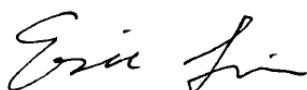


## DFS TEST REPORT

**Application No.:** KSCR2206000907AT  
**FCC ID:** 2A2EX-LS005  
**Applicant:** Luxshare Electronic Technology (Kunshan) Ltd.  
**Address of Applicant:** No. 158, Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province, China  
**Manufacturer:** Luxshare Electronic Technology (Kunshan) Ltd.  
**Address of Manufacturer:** No. 158, Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** WIFI5+BT5.2 Module  
**Model No.:** LS005ONWCS  
**Trade mark:** LUXSHAREICT  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02  
KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02  
KDB 905462 D04 Operational Modes for DFS Testing New Rules v01  
**Date of Receipt:** 2022-06-02  
**Date of Test:** 2022-06-04 to 2022-08-03  
**Date of Issue:** 2022-08-04

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin  
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-08-04		Original

Authorized for issue by:				
		<i>Tommie Tang</i>		
		<u>Tommie_Tang/Project Engineer</u>		
		<i>Eric Lin</i>		
		<u>Eric Lin/Reviewer</u>		



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## 2 Test Summary

Item	Standard	Method	Requirement	Result
Channel Loading	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Detection Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Available Check	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Closing Move Time and Closing Transmission Time	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Non-occupancy period	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Statistical Performance Check	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3.3V			
Operation Frequency	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11
		802.11n(HT40)/ac(VHT40)	5510-5670	5
		802.11ac(VHT80)	5530~5610	2
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz			
Antenna Type:	PCB Antenna			
Antenna Gain:	5150-5250MHz: 3.35dBi(Provided by the manufacturer) 5250-5350MHz: 3.71dBi(Provided by the manufacturer) 5470-5725MHz: 3.83dBi(Provided by the manufacturer) 5725-5850MHz: 3.08dBi(Provided by the manufacturer)			

#### Selected Test Channel for 802.11ac(VHT20)

Band	Channel	Frequency
U-NII Band II-A	60	5300MHz
U-NII Band II-C	116	5580MHz



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Selected Test Channel for 802.11ac(VHT40)		
Band	Channel	Frequency
U-NII Band II-A	62	5310MHz
U-NII Band II-C	110	5550MHz

Selected Test Channel for 802.11ac(VHT80)		
Band	Channel	Frequency
U-NII Band II-A	58	5290MHz
U-NII Band II-C	106	5530MHz



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## 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	Thinkpad T420	/
Notebook	LENOVO	Y7000P	/
LRDI101_EVB_V0.1	Luxshare	/	/



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## 4.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

## 4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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## 4.5 Deviation from Standards

None

## 4.6 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
3	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
4	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
5	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
6	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
7	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
8	Software	BST	TST-PASS	/	N/A	N/A
9	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
10	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
11	Power Divider	AI SI	IOWOPE2068	PE2068	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/16/2022	01/15/2023



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## 6 Dynamic Frequency Selection

### 6.1 Applicability of DFS requirements

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

Requirement	Operational Mode		
	<input checked="" type="checkbox"/> Master	<input type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> 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	
	<input checked="" type="checkbox"/> Master Device or Client with Radar Detection	<input type="checkbox"/> 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	<input checked="" type="checkbox"/> Master Device or Client with Radar Detection	<input type="checkbox"/> 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 $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

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 DFS 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 See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

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 facilitating 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 Parameters of 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.

### 6.4.1 Short 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	Roundup $\left\{ \frac{1}{360} \right\}$	60%	30
		Test B			
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
<p>Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.</p> <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>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</p>					

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.

Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4



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Table 5a - Pulse Repetition Intervals Values for Test A

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



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## 6.4.2 Long Pulse Radar Test Waveform

Table 6 – Long Pulse Radar Test Waveform

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

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  $(12,000,000 / \text{Burst Count})$  microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and  $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$  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.



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- 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).



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## 6.4.3 Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform

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.



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## 6.5 Calibration of Radar Waveform

### 6.5.1 Radar Waveform Calibration Procedure

#### 1. Description of calibration setup

a. Block diagram of equipment setup, clearly identifying if a radiated or conducted method was used.

#### 2. Description of calibration procedure

##### a. Verify DFS Detection Threshold levels

i. Indicate DFS Detection Threshold levels used.

ii. Consider output power range and antenna gain.

b. For the Short Pulse Radar Types, spectrum analyzer plots of the burst of pulses on the Channel frequency should be provided.

c. For the Long Pulse Radar Type, spectrum analyzer plot of a single burst (1-3 pulses) on the Channel frequency should be provided.

d. Describe method used to generate frequency hopping signal.

e. The U-NII Detection Bandwidth

f. For the Frequency Hopping waveform, a spectrum analyzer plot showing 9 pulses on one frequency within the U-NII Detection Bandwidth should be provided.

g. Verify use of vertical polarization for testing when using a radiated test method.

3. When testing a Client Device with radar detection capability, verify that the Client Device is responding independently based on the Client Device's self-detection rather than responding to the Master Device. If required, provide a description of the method used to isolate the client from the transmissions from the Master Device to ensure Client Device self detection of the Radar Waveform.



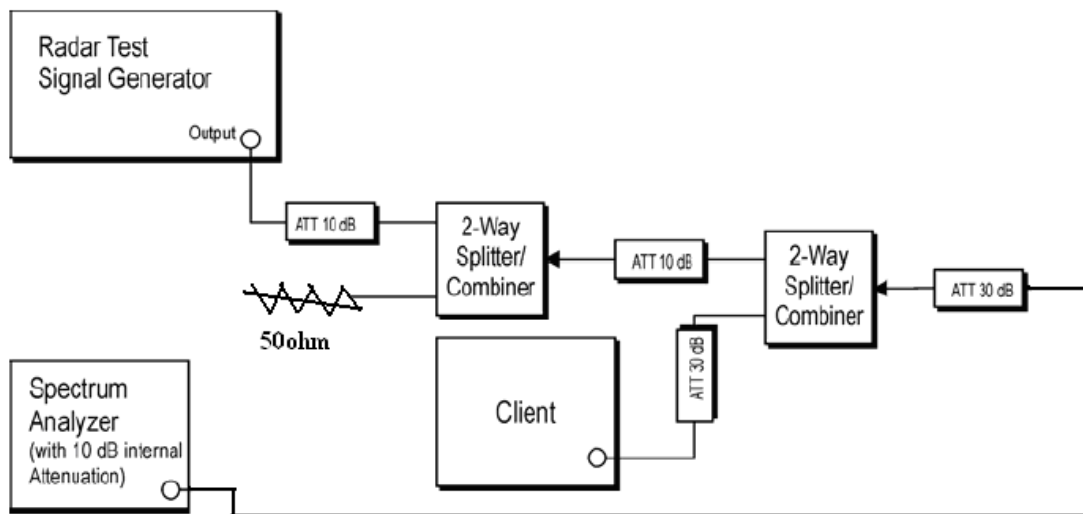
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### 6.5.2 Conducted Calibration Setup



Remark: During the test, a lower radar signal level -62dBm was used.



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### 6.6 Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

<input type="checkbox"/>	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
<input type="checkbox"/>	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
<input checked="" type="checkbox"/>	c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.
<input type="checkbox"/>	d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

### 6.7 Test Procedure

#### 6.7.1 U-NII Detection Bandwidth

Set up the generating equipment as shown in Figure 1, or equivalent. Set up the DFS timing monitoring equipment as shown in Figure 1. Set up the overall system for either radiated or conducted coupling to the UUT.

Adjust the equipment to produce a single Burst of the Short Pulse Radar Type 1 at the center frequency of the UUT Operating Channel at the specified DFS Detection Threshold level.

Set the UUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio of 0%/100% during this test. Generate a single radar Burst, and note the response of the UUT. Repeat for a minimum of 10 trials. The UUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion.

Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 1 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

Starting at the center frequency of the UUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 4. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance. The U-NII Detection Bandwidth is calculated as follows:

$$U\text{-NII Detection Bandwidth} = FH - FL$$

The U-NII Detection Bandwidth must meet the U-NII Detection Bandwidth criterion. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting Radar Waveforms across the same frequency spectrum that contains the significant energy from the system. In the case that the U-NII Detection Bandwidth is greater than or equal to the 99 percent power bandwidth for the measured FH and FL, the test can be truncated and the U-NII Detection Bandwidth can be reported as the measured FH and FL.



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### 6.7.2 Channel Availability Check

The Initial Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms and only needs to be performed one time.

a) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the UUT is powered on, the spectrum analyzer will be set to zero span modes with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.

b) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle. This measurement can be used to determine the length of the power-on cycle if it is not supplied by the manufacturer. If the spectrum analyzer sweep is started at the same time the UUT is powered on and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined

by comparing the two times.

### 6.7.3 Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time. This is illustrated as shown below.

a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.

b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (T<sub>power\_up</sub>). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + T<sub>ch\_avail\_check</sub>.

c) A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at T1. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

d) Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.

e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

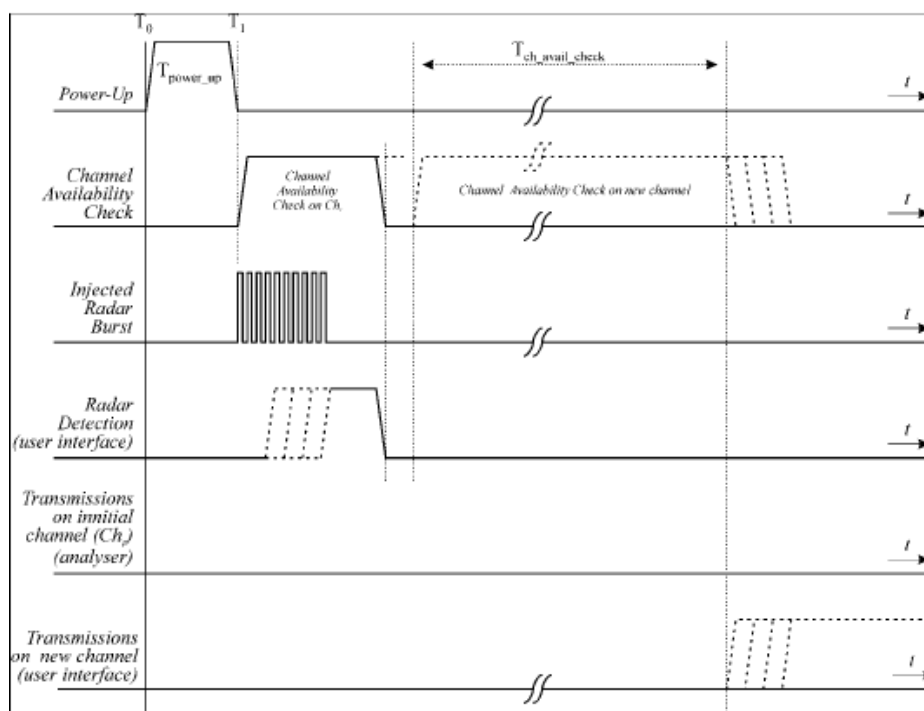


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### 6.7.4 Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1dB occurs at the end of the Channel Availability Check Time. This is illustrated as shown below.

