TEST REPORT

Reference No.	:	WTD25D08233044W004
FCC ID		2BSNE-M55
Applicant.....	:	Shenzhen Telemiles Co., Ltd
Address.....	:	24F, Block B of Block A.B, Haiwang Building, Nanhai Blvd No.2221, Nanshan Street, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen Telemiles Co., Ltd
Address.....	:	24F, Block B of Block A.B, Haiwang Building, Nanhai Blvd No.2221, Nanshan Street, Nanshan District, Shenzhen, China
Product.....	:	ONE
Model(s).	:	M55
Standards.....	:	FCC 47CFR Part 15 Section 15.407
Date of Receipt Sample	:	2025-09-22
Date of Test	:	2025-09-27 to 2025-11-27
Date of Issue.....	:	2025-12-19
Test Result.....	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D08233044W004	2025-09-22	2025-09-27 to 2025-11-27	2025-12-19	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	ONE
Model(s):	M55
Model Description:	N/A
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/ n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80)
DFS Function:	Master
Hardware Version:	Mobile.Router.H01
Software Version:	Mobile.Router.B03

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20)/ac(VHT20)/ax (HE20): U-NII-2A: 5260-5320MHz(DFS), U-NII-2C: 5500-5720MHz(DFS) 802.11n(HT40)/ac(VHT40)/ax (HE40): U-NII-2A: 5270-5310MHz(DFS), U-NII-2C: 5510-5710MHz(DFS) 802.11ac(VHT80)/ax(HE80): U-NII-2A: 5290MHz(DFS), U-NII-2C: 5530-5690MHz(DFS)
Type of Modulation:	OFDM
Antenna installation:	FPC Antenna
Antenna Gain:	2.8dBi

Note:
#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings:	TYPE-C Input: DC 5V/3A, DC 9V/2A, DC 12V/1.5A TYPE-C output: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A CC line Input: DC 5V/3A, DC 9V/2A, DC 12V/1.5A CC line output: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A USB-A output: DC 5V/3A, DC 9V/2A, DC 12V/1.5A, DC 10V/2.25A Lighting Output: DC 5V/2.4A
Battery:	DC 3.85V, 10000mAh

4.3 Frequency list table

Type	Frequency Range(MHz)	Channel No.	Frequency(MHz)	Available(Y/N)
802.11a/n-HT20)/ax (HE20)	5260-5320	52	5260	☐
		56	5280	☐
		60	5300	☐
		64	5320	☐
	5500-5720	100	5500	☐
		104	5520	☐
		108	5540	☐
		112	5560	☐
		116	5580	☐
		120	5600	☐
		124	5620	☐
		128	5640	☐
		132	5660	☐
		136	5680	☐
		140	5700	☐
		144	5720	☐
802.11n/ac VHT40/ax (HE40)	5270-5310	54	5270	☐
		62	5310	☐
	5510-5710	102	5510	☐
		110	5550	☐
		118	5590	☐
		126	5630	☐
		134	5670	☐
		142	5710	☐
802.11n/ac-VHT80/ax(HE80)	5290	58	5290	☒
	5530,5610,5690	106	5530	☒
		122	5610	☐
		138	5690	☐

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Test Summary

Test Item	Test Requirement	Result
Non-Occupancy Period	15.407(h)	PASS
DFS Detection Threshold	15.407(h)	PASS
Channel Availability Check Time	15.407(h)	PASS
U-NII Detection Bandwidth	15.407(h)	PASS
Channel Closing Transmission Time	15.407(h)	PASS
Channel Move Time	15.407(h)	PASS
Statistical Performance Check	15.407(h)	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Signal Analyzer	Agilent	N9020A	MY49100060	2025-07-04	2026-07-03
2.	Signal Generator	Agilent	N5182A	MY46240814	2025-07-04	2026-07-03
3.	USB Wideband Power Sensor	Maiwei	U2021XA	SG54400003	2025-04-19	2026-04-18
4	ESG VECTOR SIGNAL GENERATOR	Keysight	MW100-PSB	SG54400003	2025-04-19	2026-04-18
5	RF Path box	Yanchen	AT890-RFB	/	/	/

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	FCC ID
/	/	/	/

7 DFS Overview

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.1

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.2

Tables 1 and 2 shown below summarize the information contained in sections 5.1.1 and 5.1.2

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.		

The operational behavior and individual DFS requirements that are associated with these modes are as follows:

7.1 Master Devices

a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 5350 MHz and 5470 5725 MHz bands. DFS is not required in the 5150 5250 MHz or 5725 5825 MHz bands.
b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period. 3
g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

7.2 Client Devices

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.
b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.
c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.
d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.
e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

8 DFS technical requirements specifications

8.1 DFS Detection Thresholds

Table 3 below provides the *DFS Detection Thresholds* for *Master Devices* as well as *Client Devices* incorporating *In-Service Monitoring*. NOTE: For devices that support multiple Nominal Channel Bandwidths, the Channel Availability Check

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.	

8.2 Response Requirements

Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

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 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.	

9 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.

9.1 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
1	1	1428	18	See Note 1	See Note 1
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
Note 1: Short Pulse Radar Type 1 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

9.2 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 / 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.

9.3 Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform

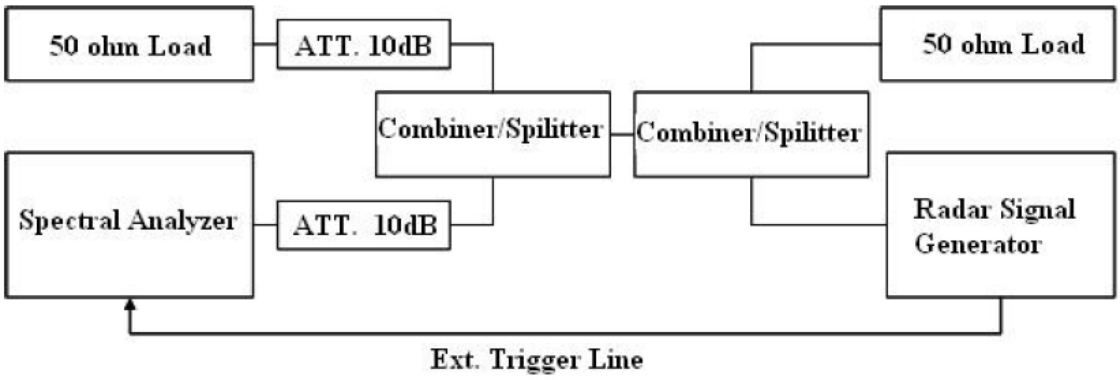
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

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: 4
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 is randomly selected from the remaining 474 frequencies in the group. This process continues until all are chosen for the set. For selection of a random frequency, the frequencies remaining within the groupare treated as equally likely.
initial power up or at initial installation. Channels being used by other RLAN equipment may be omitted from the list of Usable Channels.

