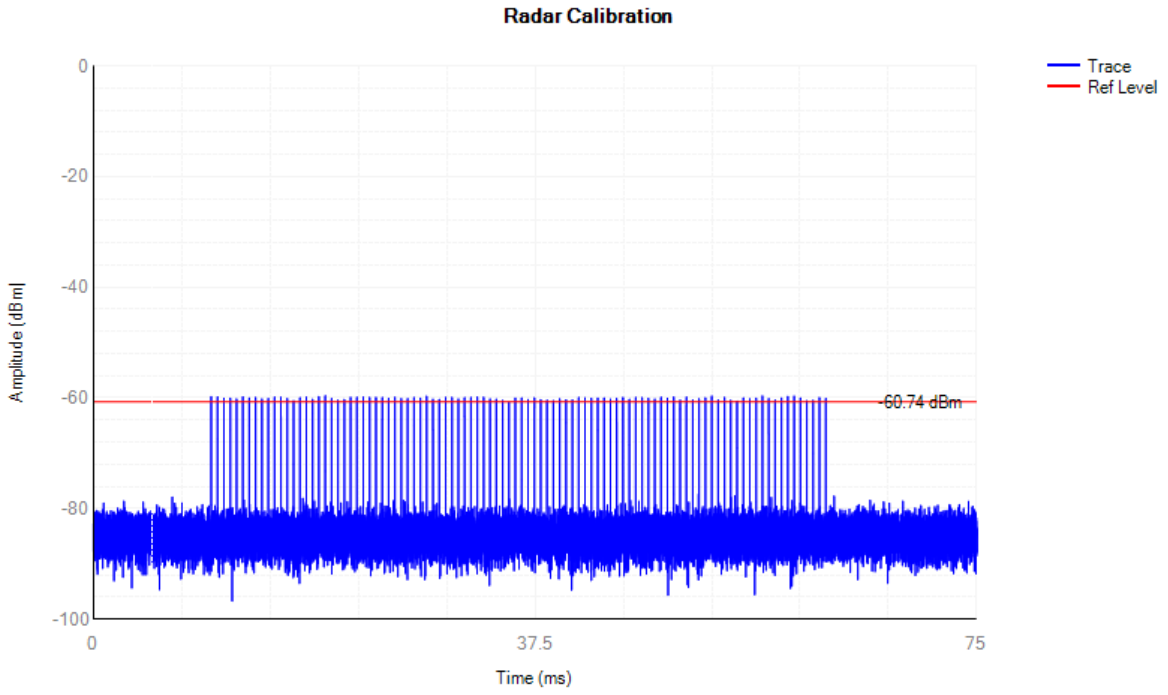



5290MHz DFS_FCC_Type6
Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-60.8 dBm
0
50
100
Time (ms)

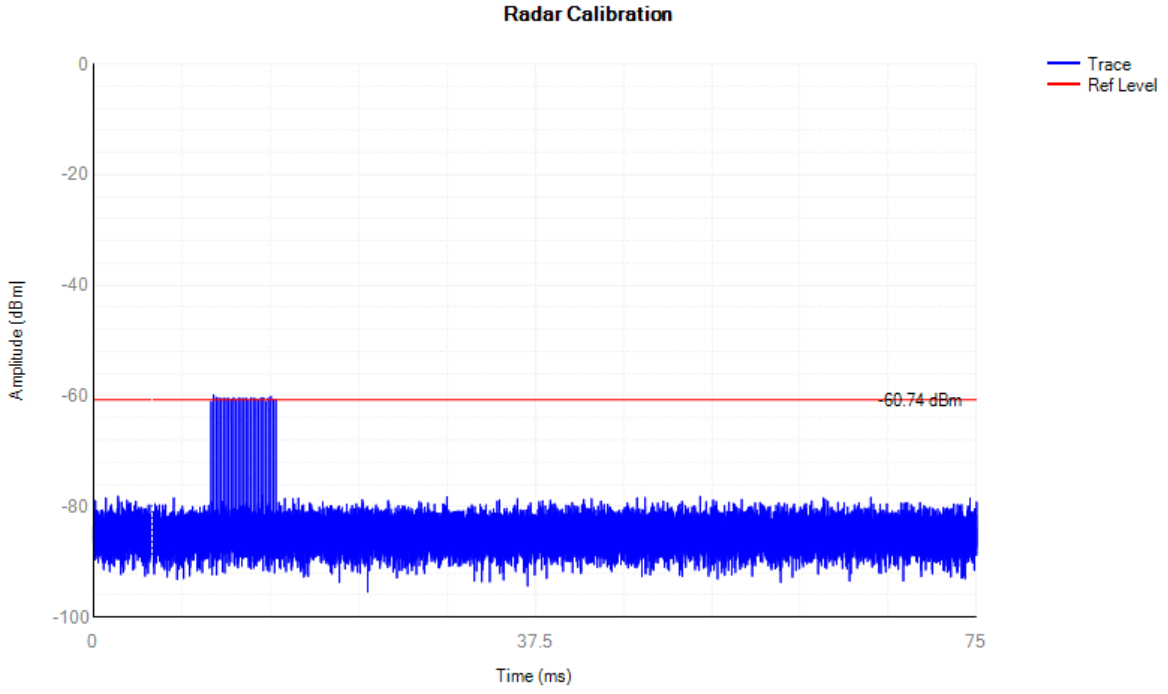
**5500MHz**


5500MHz DFS_FCC_Type 0
Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-60.74 dBm
0
37.5
75
Time (ms)

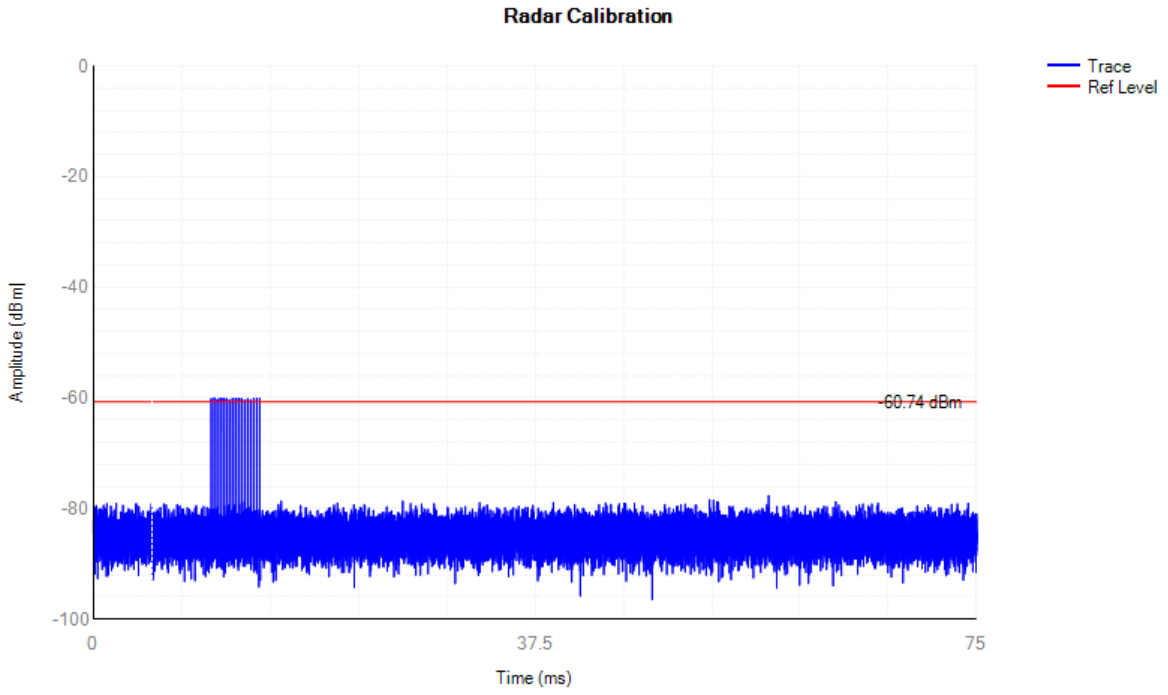
5500MHz DFS_FCC_Type1



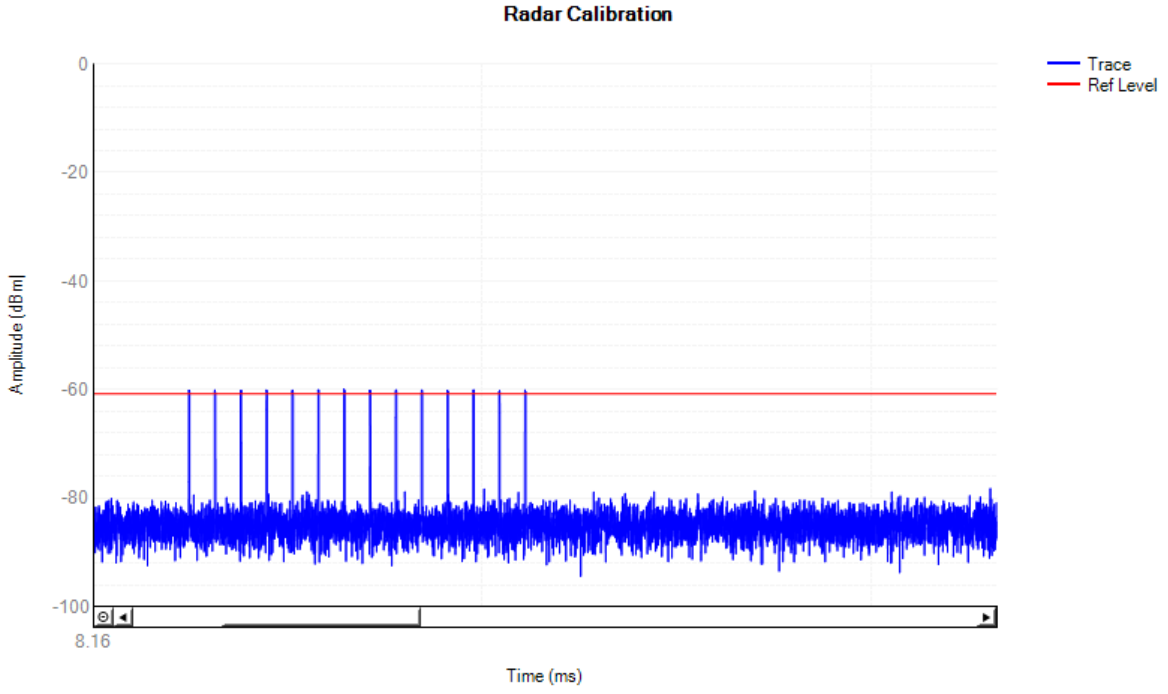

5500MHz DFS_FCC_Type2



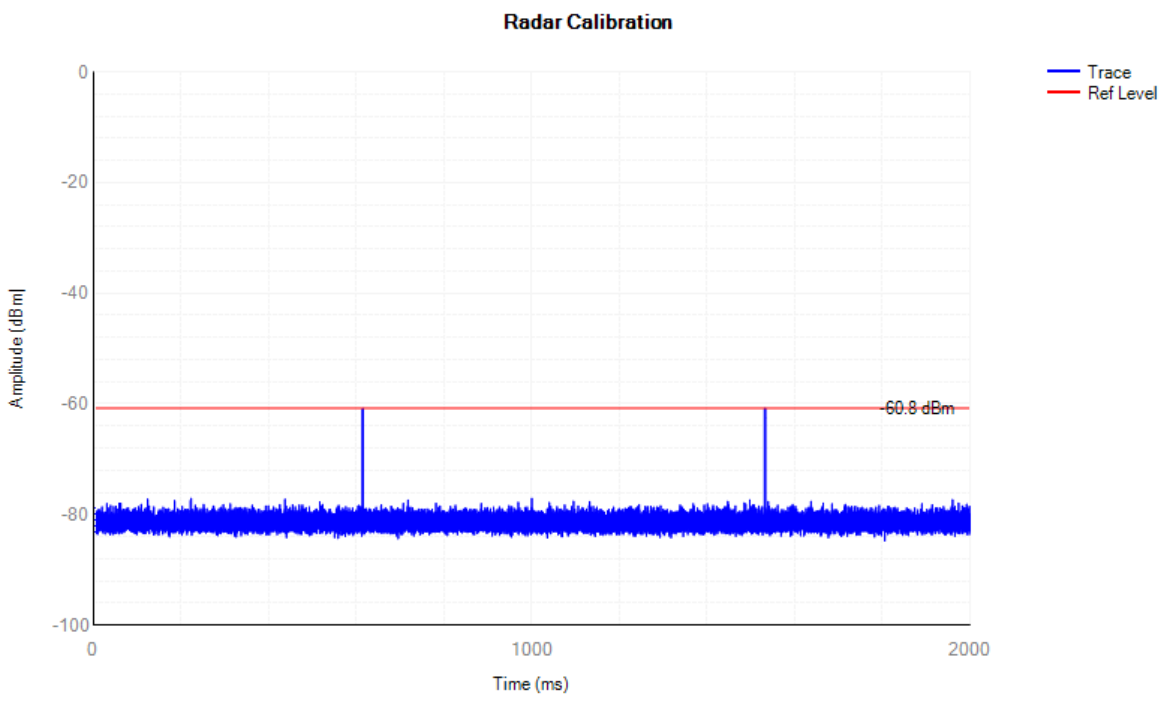
5500MHz DFS_FCC_Type3



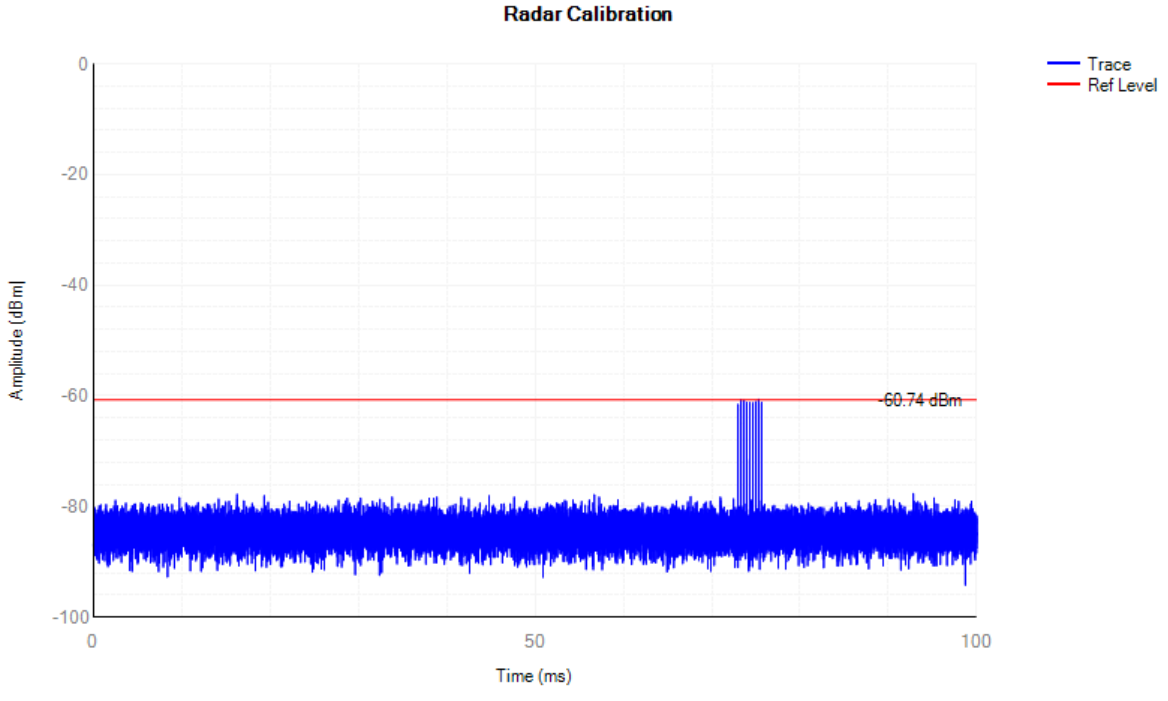

5500MHz DFS_FCC_Type4



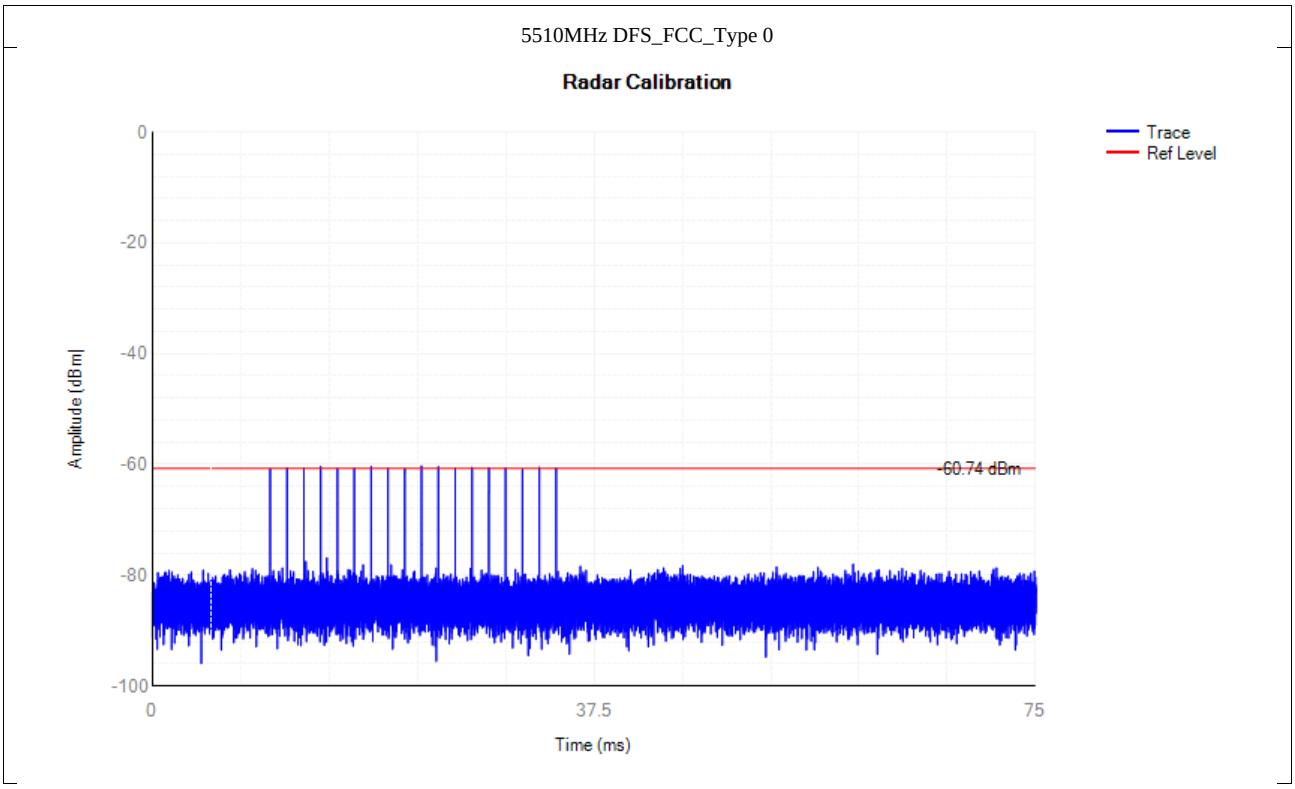
5500MHz DFS_FCC_Type5



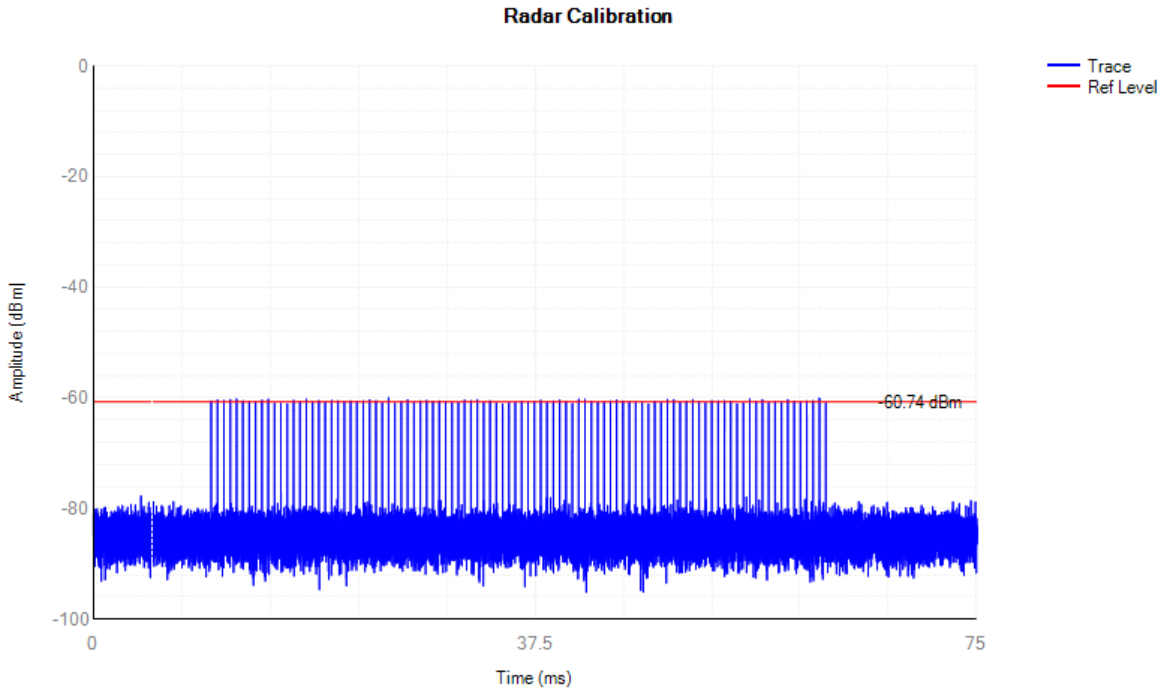

5500MHz DFS_FCC_Type6



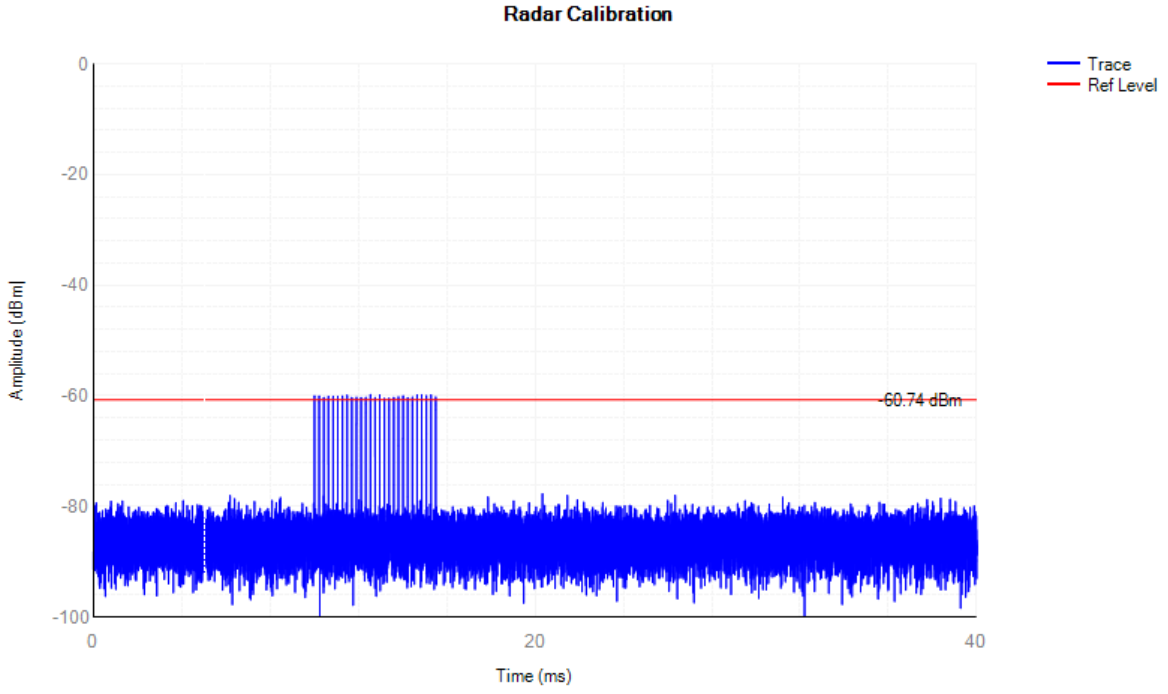
**5510MHz**


5510MHz DFS_FCC_Type 0
Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-60.74 dBm
0
37.5
75
Time (ms)