- The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.
- The UUT is powered on at  $T_0$ .  $T_1$  denotes the instant when the UUT has completed its power-up sequence ( $T_{power\_up}$ ). The Channel Availability Check Time commences on  $Ch_r$  at instant  $T_1$  and will end no sooner than  $T_1 + T_{ch\_avail\_check}$ .
- A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at  $T_1 + 54$  seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- Visual indication or measured results on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of  $Ch_r$  for UUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
- Verify that during the 2.5 minute measurement window no UUT transmissions occurred on  $Ch_r$ . The Channel Availability Check results will be recorded.



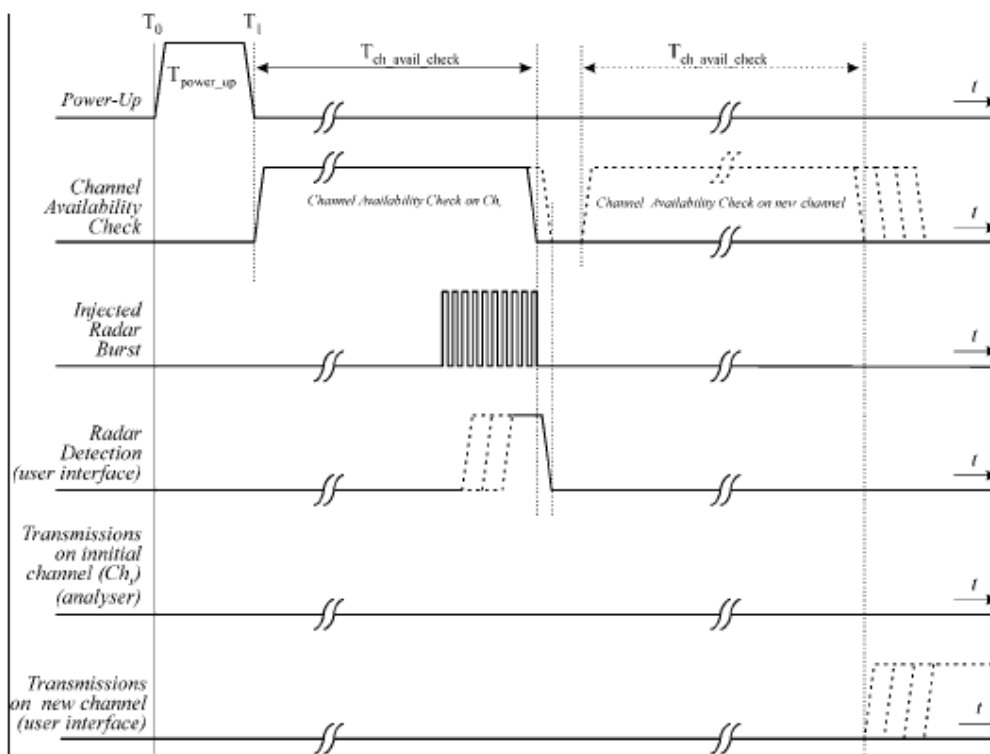
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### 6.7.5 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during In-Service Monitoring;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the UNII device (In- Service Monitoring).

a) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.

b) In case the UUT is a U-NII device operating as a Client Device (with or without DFS), a UNII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.



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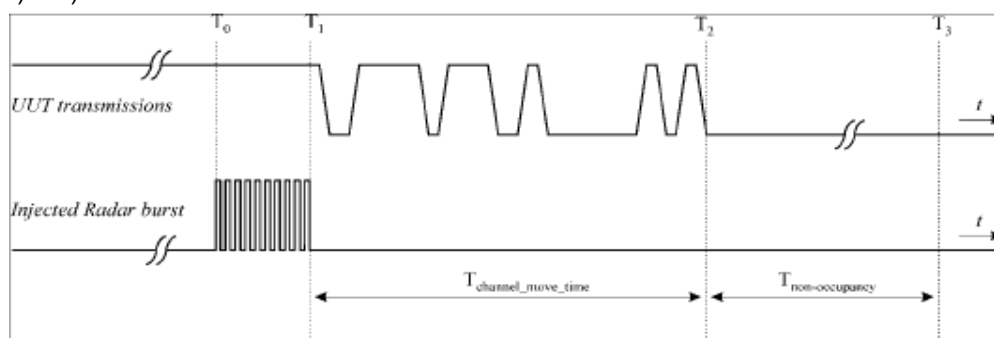
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- d) At time  $T_0$  the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure shown below illustrates Channel Closing Transmission Time.
- f) When operating as a Master Device, monitor the UUT for more than 30 minutes following instant  $T_2$  to verify that the UUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.
- g) In case the UUT is U-NII device operating as Client Device with In-Service Monitoring, perform steps a) to f).



### 6.7.6 Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of successful detection requirements when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In-Service Monitoring).

- a) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- d) At time  $T_0$  the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels defined shown above, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs.



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- f) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
- g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).



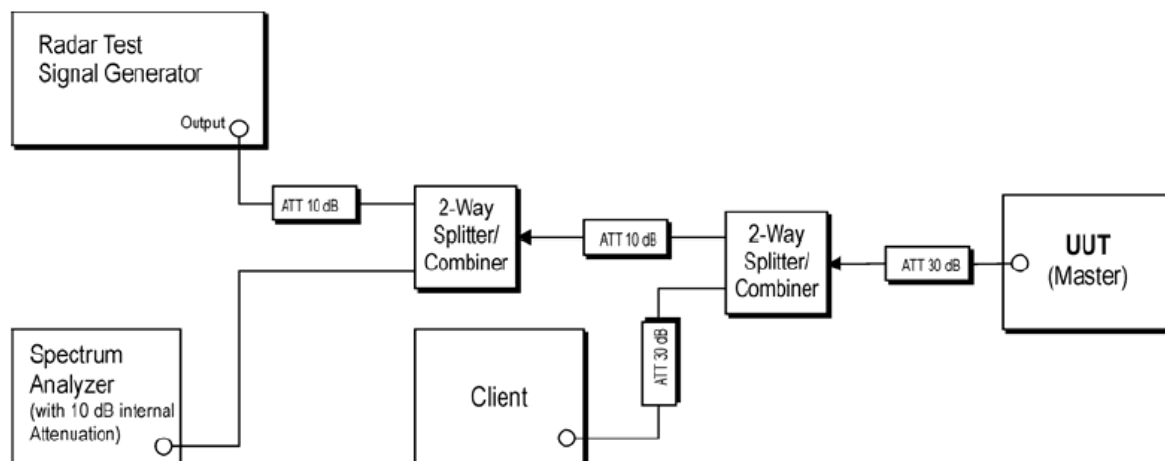
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### 6.8 Test Setup



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## 6.9 Test Result

Please Refer to Appendix for Details



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## 7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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## Appendix for KSCR2206000907AT-FCC-DFS

### 1. Signal Calibration

#### 1.1 SC

##### 1.1.1 Test Result

Band: 2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration		Verdict
			Type	Trial Id	Result	Limit	
802.11ac (VHT80)	80	5290	0	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
			2	0	Refer To Test Graph		Pass
			3	0	Refer To Test Graph		Pass
			4	0	Refer To Test Graph		Pass
			5	0	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass



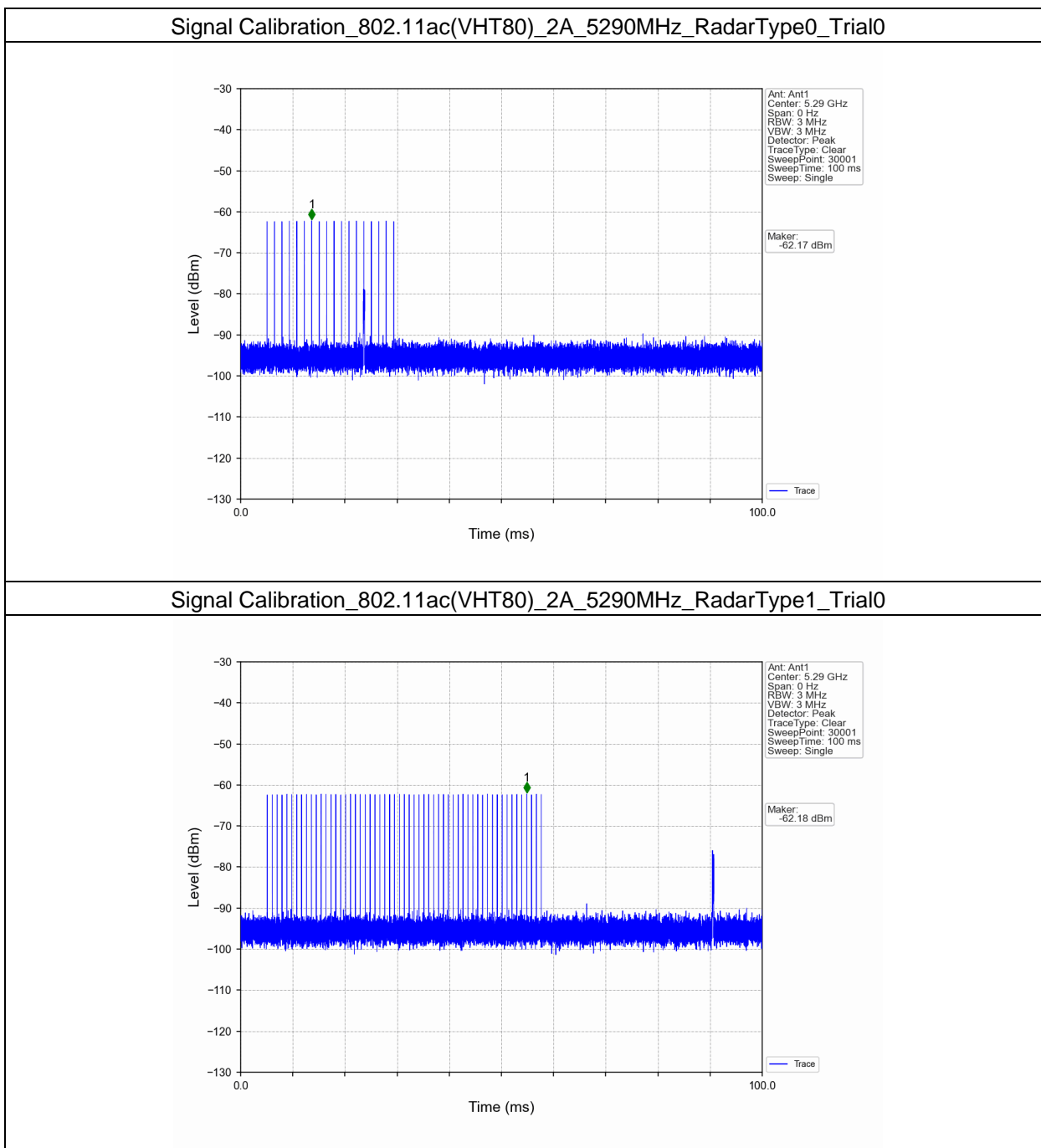
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### 1.1.2 Test Graph