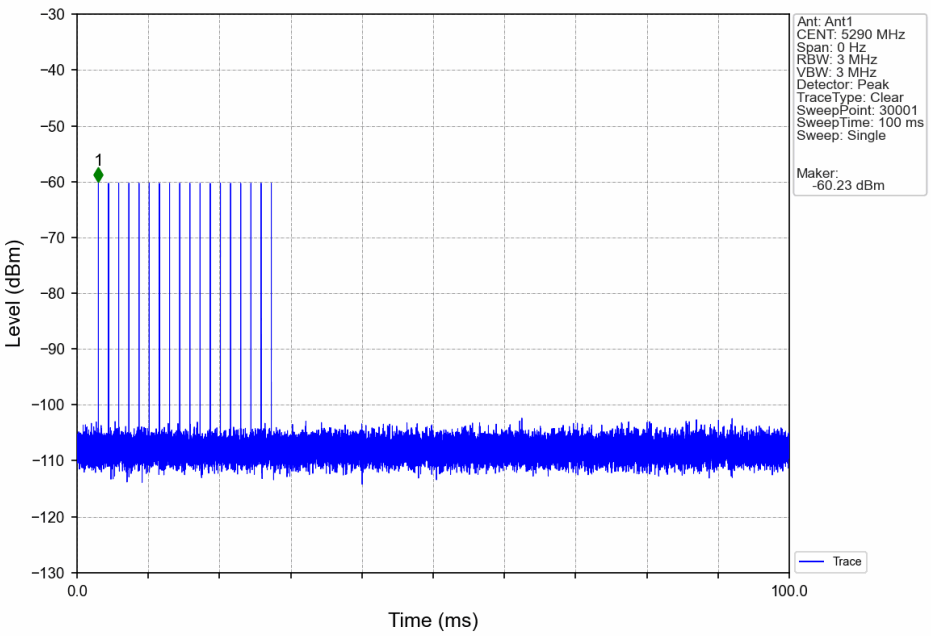
10 Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 1 MHz and 3 MHz. The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -55dBm due to the interference threshold level is not required.