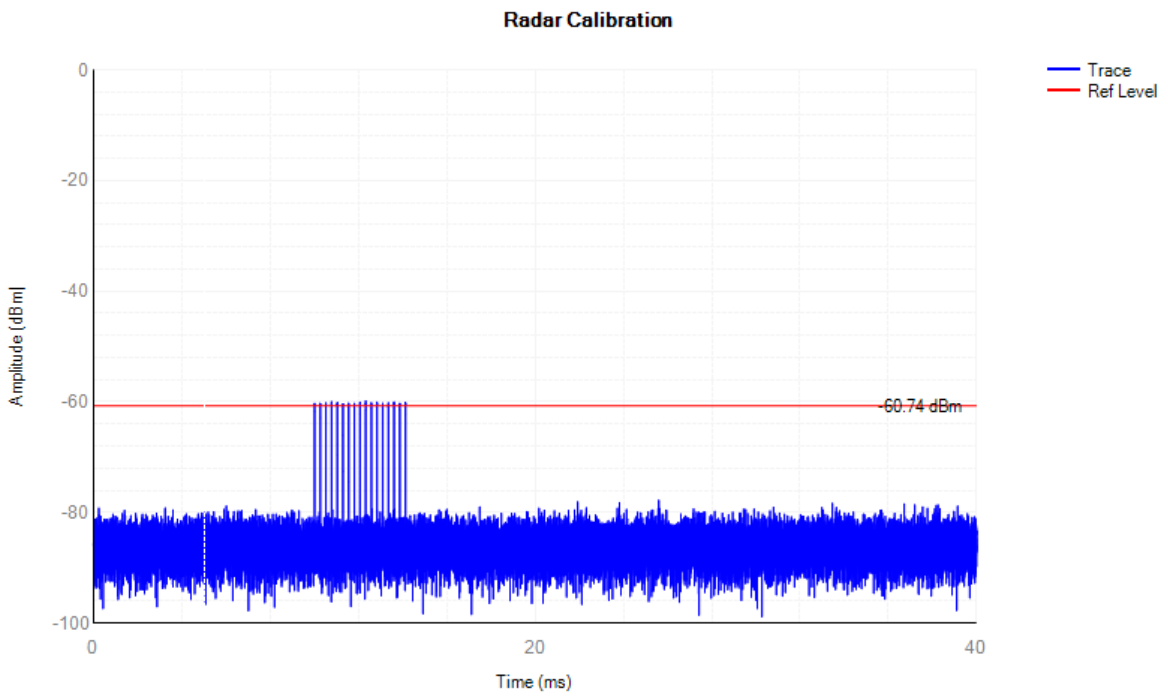
5510MHz DFS_FCC_Type1



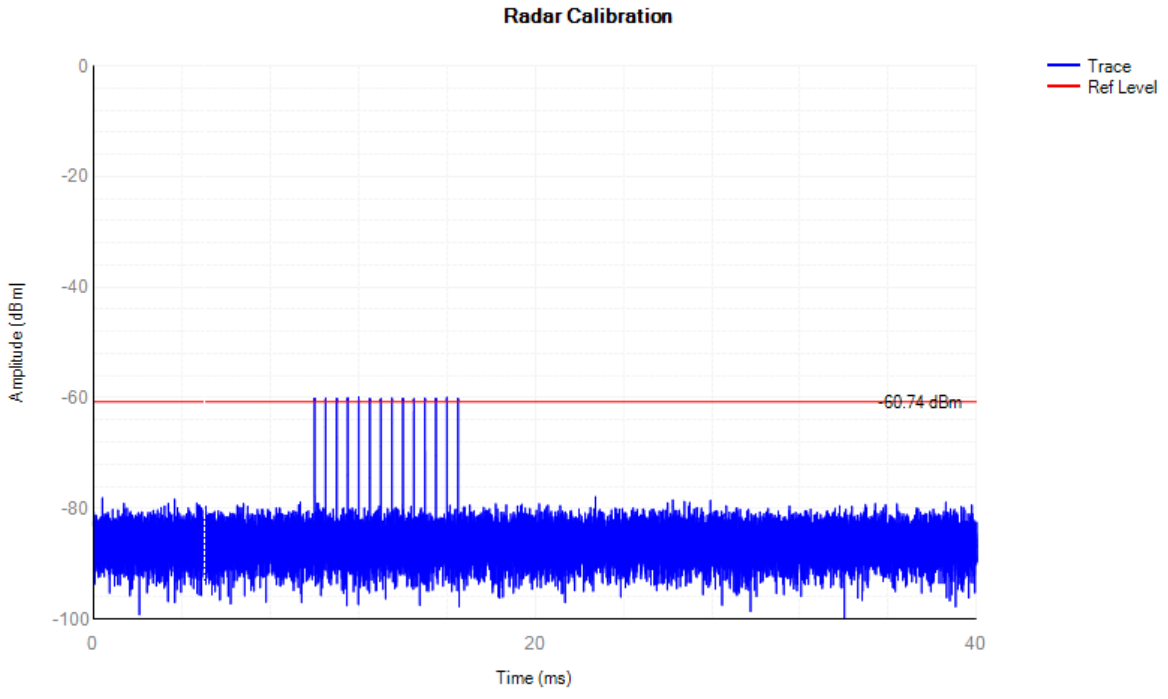

5510MHz DFS_FCC_Type2



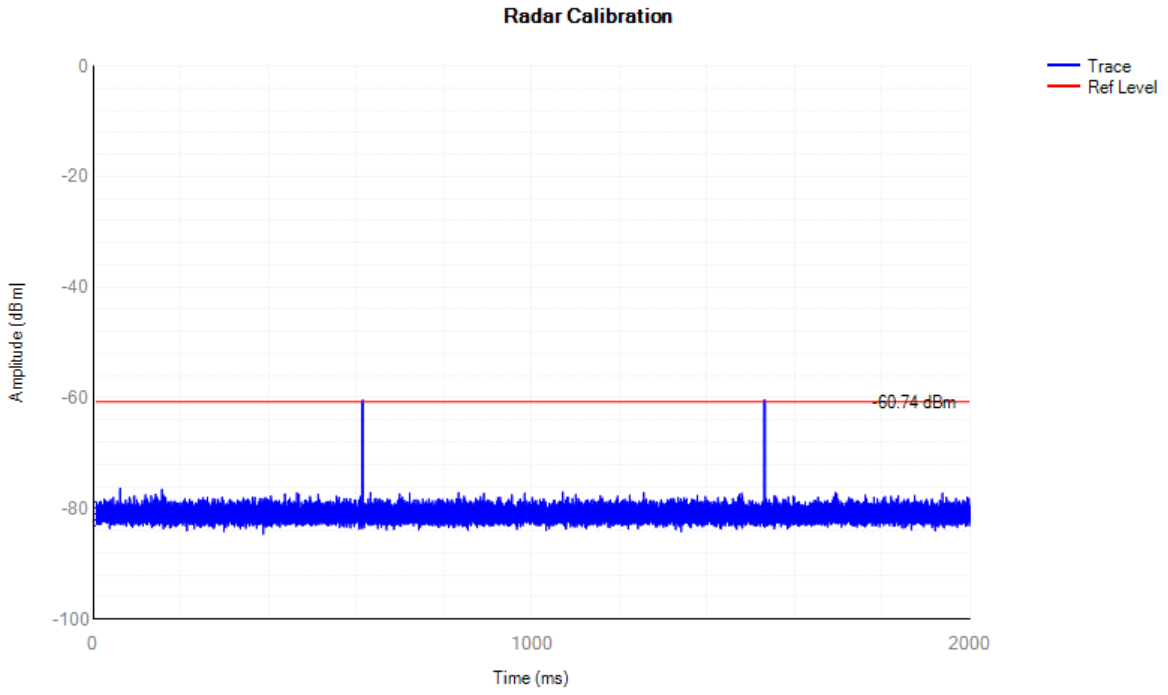
5510MHz DFS_FCC_Type3



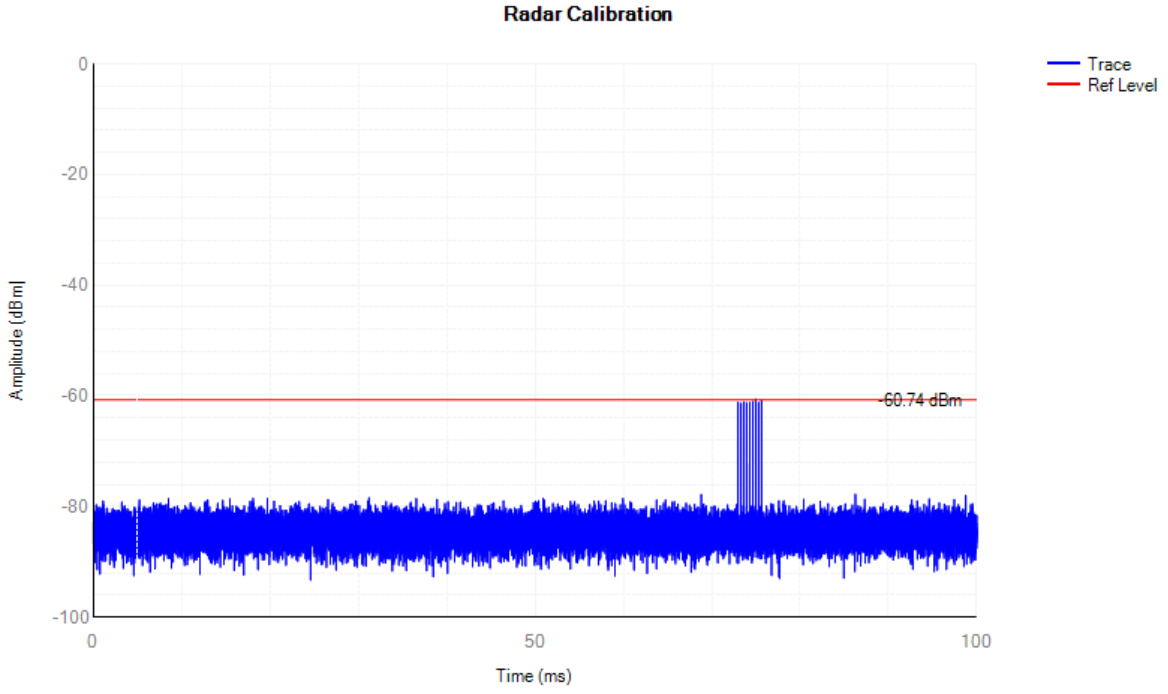

5510MHz DFS_FCC_Type4



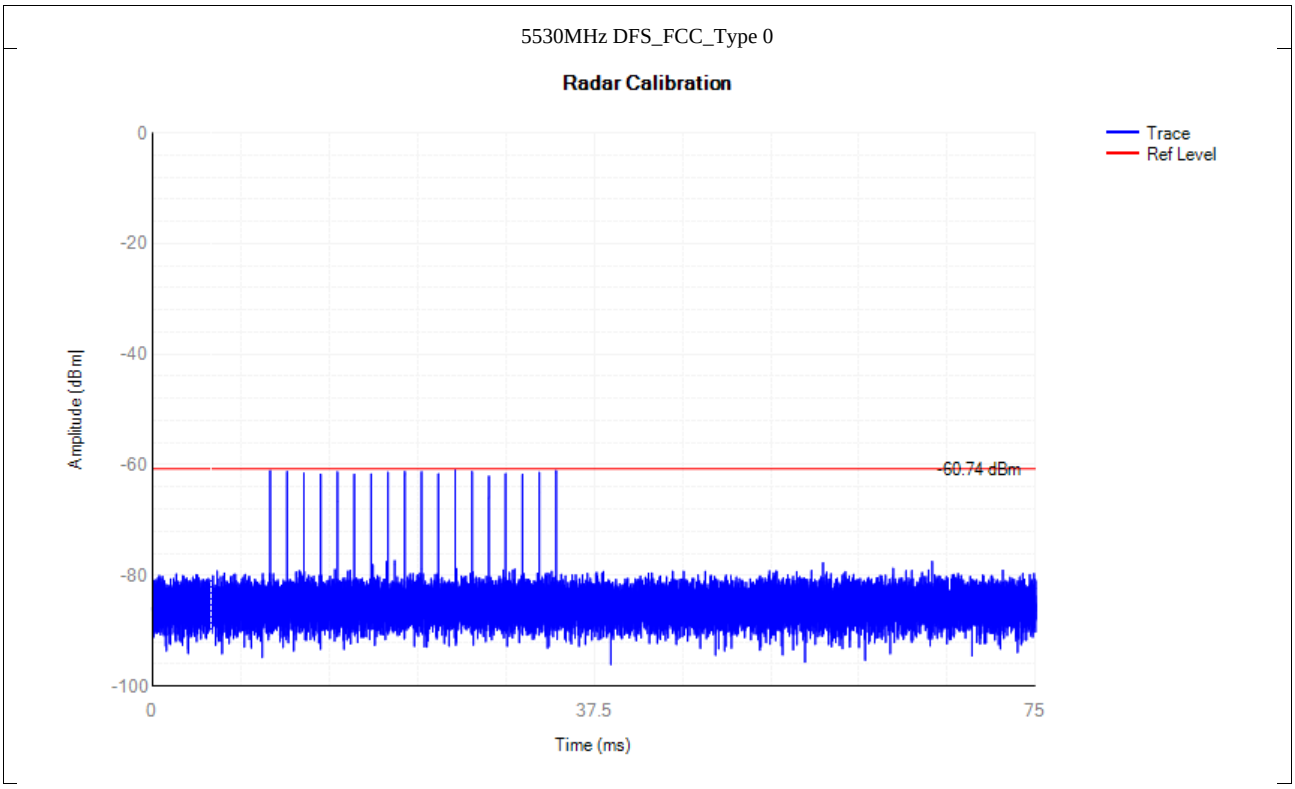
5510MHz DFS_FCC_Type5



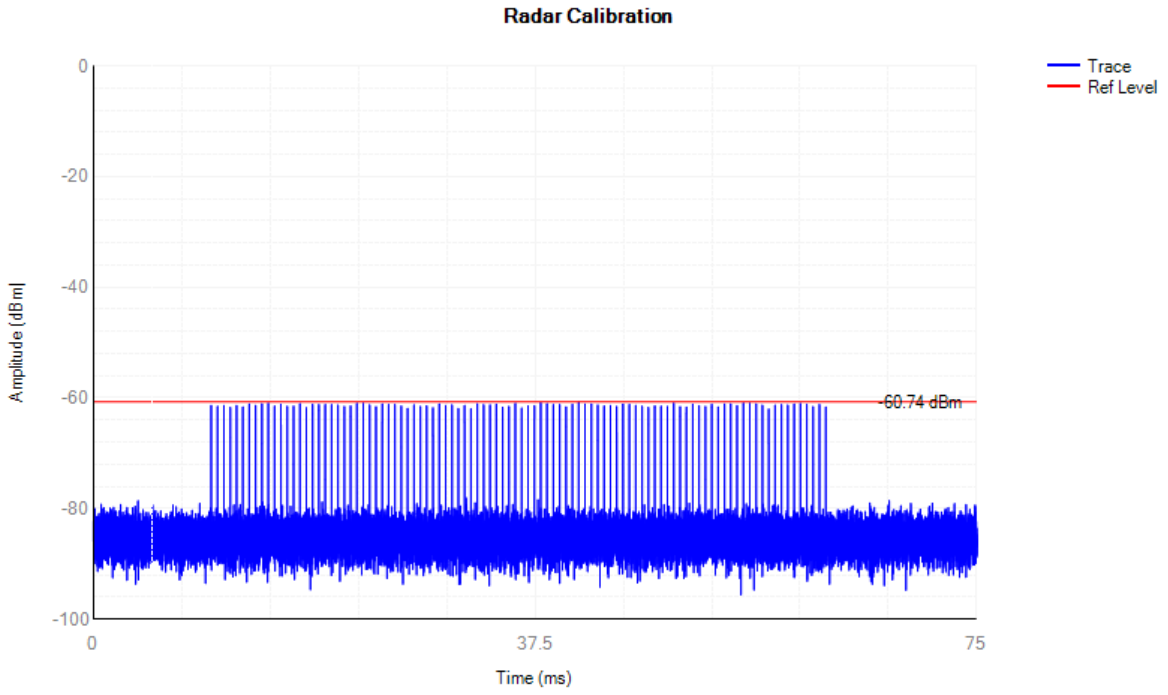

5510MHz DFS_FCC_Type6



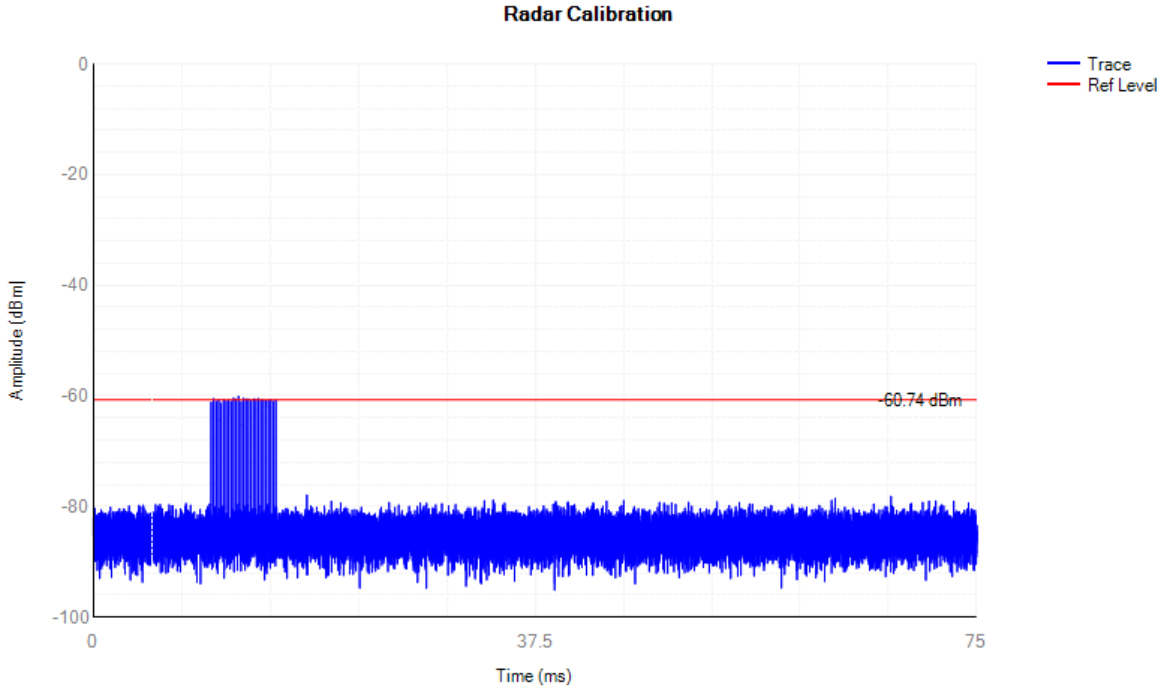
**5530MHz**


5530MHz DFS_FCC_Type 0
Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
60.74 dBm
0
37.5
75
Time (ms)

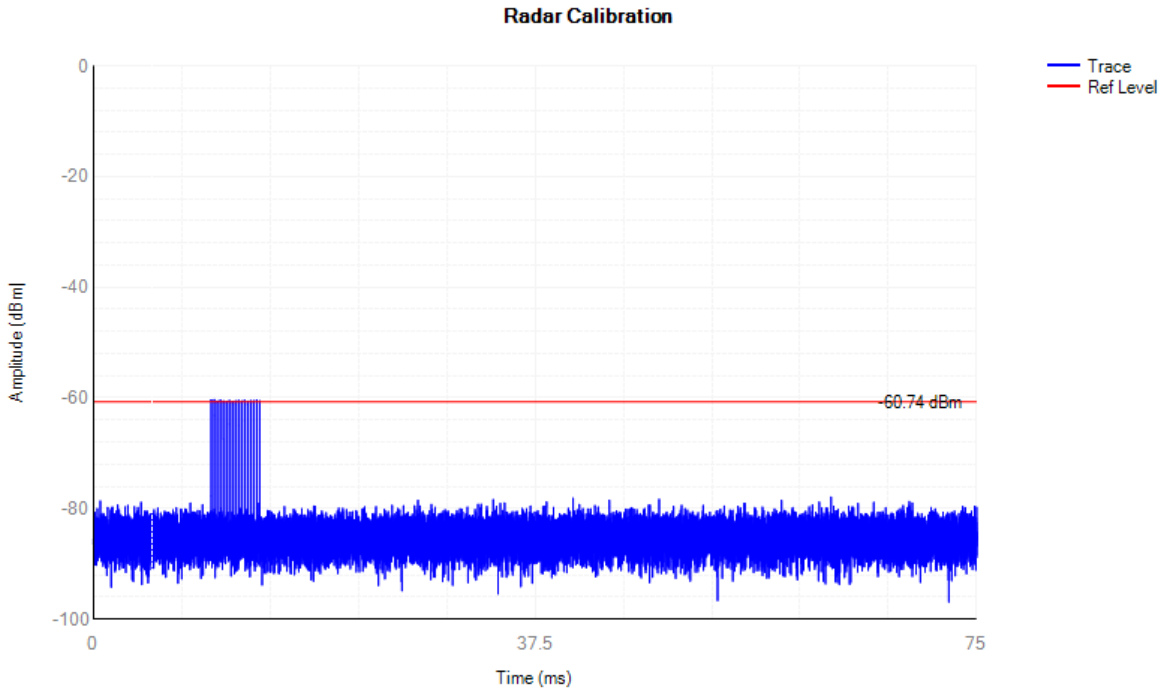
5530MHz DFS_FCC_Type1



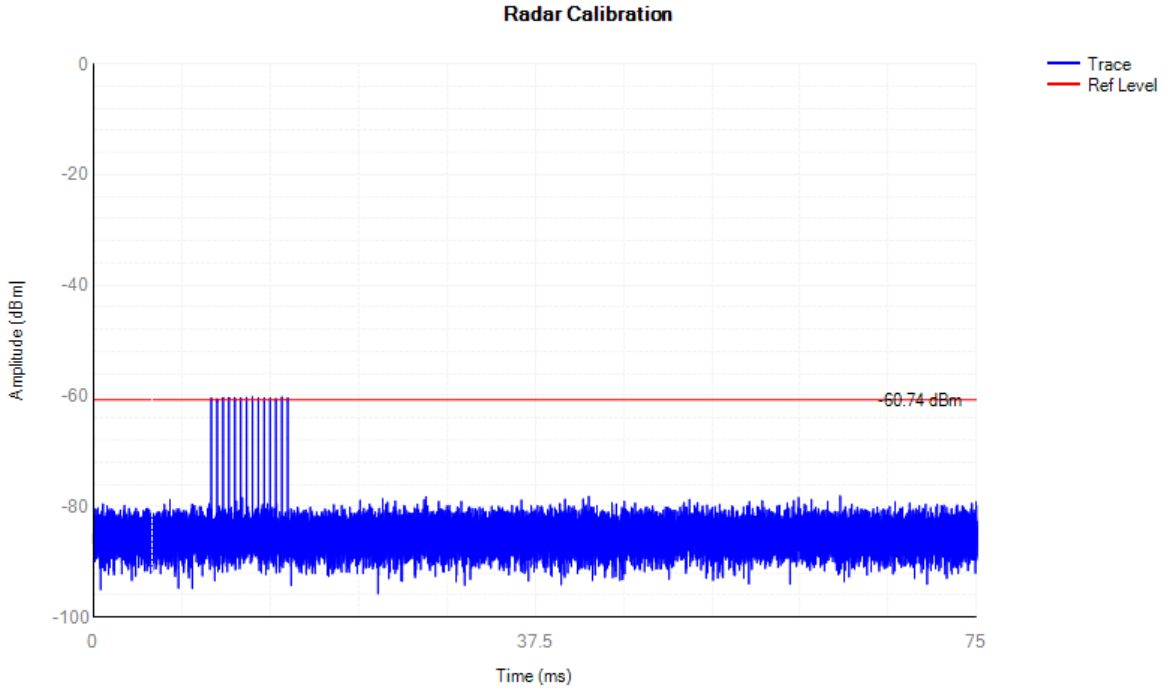

5530MHz DFS_FCC_Type2



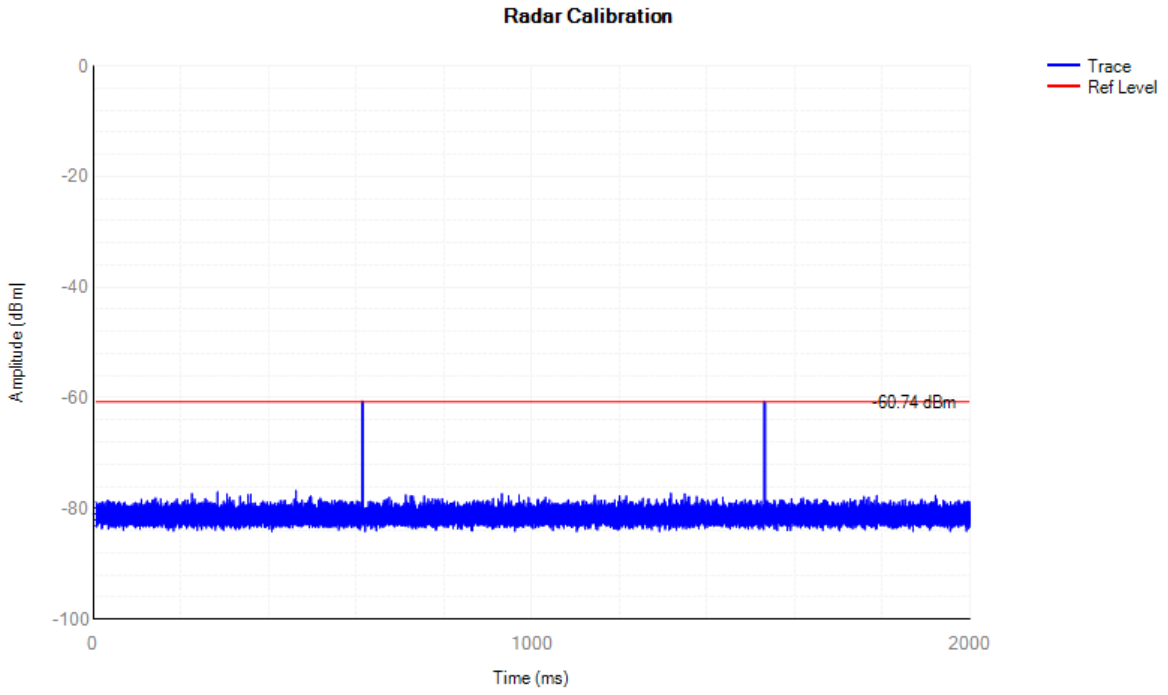
5530MHz DFS_FCC_Type3



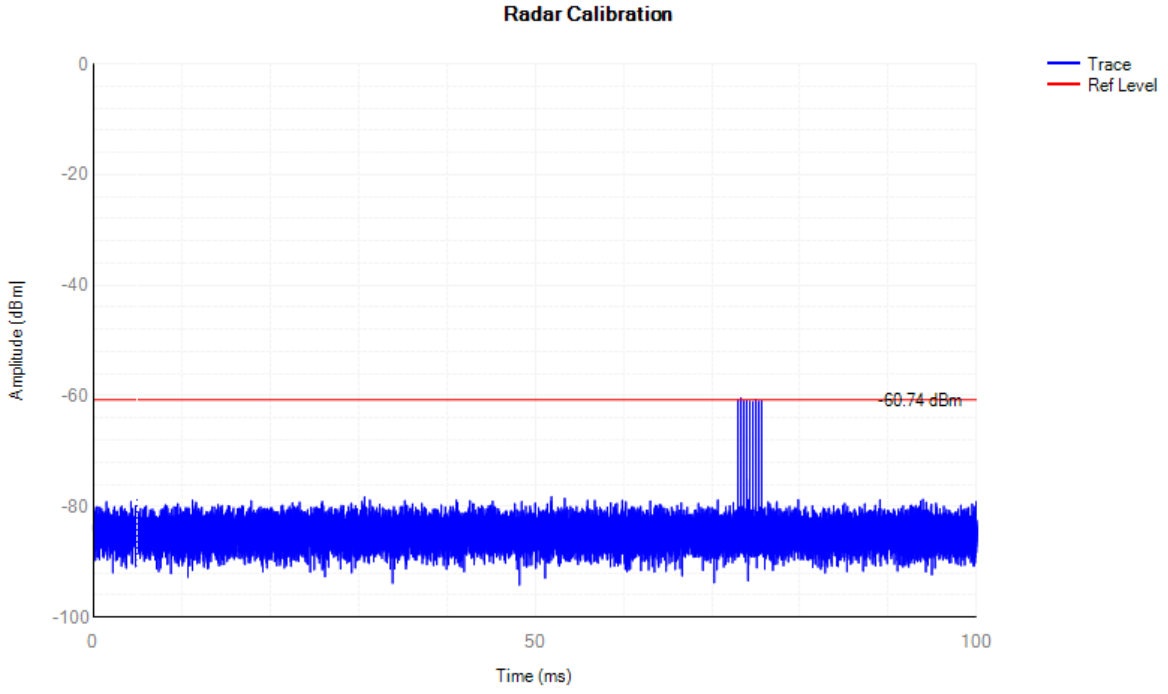

5530MHz DFS_FCC_Type4



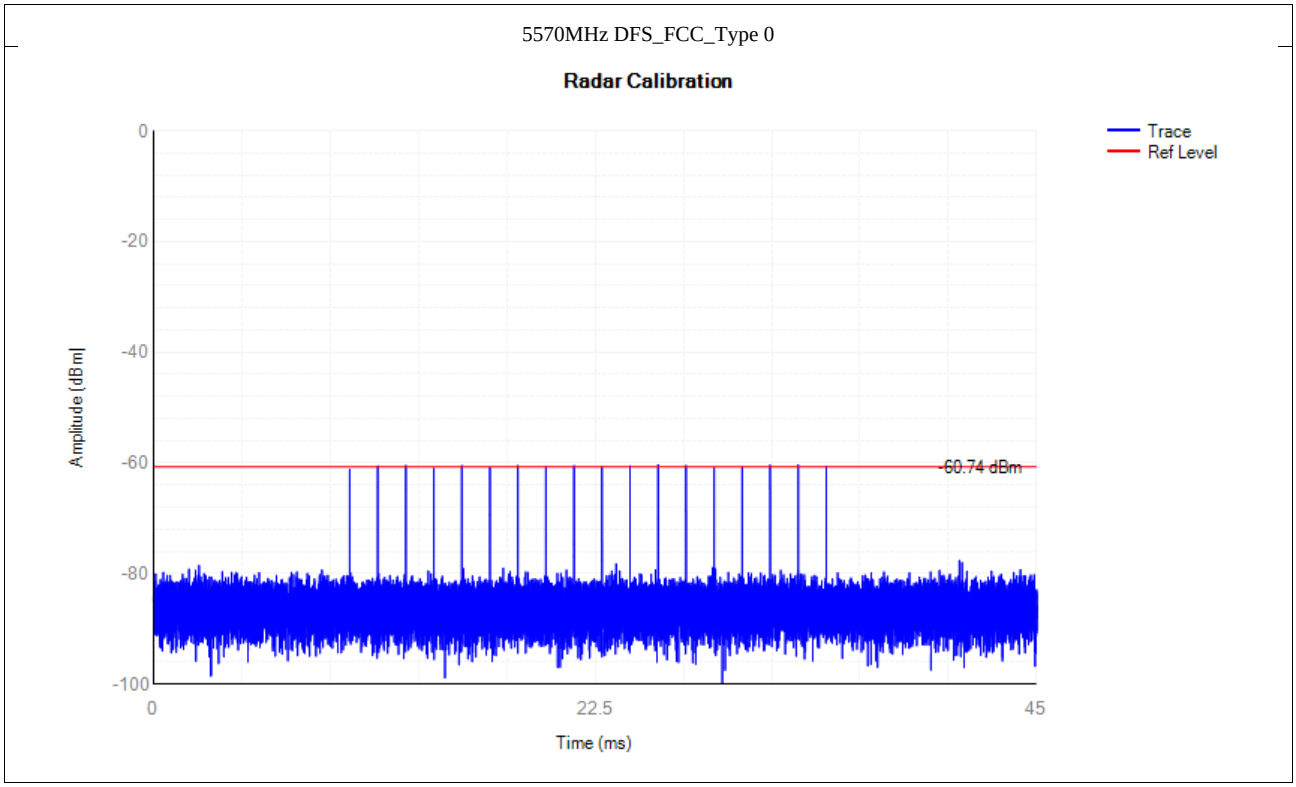
5530MHz DFS_FCC_Type5



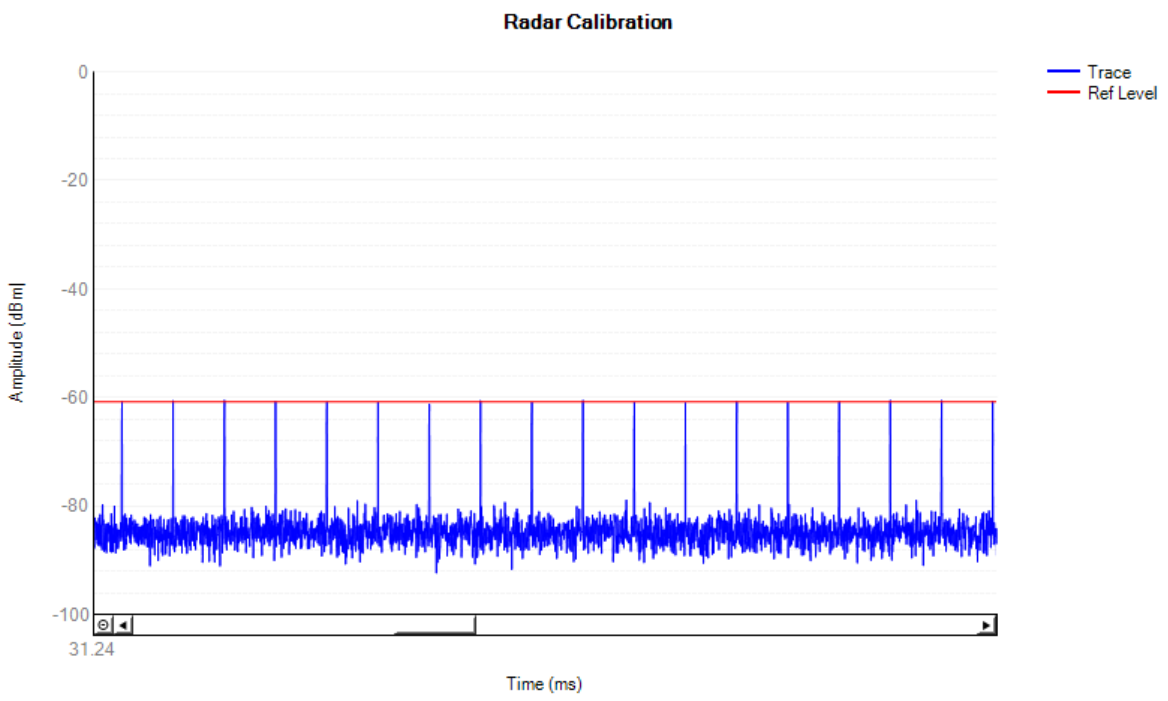

5530MHz DFS_FCC_Type6



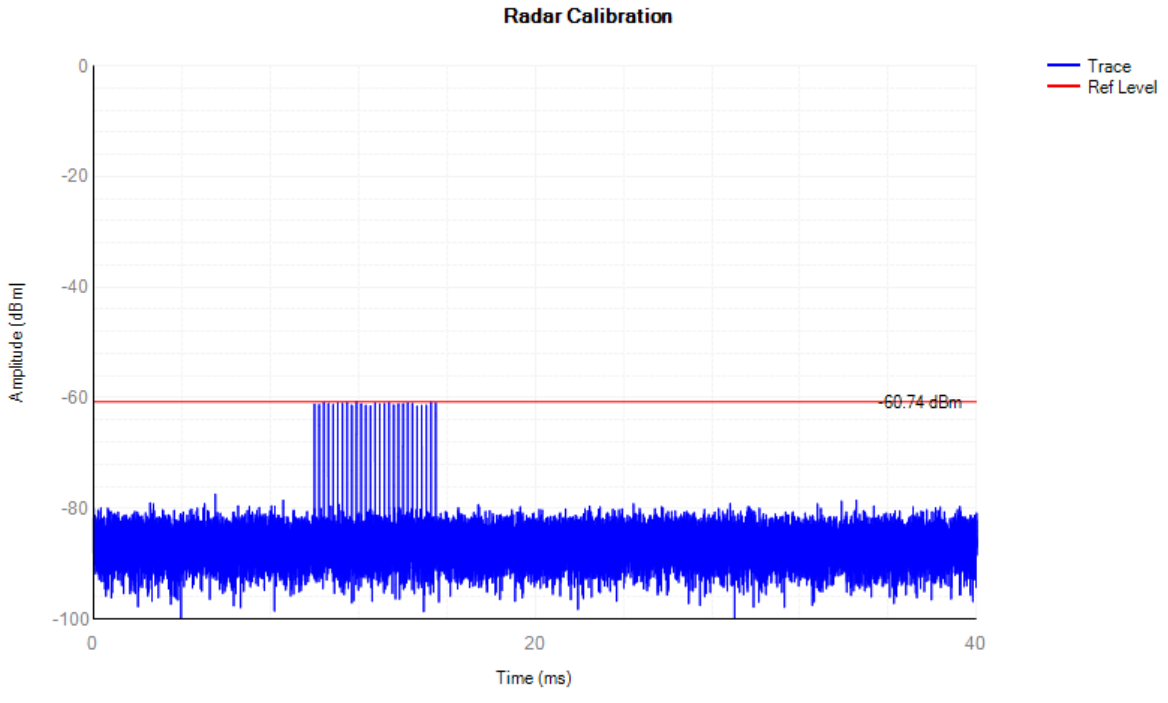
**5570MHz**


5570MHz DFS_FCC_Type 0
Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-60.74 dBm
0
22.5
45
Time (ms)