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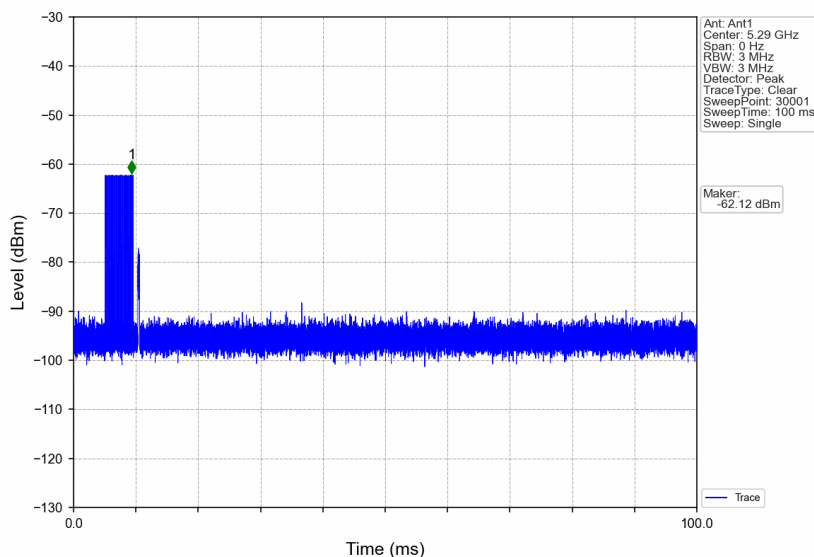
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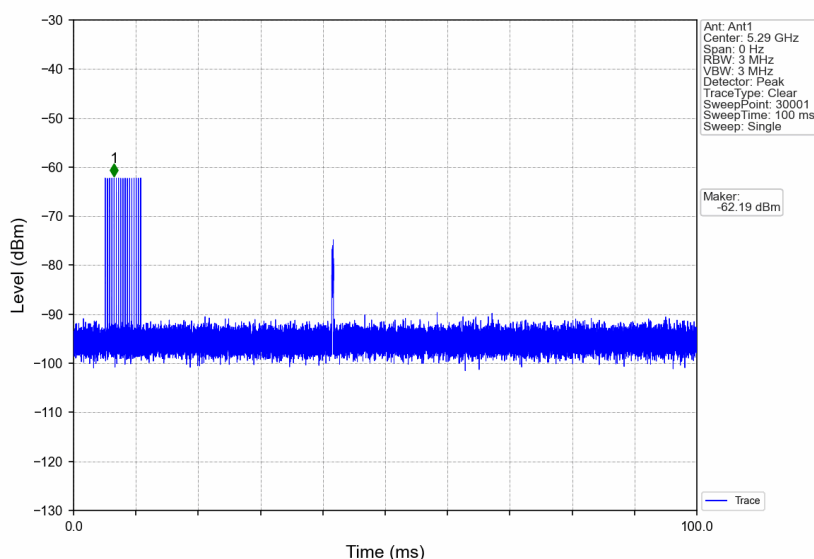
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### Signal Calibration\_802.11ac(VHT80)\_2A\_5290MHz\_RadarType2\_Trial0



### Signal Calibration\_802.11ac(VHT80)\_2A\_5290MHz\_RadarType3\_Trial0



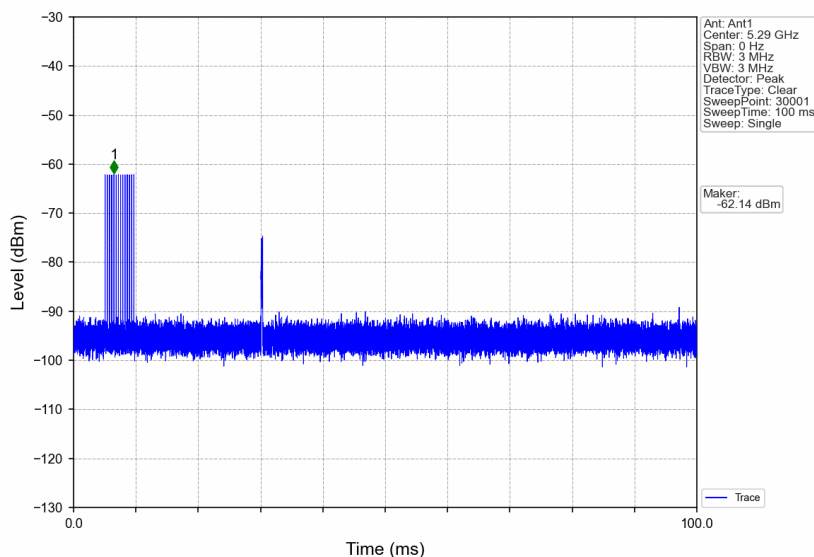
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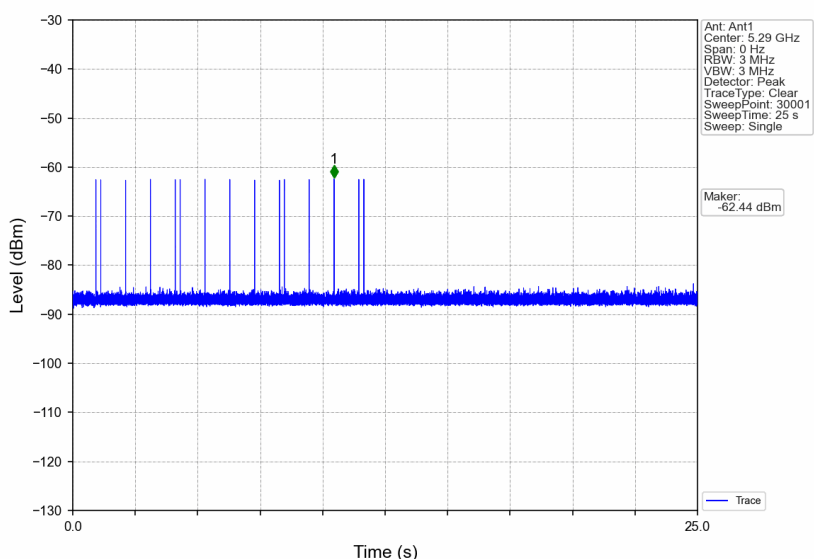
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### Signal Calibration\_802.11ac(VHT80)\_2A\_5290MHz\_RadarType4\_Trial0



### Signal Calibration\_802.11ac(VHT80)\_2A\_5290MHz\_RadarType5\_Trial0



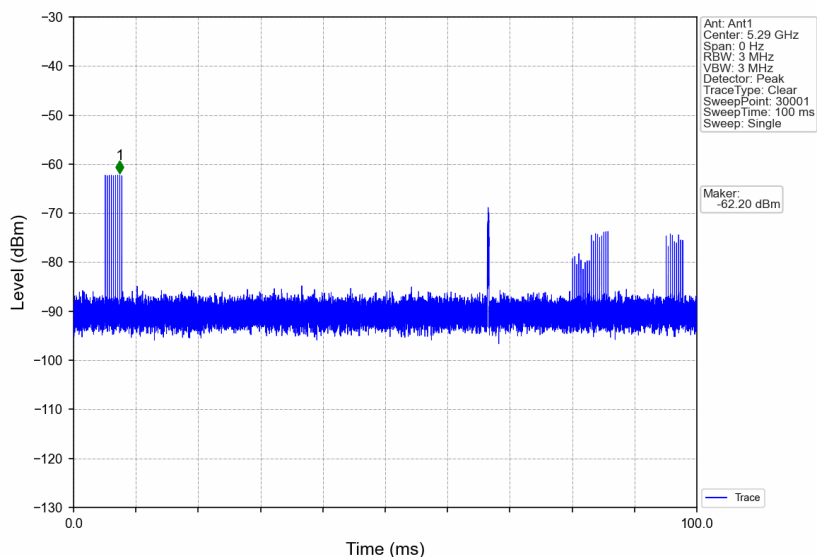
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### Signal Calibration\_802.11ac(VHT80)\_2A\_5290MHz\_RadarType6\_Trial0



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## 1.2 SC

### 1.2.1 Test Result

Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT80)	80	5530	0	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
			2	0	Refer To Test Graph	Pass
			3	0	Refer To Test Graph	Pass
			4	0	Refer To Test Graph	Pass
			5	0	Refer To Test Graph	Pass
			6	0	Refer To Test Graph	Pass



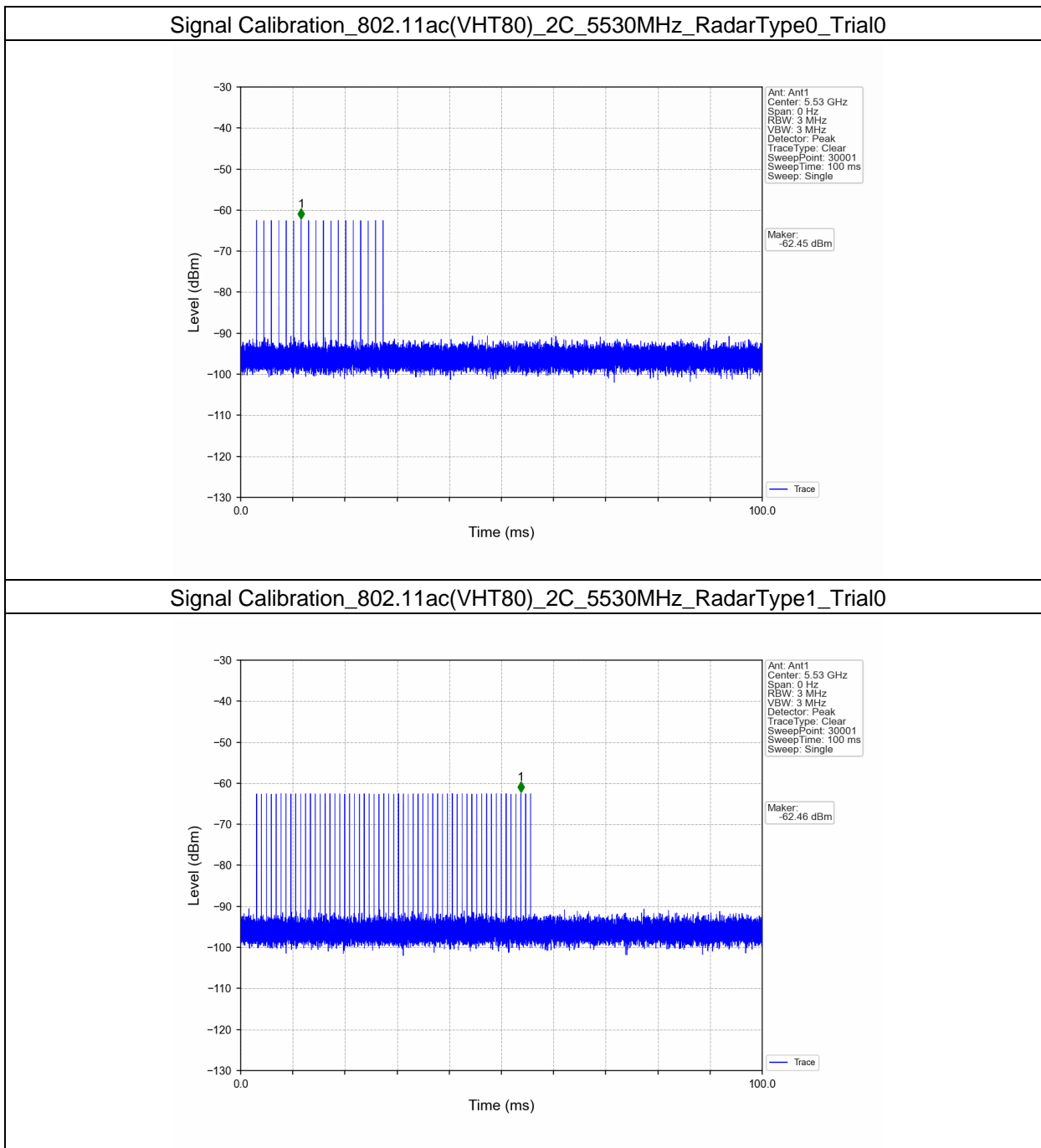
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### 1.2.2 Test Graph