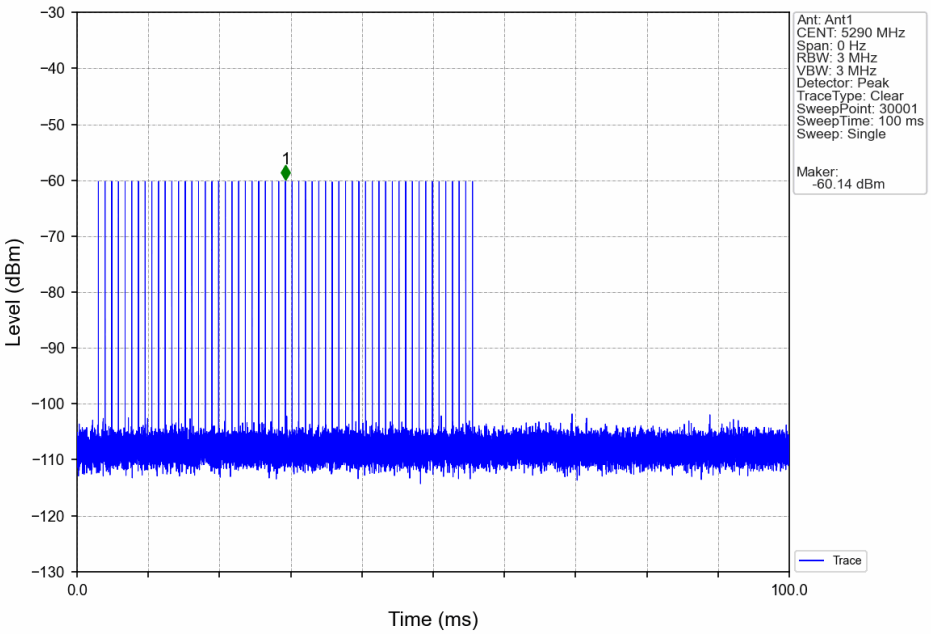
10.1 Conducted Calibration Setup



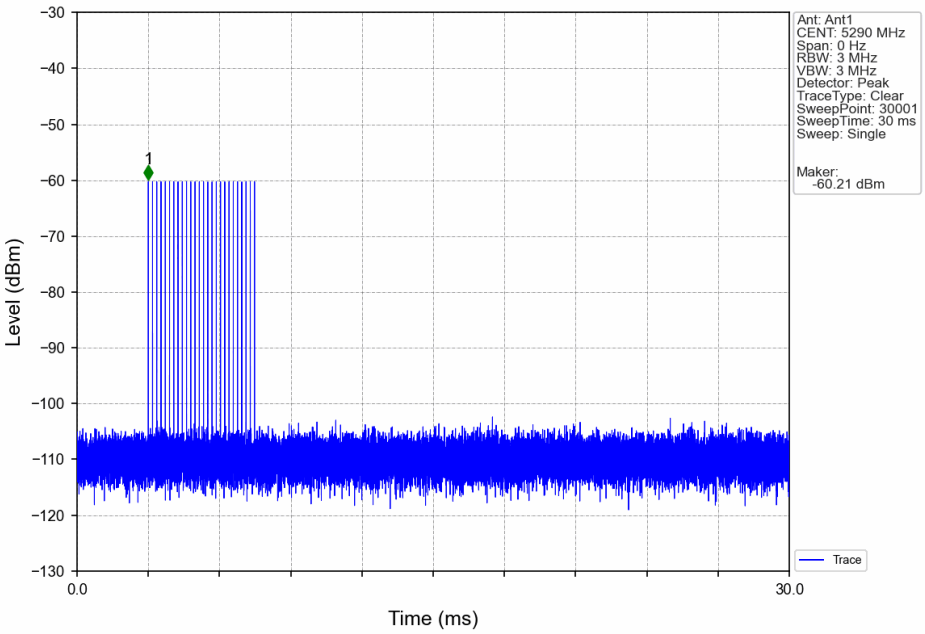
10.2 Calibration Test Plots As Below



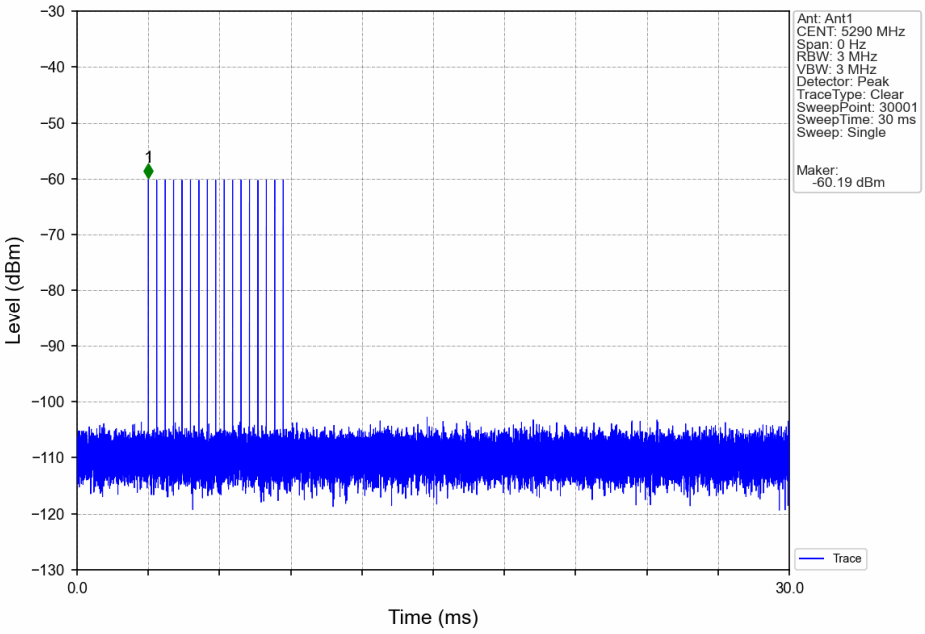
802.11ac (VHT80) Radar Signal 5290 #0



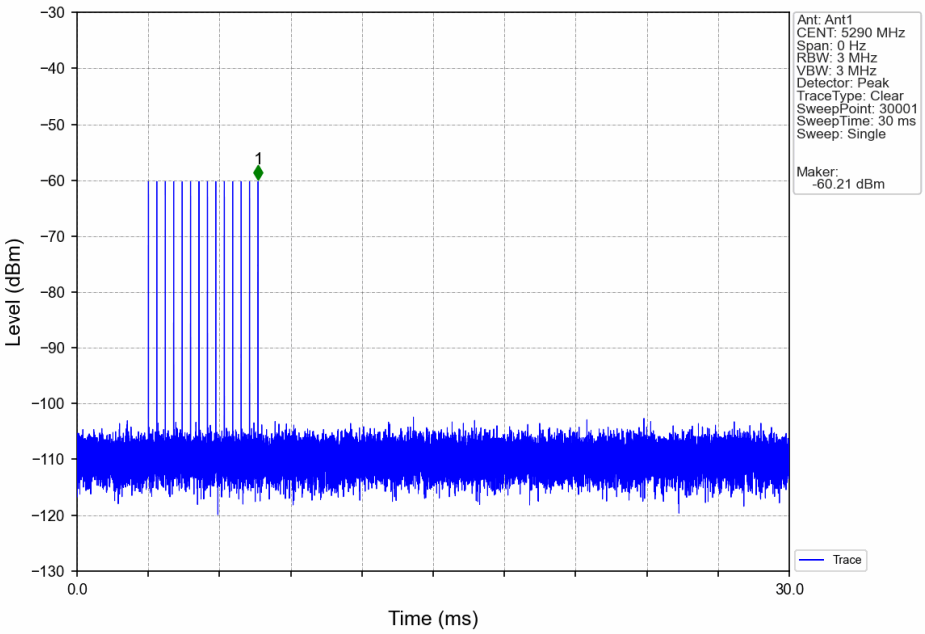
802.11ac (VHT80) Radar Signal 5290 #1