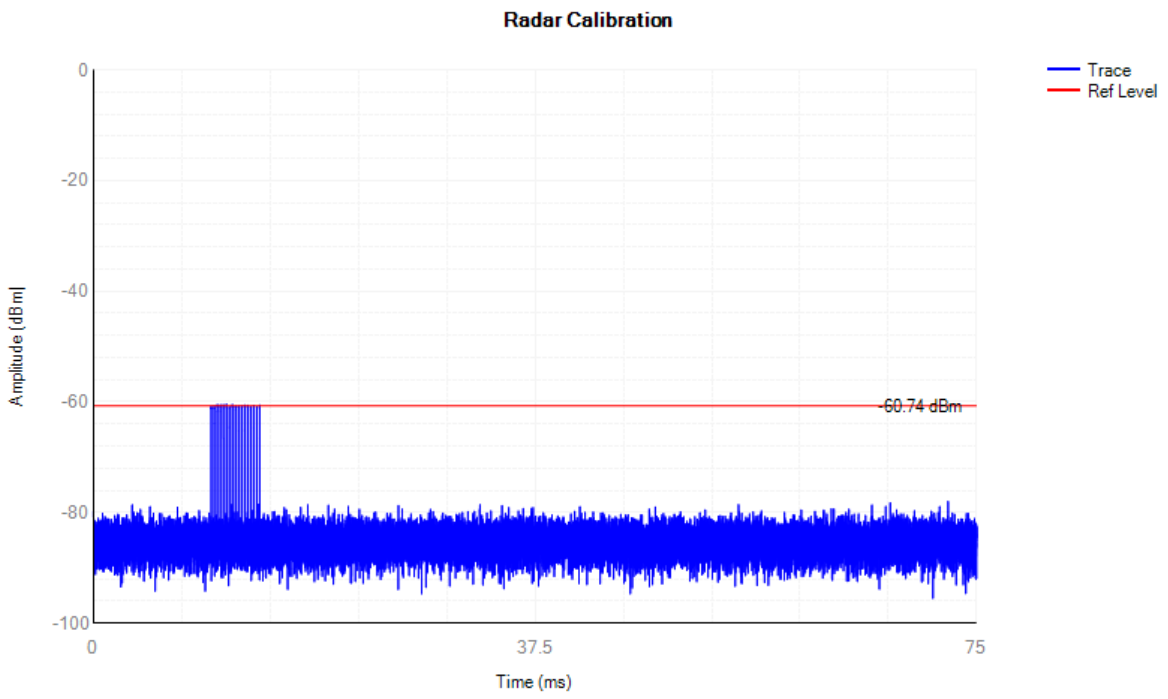
5570MHz DFS_FCC_Type1



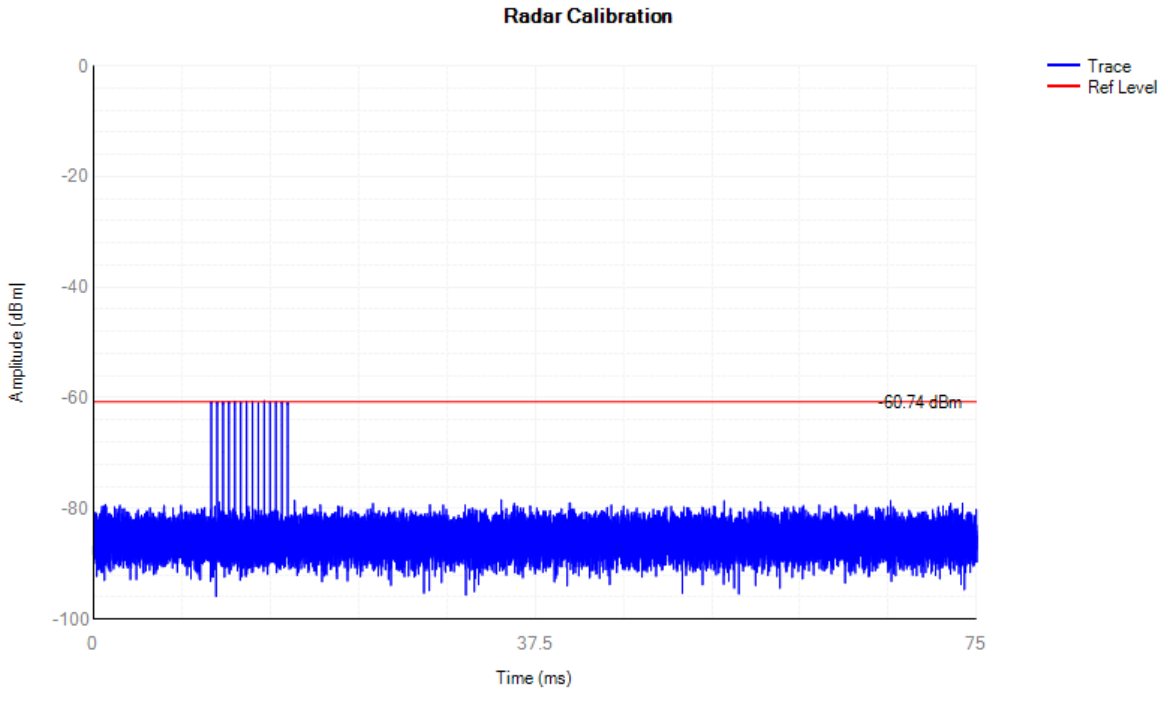

5570MHz DFS_FCC_Type2



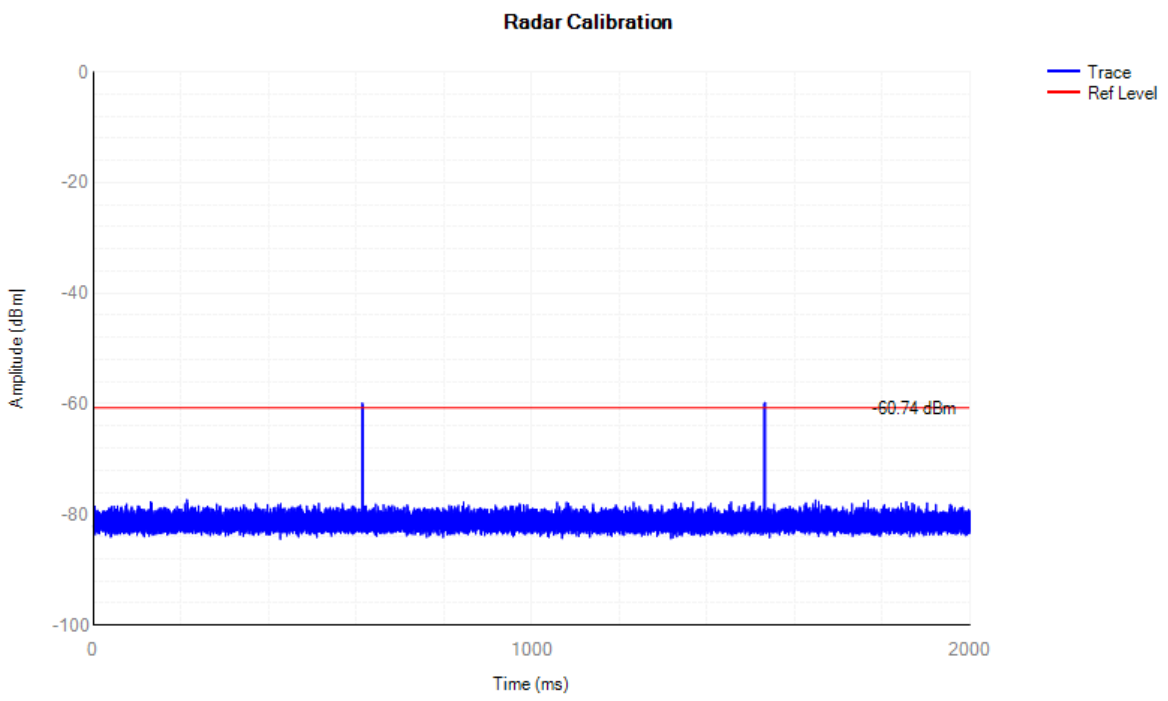
5570MHz DFS_FCC_Type3



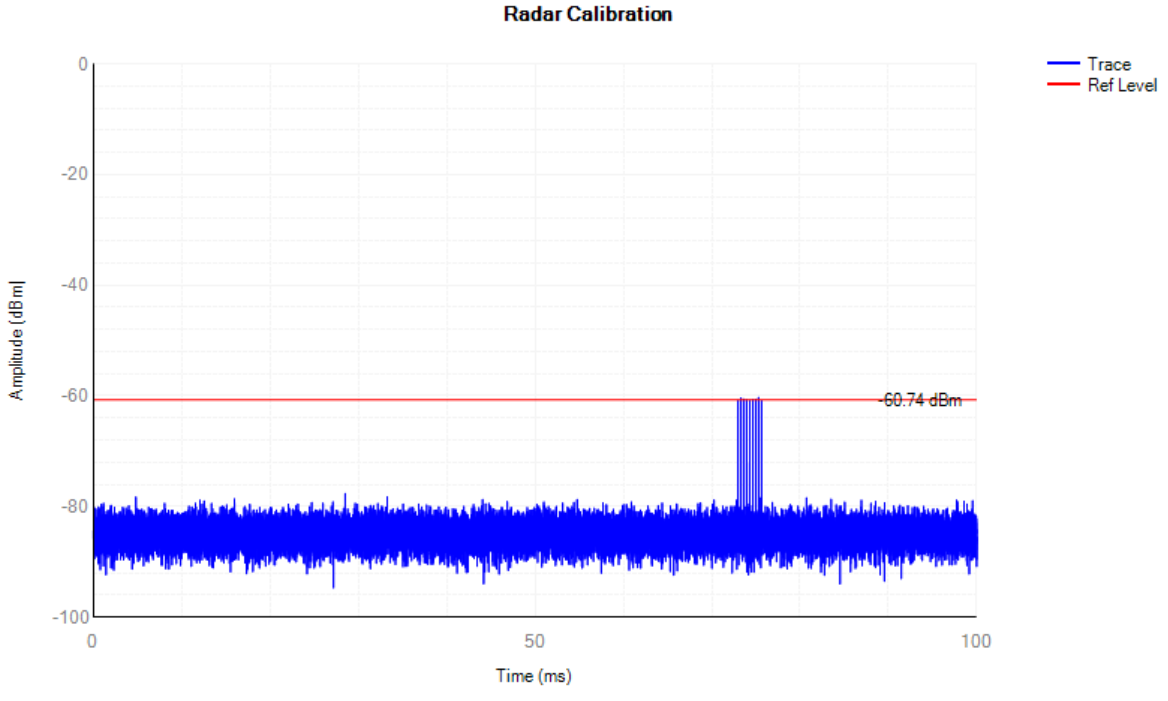

5570MHz DFS_FCC_Type4



5570MHz DFS_FCC_Type5




5570MHz DFS_FCC_Type6




**---------- The following blanks ----------**

Radar 0 Statical Performances

| Trial # | Number of Pulses per Burst | Pulse Width (μsec) | PRI (μs) |
|---|---|---|---|
| 1 | 18 | 1 | 1428 |

Radar 1 Statical Performances

| Trial # | Number of Pulses per Burst | Pulse Width (μsec) | PRI (μs) |
|---|---|---|---|
| 1 | 65 | 1 | 818 |
| 2 | 102 | 1 | 518 |
| 3 | 72 | 1 | 738 |
| 4 | 18 | 1 | 3066 |
| 5 | 92 | 1 | 578 |
| 6 | 58 | 1 | 918 |
| 7 | 68 | 1 | 778 |
| 8 | 76 | 1 | 698 |
| 9 | 58 | 1 | 918 |
| 10 | 81 | 1 | 658 |
| 11 | 95 | 1 | 558 |
| 12 | 76 | 1 | 698 |
| 13 | 65 | 1 | 818 |
| 14 | 68 | 1 | 778 |
| 15 | 89 | 1 | 598 |
| 16 | 89 | 1 | 598 |
| 17 | 78 | 1 | 678 |
| 18 | 72 | 1 | 738 |
| 19 | 65 | 1 | 818 |
| 20 | 74 | 1 | 718 |
| 21 | 81 | 1 | 658 |
| 22 | 81 | 1 | 658 |
| 23 | 65 | 1 | 818 |
| 24 | 59 | 1 | 898 |
| 25 | 63 | 1 | 838 |
| 26 | 62 | 1 | 858 |
| 27 | 57 | 1 | 938 |
| 28 | 58 | 1 | 918 |
| 29 | 63 | 1 | 838 |
| 30 | 63 | 1 | 838 |

Radar 2 Statical Performances

| Trial # | Number of Pulses per Burst | Pulse Width (μsec) | PRI (μs) |
|---|---|---|---|
| 1 | 25 | 1.3 | 170 |
| 2 | 24 | 1.8 | 171 |
| 3 | 27 | 2.5 | 152 |
| 4 | 25 | 2.6 | 203 |
| 5 | 28 | 3.8 | 210 |
| 6 | 26 | 2.6 | 195 |
| 7 | 26 | 1.4 | 202 |
| 8 | 29 | 2.8 | 214 |
| 9 | 28 | 2.3 | 189 |
| 10 | 28 | 2 | 200 |
| 11 | 24 | 4.2 | 226 |
| 12 | 25 | 3.6 | 229 |
| 13 | 27 | 4 | 172 |
| 14 | 25 | 2.4 | 201 |
| 15 | 27 | 1.8 | 159 |
| 16 | 23 | 4.7 | 222 |
| 17 | 26 | 4.9 | 197 |
| 18 | 25 | 4 | 211 |
| 19 | 29 | 3.3 | 212 |
| 20 | 24 | 2.4 | 206 |
| 21 | 25 | 4.6 | 229 |
| 22 | 25 | 3.4 | 189 |
| 23 | 29 | 2.9 | 153 |
| 24 | 24 | 4.8 | 174 |
| 25 | 24 | 2.1 | 207 |
| 26 | 27 | 2 | 213 |
| 27 | 25 | 4.9 | 153 |
| 28 | 23 | 2 | 230 |
| 29 | 24 | 4.9 | 156 |
| 30 | 26 | 3.4 | 170 |

Radar 3 Statical Performances

| Trial # | Number of Pulses per Burst | Pulse Width (μsec) | PRI (μs) |
|---|---|---|---|
| 1 | 17 | 7.9 | 472 |
| 2 | 17 | 7.8 | 491 |
| 3 | 18 | 6.3 | 457 |
| 4 | 18 | 6.8 | 429 |
| 5 | 18 | 6.1 | 420 |
| 6 | 17 | 9.8 | 210 |
| 7 | 18 | 7.8 | 322 |
| 8 | 17 | 9.7 | 464 |
| 9 | 18 | 6.2 | 497 |
| 10 | 16 | 9.1 | 203 |
| 11 | 17 | 10 | 265 |
| 12 | 17 | 8.3 | 467 |
| 13 | 16 | 7.5 | 370 |
| 14 | 17 | 9.2 | 264 |
| 15 | 17 | 9.8 | 483 |
| 16 | 17 | 7.1 | 257 |
| 17 | 17 | 6.5 | 479 |
| 18 | 16 | 8.4 | 225 |
| 19 | 18 | 8.4 | 335 |
| 20 | 17 | 9.6 | 332 |
| 21 | 16 | 8.3 | 385 |
| 22 | 18 | 6.2 | 361 |
| 23 | 18 | 8.6 | 289 |
| 24 | 17 | 9.8 | 261 |
| 25 | 17 | 6.9 | 317 |
| 26 | 18 | 9.8 | 356 |
| 27 | 17 | 8.8 | 373 |
| 28 | 17 | 9.9 | 481 |
| 29 | 16 | 9.7 | 200 |
| 30 | 16 | 8.7 | 460 |

Radar 4 Statical Performances

| Trial # | Number of Pulses per Burst | Pulse Width (μsec) | PRI (μs) |
|---|---|---|---|
| 1 | 14 | 16 | 412 |
| 2 | 15 | 17 | 315 |
| 3 | 13 | 16.3 | 444 |
| 4 | 14 | 16.9 | 344 |
| 5 | 15 | 13.5 | 373 |
| 6 | 12 | 14 | 217 |
| 7 | 12 | 13 | 486 |
| 8 | 14 | 12.6 | 425 |
| 9 | 13 | 15.1 | 416 |
| 10 | 12 | 11.5 | 488 |
| 11 | 14 | 12.1 | 300 |
| 12 | 15 | 17.5 | 434 |
| 13 | 15 | 11.5 | 368 |
| 14 | 15 | 16 | 222 |
| 15 | 16 | 12.4 | 407 |
| 16 | 14 | 17.5 | 329 |
| 17 | 13 | 18.3 | 392 |
| 18 | 13 | 16.1 | 464 |
| 19 | 14 | 12.5 | 276 |
| 20 | 16 | 16 | 287 |
| 21 | 13 | 11.1 | 228 |
| 22 | 13 | 20 | 419 |
| 23 | 15 | 11.7 | 266 |
| 24 | 13 | 18.6 | 419 |
| 25 | 13 | 11 | 239 |
| 26 | 13 | 12.4 | 490 |
| 27 | 16 | 15.6 | 213 |
| 28 | 15 | 13.9 | 415 |
| 29 | 13 | 13.9 | 481 |
| 30 | 15 | 16.9 | 301 |

Radar 5 Statical Performances(5500MHz)

| Trial Number : 1 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 12** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 93.6 | 16 | 1847 | 1350 | 618.231 |
| 2 | 2 | 84.2 | 16 | 1338 | | 68.31 |
| 3 | 3 | 75.9 | 16 | 1690 | 1973 | 639.15 |
| 4 | 2 | 91.6 | 16 | 1720 | | 980.6 |
| 5 | 3 | 96.9 | 16 | 1048 | 1685 | 298.69 |
| 6 | 2 | 90.6 | 16 | 1893 | | 226.04 |
| 7 | 2 | 60.1 | 16 | 1020 | | 862.36 |
| 8 | 2 | 67.2 | 16 | 1239 | | 651.55 |
| 9 | 2 | 59.1 | 16 | 1171 | | 859.75 |
| 10 | 2 | 94.3 | 16 | 1647 | | 13.25 |
| 11 | 1 | 87.5 | 16 | | | 401.6 |
| 12 | 2 | 98.9 | 16 | 1753 | | 845.5 |

| Trial Number : 2 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 19** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 74.1 | 18 | 1187 | 1405 | 249.631 |
| 2 | 2 | 69.3 | 18 | 1639 | | 418.411 |
| 3 | 2 | 53.1 | 18 | 1793 | | 314.492 |
| 4 | 1 | 95.9 | 18 | | | 225.313 |
| 5 | 1 | 78.2 | 18 | | | 62.294 |
| 6 | 2 | 91.8 | 18 | 1999 | | 494.655 |
| 7 | 1 | 92.2 | 18 | | | 160.016 |
| 8 | 2 | 58.5 | 18 | 1527 | | 231.397 |
| 9 | 3 | 64.9 | 18 | 1924 | 1018 | 441.748 |
| 10 | 3 | 83.9 | 18 | 1571 | 1639 | 294.549 |
| 11 | 1 | 63.1 | 18 | | | 386.191 |
| 12 | 2 | 90.7 | 18 | 1544 | | 56.352 |
| 13 | 2 | 87.1 | 18 | 1055 | | 86.003 |
| 14 | 3 | 97 | 18 | 1942 | 1225 | 87.254 |
| 15 | 1 | 94.3 | 18 | | | 398.315 |
| 16 | 1 | 89.2 | 18 | | | 515.726 |
| 17 | 1 | 64.8 | 18 | | | 580.937 |
| 18 | 2 | 67.1 | 18 | 1485 | | 304.758 |
| 19 | 2 | 88.2 | 18 | 1212 | | 94.179 |

| Trial Number : 3 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 14** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 97.6 | 19 | | | 692.765 |
| 2 | 2 | 95.1 | 19 | 1390 | | 106.502 |
| 3 | 1 | 52.7 | 19 | | | 529.344 |
| 4 | 3 | 67.7 | 19 | 1141 | 1221 | 508.721 |
| 5 | 2 | 97.7 | 19 | 1677 | | 462.179 |
| 6 | 2 | 87.3 | 19 | 1617 | | 483.886 |
| 7 | 2 | 99.7 | 19 | 1771 | | 399.373 |
| 8 | 1 | 82.8 | 19 | | | 699.02 |
| 9 | 1 | 80.4 | 19 | | | 415.507 |
| 10 | 2 | 70.7 | 19 | 1620 | | 197.354 |
| 11 | 2 | 76 | 19 | 1425 | | 728.031 |
| 12 | 2 | 62.5 | 19 | 1690 | | 149.749 |
| 13 | 3 | 53.9 | 19 | 1824 | 1104 | 673.086 |
| 14 | 2 | 78.3 | 19 | 1483 | | 267.943 |

| Trial Number : 4 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 15** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 54.6 | 11 | | | 427.995 |
| 2 | 2 | 74.8 | 11 | 1230 | | 712.91 |
| 3 | 2 | 51.7 | 11 | 1507 | | 751.14 |
| 4 | 1 | 73.1 | 11 | | | 21.69 |
| 5 | 3 | 70.3 | 11 | 1270 | 1181 | 669.52 |
| 6 | 2 | 82.3 | 11 | 1048 | | 73.51 |
| 7 | 2 | 52.1 | 11 | 1728 | | 210.74 |
| 8 | 2 | 86 | 11 | 1245 | | 370.44 |
| 9 | 3 | 84.6 | 11 | 1838 | 1195 | 214.03 |
| 10 | 2 | 90.8 | 11 | 1189 | | 564.28 |
| 11 | 2 | 54.9 | 11 | 1560 | | 360.36 |
| 12 | 2 | 71.1 | 11 | 1569 | | 372.87 |
| 13 | 2 | 94.2 | 11 | 1248 | | 228.77 |
| 14 | 2 | 77.6 | 11 | 1763 | | 317.4 |
| 15 | 2 | 61.7 | 11 | 1370 | | 274.4 |

| Trial Number : 5 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 9** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 91.6 | 15 | | | 693.623 |
| 2 | 3 | 62.4 | 15 | 1978 | 1641 | 1178.497 |
| 3 | 2 | 93.3 | 15 | 1567 | | 711.783 |
| 4 | 2 | 82.8 | 15 | 1362 | | 1126.17 |
| 5 | 1 | 84.2 | 15 | | | 89.487 |
| 6 | 2 | 55 | 15 | 1489 | | 250.723 |
| 7 | 2 | 83.4 | 15 | 1707 | | 934.27 |
| 8 | 1 | 78.8 | 15 | | | 1273.967 |
| 9 | 3 | 65.5 | 15 | 1596 | 1332 | 560.033 |

| Trial Number : 6 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 19** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 52.9 | 18 | 1594 | 1257 | 475.626 |
| 2 | 1 | 57.7 | 18 | | | 433.001 |
| 3 | 2 | 75.3 | 18 | 1324 | | 598.282 |
| 4 | 2 | 60.6 | 18 | 1417 | | 458.563 |
| 5 | 1 | 66.1 | 18 | | | 168.324 |
| 6 | 3 | 69.4 | 18 | 1695 | 1745 | 262.225 |
| 7 | 1 | 83.6 | 18 | | | 349.636 |
| 8 | 3 | 77.9 | 18 | 1164 | 1192 | 291.167 |
| 9 | 2 | 97.8 | 18 | 1371 | | 451.288 |
| 10 | 2 | 69.8 | 18 | 1046 | | 545.409 |
| 11 | 1 | 100 | 18 | | | 174.291 |
| 12 | 1 | 53.2 | 18 | | | 444.202 |
| 13 | 2 | 68.3 | 18 | 2000 | | 544.193 |
| 14 | 3 | 98.2 | 18 | 1913 | 1917 | 218.574 |
| 15 | 3 | 68.3 | 18 | 1584 | 1690 | 566.185 |
| 16 | 2 | 86.1 | 18 | 1521 | | 34.606 |
| 17 | 3 | 56.2 | 18 | 1339 | 1515 | 138.937 |
| 18 | 3 | 83.7 | 18 | 1803 | 1784 | 74.058 |
| 19 | 1 | 77.7 | 18 | | | 271.779 |

| Trial Number : 7 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 13** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 70.4 | 6 | 1871 | 1880 | 432.293 |
| 2 | 1 | 73.2 | 6 | | | 300.273 |
| 3 | 3 | 82 | 6 | 1957 | 1588 | 896.636 |
| 4 | 2 | 98.9 | 6 | 1842 | | 449.659 |
| 5 | 1 | 85.3 | 6 | | | 163.562 |
| 6 | 2 | 89.6 | 6 | 1307 | | 667.155 |
| 7 | 3 | 94.5 | 6 | 1373 | 1613 | 439.908 |
| 8 | 3 | 84.9 | 6 | 1109 | 1433 | 914.212 |
| 9 | 2 | 89.6 | 6 | 1272 | | 99.915 |
| 10 | 1 | 77.1 | 6 | | | 338.698 |
| 11 | 3 | 57.1 | 6 | 1171 | 1339 | 83.661 |
| 12 | 2 | 86.6 | 6 | 1148 | | 204.454 |
| 13 | 2 | 82.6 | 6 | 1837 | | 612.077 |

| Trial Number : 8 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 20** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 Spacing (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 81.3 | 20 | 1304 | | 114.157 |
| 2 | 3 | 71.4 | 20 | 1613 | 1197 | 170.909 |
| 3 | 2 | 64.9 | 20 | 1410 | | 185.48 |
| 4 | 2 | 51.7 | 20 | 1543 | | 468.54 |
| 5 | 3 | 85.1 | 20 | 1900 | 1361 | 549.71 |
| 6 | 2 | 60.2 | 20 | 1223 | | 373.85 |
| 7 | 3 | 64.7 | 20 | 1290 | 1585 | 228.32 |
| 8 | 2 | 74.1 | 20 | 1559 | | 400.12 |
| 9 | 2 | 58.5 | 20 | 1623 | | 312.47 |
| 10 | 2 | 63.9 | 20 | 1824 | | 392.7 |
| 11 | 2 | 62 | 20 | 1531 | | 490.88 |
| 12 | 2 | 95.8 | 20 | 1405 | | 511.67 |
| 13 | 3 | 60.2 | 20 | 1595 | 1505 | 420.69 |
| 14 | 2 | 83.1 | 20 | 1114 | | 150.65 |
| 15 | 2 | 55.6 | 20 | 1001 | | 387.64 |
| 16 | 3 | 77 | 20 | 1953 | 1919 | 479.57 |
| 17 | 2 | 94.8 | 20 | 1053 | | 9.7 |
| 18 | 2 | 93.9 | 20 | 1313 | | 194.6 |
| 19 | 3 | 91 | 20 | 1263 | 1081 | 591.5 |
| 20 | 2 | 99.5 | 20 | 1534 | | 327.8 |

| Trial Number : 9 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 19** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 78.7 | 9 | 1088 | | 104.957 |
| 2 | 2 | 84.4 | 9 | 1428 | | 178.596 |
| 3 | 3 | 65.9 | 9 | 1468 | 1793 | 332.952 |
| 4 | 3 | 59.6 | 9 | 1686 | 1484 | 121.883 |
| 5 | 2 | 99.5 | 9 | 1659 | | 306.804 |
| 6 | 2 | 77.7 | 9 | 1826 | | 139.755 |
| 7 | 2 | 73.9 | 9 | 1632 | | 569.436 |
| 8 | 3 | 79.2 | 9 | 1223 | 1462 | 524.157 |
| 9 | 2 | 87.4 | 9 | 1102 | | 601.698 |
| 10 | 2 | 53.9 | 9 | 1257 | | 208.049 |
| 11 | 3 | 68.4 | 9 | 1767 | 1476 | 273.191 |
| 12 | 2 | 86.1 | 9 | 1395 | | 202.672 |
| 13 | 1 | 60.9 | 9 | | | 14.453 |
| 14 | 3 | 74.9 | 9 | 1654 | 1642 | 561.524 |
| 15 | 2 | 74.1 | 9 | 1169 | | 122.475 |
| 16 | 3 | 59 | 9 | 1633 | 1603 | 146.356 |
| 17 | 2 | 78.8 | 9 | 1092 | | 427.637 |
| 18 | 2 | 85.1 | 9 | 1379 | | 522.758 |
| 19 | 1 | 96.3 | 9 | | | 337.379 |

| Trial Number : 10 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 17** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 85.9 | 13 | 1471 | 1765 | 428.302 |
| 2 | 1 | 72.7 | 13 | | | 509.188 |
| 3 | 2 | 73.5 | 13 | 1797 | | 579.005 |
| 4 | 3 | 64.4 | 13 | 1631 | 1485 | 308.803 |
| 5 | 3 | 79.6 | 13 | 1021 | 1534 | 58.021 |
| 6 | 3 | 66.7 | 13 | 1392 | 1413 | 150.378 |
| 7 | 2 | 54 | 13 | 1261 | | 371.176 |
| 8 | 3 | 76.9 | 13 | 1438 | 1070 | 175.254 |
| 9 | 2 | 69.7 | 13 | 1072 | | 140.141 |
| 10 | 2 | 53.8 | 13 | 1579 | | 218.969 |
| 11 | 2 | 95.2 | 13 | 2000 | | 456.416 |
| 12 | 2 | 87.1 | 13 | 1606 | | 692.184 |
| 13 | 2 | 91.4 | 13 | 1900 | | 227.752 |
| 14 | 2 | 67.2 | 13 | 1822 | | 220.709 |
| 15 | 2 | 97.2 | 13 | 1227 | | 71.747 |
| 16 | 2 | 60.7 | 13 | 1646 | | 110.265 |
| 17 | 3 | 57.8 | 13 | 1347 | 1271 | 42.982 |