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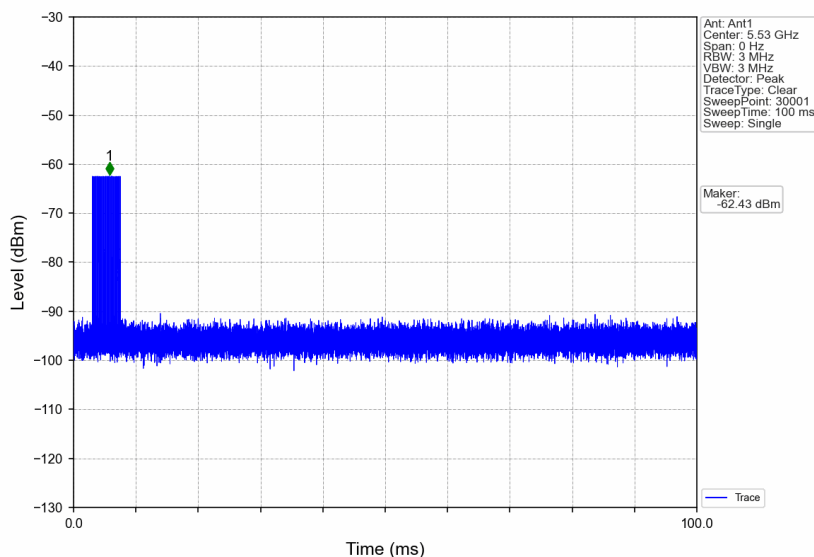
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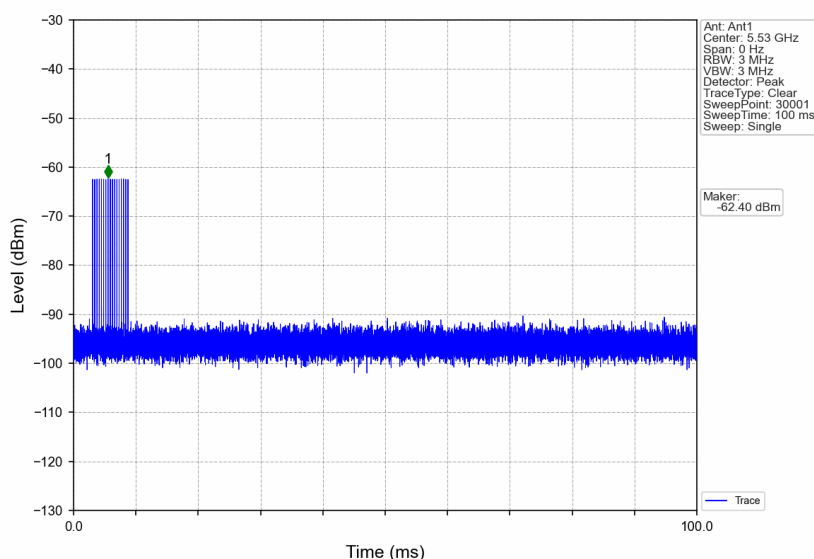
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Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType2\_Trial0



Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType3\_Trial0



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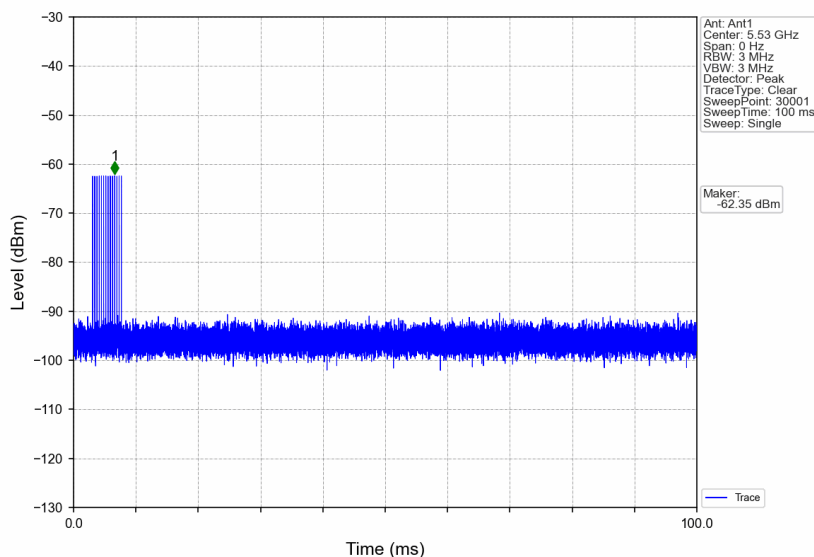
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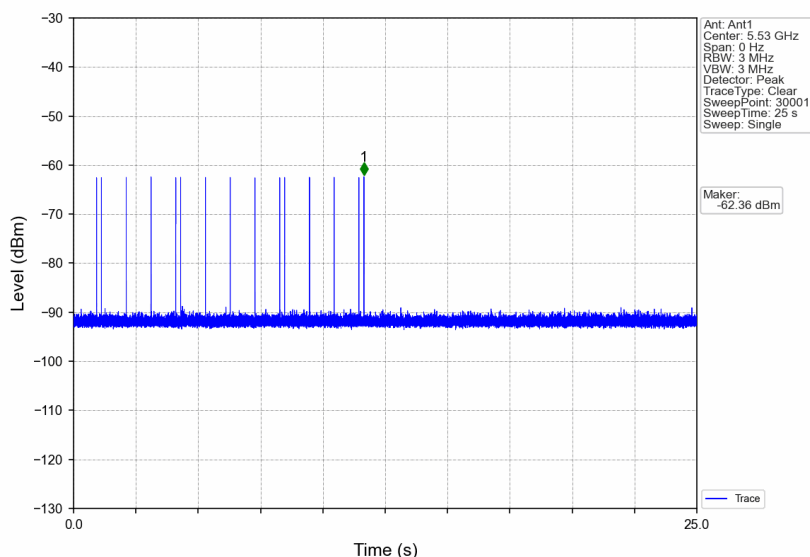
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### Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType4\_Trial0



### Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType5\_Trial0



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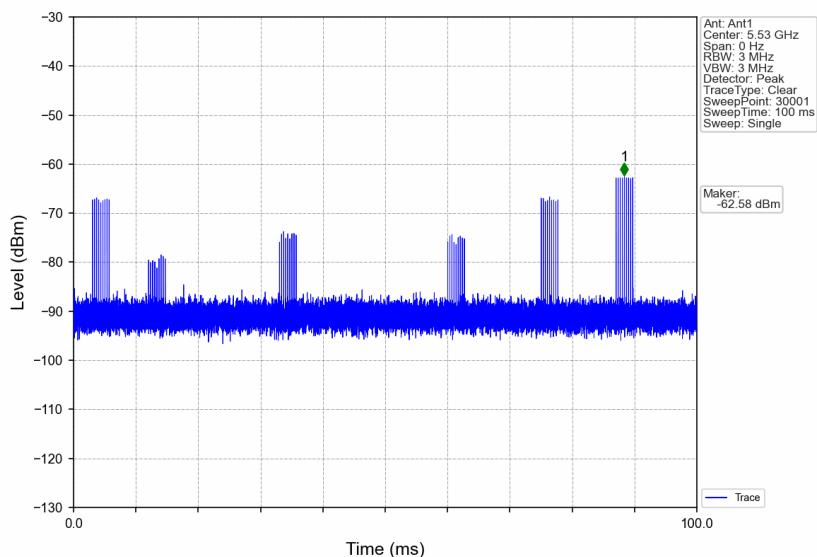
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### Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType6\_Trial0



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## 2. Channel Loading (Payload)

### 2.1 Payload

#### 2.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	20.75	$\geq 17$	Pass



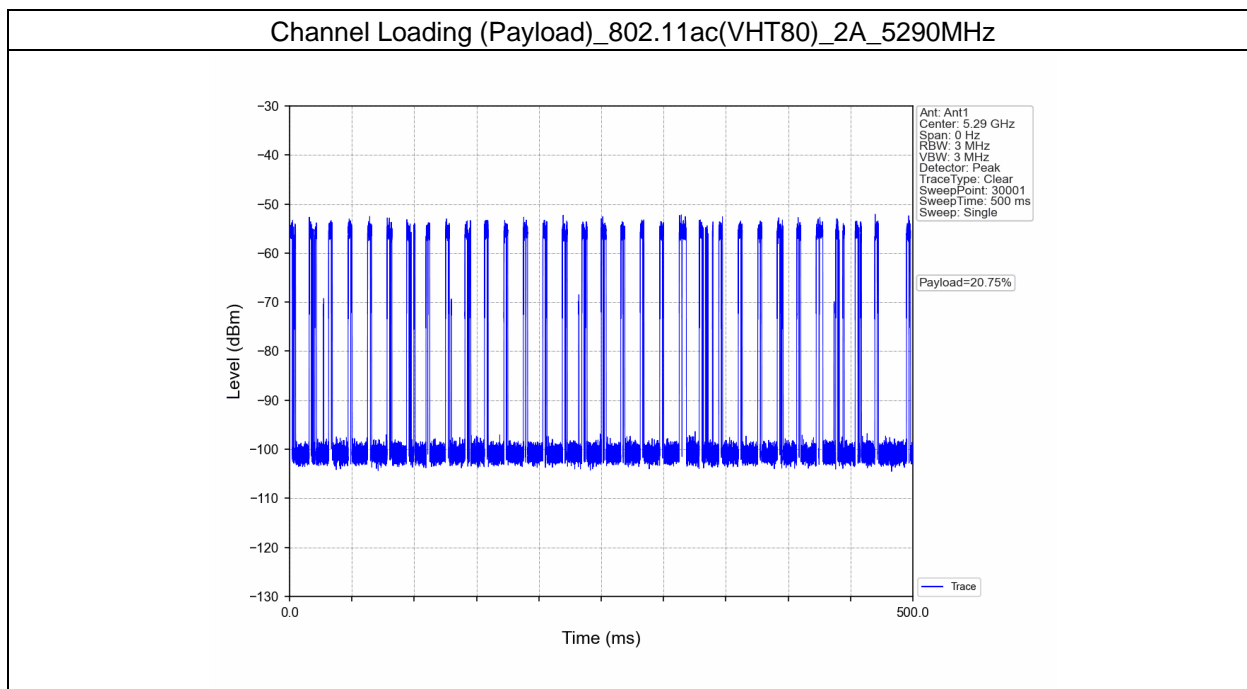
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### 2.1.2 Test Graph