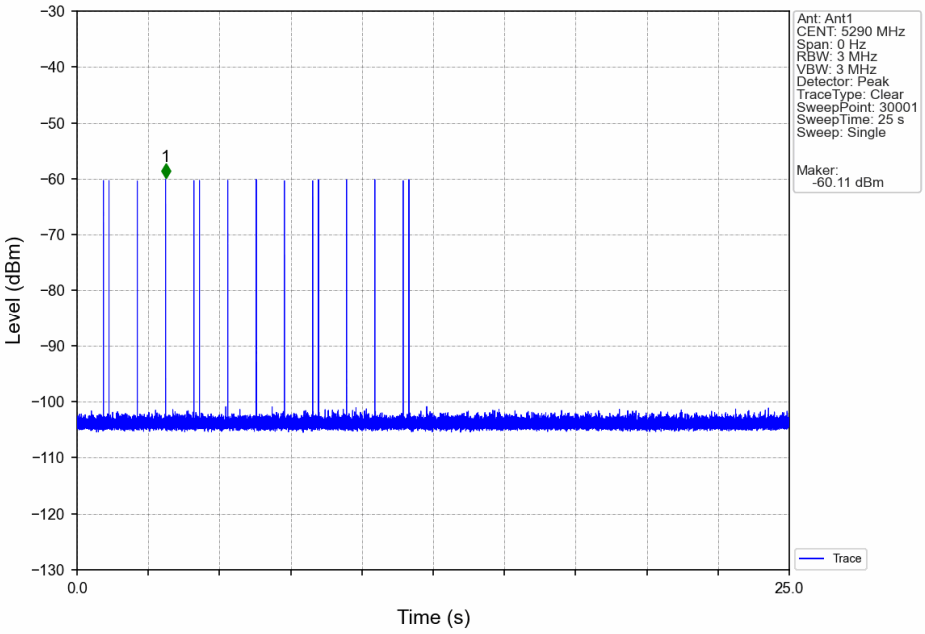
802.11ac (VHT80) Radar Signal 5290 #2



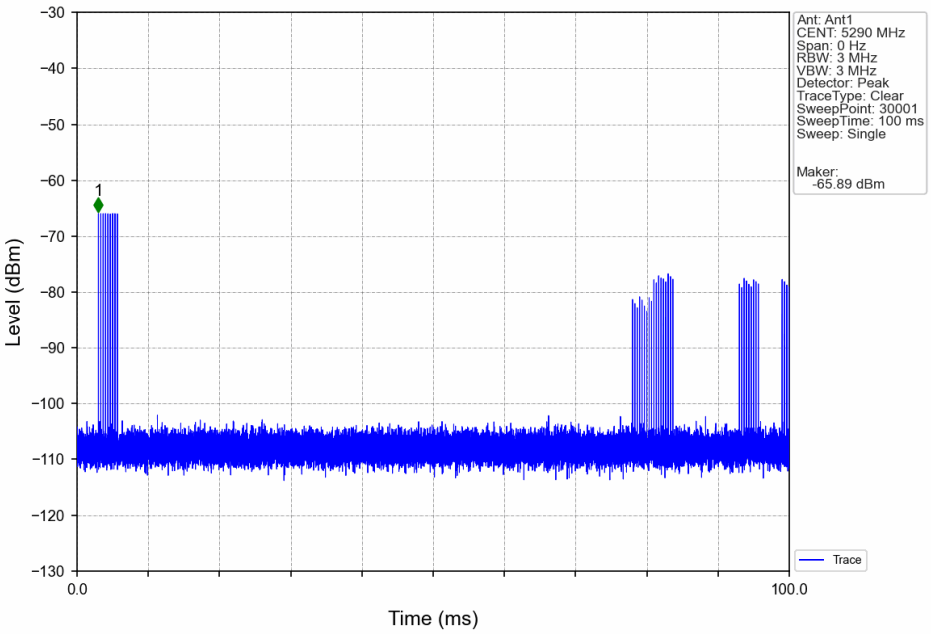
802.11ac (VHT80) Radar Signal 5290 #3



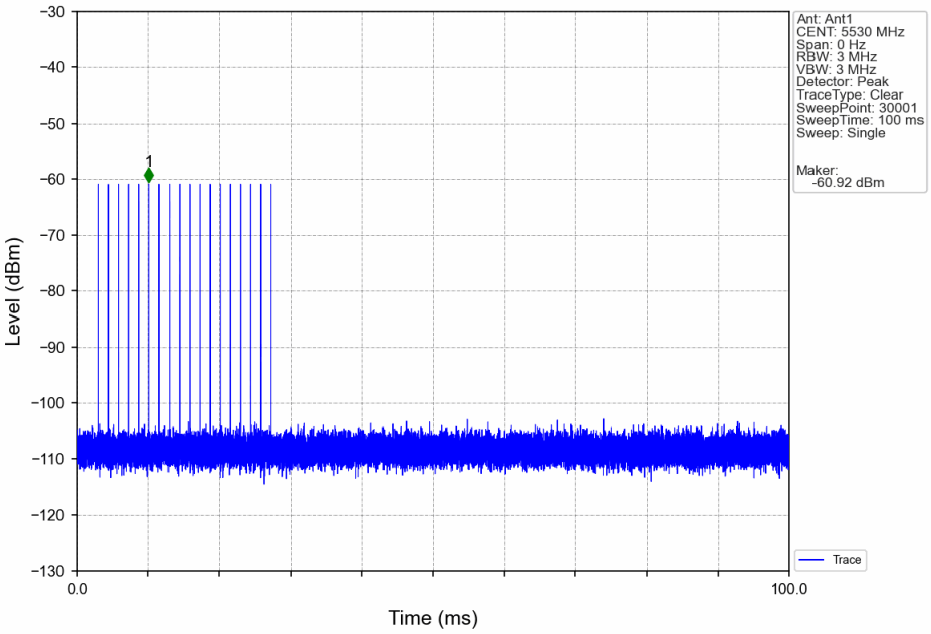
802.11ac (VHT80) Radar Signal 5290 #4



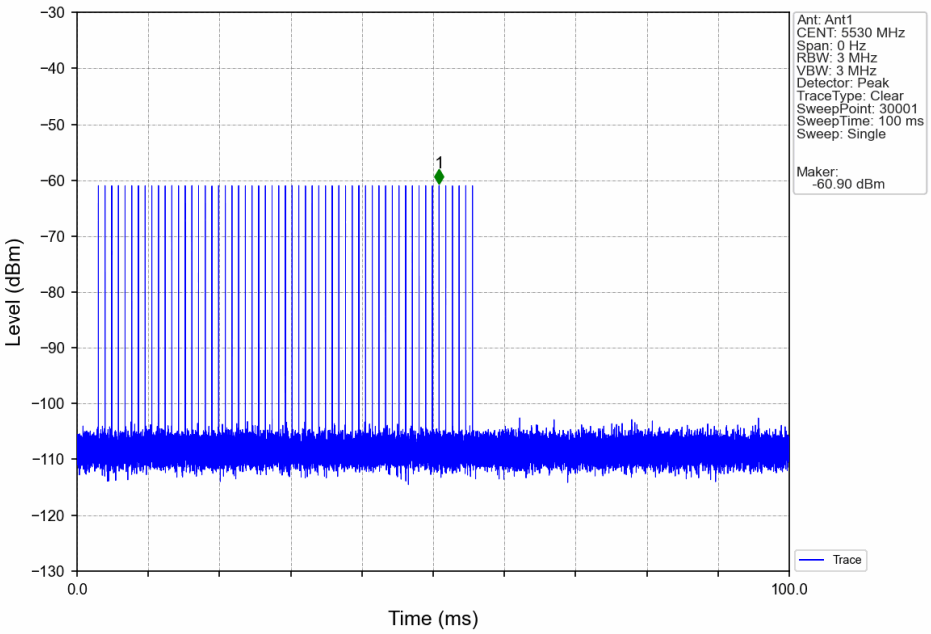
802.11ac (VHT80) Radar Signal 5290 #5