| Trial Number : 11 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 16** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 79.4 | 19 | 1480 | | 489.968 |
| 2 | 1 | 74.9 | 19 | | | 598.89 |
| 3 | 2 | 79.1 | 19 | 1694 | | 105.79 |
| 4 | 2 | 57.9 | 19 | 1916 | | 704.72 |
| 5 | 2 | 90.3 | 19 | 1797 | | 46.44 |
| 6 | 2 | 97.4 | 19 | 1943 | | 532.32 |
| 7 | 1 | 76.6 | 19 | | | 644.09 |
| 8 | 3 | 57.1 | 19 | 1732 | 1768 | 561.64 |
| 9 | 3 | 97.2 | 19 | 1787 | 1784 | 104.68 |
| 10 | 1 | 80 | 19 | | | 340.07 |
| 11 | 3 | 50.1 | 19 | 1357 | 1626 | 324.43 |
| 12 | 1 | 83 | 19 | | | 672.03 |
| 13 | 3 | 91.5 | 19 | 1752 | 1549 | 659.72 |
| 14 | 3 | 87 | 19 | 1364 | 1987 | 299.8 |
| 15 | 1 | 73.8 | 19 | | | 124.3 |
| 16 | 2 | 62.1 | 19 | 1903 | | 17.2 |

| Trial Number : 12 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 16** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 79 | 10 | | | 195.998 |
| 2 | 2 | 53.1 | 10 | 1384 | | 450.33 |
| 3 | 3 | 77.8 | 10 | 1316 | 1424 | 341.76 |
| 4 | 3 | 69.3 | 10 | 1179 | 1693 | 708.72 |
| 5 | 2 | 84.2 | 10 | 1183 | | 538.9 |
| 6 | 2 | 70.5 | 10 | 1241 | | 97.71 |
| 7 | 3 | 78.8 | 10 | 1959 | 1050 | 4.88 |
| 8 | 1 | 82.5 | 10 | | | 183.31 |
| 9 | 3 | 91.2 | 10 | 1350 | 1829 | 486.34 |
| 10 | 2 | 65.5 | 10 | 1697 | | 425.35 |
| 11 | 3 | 84.9 | 10 | 1975 | 1913 | 702.58 |
| 12 | 2 | 94.3 | 10 | 1588 | | 203.23 |
| 13 | 2 | 90.3 | 10 | 1762 | | 219.51 |
| 14 | 2 | 74.4 | 10 | 1197 | | 740.3 |
| 15 | 2 | 56.3 | 10 | 1005 | | 439 |
| 16 | 2 | 94.1 | 10 | 1807 | | 374.8 |

| Trial Number : 13 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 12** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 78.9 | 17 | 1929 | | 442.93 |
| 2 | 2 | 70.3 | 17 | 1330 | | 786.67 |
| 3 | 2 | 74.4 | 17 | 1654 | | 213.51 |
| 4 | 2 | 94.1 | 17 | 1452 | | 644.49 |
| 5 | 2 | 99.8 | 17 | 1482 | | 703.45 |
| 6 | 2 | 94.7 | 17 | 1654 | | 663.56 |
| 7 | 3 | 80.4 | 17 | 1476 | 1661 | 804.91 |
| 8 | 1 | 54.4 | 17 | | | 507.3 |
| 9 | 2 | 52.2 | 17 | 1277 | | 25.92 |
| 10 | 3 | 66.3 | 17 | 1704 | 1743 | 761.02 |
| 11 | 2 | 70.3 | 17 | 1059 | | 168.8 |
| 12 | 3 | 63.6 | 17 | 1560 | 1739 | 388.5 |

| Trial Number : 14 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 10** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 71.3 | 20 | 1785 | 1212 | 1029.59 |
| 2 | 3 | 91.2 | 20 | 1240 | 1775 | 320.72 |
| 3 | 2 | 92.2 | 20 | 1965 | | 773.72 |
| 4 | 2 | 87.3 | 20 | 1680 | | 220.79 |
| 5 | 2 | 85.2 | 20 | 1609 | | 830.69 |
| 6 | 3 | 69.2 | 20 | 1112 | 1812 | 165.45 |
| 7 | 2 | 73.3 | 20 | 1611 | | 1044.95 |
| 8 | 1 | 73.8 | 20 | | | 292.87 |
| 9 | 3 | 91.2 | 20 | 1249 | 1379 | 653.6 |
| 10 | 3 | 56.5 | 20 | 1504 | 1075 | 290.4 |

| Trial Number : 15 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 8** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 51.4 | 7 | 1518 | 1727 | 809.176 |
| 2 | 2 | 83.6 | 7 | 1307 | | 970.86 |
| 3 | 3 | 51.6 | 7 | 1760 | 1082 | 1217.56 |
| 4 | 3 | 79.2 | 7 | 1888 | 1432 | 1217.64 |
| 5 | 3 | 84.7 | 7 | 1493 | 1553 | 269.02 |
| 6 | 3 | 97.3 | 7 | 1833 | 1142 | 791.9 |
| 7 | 2 | 64.6 | 7 | 1701 | | 1487.8 |
| 8 | 2 | 80 | 7 | 1061 | | 1124.4 |

| Trial Number : 16 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 13** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 80.3 | 20 | 1960 | 1308 | 718.009 |
| 2 | 1 | 63.6 | 20 | | | 466.473 |
| 3 | 2 | 77.3 | 20 | 1531 | | 652.676 |
| 4 | 3 | 76 | 20 | 1121 | 1470 | 189.589 |
| 5 | 2 | 73.1 | 20 | 1480 | | 558.132 |
| 6 | 2 | 87.8 | 20 | 1250 | | 219.425 |
| 7 | 2 | 77.9 | 20 | 1250 | | 131.458 |
| 8 | 1 | 75.1 | 20 | | | 439.232 |
| 9 | 2 | 90.2 | 20 | 1069 | | 109.375 |
| 10 | 2 | 69.5 | 20 | 1761 | | 608.468 |
| 11 | 1 | 50.8 | 20 | | | 290.581 |
| 12 | 3 | 78.7 | 20 | 1937 | 1650 | 440.554 |
| 13 | 2 | 92.4 | 20 | 1566 | | 242.177 |

| Trial Number : 17 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 9** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 90 | 15 | 1710 | | 902.011 |
| 2 | 2 | 65.9 | 15 | 1591 | | 101.297 |
| 3 | 2 | 92.8 | 15 | 1945 | | 1247.383 |
| 4 | 2 | 79.6 | 15 | 1052 | | 86.16 |
| 5 | 1 | 81.6 | 15 | | | 589.737 |
| 6 | 2 | 68.3 | 15 | 1747 | | 460.733 |
| 7 | 3 | 54.9 | 15 | 1864 | 1416 | 1184.22 |
| 8 | 2 | 77.4 | 15 | 1123 | | 477.887 |
| 9 | 2 | 60.9 | 15 | 1012 | | 872.033 |

| Trial Number : 18 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 16** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 60.6 | 11 | 1629 | 1909 | 283.408 |
| 2 | 1 | 97.9 | 11 | | | 479.38 |
| 3 | 1 | 73.4 | 11 | | | 636.22 |
| 4 | 2 | 84.7 | 11 | 1791 | | 1.3 |
| 5 | 2 | 81.1 | 11 | 1734 | | 260.41 |
| 6 | 2 | 97.1 | 11 | 1947 | | 716.79 |
| 7 | 3 | 70.8 | 11 | 1285 | 1955 | 243.25 |
| 8 | 1 | 84.9 | 11 | | | 550.47 |
| 9 | 1 | 74.5 | 11 | | | 19.36 |
| 10 | 3 | 93.3 | 11 | 1362 | 1729 | 266.59 |
| 11 | 2 | 84.3 | 11 | 1626 | | 109.78 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | 2 | 88.5 | 11 | 1238 | | 328.18 |
| 13 | 2 | 73.2 | 11 | 1835 | | 119.3 |
| 14 | 1 | 61.4 | 11 | | | 454 |
| 15 | 2 | 89.7 | 11 | 1765 | | 12.3 |
| 16 | 3 | 63.7 | 11 | 1044 | 1445 | 743.4 |

| **Trial Number : 19** | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 16** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 69.5 | 15 | 1071 | | 242.805 |
| 2 | 1 | 57.8 | 15 | | | 350.09 |
| 3 | 2 | 91.1 | 15 | 1491 | | 484.08 |
| 4 | 2 | 90.2 | 15 | 1654 | | 673.94 |
| 5 | 2 | 75.9 | 15 | 1461 | | 389.7 |
| 6 | 1 | 72.5 | 15 | | | 454.11 |
| 7 | 3 | 88.5 | 15 | 1338 | 1930 | 163.29 |
| 8 | 1 | 60 | 15 | | | 41.53 |
| 9 | 1 | 92.2 | 15 | | | 391.15 |
| 10 | 3 | 68.2 | 15 | 1114 | 1967 | 201.82 |
| 11 | 2 | 66.1 | 15 | 1851 | | 693.88 |
| 12 | 2 | 57.4 | 15 | 1950 | | 90.13 |
| 13 | 3 | 53.8 | 15 | 1753 | 1560 | 252.33 |
| 14 | 1 | 92.3 | 15 | | | 436.9 |
| 15 | 3 | 71.9 | 15 | 1499 | 1617 | 642.9 |
| 16 | 1 | 85.6 | 15 | | | 600.8 |

| **Trial Number : 20** | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 12** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 96.6 | 17 | 1980 | | 412.166 |
| 2 | 2 | 56.8 | 17 | 1416 | | 910.49 |
| 3 | 3 | 52.1 | 17 | 1095 | 1684 | 370.27 |
| 4 | 2 | 62.7 | 17 | 1709 | | 972.13 |
| 5 | 2 | 51.7 | 17 | 1801 | | 820.75 |
| 6 | 1 | 74.2 | 17 | | | 979.07 |
| 7 | 2 | 58.3 | 17 | 1529 | | 885.68 |
| 8 | 3 | 75.1 | 17 | 1305 | 1180 | 971.98 |
| 9 | 2 | 94 | 17 | 1894 | | 718.84 |
| 10 | 3 | 99.1 | 17 | 1084 | 1537 | 59.89 |
| 11 | 1 | 97.2 | 17 | | | 712.5 |
| 12 | 3 | 95.1 | 17 | 1268 | 1454 | 783.4 |

| Trial Number : 21 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 13** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 54.1 | 8 | | | 402.22 |
| 2 | 2 | 78.2 | 8 | 1825 | | 487.693 |
| 3 | 1 | 77.5 | 8 | | | 481.576 |
| 4 | 1 | 80.9 | 8 | | | 302.909 |
| 5 | 3 | 73.8 | 8 | 1294 | 1539 | 501.412 |
| 6 | 1 | 67.2 | 8 | | | 543.475 |
| 7 | 1 | 79.9 | 8 | | | 174.448 |
| 8 | 2 | 54.4 | 8 | 1270 | | 783.622 |
| 9 | 1 | 70.9 | 8 | | | 116.785 |
| 10 | 1 | 82.6 | 8 | | | 90.048 |
| 11 | 2 | 58 | 8 | 1285 | | 595.601 |
| 12 | 1 | 53.7 | 8 | | | 265.954 |
| 13 | 2 | 83.1 | 8 | 1624 | | 367.577 |

| Trial Number : 22 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 13** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 72.8 | 18 | | | 291.86 |
| 2 | 2 | 77.6 | 18 | 1650 | | 551.643 |
| 3 | 2 | 72.2 | 18 | 1120 | | 793.426 |
| 4 | 1 | 77.5 | 18 | | | 135.049 |
| 5 | 2 | 92.6 | 18 | 1665 | | 336.912 |
| 6 | 1 | 81.4 | 18 | | | 562.305 |
| 7 | 2 | 76 | 18 | 1937 | | 57.268 |
| 8 | 3 | 67 | 18 | 1315 | 1692 | 756.272 |
| 9 | 2 | 57.8 | 18 | 1573 | | 461.145 |
| 10 | 2 | 83.6 | 18 | 1886 | | 105.458 |
| 11 | 2 | 58.6 | 18 | 1189 | | 232.771 |
| 12 | 2 | 62.8 | 18 | 1241 | | 244.854 |
| 13 | 2 | 81.4 | 18 | 1897 | | 912.677 |

| Trial Number : 23 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 8** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 88.2 | 10 | 1704 | | 1119.56 |
| 2 | 1 | 50.5 | 10 | | | 1385.62 |
| 3 | 3 | 84.6 | 10 | 1995 | 1424 | 622.77 |
| 4 | 3 | 89.4 | 10 | 1961 | 1285 | 985.03 |
| 5 | 1 | 76.9 | 10 | | | 628.59 |
| 6 | 3 | 69.7 | 10 | 1493 | 1156 | 48.53 |
| 7 | 1 | 86 | 10 | | | 551.12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | 2 | 68.3 | 10 | 1310 | | 1286.4 |

| Trial Number : 24 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 11** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 85.2 | 13 | 1947 | | 658.822 |
| 2 | 1 | 95.8 | 13 | | | 762.801 |
| 3 | 2 | 97.2 | 13 | 1096 | | 751.442 |
| 4 | 2 | 61.7 | 13 | 1838 | | 107.123 |
| 5 | 1 | 59.7 | 13 | | | 991.764 |
| 6 | 2 | 75.8 | 13 | 1883 | | 11.575 |
| 7 | 3 | 50 | 13 | 1682 | 1325 | 697.815 |
| 8 | 3 | 56.1 | 13 | 1611 | 1949 | 743.626 |
| 9 | 2 | 89 | 13 | 1215 | | 821.807 |
| 10 | 1 | 56.8 | 13 | | | 650.018 |
| 11 | 3 | 69.8 | 13 | 1139 | 1688 | 59.309 |

| Trial Number : 25 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 14** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 83.6 | 5 | | | 315.874 |
| 2 | 1 | 65.3 | 5 | | | 0.113 |
| 3 | 1 | 56.5 | 5 | | | 213.034 |
| 4 | 3 | 58.2 | 5 | 1956 | 1109 | 101.101 |
| 5 | 2 | 54 | 5 | 1904 | | 137.759 |
| 6 | 2 | 89.4 | 5 | 1070 | | 43.276 |
| 7 | 3 | 92.4 | 5 | 1105 | 1707 | 520.893 |
| 8 | 3 | 66.8 | 5 | 1708 | 1280 | 431.02 |
| 9 | 2 | 62.1 | 5 | 1124 | | 634.157 |
| 10 | 2 | 88.6 | 5 | 1631 | | 70.914 |
| 11 | 3 | 66.9 | 5 | 1790 | 1297 | 7.901 |
| 12 | 2 | 84.7 | 5 | 1897 | | 822.429 |
| 13 | 1 | 85.6 | 5 | | | 639.186 |
| 14 | 2 | 88.9 | 5 | 1866 | | 598.543 |

**---------- The following blanks ----------**

| Trial Number : 26 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 15** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 82.8 | 13 | | | 644.239 |
| 2 | 3 | 70.2 | 13 | 1495 | 1030 | 689.39 |
| 3 | 2 | 52.9 | 13 | 1458 | | 139.58 |
| 4 | 1 | 70.1 | 13 | | | 85.86 |
| 5 | 2 | 77.5 | 13 | 1631 | | 562.08 |
| 6 | 2 | 70.2 | 13 | 1500 | | 531.08 |
| 7 | 2 | 82.9 | 13 | 1829 | | 402.97 |
| 8 | 2 | 50 | 13 | 1596 | | 654.68 |
| 9 | 1 | 51 | 13 | | | 468.5 |
| 10 | 3 | 90.4 | 13 | 1523 | 1382 | 641.36 |
| 11 | 3 | 55.6 | 13 | 1638 | 1303 | 310.94 |
| 12 | 2 | 89.3 | 13 | 1333 | | 268.27 |
| 13 | 3 | 69.6 | 13 | 1993 | 1263 | 783.4 |
| 14 | 1 | 50.7 | 13 | | | 236.1 |
| 15 | 3 | 80.8 | 13 | 1921 | 1556 | 86.8 |

| Trial Number : 27 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 12** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 1 | 63 | 20 | | | 23.935 |
| 2 | 3 | 91.1 | 20 | 1018 | 1610 | 869.96 |
| 3 | 1 | 98.1 | 20 | | | 677 |
| 4 | 1 | 84.5 | 20 | | | 806.74 |
| 5 | 2 | 96.4 | 20 | 1983 | | 74.03 |
| 6 | 2 | 79.7 | 20 | 1321 | | 453.55 |
| 7 | 1 | 90 | 20 | | | 675.92 |
| 8 | 3 | 99.2 | 20 | 1932 | 1622 | 6.4 |
| 9 | 2 | 60.5 | 20 | 1266 | | 608.04 |
| 10 | 3 | 58.5 | 20 | 1753 | 1333 | 976.52 |
| 11 | 3 | 51.9 | 20 | 1435 | 1965 | 825 |
| 12 | 1 | 57.2 | 20 | | | 745.4 |

**---------- The following blanks ----------**

| Trial Number : 28 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 10** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 77.1 | 11 | 1968 | 1325 | 213.606 |
| 2 | 3 | 54.3 | 11 | 1897 | 1020 | 249.26 |
| 3 | 2 | 75.2 | 11 | 1370 | | 984.34 |
| 4 | 2 | 77.2 | 11 | 1570 | | 1068.88 |
| 5 | 2 | 68.9 | 11 | 1077 | | 624.85 |
| 6 | 3 | 95.2 | 11 | 1504 | 1591 | 63.93 |
| 7 | 2 | 70.4 | 11 | 1948 | | 1133.64 |
| 8 | 3 | 57.5 | 11 | 1144 | 1229 | 365.38 |
| 9 | 2 | 61.7 | 11 | 1939 | | 499.8 |
| 10 | 2 | 99.5 | 11 | 1365 | | 716.3 |

| Trial Number : 29 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 19** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 2 | 96.2 | 15 | 1357 | | 431.184 |
| 2 | 1 | 73 | 15 | | | 393.801 |
| 3 | 2 | 86.7 | 15 | 1952 | | 182.322 |
| 4 | 3 | 79.9 | 15 | 1332 | 1651 | 230.583 |
| 5 | 2 | 90.7 | 15 | 1276 | | 13.344 |
| 6 | 1 | 54.3 | 15 | | | 374.635 |
| 7 | 3 | 58.5 | 15 | 1228 | 1184 | 442.896 |
| 8 | 2 | 82.8 | 15 | 1414 | | 159.577 |
| 9 | 2 | 72.1 | 15 | 1953 | | 201.808 |
| 10 | 2 | 81.3 | 15 | 1865 | | 409.059 |
| 11 | 2 | 84.1 | 15 | 1280 | | 83.361 |
| 12 | 2 | 94.5 | 15 | 1396 | | 451.772 |
| 13 | 2 | 56.9 | 15 | 1357 | | 592.873 |
| 14 | 2 | 73 | 15 | 1639 | | 350.104 |
| 15 | 2 | 61.3 | 15 | 1751 | | 573.515 |
| 16 | 3 | 76 | 15 | 1040 | 1130 | 387.316 |
| 17 | 1 | 54.9 | 15 | | | 612.637 |
| 18 | 3 | 61.4 | 15 | 1678 | 1827 | 525.058 |
| 19 | 2 | 68.6 | 15 | 1400 | | 29.379 |

| Trial Number : 30 | | | | | | |
|---|---|---|---|---|---|---|
| **Bursts in Trial: 12** | | | | | | |
| **Burst** | **Number of Pulses** | **Pulse Width (µsec)** | **Chirp Width (MHz)** | **Pulse 1-to-2 PRI (µsec)** | **Pulse 2-to-3 PRI (µsec)** | **Start Location Within Interval (msec)** |
| 1 | 3 | 79.7 | 10 | 1968 | 1828 | 271.775 |
| 2 | 2 | 56.3 | 10 | 1144 | | 680.91 |
| 3 | 2 | 81.9 | 10 | 1423 | | 652.33 |
| 4 | 2 | 62.6 | 10 | 1529 | | 92 |
| 5 | 3 | 55.4 | 10 | 1721 | 1564 | 122.39 |
| 6 | 2 | 60.2 | 10 | 1069 | | 912.03 |
| 7 | 2 | 93.5 | 10 | 1920 | | 645.18 |
| 8 | 2 | 89.6 | 10 | 1018 | | 408.17 |
| 9 | 3 | 90 | 10 | 1387 | 1463 | 80.64 |
| 10 | 3 | 57.4 | 10 | 1401 | 1921 | 744.38 |
| 11 | 3 | 91.8 | 10 | 1485 | 1883 | 0.1 |
| 12 | 3 | 72.9 | 10 | 1392 | 1443 | 370.4 |

**---------- The following blanks ----------**

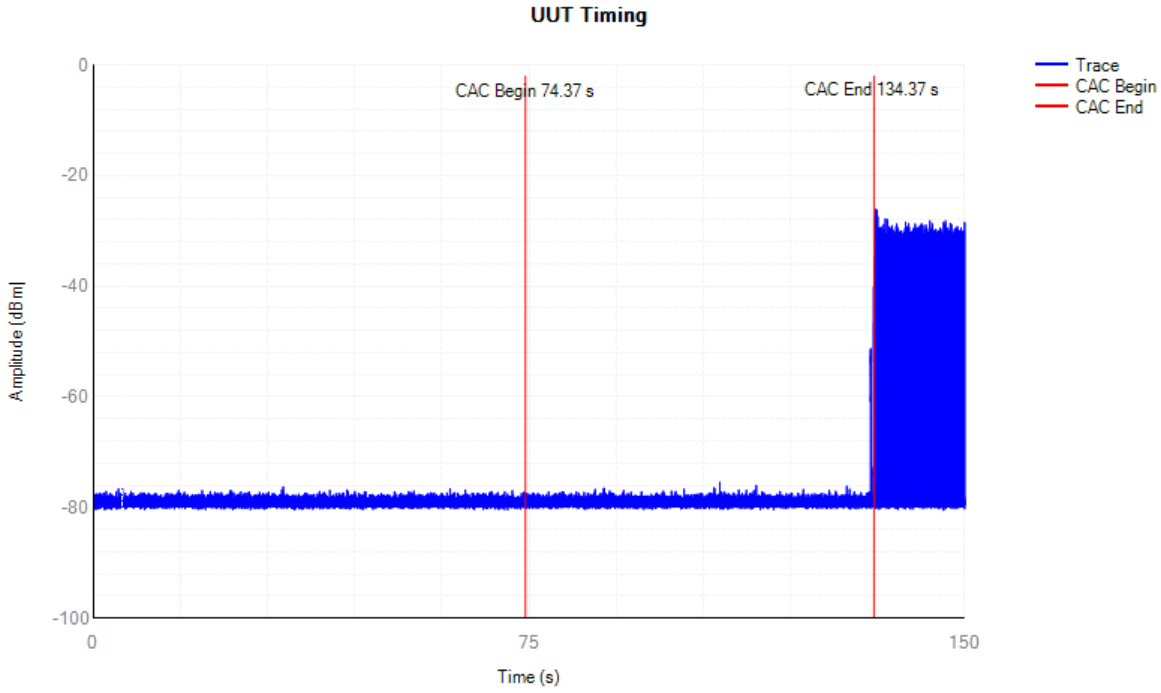
Radar 6 Statical Performances

| Trial # | Pulse Width (μs) | PRI (μs) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (ms) | Number of Pulses |
|---|---|---|---|---|---|---|
| 1 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 2 | 1 | 333.3 | 9 | 0.3333 | 300 | 10 |
| 3 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 4 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 5 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 6 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 7 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 8 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 9 | 1 | 333.3 | 9 | 0.3333 | 300 | 21 |
| 10 | 1 | 333.3 | 9 | 0.3333 | 300 | 15 |
| 11 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 12 | 1 | 333.3 | 9 | 0.3333 | 300 | 24 |
| 13 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 14 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 15 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 16 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 17 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 18 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 19 | 1 | 333.3 | 9 | 0.3333 | 300 | 14 |
| 20 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 21 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |
| 22 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 23 | 1 | 333.3 | 9 | 0.3333 | 300 | 23 |
| 24 | 1 | 333.3 | 9 | 0.3333 | 300 | 17 |
| 25 | 1 | 333.3 | 9 | 0.3333 | 300 | 16 |
| 26 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 27 | 1 | 333.3 | 9 | 0.3333 | 300 | 13 |
| 28 | 1 | 333.3 | 9 | 0.3333 | 300 | 18 |
| 29 | 1 | 333.3 | 9 | 0.3333 | 300 | 19 |
| 30 | 1 | 333.3 | 9 | 0.3333 | 300 | 20 |

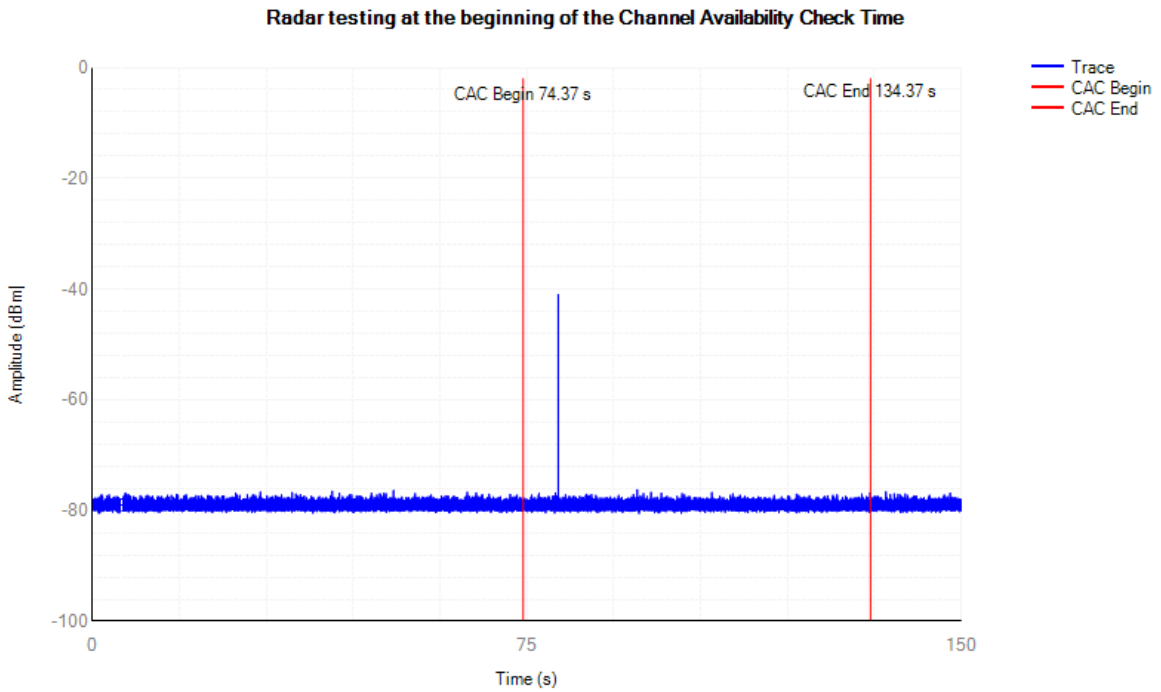
## 7.3 CHANNEL AVAILABILITY CHECK TIME

If the UUT successfully detected the radar burst, it should be observed as the UUT has no transmissions occurred until the UUT starts transmitting on another channel.