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## 2.2 Payload

### 2.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	24.29	>=17	Pass



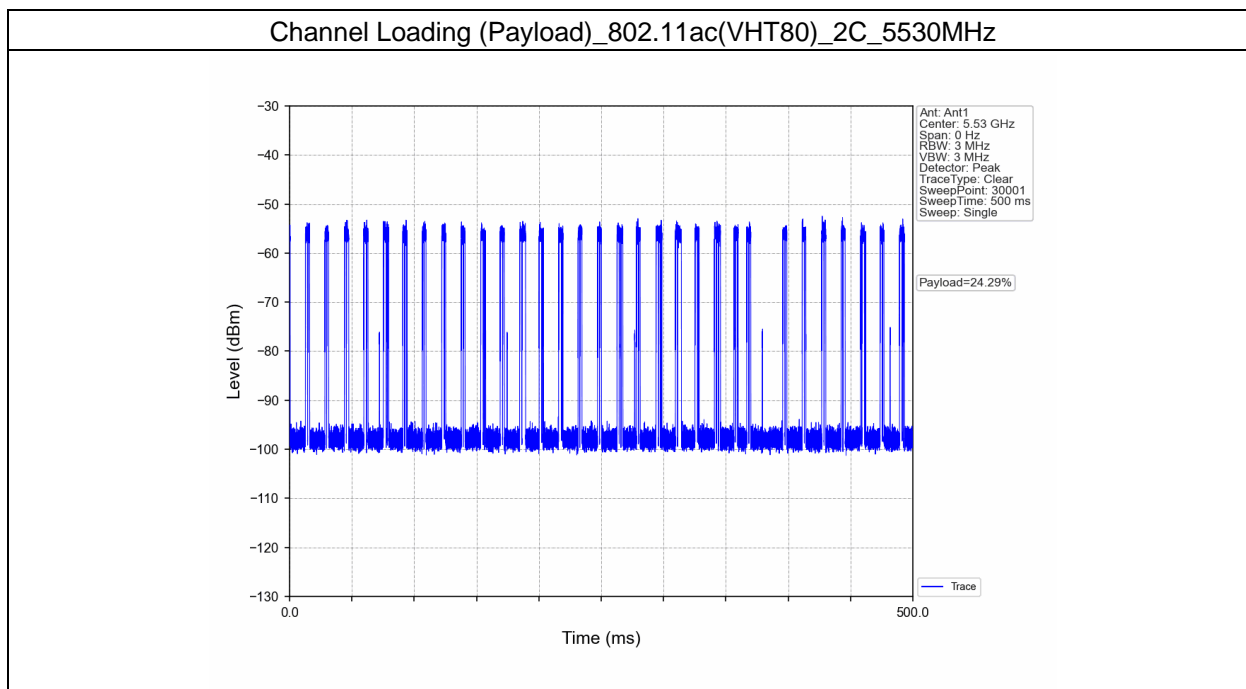
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## 3. U-NII Detection Bandwidth

### 3.1 20MHz\_5300MHz

#### 3.1.1 Test Result

Band: 2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT20)	20	5300	5290.000	5310.000	20.000	18.158	Pass

### 3.2 20MHz\_5300MHz\_Data

#### 3.2.1 Test Result

Band: 2A / Bandwidth: 20MHz / Frequency: 5300MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5285	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass
5290	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=60	Pass
5295	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5305	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5310	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=60	Pass
5315	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass

### 3.3 40MHz\_5310MHz

#### 3.3.1 Test Result

Band: 2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT40)	40	5310	5290.000	5330.000	40.000	36.771	Pass

### 3.4 40MHz\_5310MHz\_Data

#### 3.4.1 Test Result



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Band: 2A / Bandwidth: 40MHz / Frequency: 5310MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5285	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass
5290	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=60	Pass
5295	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5300	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5305	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5315	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5320	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5325	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5330	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=60	Pass
5335	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass

### 3.5 80MHz\_5290MHz

#### 3.5.1 Test Result

Band: 2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT80)	80	5290	5250.000	5330.000	80.000	76.501	Pass

### 3.6 80MHz\_5290MHz\_Data

#### 3.6.1 Test Result

Band: 2A / Bandwidth: 80MHz / Frequency: 5290MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5245	N	N	N	N	N	N	N	N	N	N	0.00	N	/	Pass
5250	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5255	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5260	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5265	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5270	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5275	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass



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5280	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5285	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5295	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5300	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5305	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5310	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5315	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5320	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5325	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5330	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5335	N	N	N	N	N	N	N	N	N	N	0.00	N	/	Pass

## 3.7 20MHz\_5580MHz

### 3.7.1 Test Result

Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT20)	20	5580	5570.000	5590.000	20.000	18.149	Pass

## 3.8 20MHz\_5580MHz\_Data

### 3.8.1 Test Result

Band: 2C / Bandwidth: 20MHz / Frequency: 5580MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5565	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass
5570	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=60	Pass
5575	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5585	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5590	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=60	Pass
5595	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass

## 3.9 40MHz\_5550MHz

### 3.9.1 Test Result



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Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT40)	40	5550	5530	5570	40.000	36.869	Pass

## 3.10 40MHz\_5550MHz\_Data

### 3.10.1 Test Result

Band: 2C / Bandwidth: 40MHz / Frequency: 5550MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5525	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass
5530	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=60	Pass
5535	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5540	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5545	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5555	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5560	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5565	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=60	Pass
5570	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=60	Pass
5575	N	N	N	N	N	N	N	N	N	N	0.00	/	/	Pass

## 3.11 80MHz\_5530MHz

### 3.11.1 Test Result

Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)				Verdict
			FL	FH	Result	Limit	
802.11ac (VHT80)	80	5530	5490	5570	80.000	76.744	Pass

## 3.12 80MHz\_5530MHz\_Data

### 3.12.1 Test Result

Band: 2C / Bandwidth: 80MHz / Frequency: 5530MHz / RadarType: 0														
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--



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Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5485	N	N	N	N	N	N	N	N	N	N	0.00	N	/	Pass
5490	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5535	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5540	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5545	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5550	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5555	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5560	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5565	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5570	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	Y	>=60	Pass
5575	N	N	N	N	N	N	N	N	N	N	0.00	N	/	Pass

## 4. Channel Available Check\_init

### 4.1 CAC\_init

#### 4.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_init (s)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	60.700	>=60	Pass



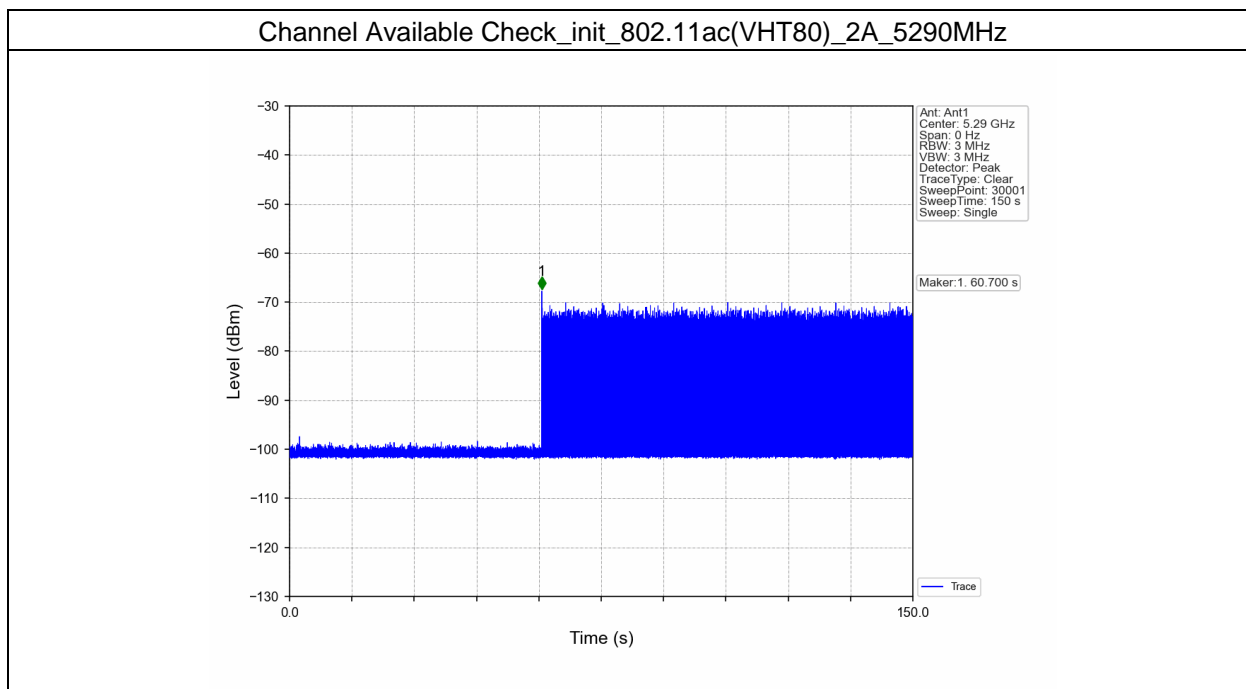
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### 4.1.2 Test Graph



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## 4.2 CAC\_init

## 4.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_init (s)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	61.235	>=60	Pass



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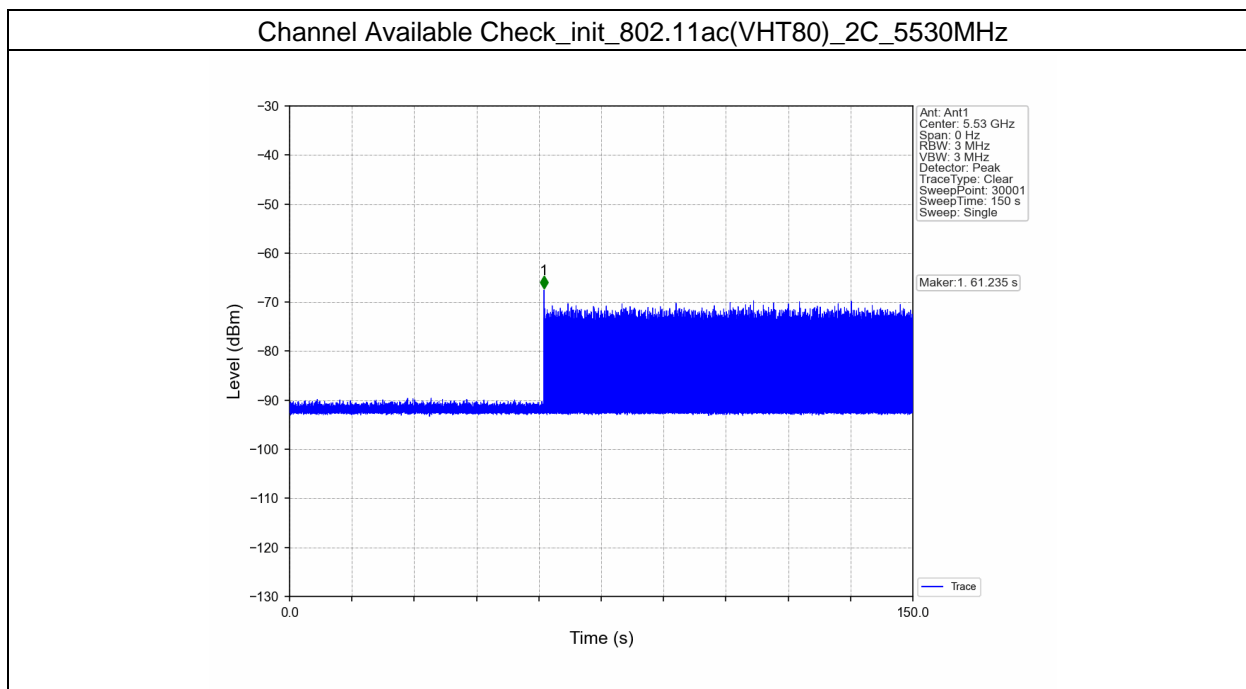
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## 5. Channel Available Check\_Beginning

## 5.1 CAC\_Begin

## 5.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_Beginning		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass