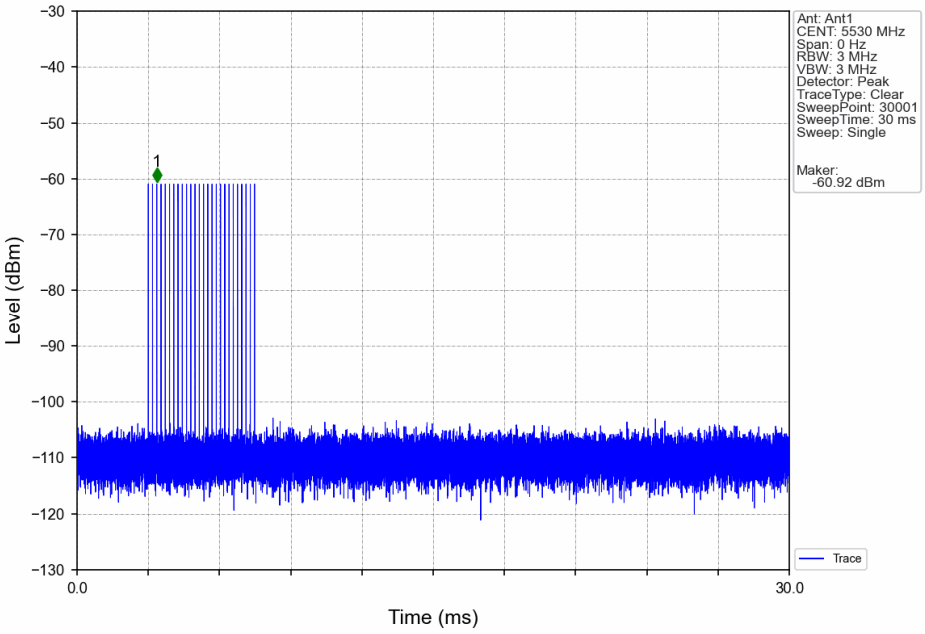
802.11ac (VHT80) Radar Signal 5290 #6



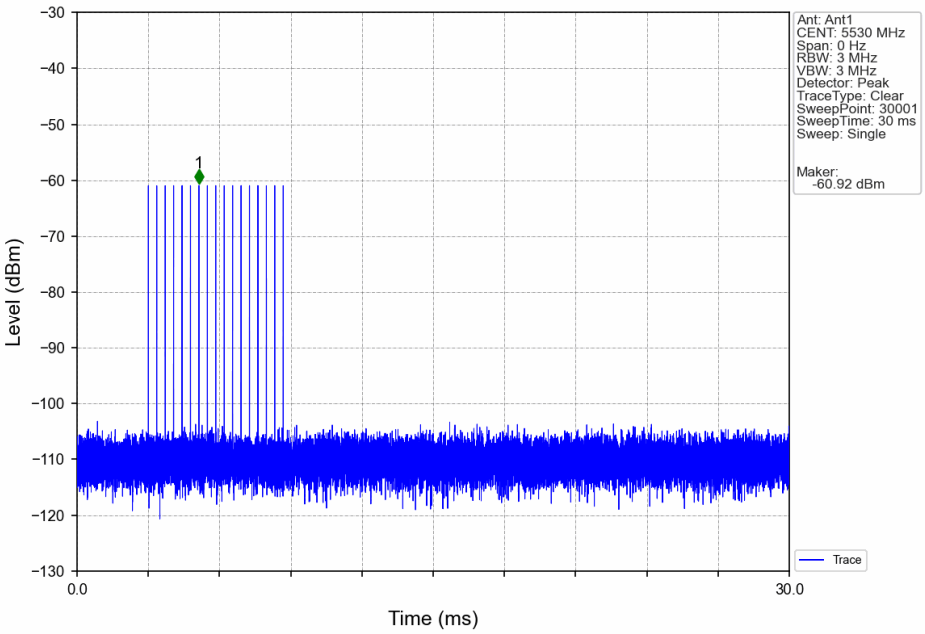
802.11ac (VHT80) Radar Signal 5530 #0



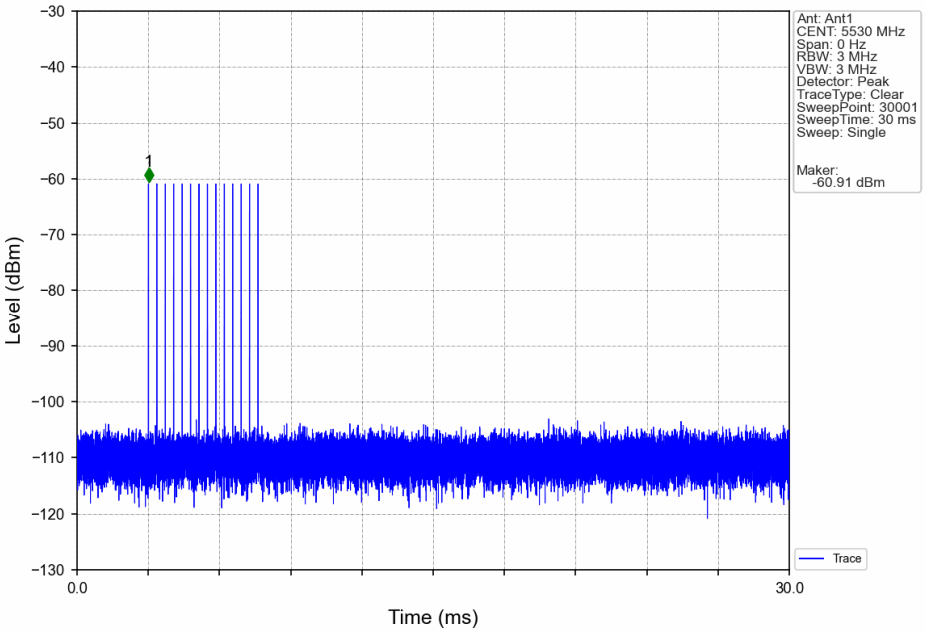
802.11ac (VHT80) Radar Signal 5530 #1



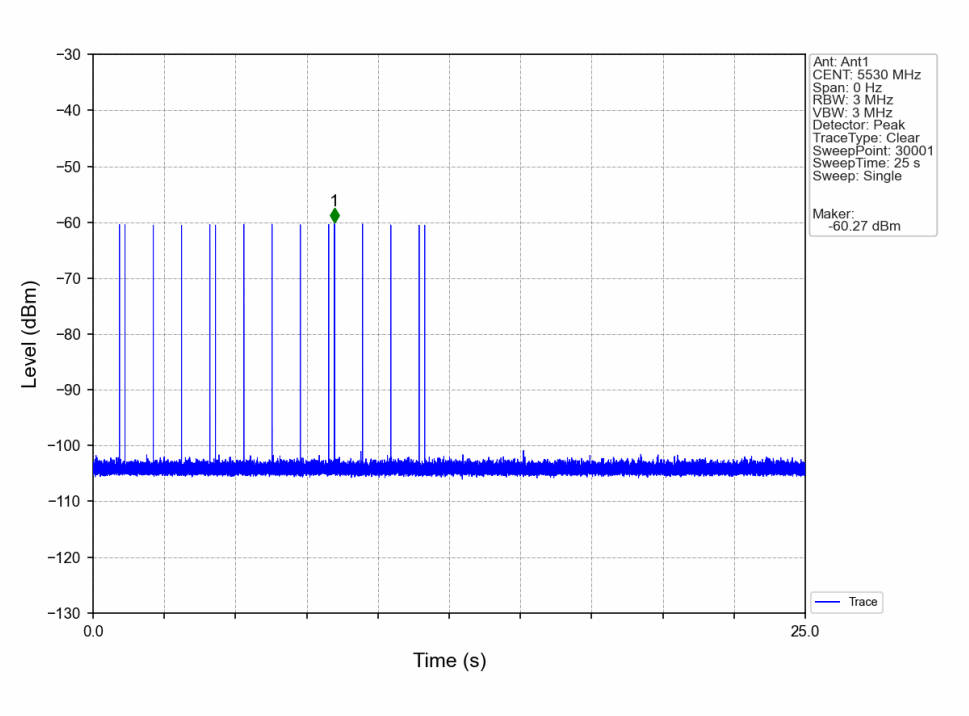
802.11ac (VHT80) Radar Signal 5530 #2