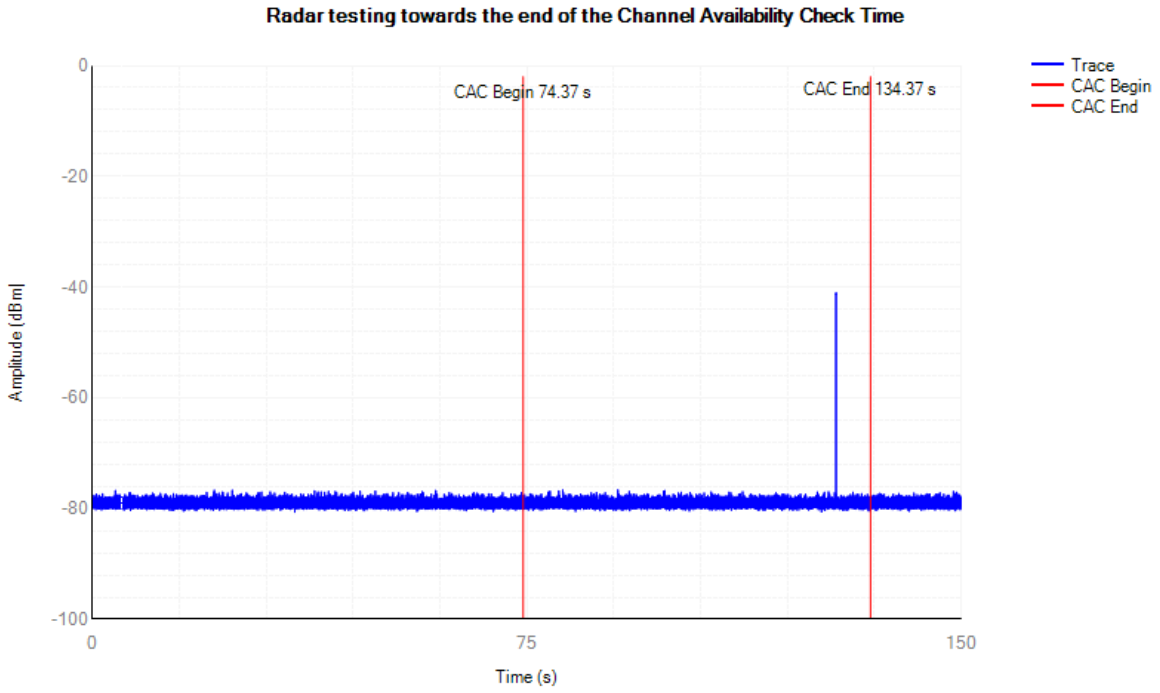
**IEEE 802.11a 5320MHz Mode**
Initial Channel Availability Check Time



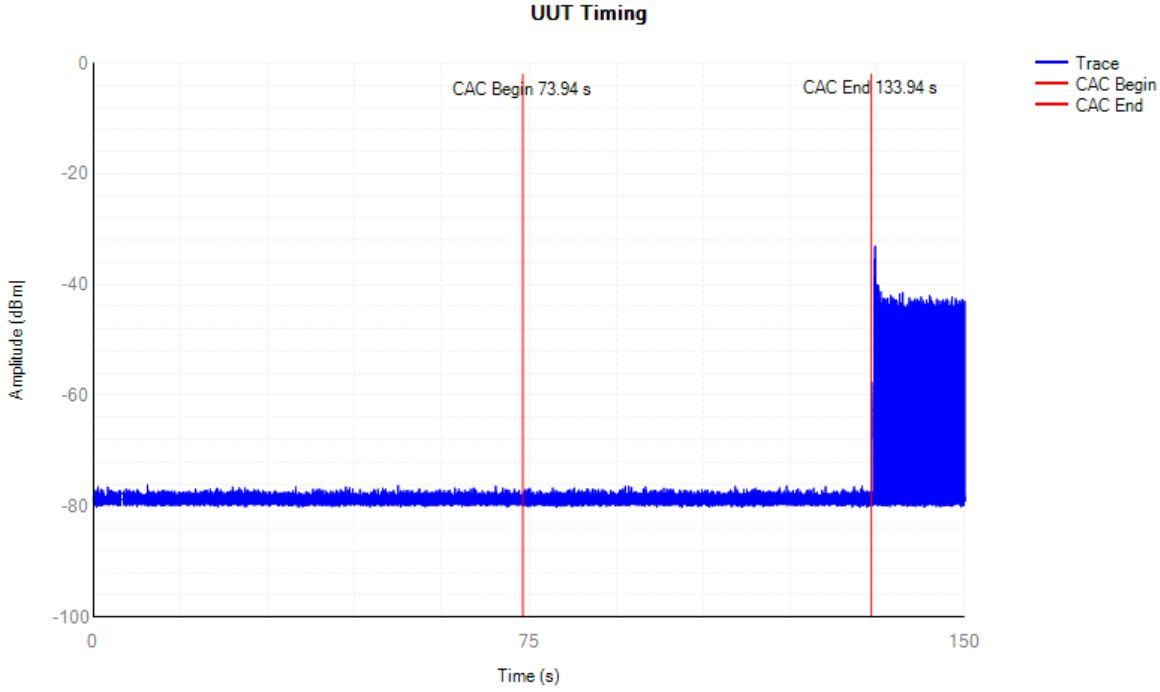

**IEEE 802.11a 5320MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time



**IEEE 802.11a 5320MHz Mode**
Radar Burst at the End of the Channel Availability Check Time

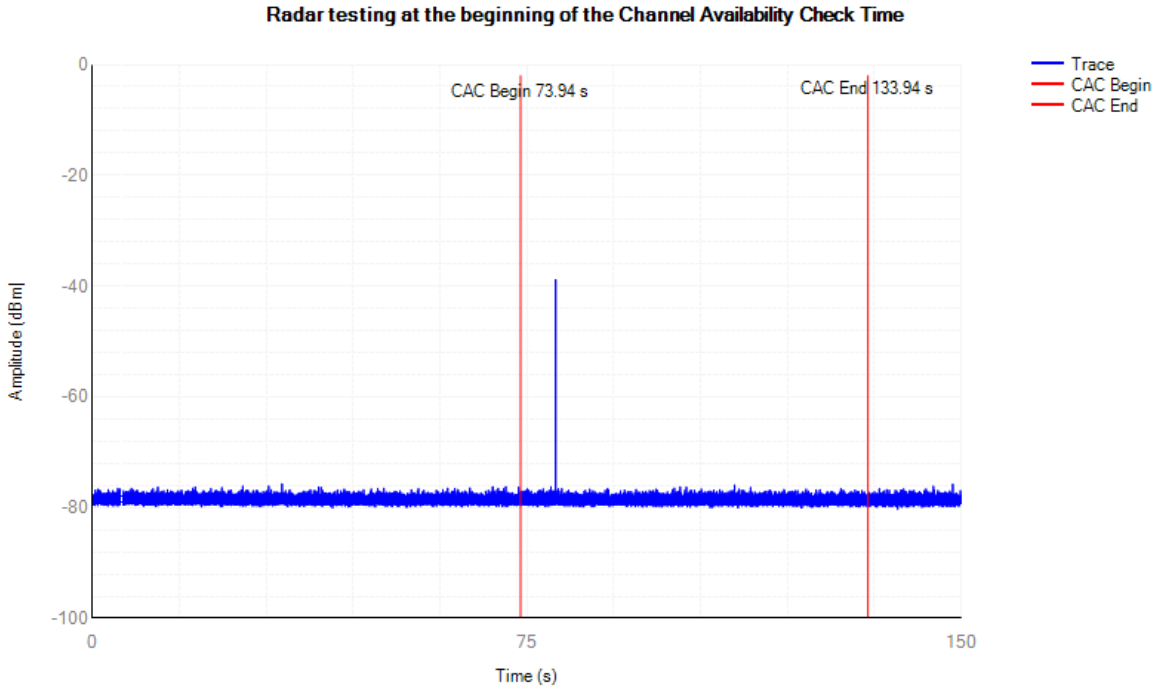



**IEEE 802.11n HT40 5310MHz Mode**
Initial Channel Availability Check Time



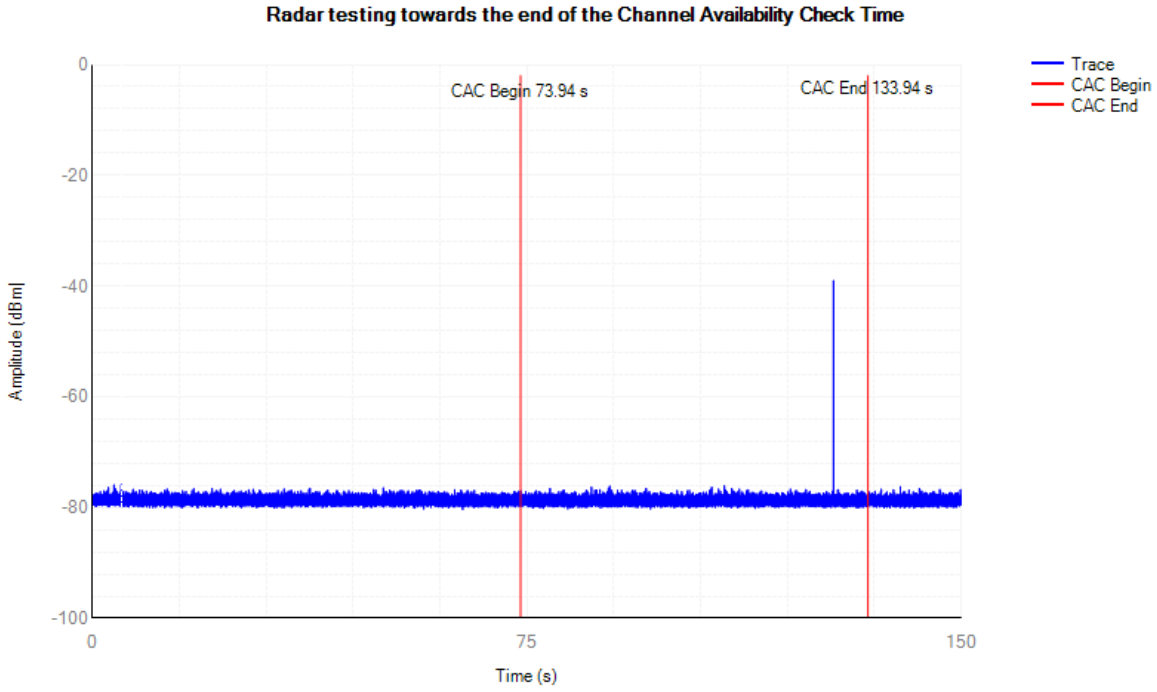
**IEEE 802.11n HT40 5310MHz Mode**

Radar Burst at the Beginning of the Channel Availability Check Time

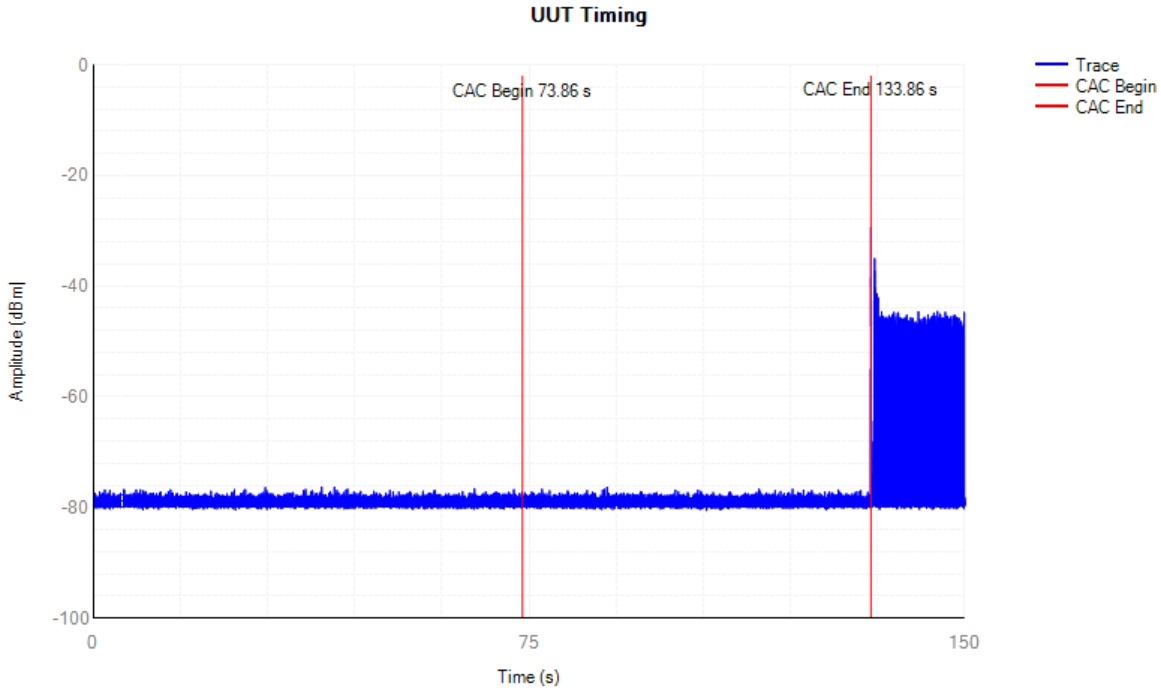



**IEEE 802.11n HT40 5310MHz Mode**

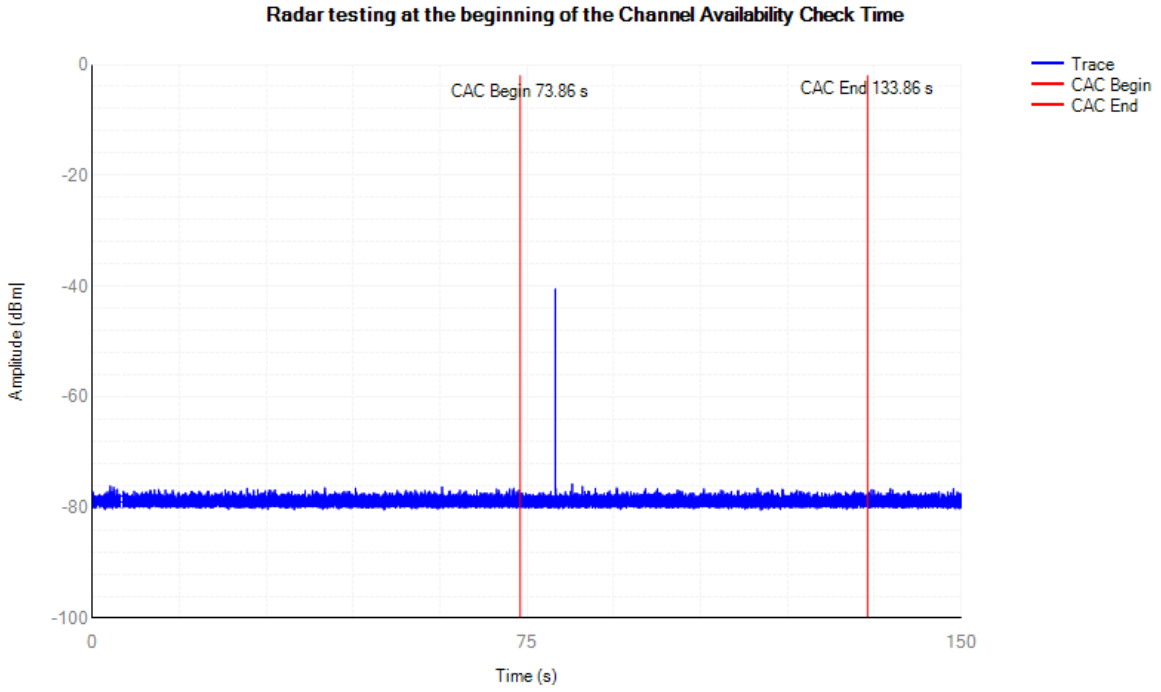
Radar Burst at the End of the Channel Availability Check Time



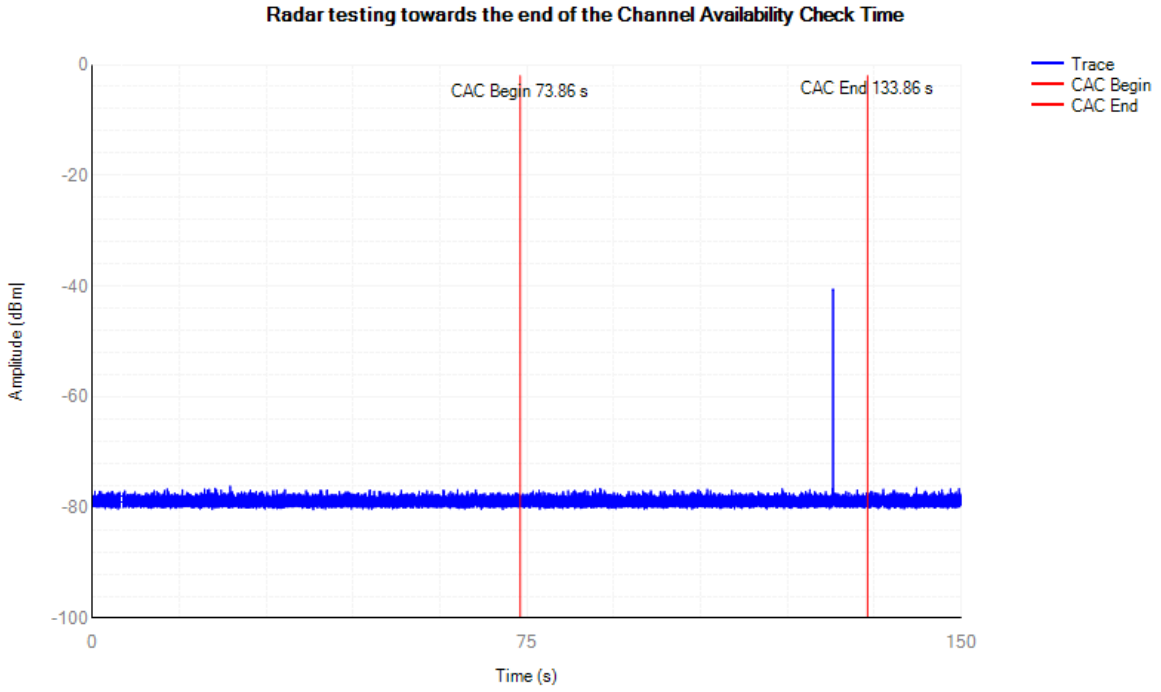
**IEEE 802.11ac VHT80 5290MHz Mode**
Initial Channel Availability Check Time



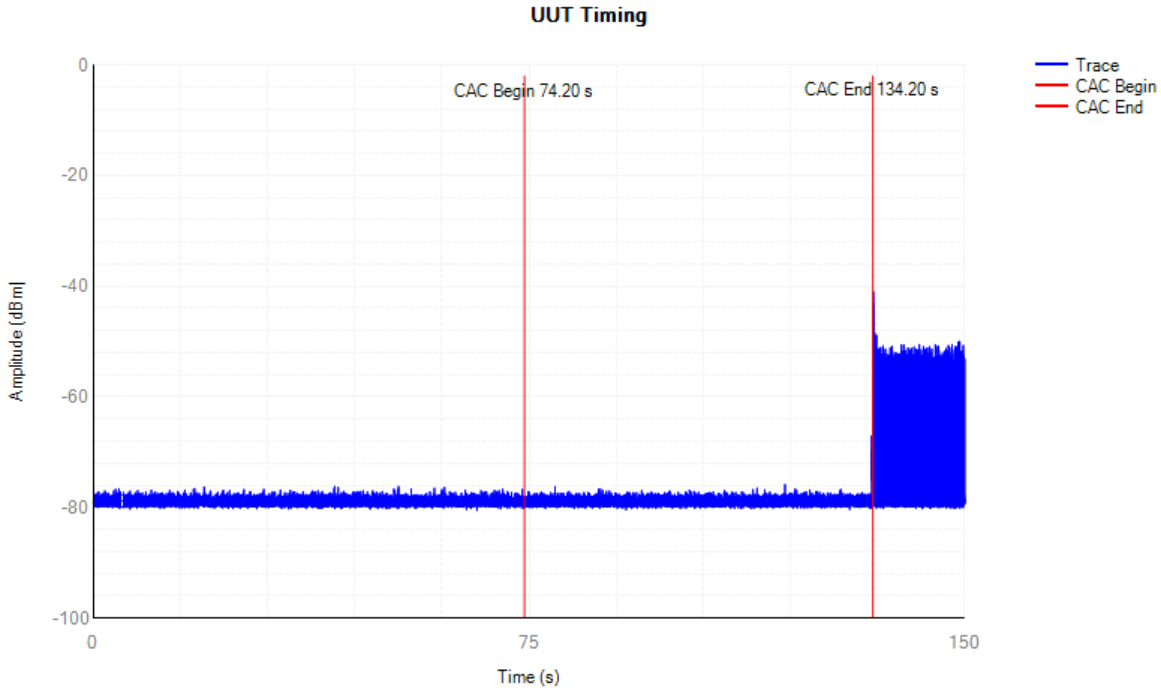

**IEEE 802.11ac VHT80 5290MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time



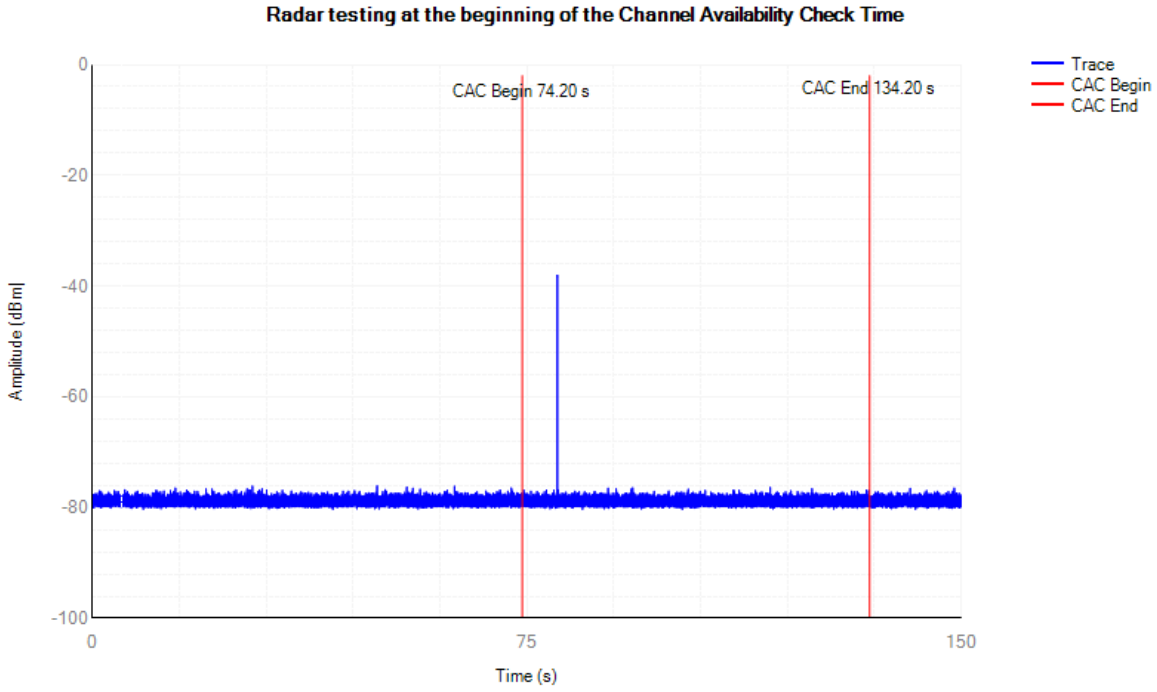
**IEEE 802.11ac VHT80 5290MHz Mode**
Radar Burst at the End of the Channel Availability Check Time



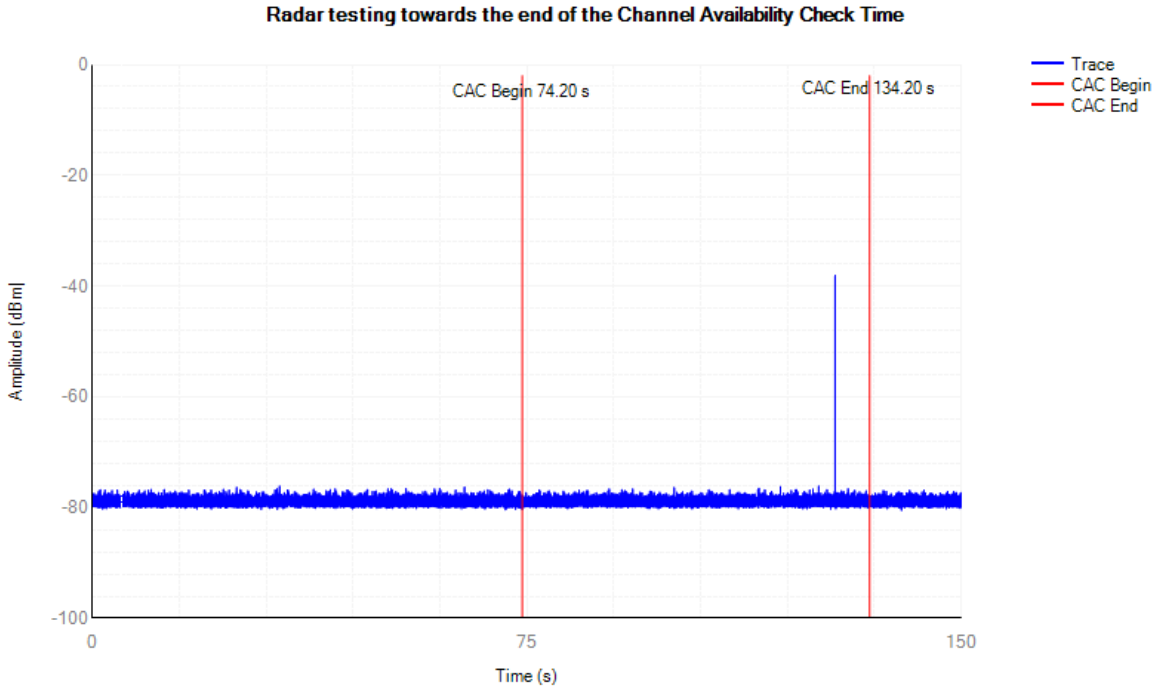

**IEEE 802.11ax HE160 5250MHz Mode**
Initial Channel Availability Check Time



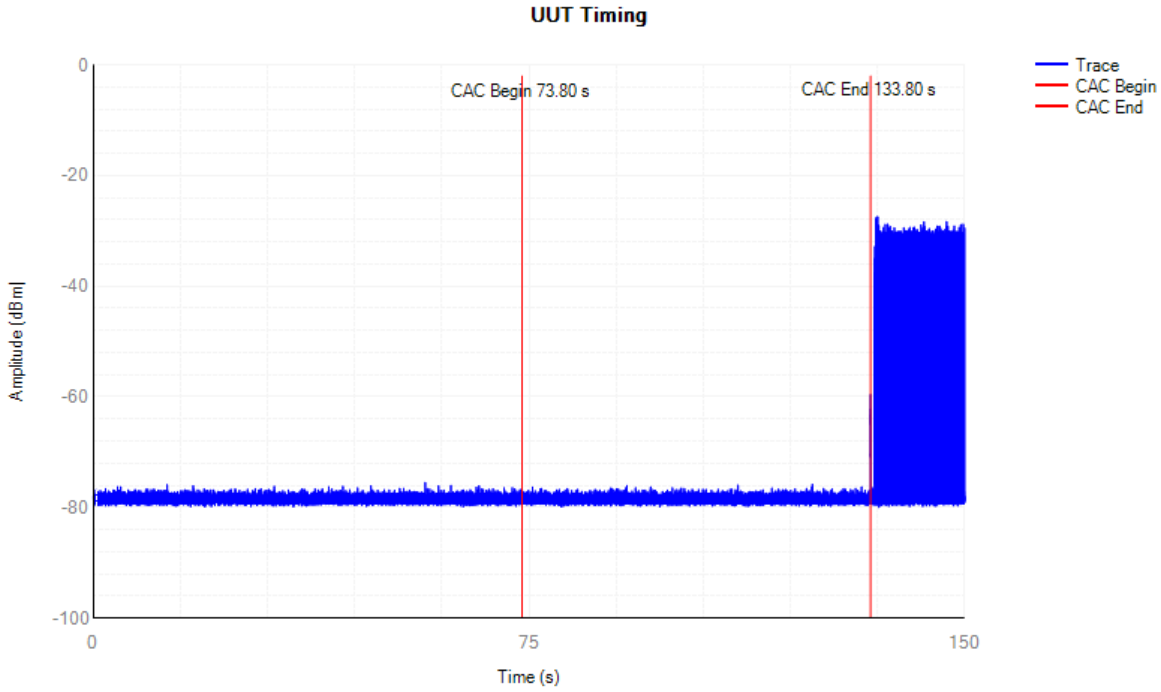
**IEEE 802.11ax HE160 5250MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time