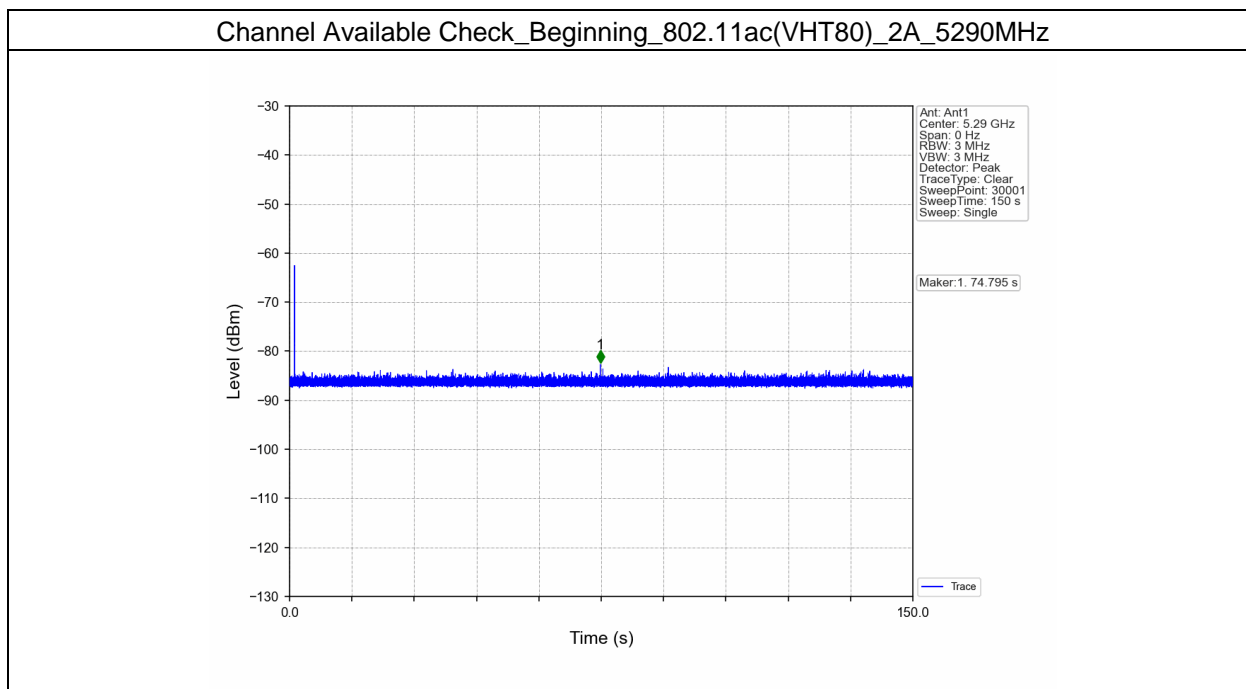
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### 5.1.2 Test Graph



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## 5.2 CAC\_Begin

### 5.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_Beginning		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass



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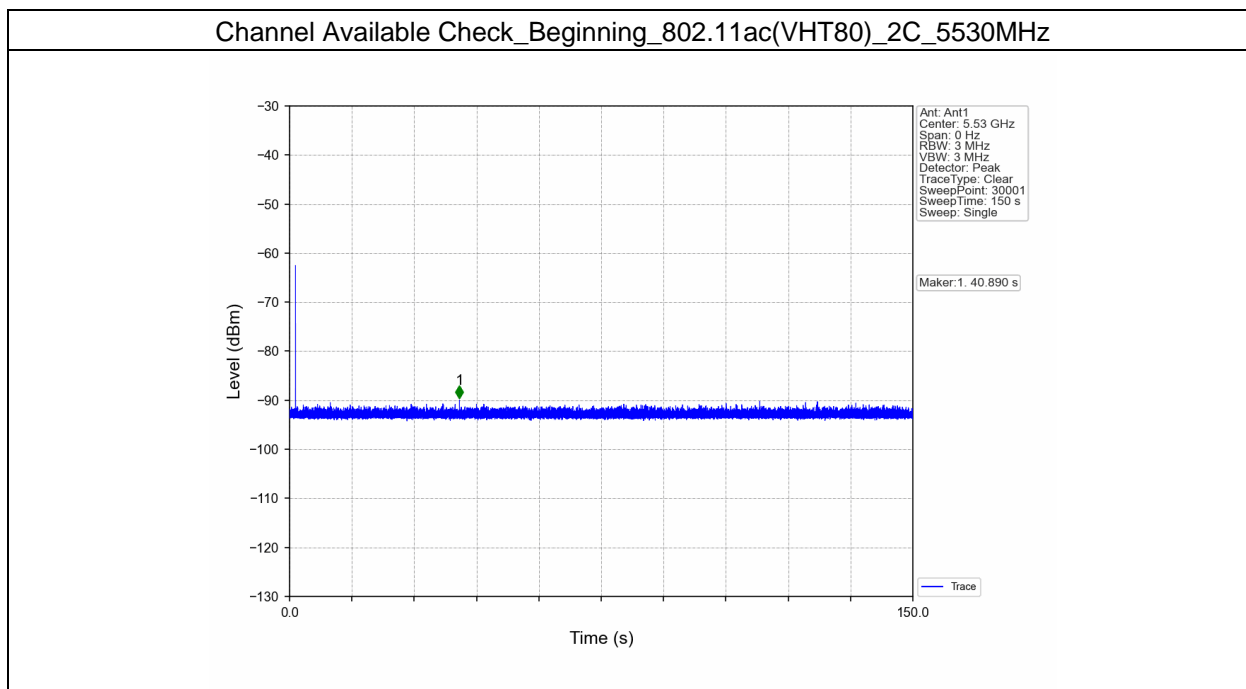
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### 5.2.2 Test Graph



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## 6. Channel Available Check\_Ending

## 6.1 CAC\_End

## 6.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_Ending		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass

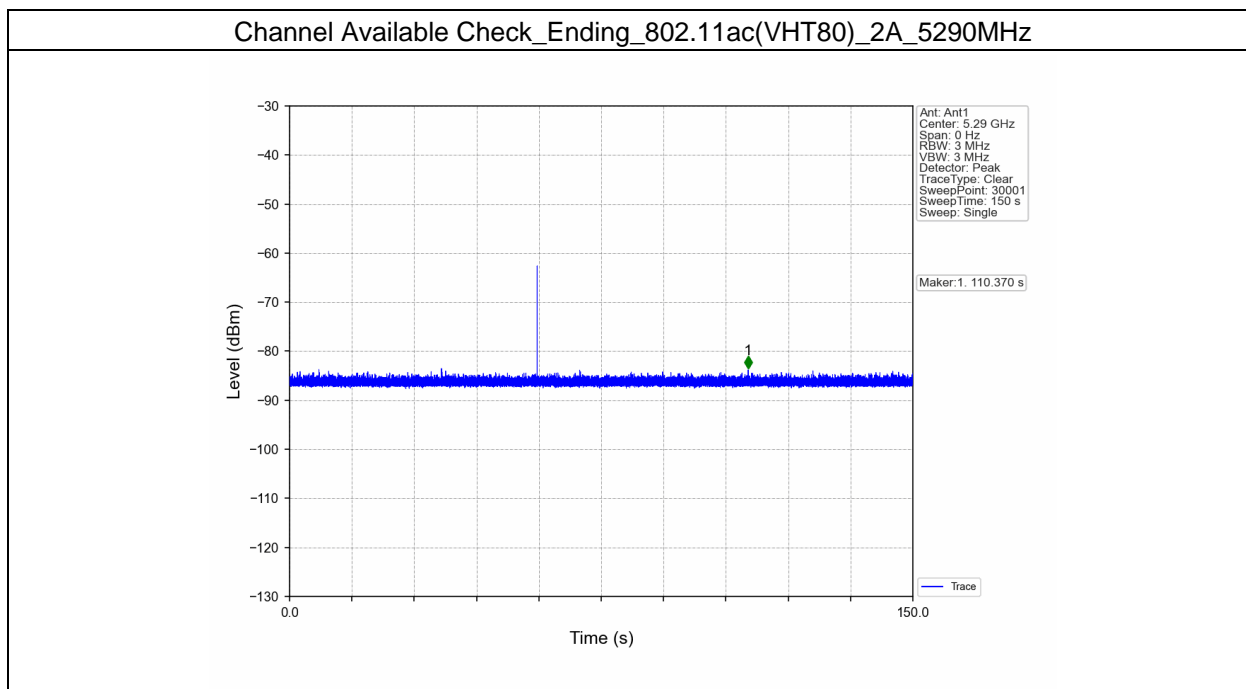


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### 6.1.2 Test Graph



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## 6.2 CAC\_End

### 6.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Available Check_Ending		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass



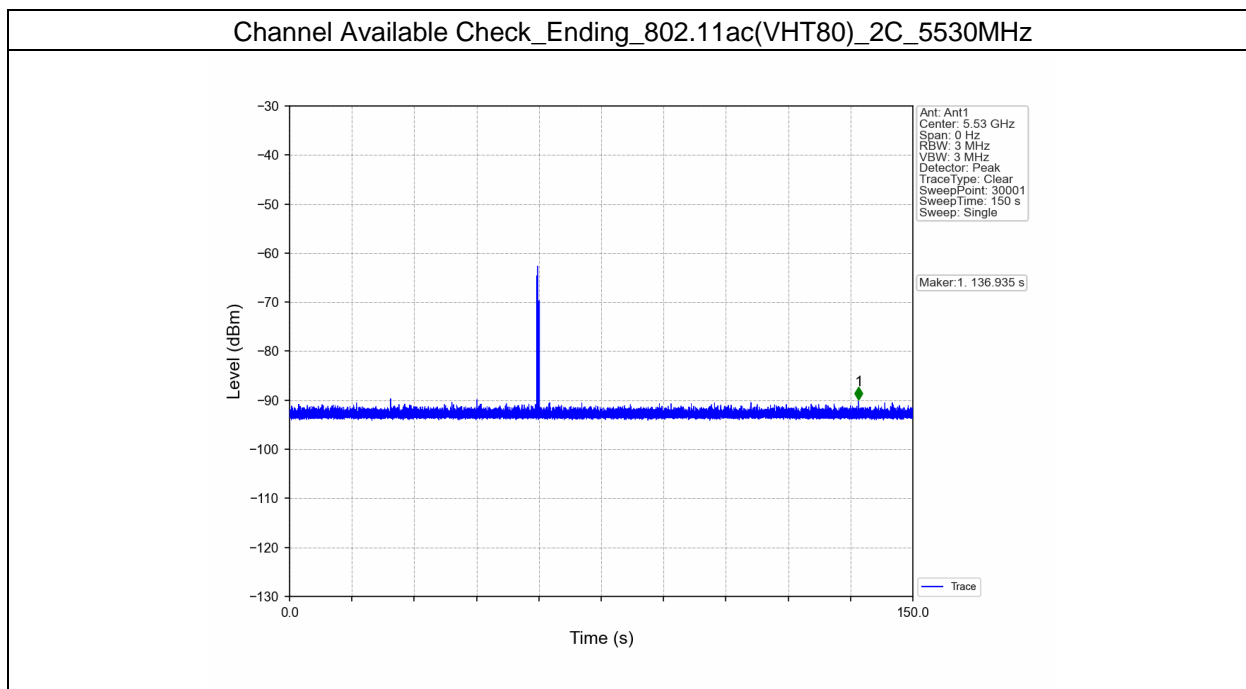
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## 7. Channel Move Time and Closing Transmission Time