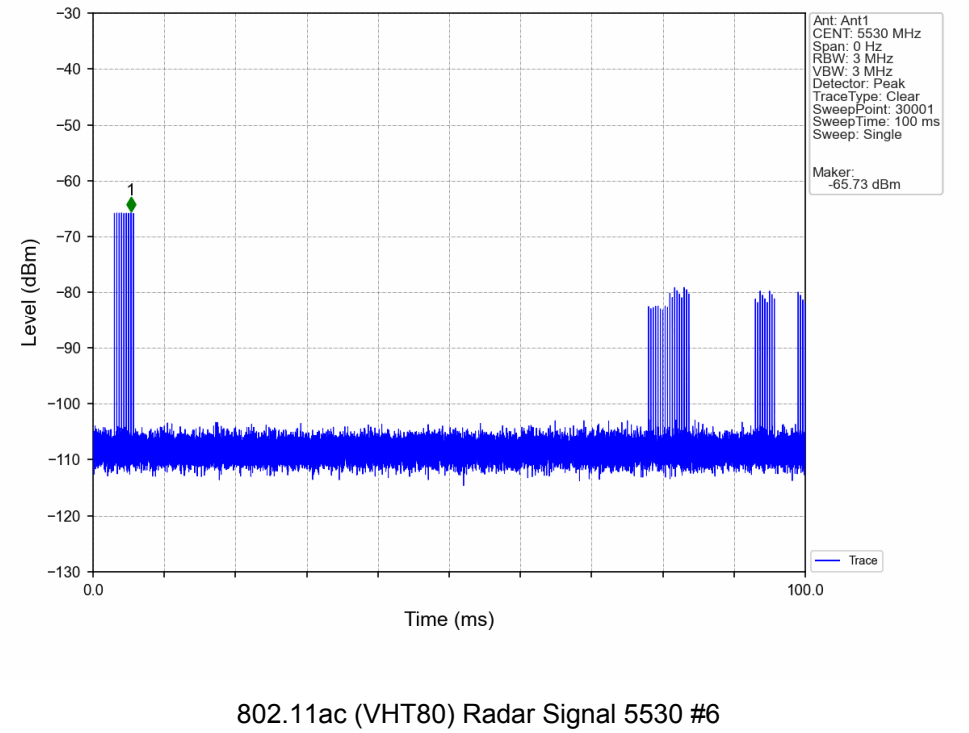
802.11ac (VHT80) Radar Signal 5530 #3



802.11ac (VHT80) Radar Signal 5530 #4



802.11ac (VHT80) Radar Signal 5530 #5



802.11ac (VHT80) Radar Signal 5530 #6

Note:All BW and each test frequency were be test, Only 802.11ac (VHT80) data is recorded on the report.