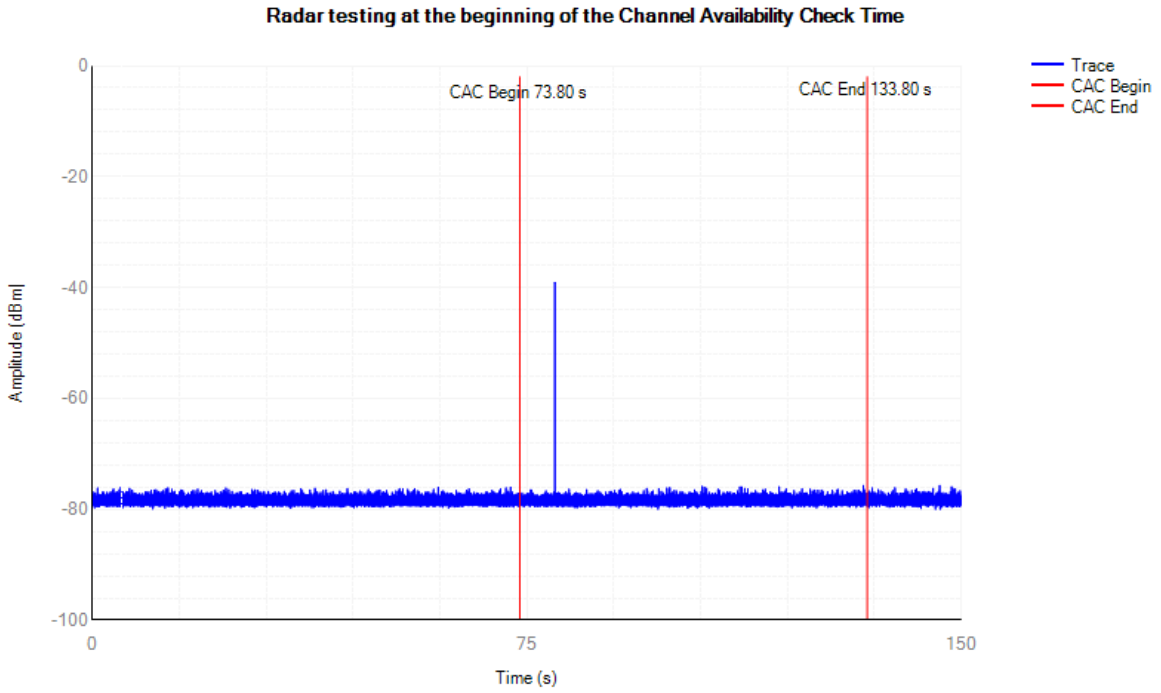

**IEEE 802.11ax HE160 5250MHz Mode**
Radar Burst at the End of the Channel Availability Check Time



**IEEE 802.11a 5500MHz Mode**
Initial Channel Availability Check Time

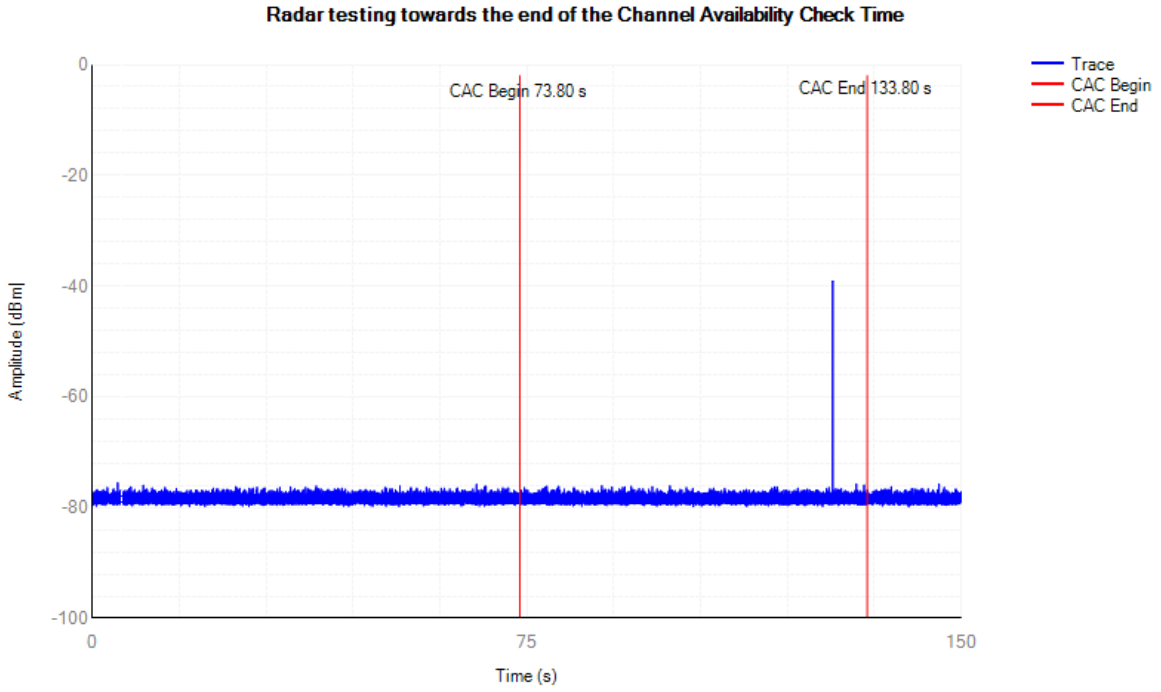



**IEEE 802.11a 5500MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time



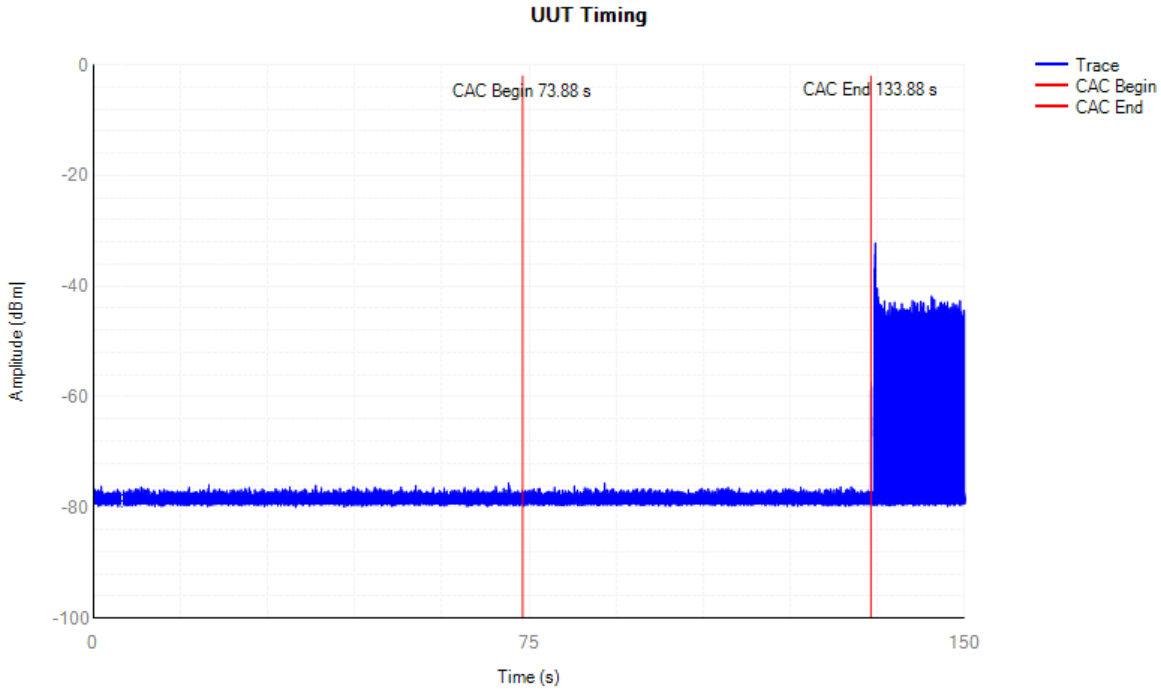
**IEEE 802.11a 5500MHz Mode**

Radar Burst at the End of the Channel Availability Check Time



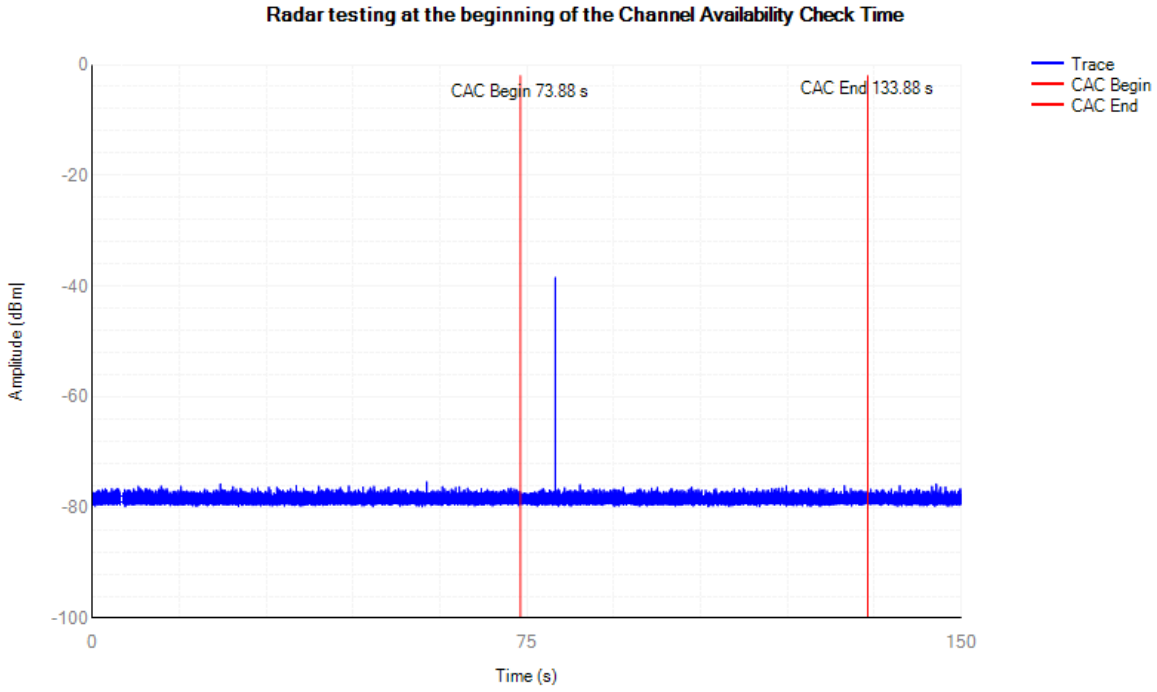

**IEEE 802.11n HT40 5510MHz Mode**

Initial Channel Availability Check Time



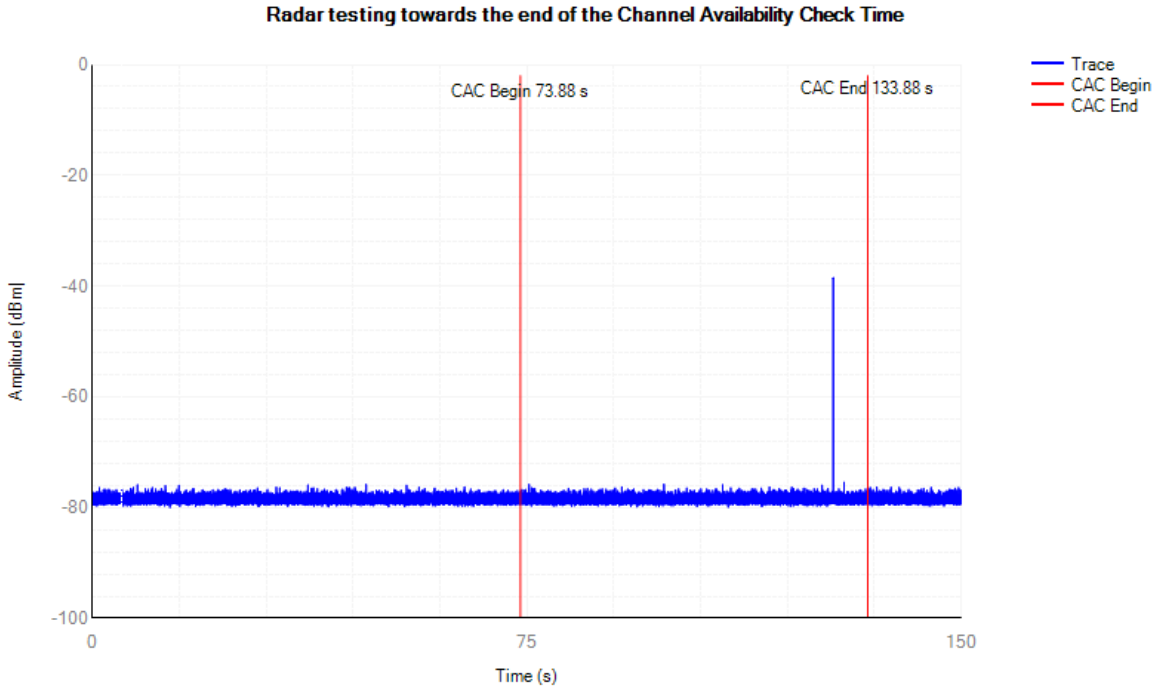
**IEEE 802.11n HT40 5510MHz Mode**

Radar Burst at the Beginning of the Channel Availability Check Time

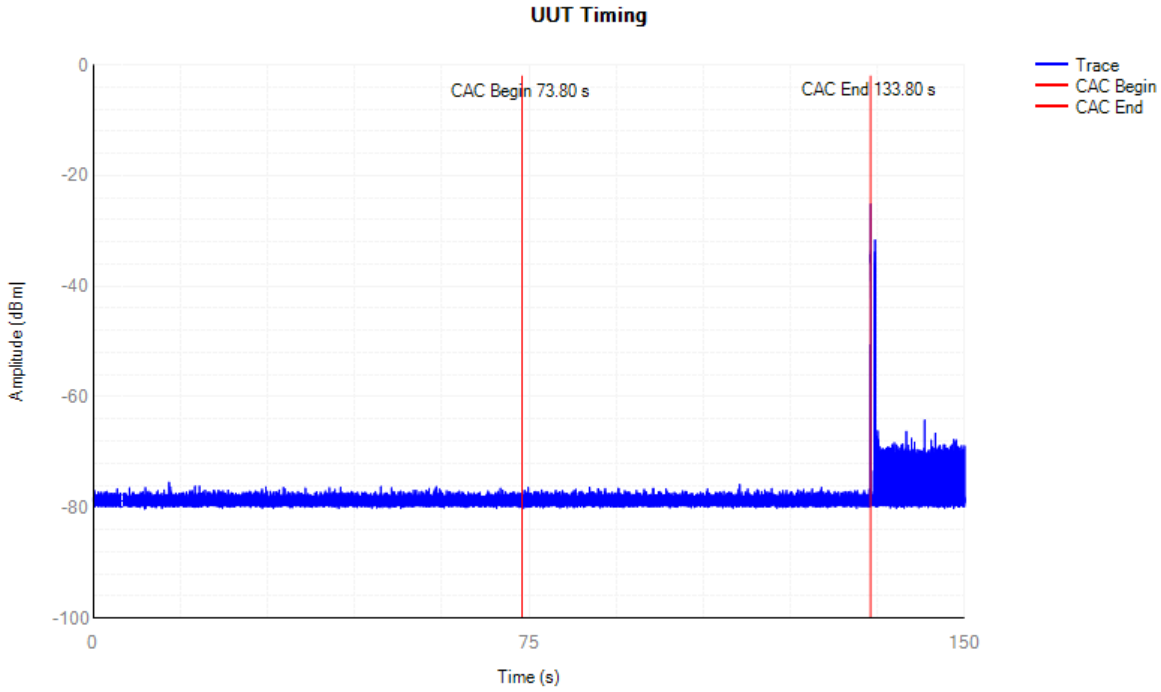



**IEEE 802.11n HT40 5510MHz Mode**

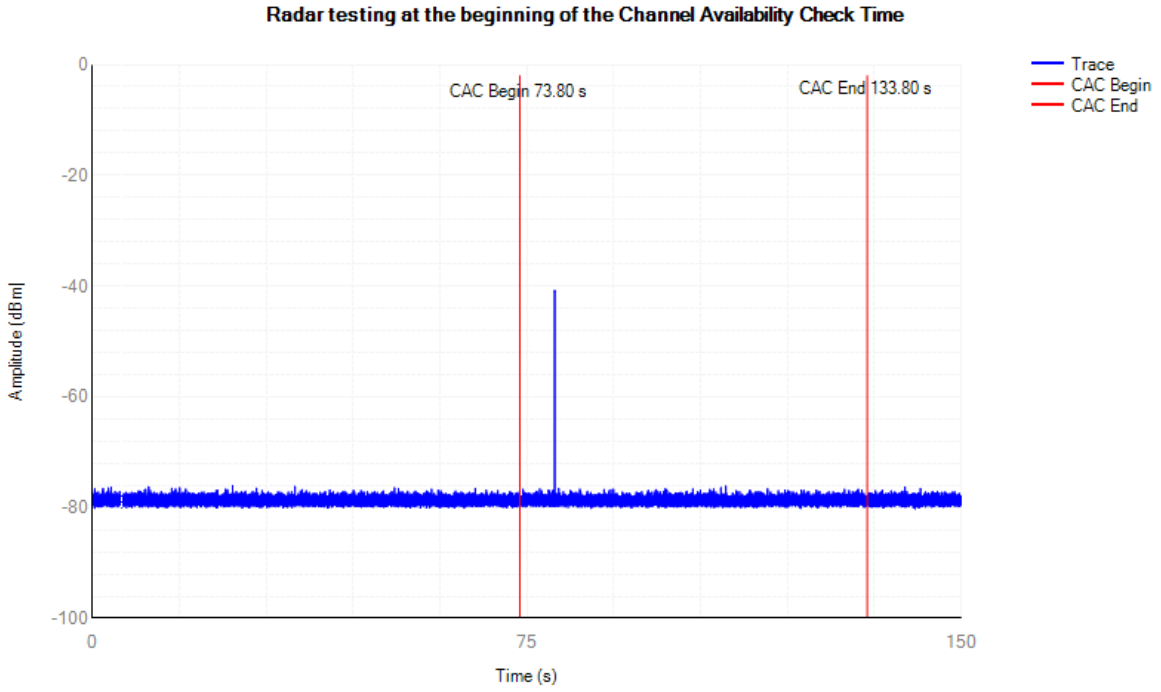
Radar Burst at the End of the Channel Availability Check Time



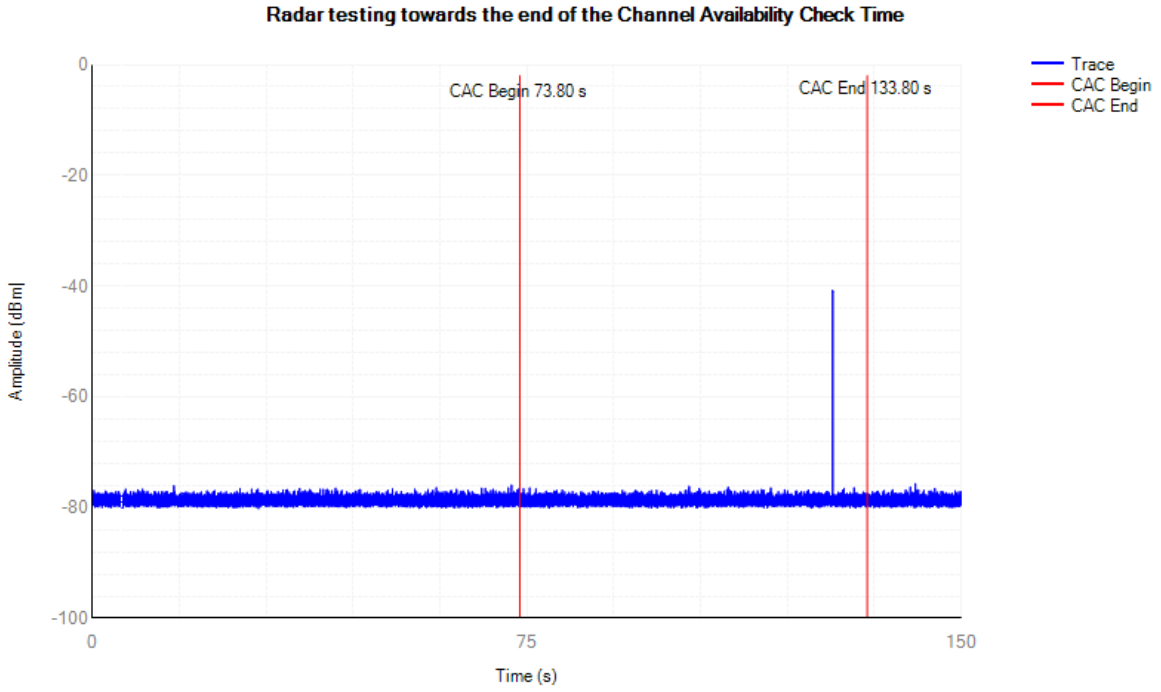
**IEEE 802.11ac VHT80 5530MHz Mode**
Initial Channel Availability Check Time



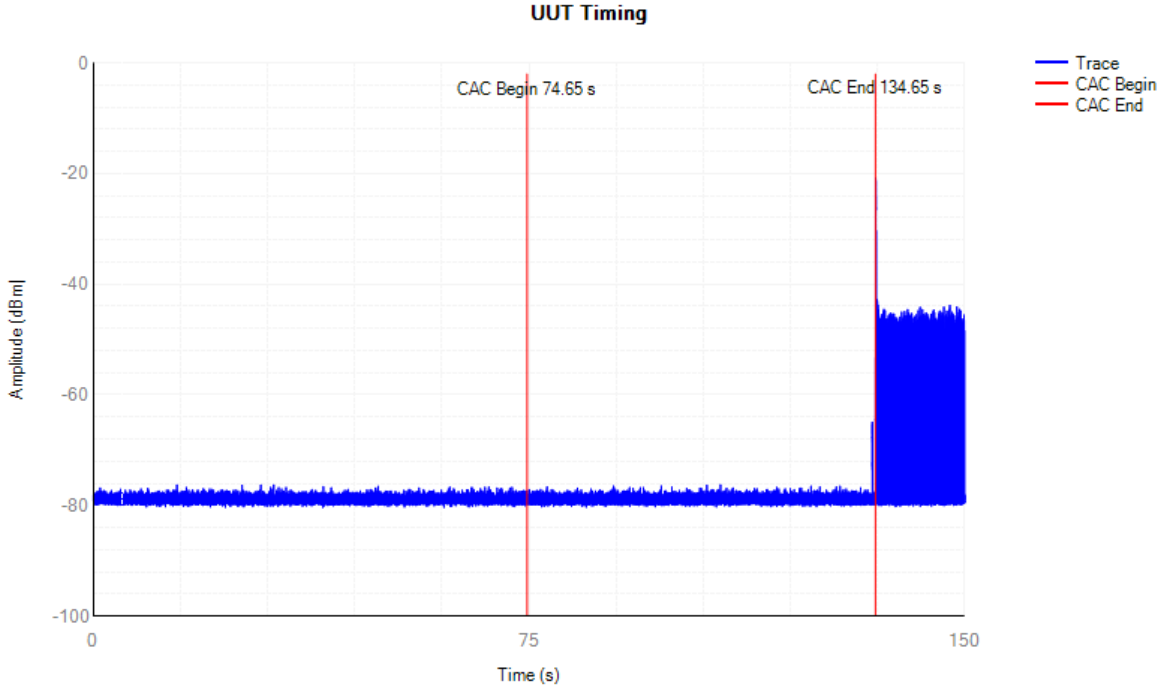

**IEEE 802.11ac VHT80 5530MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time



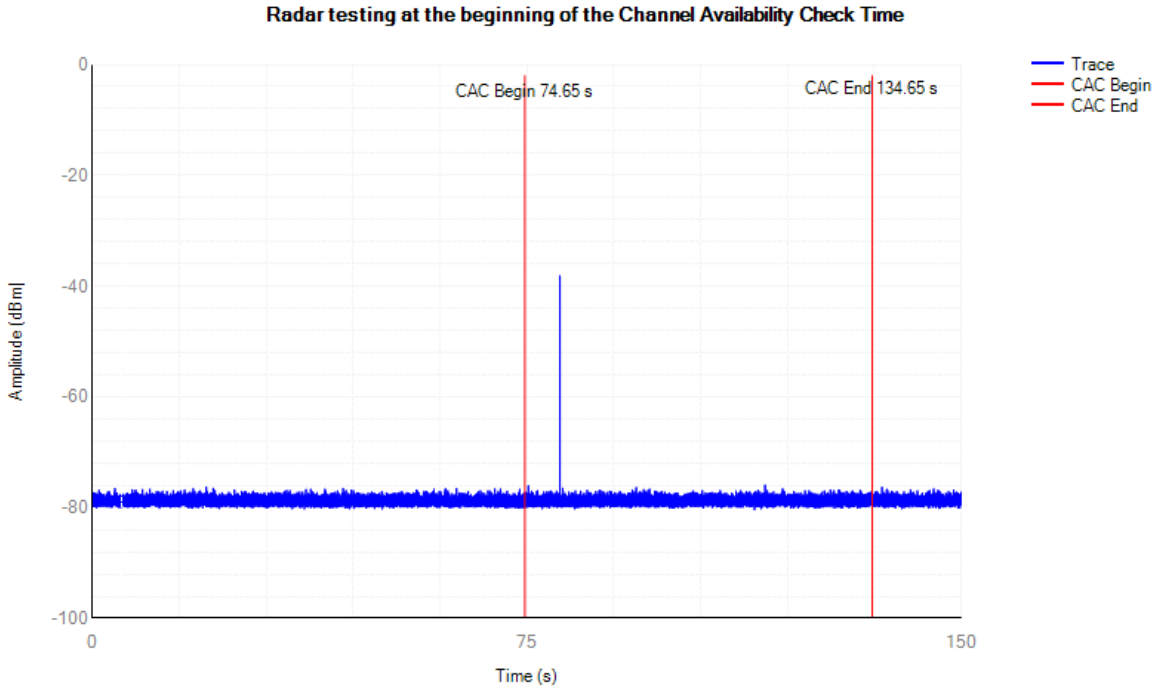
**IEEE 802.11ac VHT80 5530MHz Mode**
Radar Burst at the End of the Channel Availability Check Time



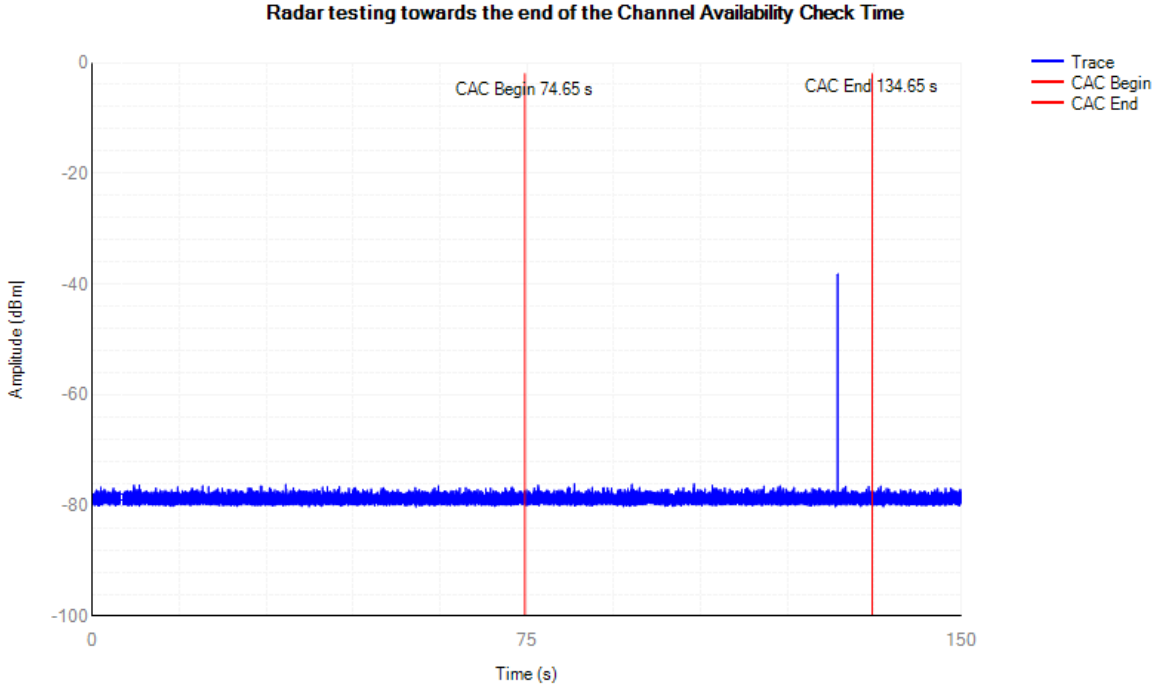

**IEEE 802.11ax HE160 5570MHz Mode**
Initial Channel Availability Check Time



**IEEE 802.11ax HE160 5570MHz Mode**
Radar Burst at the Beginning of the Channel Availability Check Time




**IEEE 802.11ax HE160 5570MHz Mode**
Radar Burst at the End of the Channel Availability Check Time



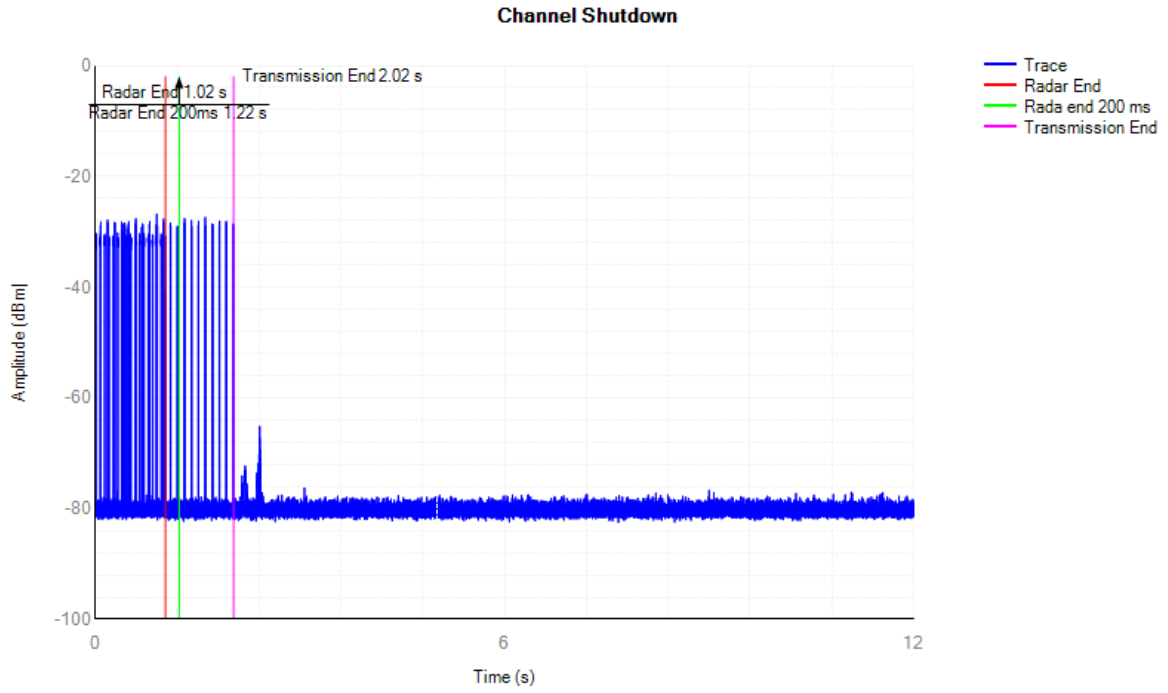

**---------- The following blanks ----------**

### 7.4 CHANNEL MOVE TIME&CHANNEL CLOSE TRANSMISSION TIME TEST RESULT

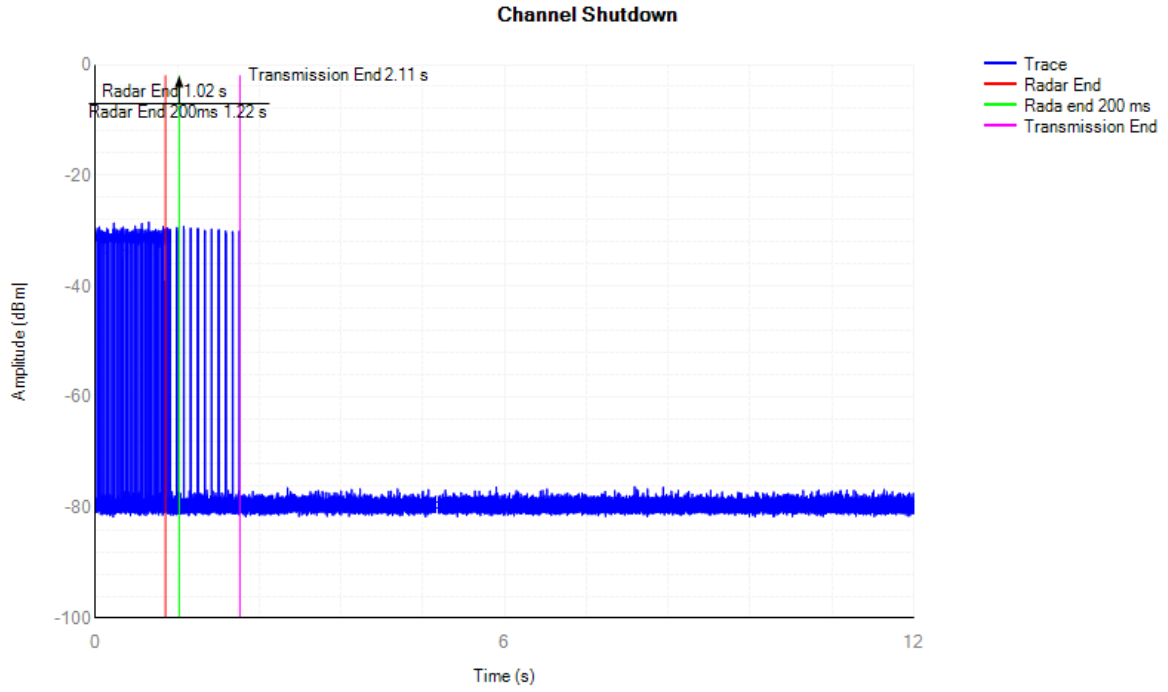
| Mode | Frequency (MHz) | Channel Move Time (s) | Limit Channel Move Time (s) | Close Transmission Time (s) | Limit Close Transmission Time (s) | Close Transmission Time after 200ms(s) | Limit Close Transmission Time after 200ms (s) | Verdict |
|---|---|---|---|---|---|---|---|---|
| a | 5300 | 0.9981 | 10 | 0.0188 | 0.26 | 0.0128 | 0.06 | Pass |
| a | 5500 | 1.0905 | 10 | 0.0408 | 0.26 | 0.0144 | 0.06 | Pass |
| ac80 | 5290 | 1.0549 | 10 | 0.0216 | 0.26 | 0.0168 | 0.06 | Pass |
| 11ax160 | 5570 | 1.1361 | 10 | 0.0172 | 0.26 | 0.0044 | 0.06 | Pass |