### 7.1 CMT\_CTT

#### 7.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass



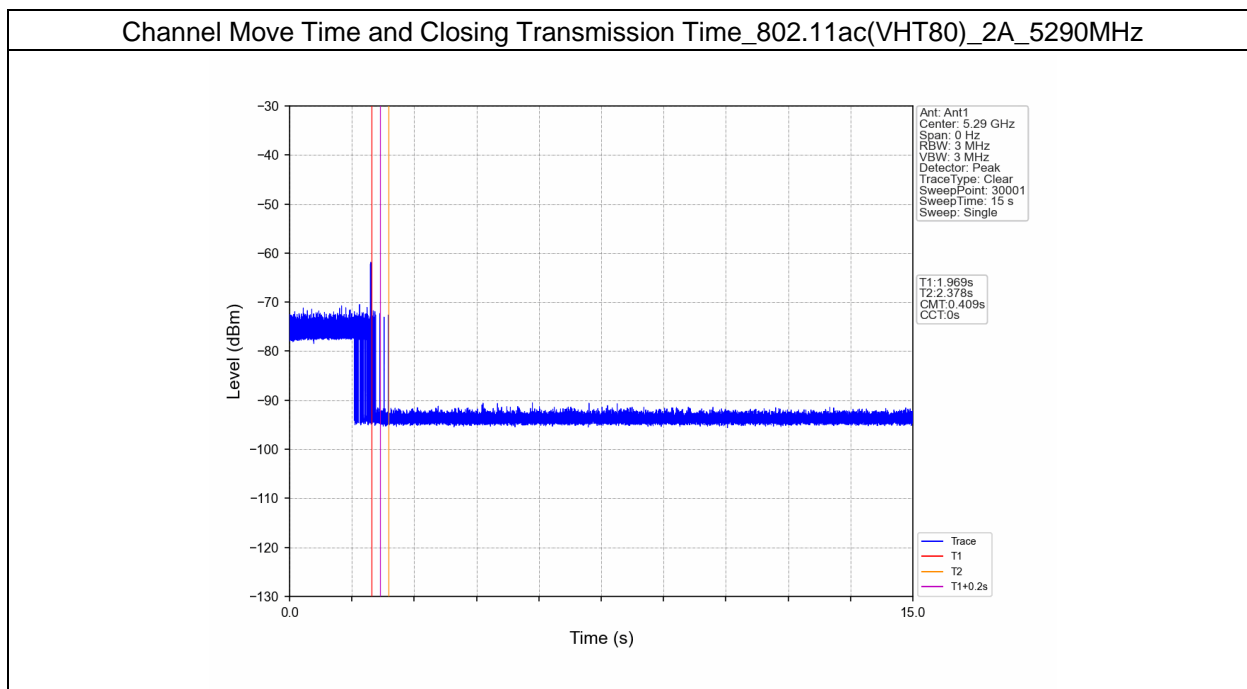
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## 7.2 CMT\_CTT

### 7.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass



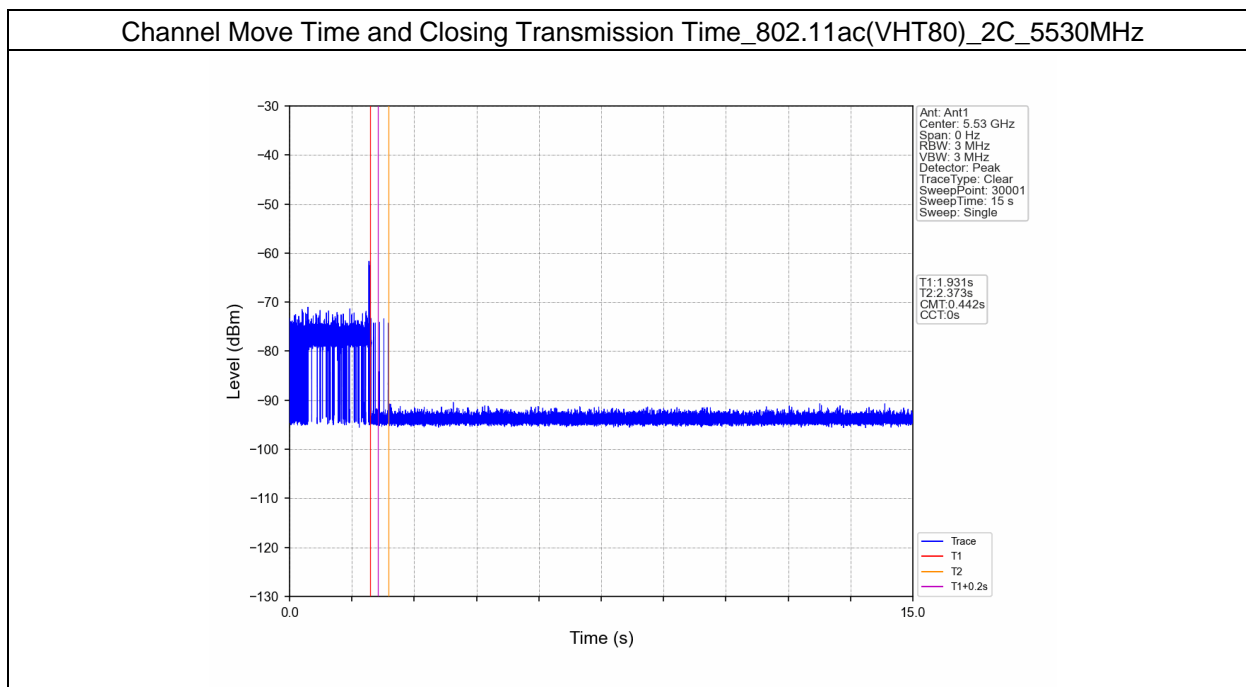
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## 8. Non-Occupancy Period

### 8.1 Period

#### 8.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass



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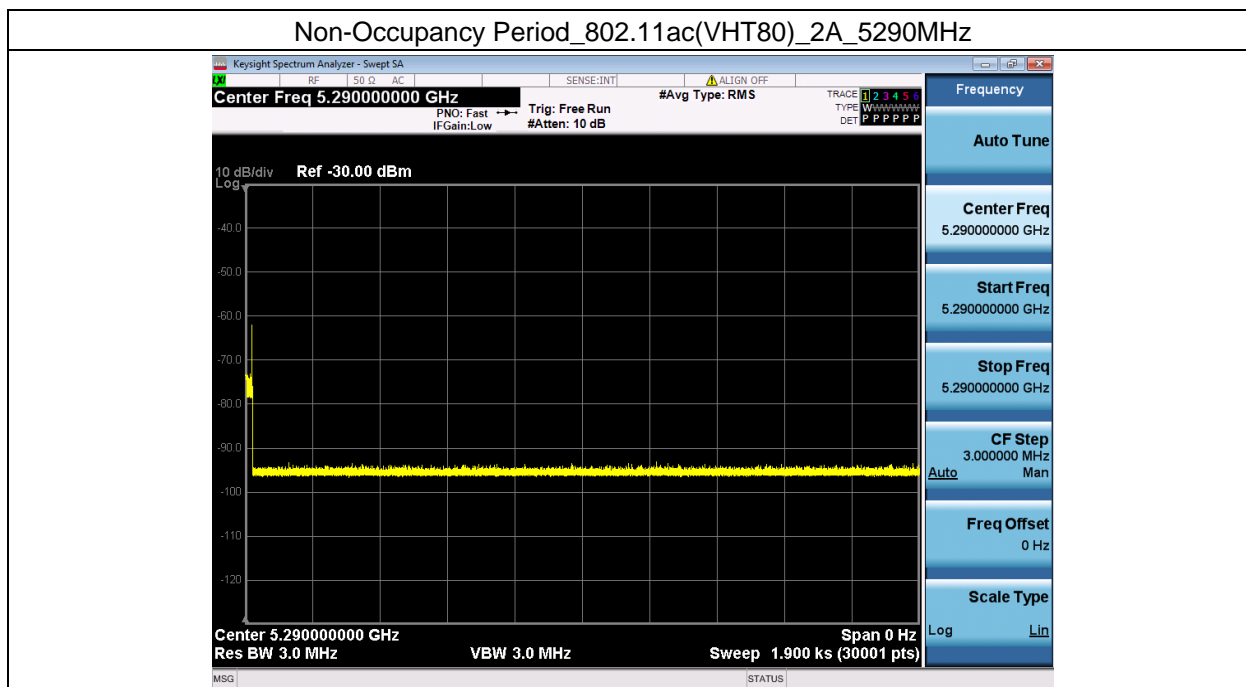
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## 8.2 Period

### 8.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass



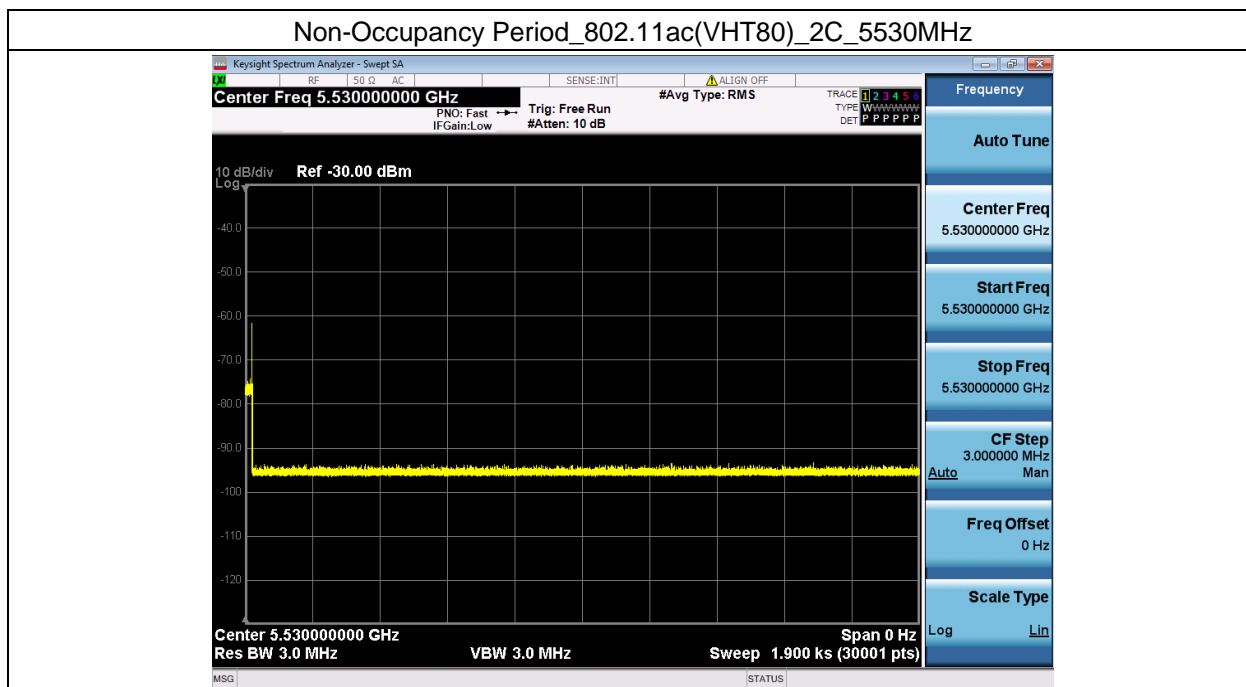
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## 9. Statistical Performance Check