11 Channel Loading (Payload)

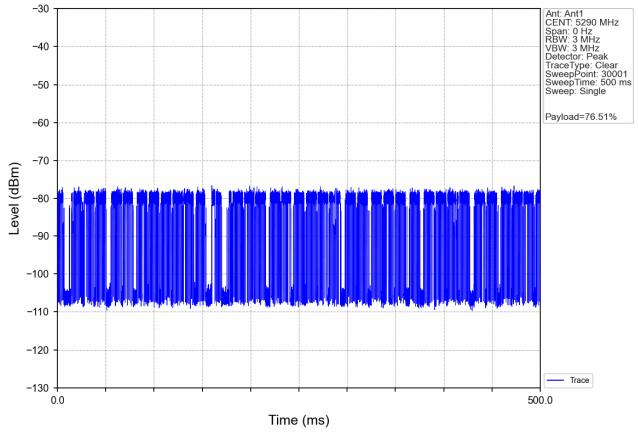
11.1 Test Result

Payload

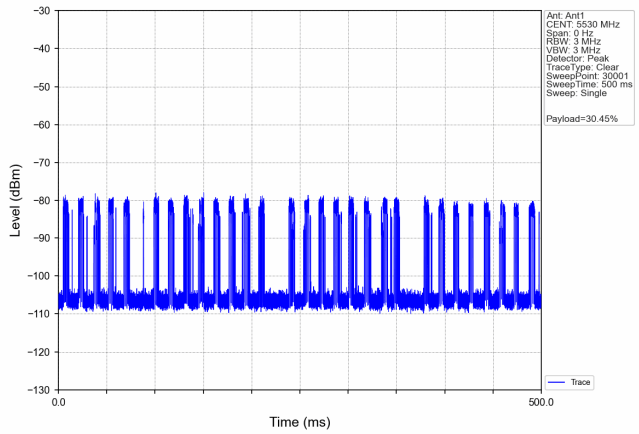
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
U-NII-2A 802.11ac (VHT80)	80	5290	76.51	>=17	Pass
U-NII-2C 802.11ac (VHT80)	80	5530	30.45	>=17	Pass

U-NII-2A (5290MHz)

802.11ac(HT80)



U-NII-2A (5290MHz)

802.11ac(HT80)	

12 U-NII Detection Bandwidth

12.1 Test Result

			U-NII-2A		
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT20)	20	5320	5311.038	5328.962	Pass

Note: 5320MHz 99%OBW=17.924MHz

20MHz_5320MHz_Data

Band: U-NII-2A / Bandwidth: 20MHz / Frequency: 5320MHz / 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	
5311	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5311.038	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5312	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5313	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5314	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5315	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5316	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5317	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5318	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5319	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5320	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5321	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5322	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5323	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5324	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5325	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5326	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5327	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5328	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5328.962	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5329	N	N	N	N	N	N	N	N	N	N	/	/	/	/

U-NII-2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT20)	20	5720	5710.9715	5729.0285	Pass

Note: 5720MHz 99%OBW=18.057MHz

20MHz_5720MHz_Data

Band: U-NII-2C / Bandwidth: 20MHz / Frequency: 5720MHz / 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	
5710	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5710.9715	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5711	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5712	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5713	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5714	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5715	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5716	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5717	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5718	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5719	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5720	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5721	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5722	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5723	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5724	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5725	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5726	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5727	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5728	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5729	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5729.0285	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5730	N	N	N	N	N	N	N	N	N	N	/	/	/	/

			U-NII-2A		
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT40)	40	5310	5291.78	5328.22	Pass

Note: 5310MHz 99%OBW=36.440MHz

40MHz_5310MHz_Data

Band: U-NII-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	
5290	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5291.78	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5292	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5293	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5294	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5295	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5296	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5297	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5298	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5299	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5300	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5305	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5310	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5315	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5320	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5325	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5326	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5327	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5328	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5328.22	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5329	N	N	N	N	N	N	N	N	N	N	/	/	/	/

U-NII-2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT40)	40	5710	5691.713	5728.287	Pass

Note: 5710MHz 99%OBW=36.574MHz

40MHz_5710MHz_Data

Band: U-NII-2C / Bandwidth: 40MHz / Frequency: 5710MHz / 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	
5690	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5691.713	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5692	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5693	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5694	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5695	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5696	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5697	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5698	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5700	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5701	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5702	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5703	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5704	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5705	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5710	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5715	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5720	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5721	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5722	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5723	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5724	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5725	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5726	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5727	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5728	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5728.287	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5729	N	N	N	N	N	N	N	N	N	N	/	/	/	/

			U-NII-2A		
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT80)	80	5290	5252.035	5327.965	Pass

Note: 5290MHz 99%OBW=75.93MHz

80MHz_5290MHz_Data

Band: U-NII-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	
5252	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5252.035	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5253	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5254	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5255	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5260	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5265	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5270	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5275	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5280	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5285	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5290	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5295	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5300	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5305	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5310	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5315	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5320	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5325	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5327.965	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5330	N	N	N	N	N	N	N	N	N	N	/	/	/	/

U-NII-2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Detection Bandwidth (MHz)		Verdict
			FL	FH	
802.11ac (VHT80)	80	5530	5491.977	5568.023	Pass

Note: 5290MHz 99%OBW=76.046MHz

80MHz_5530MHz_Data

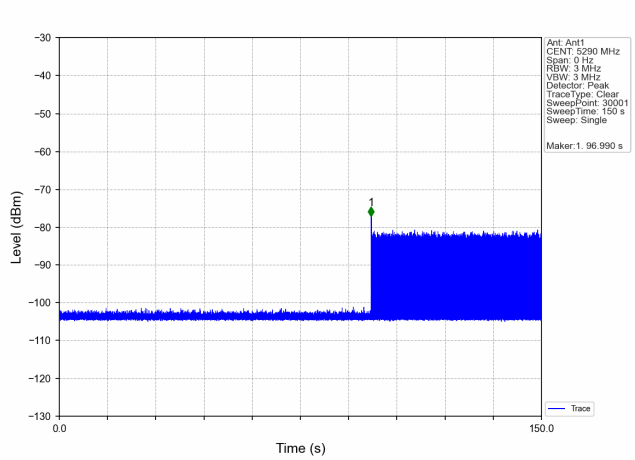
Band: U-NII-2C / Bandwidth: 80MHz / Frequency: 5530MHz / RadarType: 0														
Frequency (MHz)	Trial Number and Detection result (Y: Detected; N: Non-detected)										Detection Probability (%)			Verdict
	0	1	2	3	4	5	6	7	8	9	Result	FL/FH	Limit	
5490	N	N	N	N	N	N	N	N	N	N	/	/	/	/
5491.977	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FL	>=100	Pass
5492	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5493	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5494	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5530	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5535	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5540	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5545	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5550	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5555	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5560	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5565	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	/	>=100	Pass
5568.023	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100.00	FH	>=100	Pass
5569	N	N	N	N	N	N	N	N	N	N	/	/	/	/