**---------- The following blanks ----------**

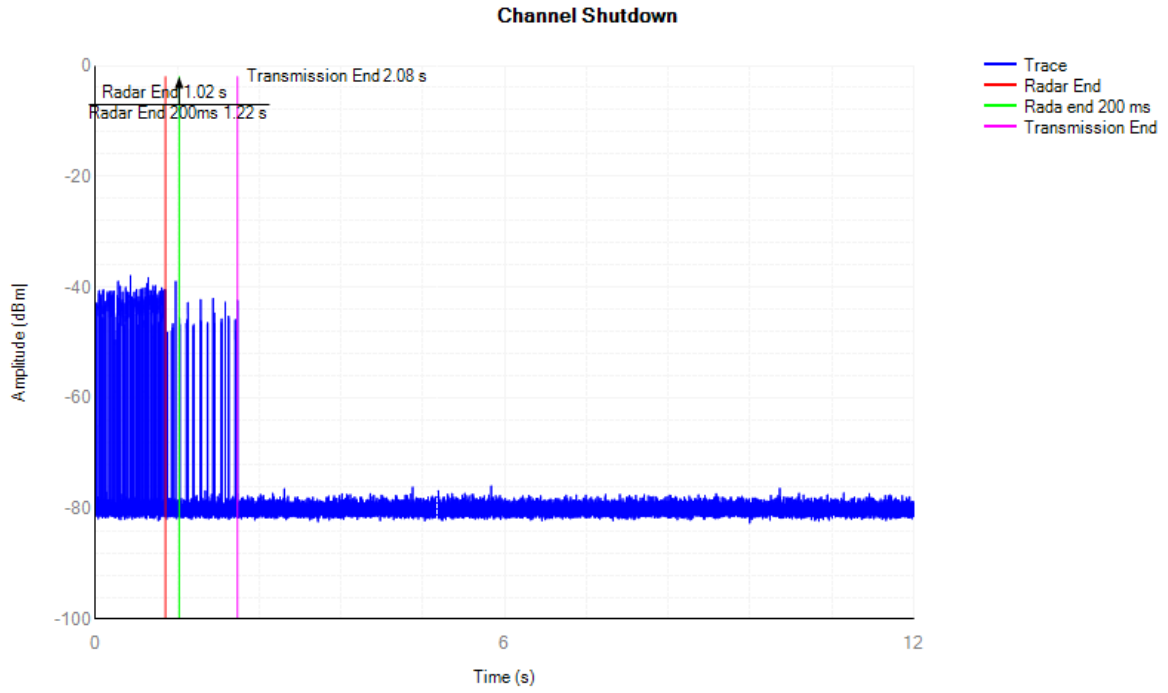
a 5300MHz Shutdown



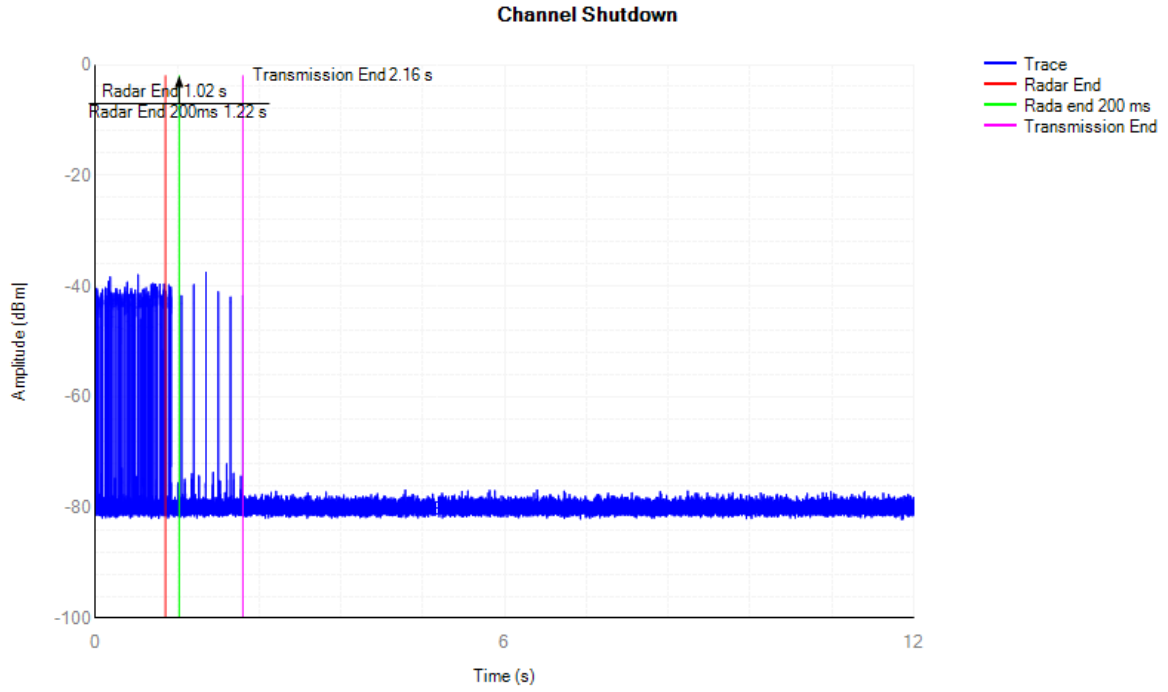

a 5500MHz Shutdown



ac80 5290MHz Shutdown




ax160 5570MHz Shutdown



## 7.5 STATISTICAL PERFORMANCE CHECK

**IEEE 802.11a 5320MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 29 | 1 | 97 |
| 2 | 1-5 | 150-230 | 23-29 | 30 | 0 | 100 |
| 3 | 6-10 | 200-500 | 16-18 | 29 | 1 | 97 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 118 | 2 | 98 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 28 | 2 | 93 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 29 | 1 | 97 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | NO | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| | | | | |
|---|---|---|---|---|
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | NO |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | NO |
| | 5 | NO | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | NO | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**IEEE 802.11n HT40 5310MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 30 | 0 | 100 |
| 2 | 1-5 | 150-230 | 23-29 | 30 | 0 | 100 |
| 3 | 6-10 | 200-500 | 16-18 | 30 | 0 | 100 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 120 | 0 | 100 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 29 | 1 | 97 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 30 | 0 | 100 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |

| | | | | |
|---|---|---|---|---|
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | NO |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

**IEEE 802.11ac VHT80 5290MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 30 | 0 | 100 |
| 2 | 1-5 | 150-230 | 23-29 | 29 | 1 | 97 |
| 3 | 6-10 | 200-500 | 16-18 | 29 | 1 | 97 |
| 4 | 11-20 | 200-500 | 12-16 | 28 | 2 | 93 |
| Aggregate (Radar Types 1-4) | | | - | 116 | 4 | 97 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 30 | 0 | 100 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 29 | 1 | 97 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | NO |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type3 | 1 | YES | 16 | NO |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |

| | | | | |
|---|---|---|---|---|
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | NO | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | NO |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | NO | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**IEEE 802.11ax HE160 5250MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 28 | 2 | 93 |
| 2 | 1-5 | 150-230 | 23-29 | 27 | 3 | 90 |
| 3 | 6-10 | 200-500 | 16-18 | 27 | 3 | 90 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 112 | 8 | 93 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 26 | 4 | 87 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 28 | 2 | 93 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | NO | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | NO | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | NO |
| | 5 | YES | 20 | NO |
| | 6 | YES | 21 | YES |
| | 7 | NO | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | NO |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |

| | | | | |
|---|---|---|---|---|
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | NO |
| | 10 | NO | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | NO | 19 | YES |
| | 5 | NO | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | NO |
| | 8 | YES | 23 | NO |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |

| | | | | |
|---|---|---|---|---|
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection YES / NO | Trial # | Detection YES / NO |
|---|---|---|---|---|
| Type6 | 1 | YES | 16 | YES |
| | 2 | NO | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | NO | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

**IEEE 802.11a 5500MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 30 | 0 | 100 |
| 2 | 1-5 | 150-230 | 23-29 | 30 | 0 | 100 |
| 3 | 6-10 | 200-500 | 16-18 | 30 | 0 | 100 |
| 4 | 11-20 | 200-500 | 12-16 | 27 | 3 | 90 |
| Aggregate (Radar Types 1-4) | | | - | 117 | 3 | 98 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 29 | 1 | 97 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 29 | 1 | 97 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| | | | | |
|---|---|---|---|---|
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | NO |
| | 4 | YES | 19 | YES |
| | 5 | NO | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | NO |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | NO |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | NO | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**IEEE 802.11n HT40 5510MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 30 | 0 | 100 |
| 2 | 1-5 | 150-230 | 23-29 | 29 | 1 | 97 |
| 3 | 6-10 | 200-500 | 16-18 | 29 | 1 | 97 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 118 | 2 | 98 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 28 | 2 | 93 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 30 | 0 | 100 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | NO |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| | | | | |
|---|---|---|---|---|
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | NO | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | NO | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | NO |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**IEEE 802.11ac VHT80 5530MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 28 | 2 | 93 |
| 2 | 1-5 | 150-230 | 23-29 | 30 | 0 | 100 |
| 3 | 6-10 | 200-500 | 16-18 | 30 | 0 | 100 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 118 | 2 | 98 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 30 | 0 | 100 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 30 | 0 | 100 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | NO | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | NO | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| | | | | |
|---|---|---|---|---|
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**IEEE 802.11ax HE160 5570MHz**

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|
| 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 | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 29 | 1 | 97 |
| 2 | 1-5 | 150-230 | 23-29 | 26 | 4 | 87 |
| 3 | 6-10 | 200-500 | 16-18 | 30 | 0 | 100 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 0 | 100 |
| Aggregate (Radar Types 1-4) | | | - | 115 | 5 | 96 |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses Per Burst | Number of Bursts | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 29 | 1 | 97 |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Pass times | Fail times | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 30 | 0 | 100 |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type1 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | NO |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type2 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | NO | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | NO | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | NO | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | NO | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| | | | | |
|---|---|---|---|---|
| Type3 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |
| Type4 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

**---------- The following blanks ----------**

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type5 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | NO |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

| Radar type | Trial # | Detection | Trial # | Detection |
|---|---|---|---|---|
| | | YES / NO | | YES / NO |
| Type6 | 1 | YES | 16 | YES |
| | 2 | YES | 17 | YES |
| | 3 | YES | 18 | YES |
| | 4 | YES | 19 | YES |
| | 5 | YES | 20 | YES |
| | 6 | YES | 21 | YES |
| | 7 | YES | 22 | YES |
| | 8 | YES | 23 | YES |
| | 9 | YES | 24 | YES |
| | 10 | YES | 25 | YES |
| | 11 | YES | 26 | YES |
| | 12 | YES | 27 | YES |
| | 13 | YES | 28 | YES |
| | 14 | YES | 29 | YES |
| | 15 | YES | 30 | YES |

## 7.6 NON-OCCUPANCY PERIOD TEST RESULT

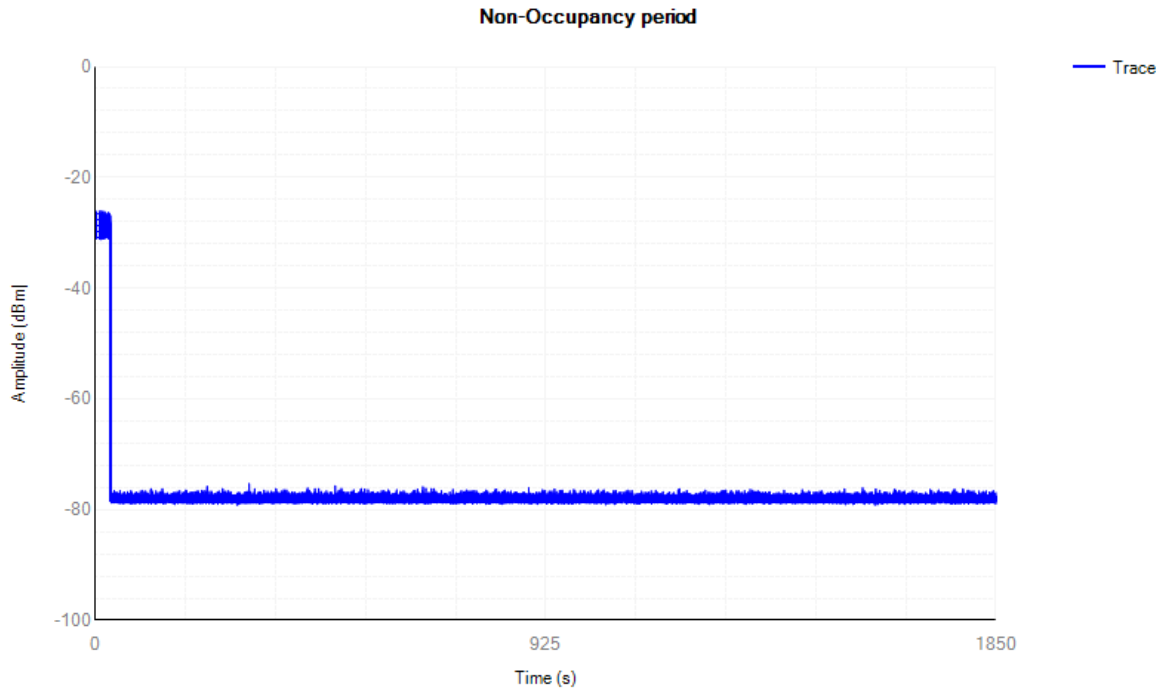
During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

| Mode | Frequency (MHz) | Result | Verdict |
|---|---|---|---|
| a | 5300 | See test Graph | Pass |
| a | 5500 | See test Graph | Pass |
| ac80 | 5290 | See test Graph | Pass |
| ax160 | 5570 | See test Graph | Pass |

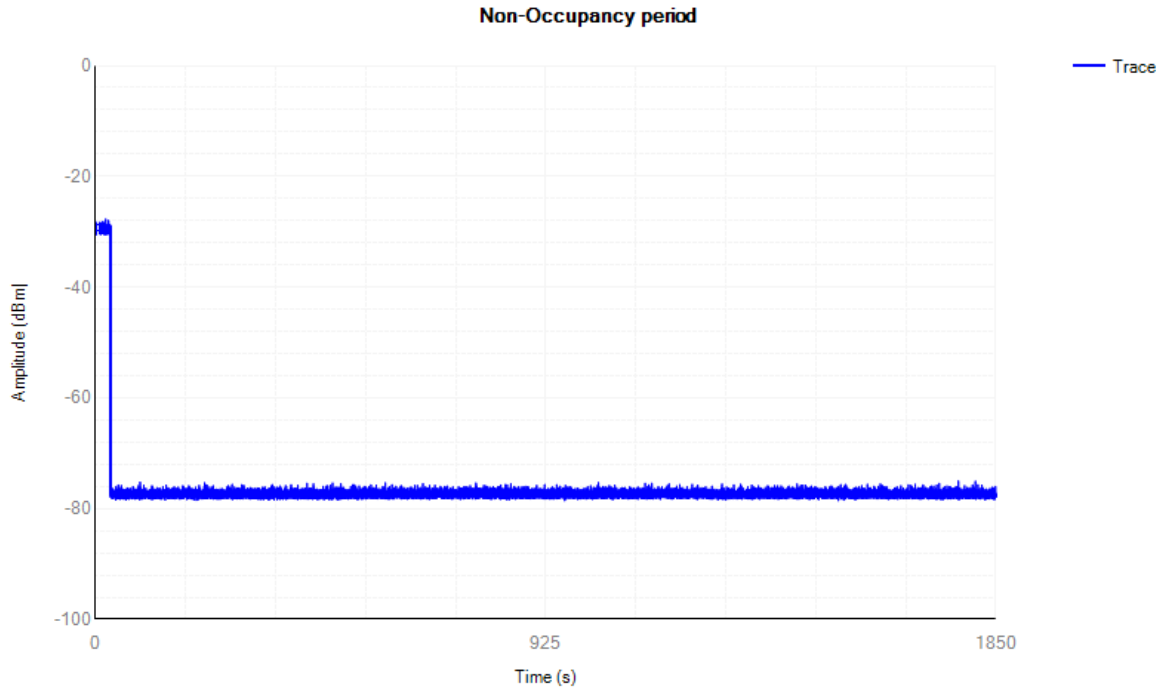
**---------- The following blanks ----------**

Test Graphs

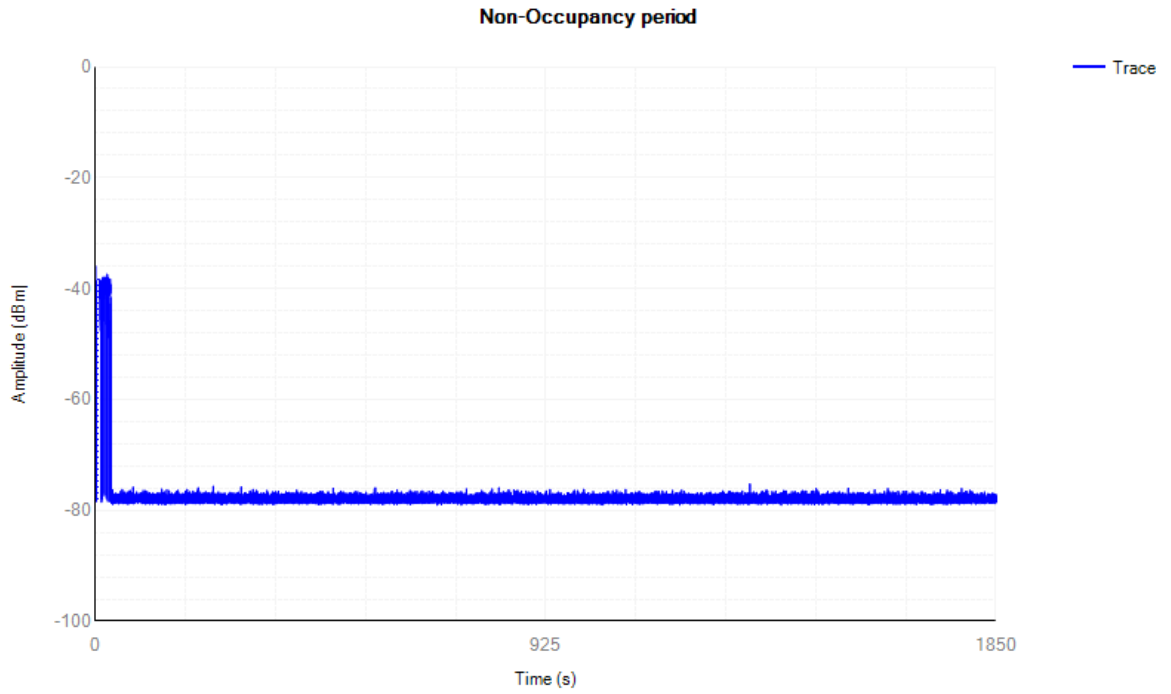
a 5300MHz Non-Occupancy



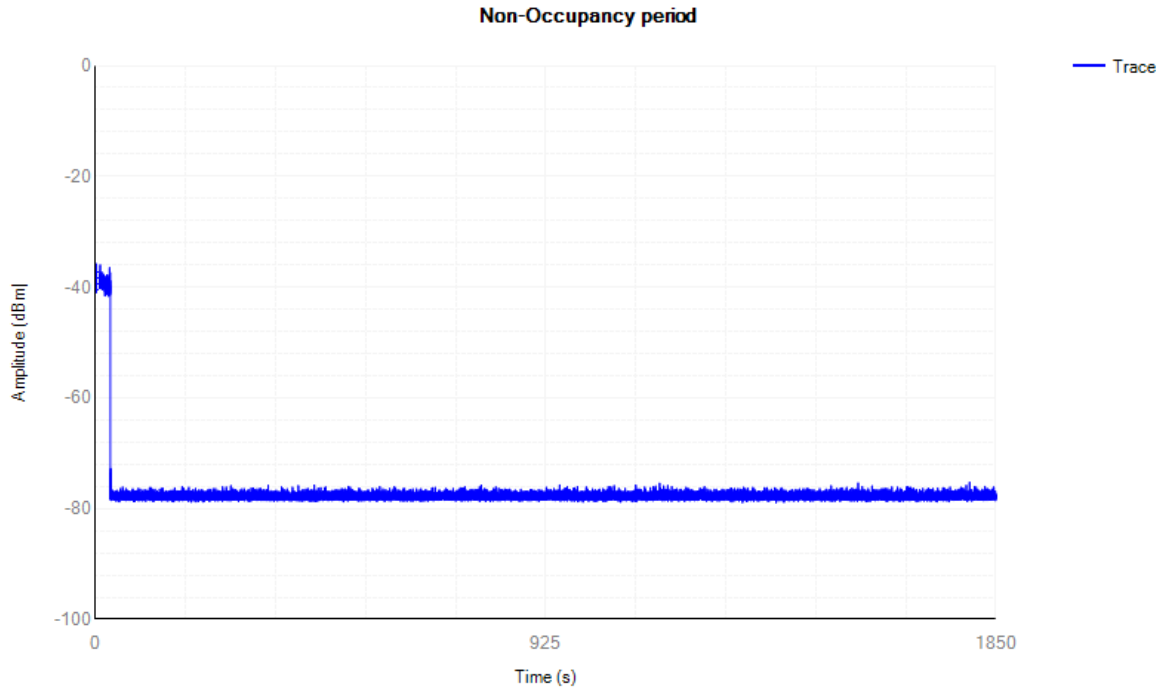

a 5500MHz Non-Occupancy



ac80 5290MHz Non-Occupancy




Ax160 5570MHz Non-Occupancy

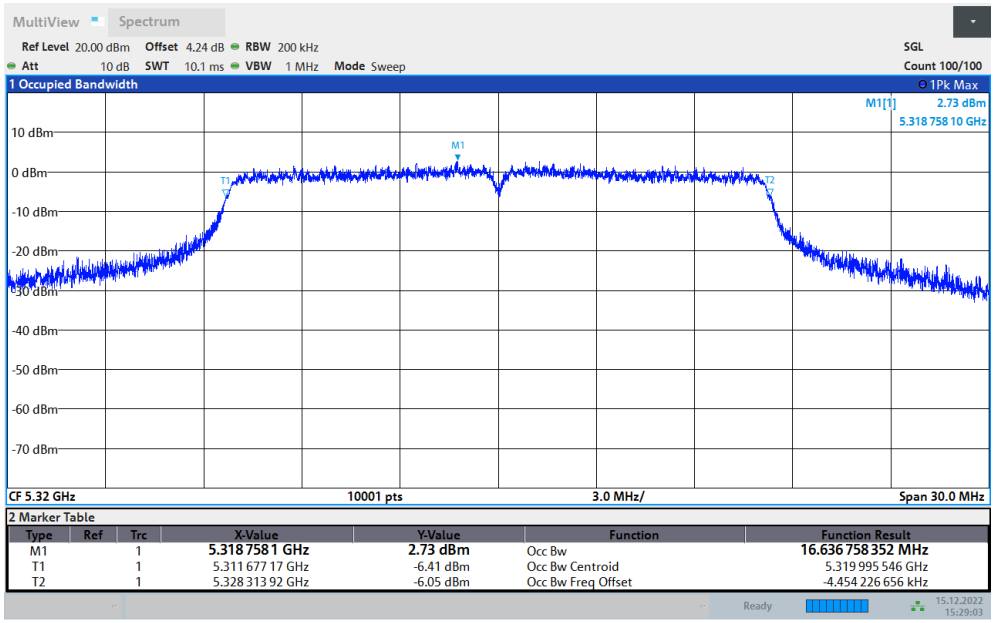


## 7.7 U-NII DETECTION BANDWIDTH TEST RESULT

| Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|
| 802.11a | 5320 | Ant1 | 16.637 |
| 802.11 n40 | 5310 | Ant1 | 36.297 |
| 802.11 ac80 | 5290 | Ant1 | 75.38 |
| 802.11 ax160 | 5250 | Ant1 | 155.26 |
| 802.11 a | 5500 | Ant1 | 16.634 |
| 802.11 n40 | 5510 | Ant1 | 36.311 |
| 802.11 ac80 | 5530 | Ant1 | 75.353 |
| 802.11ax160 | 5570 | Ant1 | 155.525 |

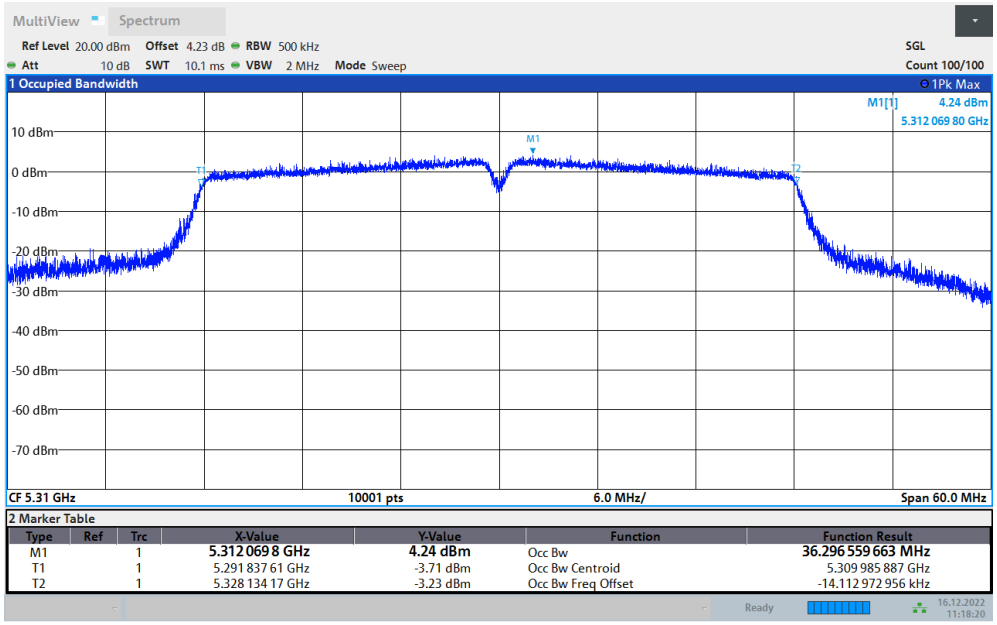
**---------- The following blanks ----------**