## 9.1 SPC

## 9.1.1 Test Result

Band: 2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT20)	20	5300	1	90.00	>=60	Pass
			2	86.67	>=60	Pass
			3	86.67	>=60	Pass
			4	90.00	>=60	Pass
			ADP <sup>1</sup>	88.34	>=80	Pass
			5	83.33	>=80	Pass
			6	86.67	>=70	Pass
802.11ac (VHT40)	40	5310	1	86.67	>=60	Pass
			2	86.67	>=60	Pass
			3	90.00	>=60	Pass
			4	90.00	>=60	Pass
			ADP <sup>1</sup>	88.34	>=80	Pass
			5	90.00	>=80	Pass
			6	93.33	>=70	Pass
802.11ac (VHT80)	80	5290	1	86.67	>=60	Pass
			2	90.00	>=60	Pass
			3	90.00	>=60	Pass
			4	90.00	>=60	Pass
			ADP <sup>1</sup>	89.17	>=80	Pass
			5	86.67	>=80	Pass
			6	83.33	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

## 9.2 SPC\_Data

## 9.2.1 Test Result

Band: 2A				
Mode	Bandwidth	Frequency	Trial Id	Radar Signal Type



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	(MHz)	(MHz)		1	2	3	4	5	6
802.11ac (VHT20)	20	5300	0	Y	Y	Y	Y	Y	Y
			1	Y	Y	Y	Y	Y	Y
			2	Y	Y	Y	Y	Y	Y
			3	Y	N	Y	Y	Y	N
			4	Y	Y	Y	Y	Y	Y
			5	N	Y	Y	N	Y	Y
			6	Y	Y	Y	Y	N	Y
			7	Y	Y	N	Y	Y	Y
			8	Y	Y	Y	Y	Y	N
			9	Y	Y	Y	Y	Y	Y
			10	Y	Y	Y	Y	Y	Y
			11	Y	N	Y	Y	N	Y
			12	Y	Y	Y	N	Y	Y
			13	Y	Y	Y	Y	Y	Y
			14	Y	Y	Y	Y	N	Y
			15	Y	Y	N	Y	Y	Y
			16	N	Y	Y	Y	Y	N
			17	Y	N	Y	Y	Y	Y
			18	Y	Y	Y	Y	N	Y
			19	Y	Y	Y	Y	Y	Y
			20	Y	Y	Y	Y	Y	Y
			21	Y	Y	Y	Y	Y	N
			22	Y	Y	N	Y	Y	Y
			23	Y	Y	Y	N	Y	Y
			24	Y	N	Y	Y	Y	Y
			25	Y	Y	Y	Y	Y	Y
			26	Y	Y	Y	Y	N	Y
			27	Y	Y	N	Y	Y	Y
			28	N	Y	Y	Y	Y	Y
			29	Y	Y	Y	Y	Y	Y
802.11ac (VHT40)	40	5310	0	Y	Y	Y	Y	N	Y
			1	N	Y	Y	Y	Y	Y
			2	Y	Y	N	Y	Y	Y
			3	Y	N	Y	Y	Y	Y
			4	Y	Y	Y	Y	Y	Y
			5	Y	Y	Y	Y	Y	Y
			6	Y	Y	N	Y	Y	N



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			7	N	Y	Y	Y	Y	Y
			8	Y	Y	Y	Y	Y	Y
			9	Y	Y	Y	N	Y	Y
			10	Y	Y	Y	Y	Y	Y
			11	Y	Y	Y	Y	Y	Y
			12	Y	N	Y	Y	Y	Y
			13	N	Y	Y	Y	N	Y
			14	Y	Y	Y	N	Y	Y
			15	Y	Y	Y	Y	Y	Y
			16	Y	Y	Y	Y	Y	Y
			17	Y	Y	Y	Y	Y	Y
			18	Y	Y	Y	Y	Y	Y
			19	Y	Y	Y	Y	Y	Y
			20	Y	N	Y	Y	Y	Y
			21	Y	Y	N	Y	Y	Y
			22	Y	Y	Y	Y	Y	N
			23	Y	Y	Y	Y	Y	Y
			24	Y	Y	Y	Y	N	Y
			25	Y	N	Y	N	Y	Y
			26	Y	Y	Y	Y	Y	Y
			27	Y	Y	Y	Y	Y	Y
			28	N	Y	Y	Y	Y	Y
			29	Y	Y	Y	Y	Y	Y
802.11ac (VHT80)	80	5290	0	Y	Y	Y	Y	N	Y
			1	Y	Y	Y	Y	Y	Y
			2	N	Y	Y	Y	Y	N
			3	Y	Y	N	Y	N	Y
			4	Y	Y	Y	N	Y	Y
			5	N	Y	Y	Y	Y	Y
			6	Y	Y	N	Y	Y	Y
			7	Y	Y	Y	Y	Y	Y
			8	Y	N	Y	Y	Y	N
			9	Y	Y	Y	Y	Y	Y
			10	Y	Y	Y	Y	N	Y
			11	Y	Y	Y	Y	Y	Y
			12	N	Y	Y	Y	Y	Y
			13	Y	Y	Y	Y	Y	N
			14	Y	N	Y	N	Y	Y



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		15	Y	Y	Y	Y	Y	Y
		16	Y	Y	Y	Y	Y	Y
		17	Y	Y	N	Y	Y	Y
		18	N	Y	Y	Y	Y	Y
		19	Y	Y	Y	Y	Y	Y
		20	Y	N	Y	Y	Y	Y
		21	Y	Y	Y	Y	Y	N
		22	Y	Y	Y	Y	Y	Y
		23	Y	Y	Y	Y	Y	Y
		24	Y	Y	Y	Y	Y	Y
		25	Y	Y	Y	N	Y	Y
		26	Y	Y	Y	Y	Y	N
		27	Y	Y	Y	Y	Y	Y
		28	Y	Y	Y	Y	N	Y
		29	Y	Y	Y	Y	Y	Y

### 9.3 SPC

#### 9.3.1 Test Result

Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT20)	20	5580	1	86.67	>=60	Pass
			2	90.00	>=60	Pass
			3	86.67	>=60	Pass
			4	90.00	>=60	Pass
			ADP <sup>1</sup>	88.34	>=80	Pass
			5	90.00	>=80	Pass
			6	90.00	>=70	Pass
802.11ac (VHT40)	40	5550	1	90.00	>=60	Pass
			2	90.00	>=60	Pass
			3	86.67	>=60	Pass
			4	86.67	>=60	Pass
			ADP <sup>1</sup>	88.34	>=80	Pass
			5	86.67	>=80	Pass
			6	86.67	>=70	Pass
802.11ac (VHT80)	80	5530	1	86.67	>=60	Pass
			2	90.00	>=60	Pass



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			3	90.00	>=60	Pass
			4	86.67	>=60	Pass
			ADP <sup>1</sup>	88.34	>=80	Pass
			5	90.00	>=80	Pass
			6	90.00	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

## 9.4 SPC\_Data

## 9.4.1 Test Result

Band: 2C									
Mode	Bandwidth (MHz)	Frequency (MHz)	Trial Id	Radar Signal Type					
				1	2	3	4	5	6
802.11ac (VHT20)	20	5580	0	Y	Y	Y	Y	Y	N
			1	Y	Y	N	Y	Y	Y
			2	Y	Y	Y	Y	N	Y
			3	Y	Y	Y	Y	Y	Y
			4	N	Y	Y	N	Y	Y
			5	Y	Y	Y	Y	Y	Y
			6	Y	Y	Y	Y	Y	Y
			7	Y	N	Y	Y	Y	Y
			8	Y	Y	Y	Y	Y	Y
			9	Y	Y	Y	Y	Y	Y
			10	Y	Y	N	Y	Y	Y
			11	Y	Y	Y	Y	Y	Y
			12	Y	Y	Y	Y	N	Y
			13	Y	Y	Y	Y	Y	N
			14	N	Y	Y	Y	Y	Y
			15	Y	Y	Y	N	Y	Y
			16	Y	Y	Y	Y	Y	Y
			17	Y	N	Y	Y	Y	Y
			18	Y	Y	Y	Y	Y	Y
			19	Y	Y	N	Y	Y	Y
			20	N	Y	Y	Y	Y	Y
			21	Y	Y	Y	Y	Y	Y
			22	Y	Y	Y	Y	Y	Y
			23	Y	Y	Y	Y	N	Y
			24	Y	N	Y	Y	Y	Y



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			25	N	Y	Y	Y	Y	N
			26	Y	Y	N	Y	Y	Y
			27	Y	Y	Y	N	Y	Y
			28	Y	Y	Y	Y	Y	Y
			29	Y	Y	Y	Y	Y	Y
802.11ac (VHT40)	40	5550	0	Y	Y	Y	Y	Y	Y
			1	Y	Y	N	Y	Y	Y
			2	Y	Y	Y	Y	N	Y
			3	Y	Y	Y	Y	Y	Y
			4	N	Y	Y	Y	Y	Y
			5	Y	Y	Y	Y	Y	Y
			6	Y	Y	Y	Y	Y	Y
			7	Y	N	Y	Y	Y	N
			8	Y	Y	Y	N	Y	Y
			9	Y	Y	Y	Y	Y	Y
			10	N	Y	N	Y	Y	Y
			11	Y	Y	Y	Y	N	Y
			12	Y	Y	Y	Y	Y	Y
			13	Y	Y	Y	Y	Y	Y
			14	Y	Y	Y	N	Y	Y
			15	Y	N	Y	Y	Y	N
			16	Y	Y	Y	Y	Y	Y
			17	Y	Y	N	Y	Y	Y
			18	Y	Y	Y	Y	Y	Y
			19	Y	Y	Y	Y	Y	Y
			20	Y	Y	Y	Y	N	N
			21	Y	Y	Y	Y	Y	Y
			22	N	Y	Y	Y	Y	Y
			23	Y	Y	Y	N	Y	Y
			24	Y	Y	Y	Y	Y	N
			25	Y	Y	N	Y	Y	Y
			26	Y	Y	Y	Y	Y	Y
			27	Y	N	Y	Y	Y	Y
			28	Y	Y	Y	Y	N	Y
			29	Y	Y	Y	N	Y	Y
802.11ac (VHT80)	80	5530	0	Y	N	Y	Y	Y	Y
			1	Y	Y	Y	Y	N	Y
			2	Y	Y	N	Y	Y	Y



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			3	N	Y	Y	Y	Y	Y
			4	Y	Y	Y	Y	Y	Y
			5	Y	Y	Y	Y	Y	Y
			6	Y	Y	Y	Y	N	Y
			7	Y	N	Y	Y	Y	Y
			8	Y	Y	Y	N	Y	Y
			9	Y	Y	Y	Y	Y	N
			10	Y	Y	N	Y	Y	Y
			11	Y	Y	Y	Y	Y	Y
			12	N	Y	Y	Y	Y	Y
			13	Y	Y	Y	Y	Y	Y
			14	Y	Y	Y	Y	Y	Y
			15	Y	Y	Y	N	Y	Y
			16	Y	N	Y	Y	Y	N
			17	Y	Y	Y	Y	N	Y
			18	Y	Y	Y	Y	Y	Y
			19	Y	Y	N	Y	Y	Y
			20	N	Y	Y	Y	Y	Y
			21	Y	Y	Y	Y	Y	Y
			22	Y	Y	Y	Y	Y	Y
			23	Y	Y	Y	Y	Y	Y
			24	Y	Y	Y	N	Y	Y
			25	Y	Y	Y	Y	Y	Y
			26	N	Y	Y	Y	Y	Y
			27	Y	Y	Y	Y	Y	N
			28	Y	Y	Y	N	Y	Y
			29	Y	Y	Y	Y	Y	Y



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