**IEEE 802.11a 5320MHz**
**99% Channel Bandwidth**



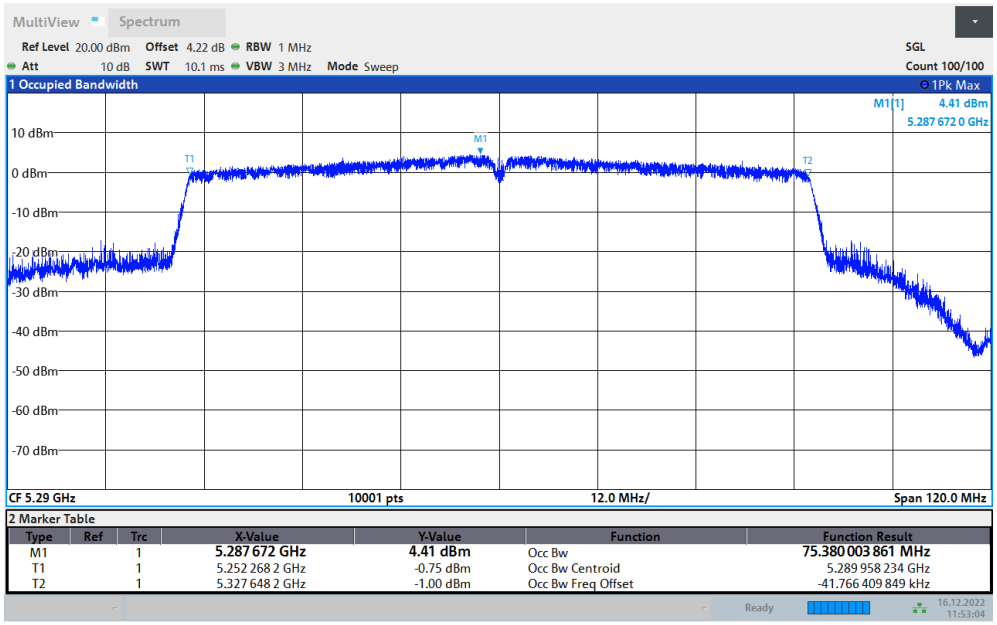

15:29:03 15.12.2022

**IEEE 802.11n HT40 5310MHz**
**99% Channel Bandwidth**



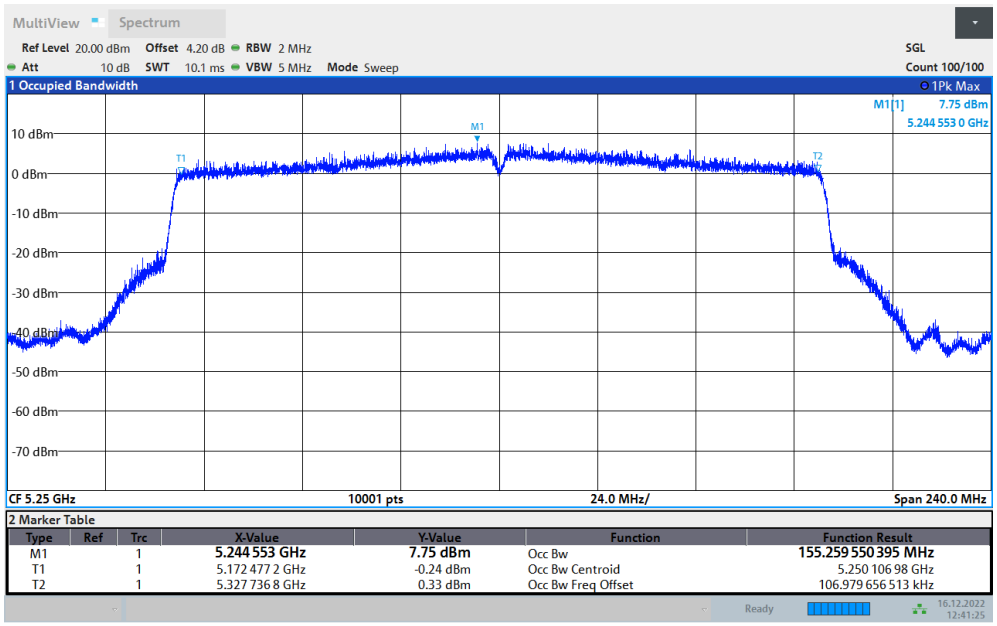

11:18:21 16.12.2022

**IEEE 802.11ac VHT80 5290MHz**
**99% Channel Bandwidth**



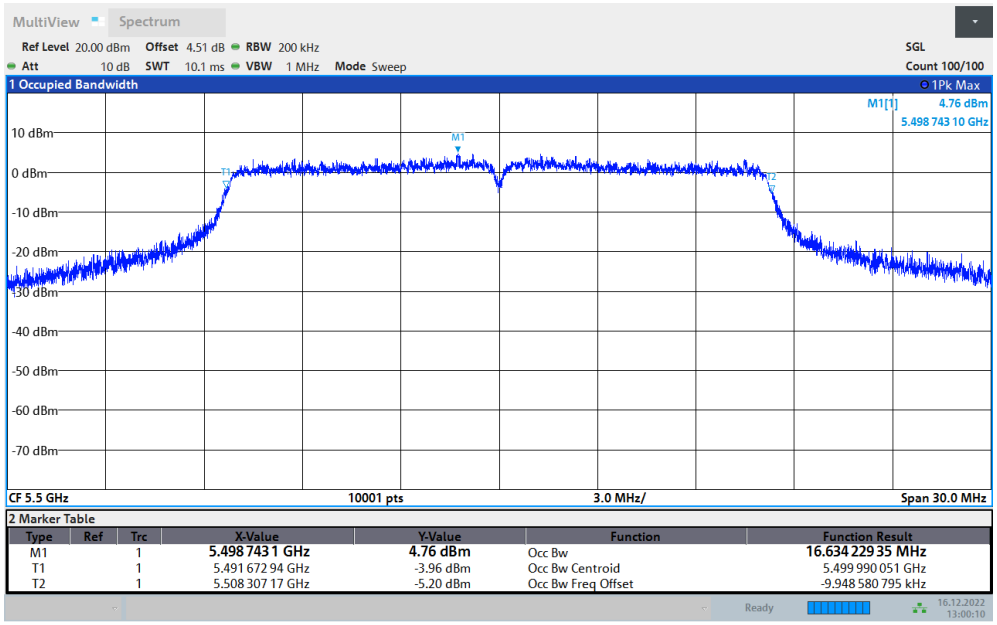

11:53:05 16.12.2022

**IEEE 802.11ax HE160 5250MHz**
**99% Channel Bandwidth**



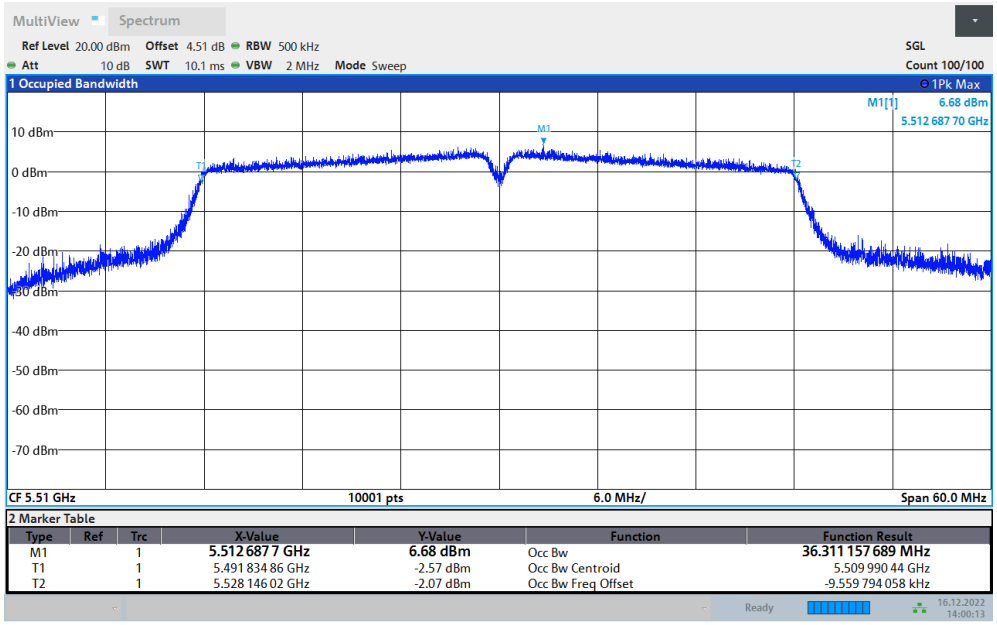

12:41:25 16.12.2022

**IEEE 802.11a 5500MHz**
**99% Channel Bandwidth**



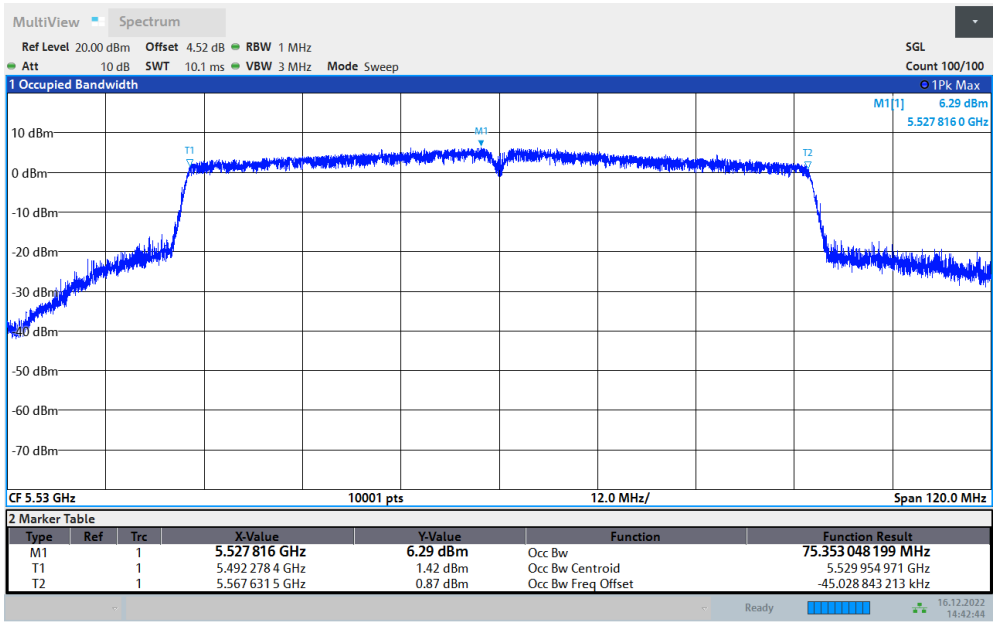

13:00:11 16.12.2022

**IEEE 802.11n HT40 5510MHz**
**99% Channel Bandwidth**



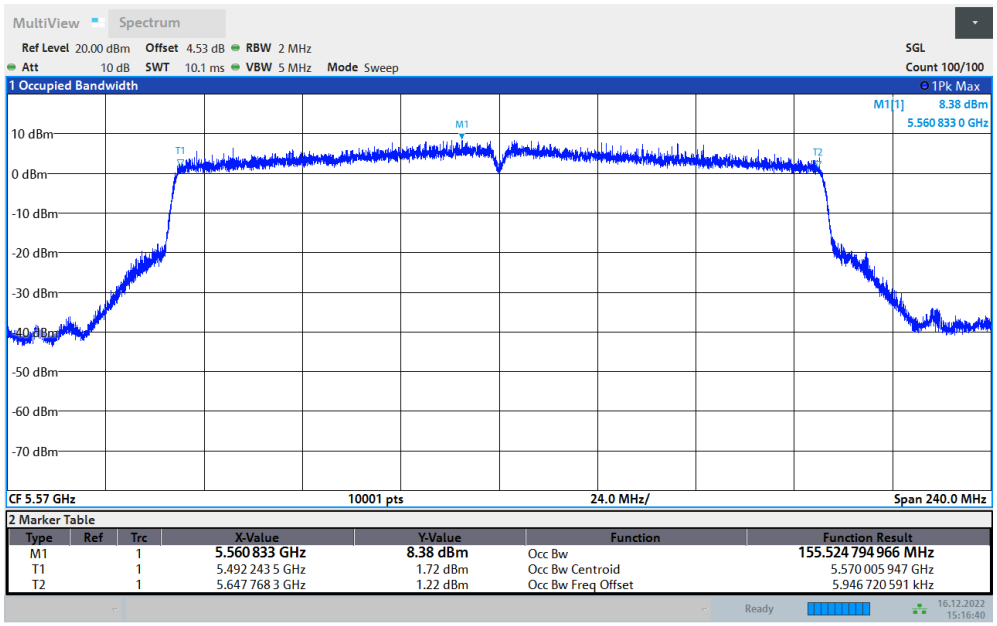

14:00:14 16.12.2022

**IEEE 802.11ac VHT80 5530MHz**
**99% Channel Bandwidth**




14:42:45 16.12.2022

**IEEE 802.11ax HE160 5570MHz**
**99% Channel Bandwidth**




15:16:41 16.12.2022

**IEEE 802.11A 5320MHz**

Detection Bandwidth = $F_H - F_L$=**5331** – **5309** = **22**MHz
EUT 99% Bandwidth = **16.637** MHz (Refer to channel 64)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| a | 5308 | -12 | | 10 | 4 | 40 | 90 |
| a | 5309 | -11 | **FL** | 10 | 10 | 100 | 90 |
| a | 5310 | -10 | | 10 | 10 | 100 | 90 |
| a | 5311 | -9 | | 10 | 10 | 100 | 90 |
| a | 5312 | -8 | | 10 | 10 | 100 | 90 |
| a | 5313 | -7 | | 10 | 10 | 100 | 90 |
| a | 5314 | -6 | | 10 | 10 | 100 | 90 |
| a | 5315 | -5 | | 10 | 10 | 100 | 90 |
| a | 5316 | -4 | | 10 | 10 | 100 | 90 |
| a | 5317 | -3 | | 10 | 10 | 100 | 90 |
| a | 5318 | -2 | | 10 | 10 | 100 | 90 |
| a | 5319 | -1 | | 10 | 10 | 100 | 90 |
| a | 5320 | 0 | | 10 | 10 | 100 | 90 |
| a | 5321 | 1 | | 10 | 10 | 100 | 90 |
| a | 5322 | 2 | | 10 | 10 | 100 | 90 |
| a | 5323 | 3 | | 10 | 10 | 100 | 90 |
| a | 5324 | 4 | | 10 | 10 | 100 | 90 |
| a | 5325 | 5 | | 10 | 10 | 100 | 90 |
| a | 5326 | 6 | | 10 | 10 | 100 | 90 |
| a | 5327 | 7 | | 10 | 10 | 100 | 90 |
| a | 5328 | 8 | | 10 | 10 | 100 | 90 |
| a | 5329 | 9 | | 10 | 10 | 100 | 90 |
| a | 5330 | 10 | | 10 | 10 | 100 | 90 |
| a | 5331 | 11 | **FH** | 10 | 10 | 100 | 90 |
| a | 5332 | 12 | | 10 | 1 | 10 | 90 |

**---------- The following blanks ----------**

**IEEE 802.11n HT40 5310MHz**

Detection Bandwidth = $F_H - F_L$=**5331** – **5289** = **42**MHz
EUT 99% Bandwidth = **36.297** MHz (Refer to channel 62)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| n40 | 5288 | -22 | | 10 | 0 | 0 | 90 |
| n40 | 5289 | -21 | **FL** | 10 | 10 | 100 | 90 |
| n40 | 5290 | -20 | | 10 | 10 | 100 | 90 |
| n40 | 5291 | -19 | | 10 | 10 | 100 | 90 |
| n40 | 5292 | -18 | | 10 | 10 | 100 | 90 |
| n40 | 5293 | -17 | | 10 | 10 | 100 | 90 |
| n40 | 5294 | -16 | | 10 | 10 | 100 | 90 |
| n40 | 5295 | -15 | | 10 | 10 | 100 | 90 |
| n40 | 5296 | -14 | | 10 | 10 | 100 | 90 |
| n40 | 5297 | -13 | | 10 | 10 | 100 | 90 |
| n40 | 5298 | -12 | | 10 | 10 | 100 | 90 |
| n40 | 5299 | -11 | | 10 | 10 | 100 | 90 |
| n40 | 5300 | -10 | | 10 | 10 | 100 | 90 |
| n40 | 5301 | -9 | | 10 | 10 | 100 | 90 |
| n40 | 5302 | -8 | | 10 | 10 | 100 | 90 |
| n40 | 5303 | -7 | | 10 | 10 | 100 | 90 |
| n40 | 5304 | -6 | | 10 | 10 | 100 | 90 |
| n40 | 5305 | -5 | | 10 | 10 | 100 | 90 |
| n40 | 5306 | -4 | | 10 | 10 | 100 | 90 |
| n40 | 5307 | -3 | | 10 | 10 | 100 | 90 |
| n40 | 5308 | -2 | | 10 | 10 | 100 | 90 |
| n40 | 5309 | -1 | | 10 | 10 | 100 | 90 |
| n40 | 5310 | 0 | | 10 | 10 | 100 | 90 |
| n40 | 5311 | 1 | | 10 | 10 | 100 | 90 |
| n40 | 5312 | 2 | | 10 | 10 | 100 | 90 |
| n40 | 5313 | 3 | | 10 | 10 | 100 | 90 |
| n40 | 5314 | 4 | | 10 | 10 | 100 | 90 |
| n40 | 5315 | 5 | | 10 | 10 | 100 | 90 |
| n40 | 5316 | 6 | | 10 | 10 | 100 | 90 |
| n40 | 5317 | 7 | | 10 | 10 | 100 | 90 |
| n40 | 5318 | 8 | | 10 | 10 | 100 | 90 |
| n40 | 5319 | 9 | | 10 | 10 | 100 | 90 |
| n40 | 5320 | 10 | | 10 | 10 | 100 | 90 |
| n40 | 5321 | 11 | | 10 | 10 | 100 | 90 |
| n40 | 5322 | 12 | | 10 | 10 | 100 | 90 |
| n40 | 5323 | 13 | | 10 | 10 | 100 | 90 |
| n40 | 5324 | 14 | | 10 | 10 | 100 | 90 |
| n40 | 5325 | 15 | | 10 | 10 | 100 | 90 |
| n40 | 5326 | 16 | | 10 | 10 | 100 | 90 |
| n40 | 5327 | 17 | | 10 | 10 | 100 | 90 |
| n40 | 5328 | 18 | | 10 | 10 | 100 | 90 |
| n40 | 5329 | 19 | | 10 | 10 | 100 | 90 |
| n40 | 5330 | 20 | | 10 | 10 | 100 | 90 |
| n40 | 5331 | 21 | **FH** | 10 | 10 | 100 | 90 |
| n40 | 5332 | 22 | | 10 | 0 | 0 | 90 |

**IEEE 802.11ac VHT80 5290MHz**

Detection Bandwidth = $F_H - F_L$=**5330** – **5250** =**80**MHz
EUT 99% Bandwidth = **75.38** MHz (Refer to channel 58)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| ac80 | 5249 | -41 | | 10 | 1 | 10 | 90 |
| ac80 | 5250 | -40 | **FL** | 10 | 10 | 100 | 90 |
| ac80 | 5251 | -39 | | 10 | 10 | 100 | 90 |
| ac80 | 5252 | -38 | | 10 | 10 | 100 | 90 |
| ac80 | 5253 | -37 | | 10 | 10 | 100 | 90 |
| ac80 | 5254 | -36 | | 10 | 10 | 100 | 90 |
| ac80 | 5255 | -35 | | 10 | 10 | 100 | 90 |
| ac80 | 5256 | -34 | | 10 | 10 | 100 | 90 |
| ac80 | 5257 | -33 | | 10 | 10 | 100 | 90 |
| ac80 | 5258 | -32 | | 10 | 10 | 100 | 90 |
| ac80 | 5259 | -31 | | 10 | 10 | 100 | 90 |
| ac80 | 5260 | -30 | | 10 | 10 | 100 | 90 |
| ac80 | 5265 | -25 | | 10 | 10 | 100 | 90 |
| ac80 | 5270 | -20 | | 10 | 10 | 100 | 90 |
| ac80 | 5275 | -15 | | 10 | 10 | 100 | 90 |
| ac80 | 5280 | -10 | | 10 | 10 | 100 | 90 |
| ac80 | 5285 | -5 | | 10 | 10 | 100 | 90 |
| ac80 | 5290 | 0 | | 10 | 10 | 100 | 90 |
| ac80 | 5295 | 5 | | 10 | 10 | 100 | 90 |
| ac80 | 5300 | 10 | | 10 | 10 | 100 | 90 |
| ac80 | 5305 | 15 | | 10 | 10 | 100 | 90 |
| ac80 | 5310 | 20 | | 10 | 10 | 100 | 90 |
| ac80 | 5315 | 25 | | 10 | 10 | 100 | 90 |
| ac80 | 5320 | 30 | | 10 | 10 | 100 | 90 |
| ac80 | 5321 | 31 | | 10 | 10 | 100 | 90 |
| ac80 | 5322 | 32 | | 10 | 10 | 100 | 90 |
| ac80 | 5323 | 33 | | 10 | 10 | 100 | 90 |
| ac80 | 5324 | 34 | | 10 | 10 | 100 | 90 |
| ac80 | 5325 | 35 | | 10 | 10 | 100 | 90 |
| ac80 | 5326 | 36 | | 10 | 10 | 100 | 90 |
| ac80 | 5327 | 37 | | 10 | 10 | 100 | 90 |
| ac80 | 5328 | 38 | | 10 | 10 | 100 | 90 |
| ac80 | 5329 | 39 | | 10 | 10 | 100 | 90 |
| ac80 | 5330 | 40 | **FH** | 10 | 10 | 100 | 90 |
| ac80 | 5331 | 41 | | 10 | 0 | 0 | 90 |

**IEEE 802.11ax HE160 5250MHz**

Detection Bandwidth = $F_H - F_L$=**5330** – **5250** = **80**MHz

(160MHz channel (5250MHz) straddle between 5150~5250 and 5250~5350MHz, the DFS ability is necessary in 5250~5350MHz, therefore DFS detection bandwidth start from 5250MHz for 11ax HE160 mode.)

EUT 99% Bandwidth = **155.26** MHz (Refer to channel 50)

Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| ax160 | 5250 | 0 | FL | 10 | 10 | 100 | 90 |
| ax160 | 5255 | 5 | | 10 | 10 | 100 | 90 |
| ax160 | 5260 | 10 | | 10 | 10 | 100 | 90 |
| ax160 | 5265 | 15 | | 10 | 10 | 100 | 90 |
| ax160 | 5270 | 20 | | 10 | 10 | 100 | 90 |
| ax160 | 5275 | 25 | | 10 | 10 | 100 | 90 |
| ax160 | 5280 | 30 | | 10 | 10 | 100 | 90 |
| ax160 | 5290 | 40 | | 10 | 10 | 100 | 90 |
| ax160 | 5300 | 50 | | 10 | 10 | 100 | 90 |
| ax160 | 5310 | 60 | | 10 | 10 | 100 | 90 |
| ax160 | 5320 | 70 | | 10 | 10 | 100 | 90 |
| ax160 | 5321 | 71 | | 10 | 10 | 100 | 90 |
| ax160 | 5322 | 72 | | 10 | 10 | 100 | 90 |
| ax160 | 5323 | 73 | | 10 | 10 | 100 | 90 |
| ax160 | 5324 | 74 | | 10 | 10 | 100 | 90 |
| ax160 | 5325 | 75 | | 10 | 10 | 100 | 90 |
| ax160 | 5326 | 76 | | 10 | 10 | 100 | 90 |
| ax160 | 5327 | 77 | | 10 | 10 | 100 | 90 |
| ax160 | 5328 | 78 | | 10 | 10 | 100 | 90 |
| ax160 | 5329 | 79 | | 10 | 0 | 0 | 90 |
| ax160 | 5330 | 80 | | 10 | 10 | 100 | 90 |
| ax160 | 5331 | 81 | FH | 10 | 10 | 100 | 90 |

**---------- The following blanks ----------**

**IEEE 802.11A 5500MHz**

Detection Bandwidth = $F_H - F_L$=**5511** – **5489** = **22**MHz
EUT 99% Bandwidth = **16.634**MHz (Refer to channel 100)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| a | 5488 | -12 | | 10 | 0 | 0 | 90 |
| a | 5489 | -11 | **FL** | 10 | 10 | 100 | 90 |
| a | 5490 | -10 | | 10 | 10 | 100 | 90 |
| a | 5491 | -9 | | 10 | 10 | 100 | 90 |
| a | 5492 | -8 | | 10 | 10 | 100 | 90 |
| a | 5493 | -7 | | 10 | 10 | 100 | 90 |
| a | 5494 | -6 | | 10 | 10 | 100 | 90 |
| a | 5495 | -5 | | 10 | 10 | 100 | 90 |
| a | 5496 | -4 | | 10 | 10 | 100 | 90 |
| a | 5497 | -3 | | 10 | 10 | 100 | 90 |
| a | 5498 | -2 | | 10 | 10 | 100 | 90 |
| a | 5499 | -1 | | 10 | 10 | 100 | 90 |
| a | 5500 | 0 | | 10 | 10 | 100 | 90 |
| a | 5501 | 1 | | 10 | 10 | 100 | 90 |
| a | 5502 | 2 | | 10 | 10 | 100 | 90 |
| a | 5503 | 3 | | 10 | 10 | 100 | 90 |
| a | 5504 | 4 | | 10 | 10 | 100 | 90 |
| a | 5505 | 5 | | 10 | 10 | 100 | 90 |
| a | 5506 | 6 | | 10 | 10 | 100 | 90 |
| a | 5507 | 7 | | 10 | 10 | 100 | 90 |
| a | 5508 | 8 | | 10 | 10 | 100 | 90 |
| a | 5509 | 9 | | 10 | 10 | 100 | 90 |
| a | 5510 | 10 | | 10 | 10 | 100 | 90 |
| a | 5511 | 11 | **FH** | 10 | 10 | 100 | 90 |
| a | 5512 | 12 | | 10 | 0 | 0 | 90 |

**---------- The following blanks ----------**

**IEEE 802.11n HT40 5510MHz**

Detection Bandwidth =$F_H$ – $F_L$=**5531** – **5489** = **42**MHz
EUT 99% Bandwidth = **36.311** MHz (Refer to channel 102)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| n40 | 5488 | -22 | | 10 | 1 | 10 | 90 |
| n40 | 5489 | -21 | FL | 10 | 10 | 100 | 90 |
| n40 | 5490 | -20 | | 10 | 10 | 100 | 90 |
| n40 | 5491 | -19 | | 10 | 10 | 100 | 90 |
| n40 | 5492 | -18 | | 10 | 10 | 100 | 90 |
| n40 | 5493 | -17 | | 10 | 10 | 100 | 90 |
| n40 | 5494 | -16 | | 10 | 10 | 100 | 90 |
| n40 | 5495 | -15 | | 10 | 10 | 100 | 90 |
| n40 | 5496 | -14 | | 10 | 10 | 100 | 90 |
| n40 | 5497 | -13 | | 10 | 10 | 100 | 90 |
| n40 | 5498 | -12 | | 10 | 10 | 100 | 90 |
| n40 | 5499 | -11 | | 10 | 10 | 100 | 90 |
| n40 | 5500 | -10 | | 10 | 10 | 100 | 90 |
| n40 | 5501 | -9 | | 10 | 10 | 100 | 90 |
| n40 | 5502 | -8 | | 10 | 10 | 100 | 90 |
| n40 | 5503 | -7 | | 10 | 10 | 100 | 90 |
| n40 | 5504 | -6 | | 10 | 10 | 100 | 90 |
| n40 | 5505 | -5 | | 10 | 10 | 100 | 90 |
| n40 | 5506 | -4 | | 10 | 10 | 100 | 90 |
| n40 | 5507 | -3 | | 10 | 10 | 100 | 90 |
| n40 | 5508 | -2 | | 10 | 10 | 100 | 90 |
| n40 | 5509 | -1 | | 10 | 10 | 100 | 90 |
| n40 | 5510 | 0 | | 10 | 10 | 100 | 90 |
| n40 | 5511 | 1 | | 10 | 10 | 100 | 90 |
| n40 | 5512 | 2 | | 10 | 10 | 100 | 90 |
| n40 | 5513 | 3 | | 10 | 10 | 100 | 90 |
| n40 | 5514 | 4 | | 10 | 10 | 100 | 90 |
| n40 | 5515 | 5 | | 10 | 10 | 100 | 90 |
| n40 | 5516 | 6 | | 10 | 10 | 100 | 90 |
| n40 | 5517 | 7 | | 10 | 10 | 100 | 90 |
| n40 | 5518 | 8 | | 10 | 10 | 100 | 90 |
| n40 | 5519 | 9 | | 10 | 10 | 100 | 90 |
| n40 | 5520 | 10 | | 10 | 10 | 100 | 90 |
| n40 | 5521 | 11 | | 10 | 10 | 100 | 90 |
| n40 | 5522 | 12 | | 10 | 10 | 100 | 90 |
| n40 | 5523 | 13 | | 10 | 10 | 100 | 90 |
| n40 | 5524 | 14 | | 10 | 10 | 100 | 90 |
| n40 | 5525 | 15 | | 10 | 10 | 100 | 90 |
| n40 | 5526 | 16 | | 10 | 10 | 100 | 90 |
| n40 | 5527 | 17 | | 10 | 10 | 100 | 90 |
| n40 | 5528 | 18 | | 10 | 10 | 100 | 90 |
| n40 | 5529 | 19 | | 10 | 10 | 100 | 90 |
| n40 | 5530 | 20 | | 10 | 10 | 100 | 90 |
| n40 | 5531 | 21 | FH | 10 | 10 | 100 | 90 |
| n40 | 5532 | 22 | | 10 | 1 | 10 | 90 |

**IEEE 802.11ac VHT80 5530MHz**

Detection Bandwidth = $F_H - F_L$=**5570** – **5490** = **80**MHz
EUT 99% Bandwidth =**75.353** MHz (Refer to channel 106)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| ac80 | 5489 | -41 | | 10 | 0 | 0 | 90 |
| ac80 | 5490 | -40 | **FL** | 10 | 10 | 100 | 90 |
| ac80 | 5491 | -39 | | 10 | 10 | 100 | 90 |
| ac80 | 5492 | -38 | | 10 | 10 | 100 | 90 |
| ac80 | 5493 | -37 | | 10 | 10 | 100 | 90 |
| ac80 | 5494 | -36 | | 10 | 10 | 100 | 90 |
| ac80 | 5495 | -35 | | 10 | 10 | 100 | 90 |
| ac80 | 5496 | -34 | | 10 | 10 | 100 | 90 |
| ac80 | 5497 | -33 | | 10 | 10 | 100 | 90 |
| ac80 | 5498 | -32 | | 10 | 10 | 100 | 90 |
| ac80 | 5499 | -31 | | 10 | 10 | 100 | 90 |
| ac80 | 5500 | -30 | | 10 | 10 | 100 | 90 |
| ac80 | 5505 | -25 | | 10 | 10 | 100 | 90 |
| ac80 | 5510 | -20 | | 10 | 10 | 100 | 90 |
| ac80 | 5515 | -15 | | 10 | 10 | 100 | 90 |
| ac80 | 5520 | -10 | | 10 | 10 | 100 | 90 |
| ac80 | 5525 | -5 | | 10 | 10 | 100 | 90 |
| ac80 | 5530 | 0 | | 10 | 10 | 100 | 90 |
| ac80 | 5535 | 5 | | 10 | 10 | 100 | 90 |
| ac80 | 5540 | 10 | | 10 | 10 | 100 | 90 |
| ac80 | 5545 | 15 | | 10 | 10 | 100 | 90 |
| ac80 | 5550 | 20 | | 10 | 10 | 100 | 90 |
| ac80 | 5555 | 25 | | 10 | 10 | 100 | 90 |
| ac80 | 5560 | 30 | | 10 | 10 | 100 | 90 |
| ac80 | 5561 | 31 | | 10 | 10 | 100 | 90 |
| ac80 | 5562 | 32 | | 10 | 10 | 100 | 90 |
| ac80 | 5563 | 33 | | 10 | 10 | 100 | 90 |
| ac80 | 5564 | 34 | | 10 | 10 | 100 | 90 |
| ac80 | 5565 | 35 | | 10 | 10 | 100 | 90 |
| ac80 | 5566 | 36 | | 10 | 10 | 100 | 90 |
| ac80 | 5567 | 37 | | 10 | 10 | 100 | 90 |
| ac80 | 5568 | 38 | | 10 | 10 | 100 | 90 |
| ac80 | 5569 | 39 | | 10 | 10 | 100 | 90 |
| ac80 | 5570 | 40 | **FH** | 10 | 10 | 100 | 90 |
| ac80 | 5571 | 41 | | 10 | 0 | 0 | 90 |

**IEEE 802.11ax HE160 5570MHz**

Detection Bandwidth = $F_H - F_L$=**5648** – **5492** = **156**MHz
EUT 99% Bandwidth =**155.525**MHz (Refer to channel 114)
Test result: Pass

| Mode | Frequency (MHz) | Offset (MHz) | $F_H/F_L$ | Total No. | Detected No. | Detection Rate (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| ax160 | 5491 | -79 | | 10 | 0 | 0 | 90 |
| ax160 | 5492 | -78 | **FL** | 10 | 10 | 100 | 90 |
| ax160 | 5493 | -77 | | 10 | 10 | 100 | 90 |
| ax160 | 5494 | -76 | | 10 | 10 | 100 | 90 |
| ax160 | 5495 | -75 | | 10 | 10 | 100 | 90 |
| ax160 | 5496 | -74 | | 10 | 10 | 100 | 90 |
| ax160 | 5497 | -73 | | 10 | 10 | 100 | 90 |
| ax160 | 5498 | -72 | | 10 | 10 | 100 | 90 |
| ax160 | 5499 | -71 | | 10 | 10 | 100 | 90 |
| ax160 | 5500 | -70 | | 10 | 10 | 100 | 90 |
| ax160 | 5505 | -65 | | 10 | 10 | 100 | 90 |
| ax160 | 5510 | -60 | | 10 | 10 | 100 | 90 |
| ax160 | 5515 | -55 | | 10 | 10 | 100 | 90 |
| ax160 | 5520 | -50 | | 10 | 10 | 100 | 90 |
| ax160 | 5525 | -45 | | 10 | 10 | 100 | 90 |
| ax160 | 5530 | -40 | | 10 | 10 | 100 | 90 |
| ax160 | 5535 | -35 | | 10 | 10 | 100 | 90 |
| ax160 | 5540 | -30 | | 10 | 10 | 100 | 90 |
| ax160 | 5545 | -25 | | 10 | 10 | 100 | 90 |
| ax160 | 5550 | -20 | | 10 | 10 | 100 | 90 |
| ax160 | 5555 | -15 | | 10 | 10 | 100 | 90 |
| ax160 | 5560 | -10 | | 10 | 10 | 100 | 90 |
| ax160 | 5565 | -5 | | 10 | 10 | 100 | 90 |
| ax160 | 5570 | 0 | | 10 | 10 | 100 | 90 |
| ax160 | 5575 | 5 | | 10 | 10 | 100 | 90 |
| ax160 | 5580 | 10 | | 10 | 10 | 100 | 90 |
| ax160 | 5585 | 15 | | 10 | 10 | 100 | 90 |
| ax160 | 5590 | 20 | | 10 | 10 | 100 | 90 |
| ax160 | 5595 | 25 | | 10 | 10 | 100 | 90 |
| ax160 | 5600 | 30 | | 10 | 10 | 100 | 90 |
| ax160 | 5605 | 35 | | 10 | 10 | 100 | 90 |
| ax160 | 5610 | 40 | | 10 | 10 | 100 | 90 |
| ax160 | 5615 | 45 | | 10 | 10 | 100 | 90 |
| ax160 | 5620 | 50 | | 10 | 10 | 100 | 90 |
| ax160 | 5625 | 55 | | 10 | 10 | 100 | 90 |
| ax160 | 5630 | 60 | | 10 | 10 | 100 | 90 |
| ax160 | 5635 | 65 | | 10 | 10 | 100 | 90 |
| ax160 | 5640 | 70 | | 10 | 10 | 100 | 90 |
| ax160 | 5641 | 71 | | 10 | 10 | 100 | 90 |
| ax160 | 5642 | 72 | | 10 | 10 | 100 | 90 |
| ax160 | 5643 | 73 | | 10 | 10 | 100 | 90 |
| ax160 | 5644 | 74 | | 10 | 10 | 100 | 90 |
| ax160 | 5645 | 75 | | 10 | 10 | 100 | 90 |
| ax160 | 5646 | 76 | | 10 | 10 | 100 | 90 |
| ax160 | 5647 | 77 | | 10 | 10 | 100 | 90 |
| ax160 | 5648 | 78 | **FH** | 10 | 10 | 100 | 90 |
| ax160 | 5649 | 79 | | 10 | 0 | 0 | 90 |

**APPENDIX A. PHOTOGRAPH OF THE EUT**

Please refer to the attached document E202212085403-01-1 EUT Photo.

**---------- End of Report ----------**