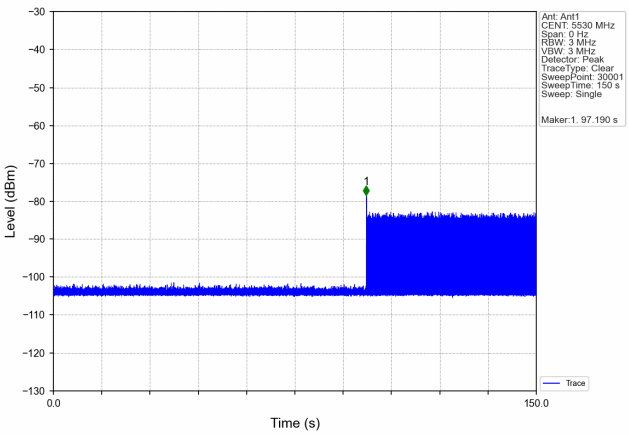
13 Channel Available Check

13.1 Test Result

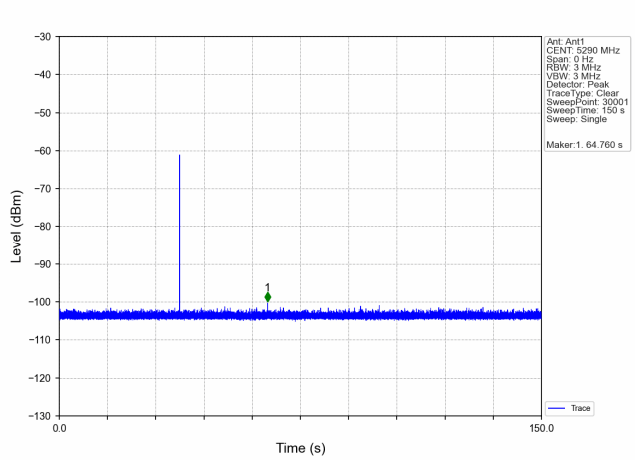
Channel Available Check_init

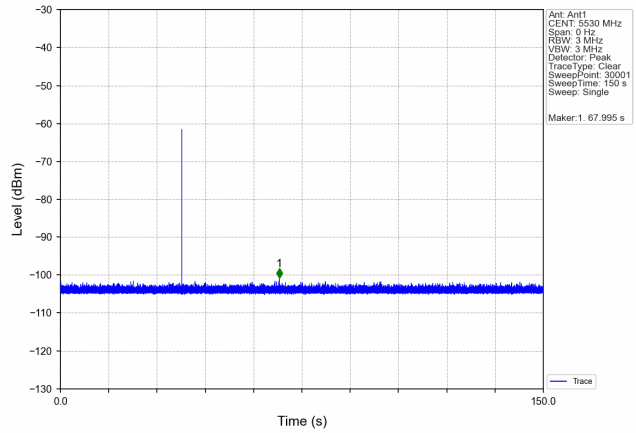
Mode/CH	Channel Available Check_init (sec)	Limit(sec)
U-NII-2A (5290MHz)	97.47	≥60
U-NII-2C (5530MHz)	97.20	≥60

U-NII-2A (5290MHz)	
802.11ac(HT80)	

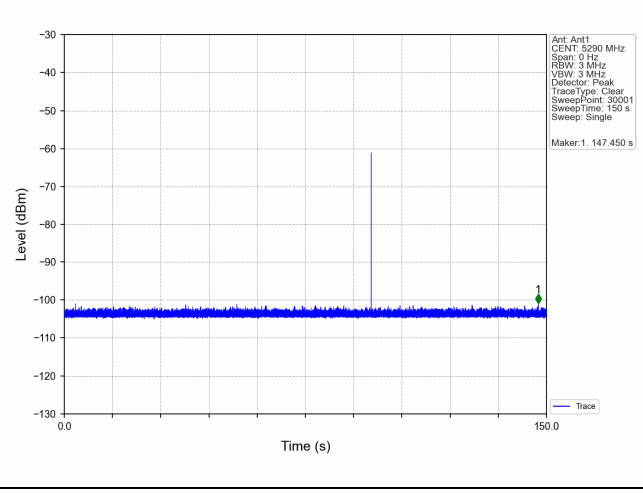
U-NII-2C (5530MHz)	
802.11ac(HT80)	

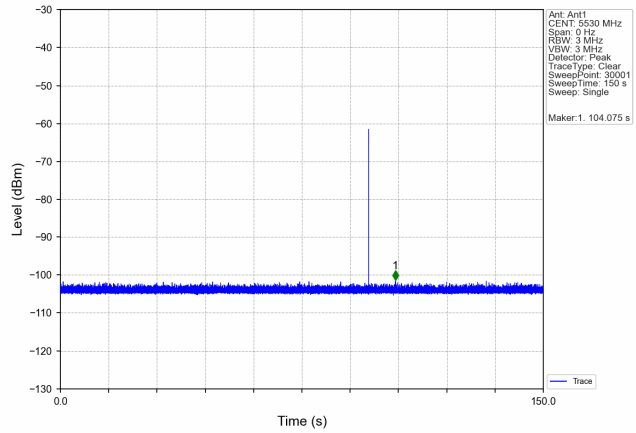
Channel Available Check_Beginning

U-NII-2A (5290MHz)	
802.11ac(HT80)	

U-NII-2C (5530MHz)	
802.11ac(HT80)	

Channel Available Check_Ending

U-NII-2A (5290MHz)	
802.11ac(HT80)	

U-NII-2C (5530MHz)	
802.11ac(HT80)	

14 Channel Move Time and Closing Transmission Time

14.1 Test Result

CMT_CTT

Band: U-NII-2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Closing Transmission Time (ms)		Channel Move Time (s)		Verdict
			Result	Limit	Result	Limit	
802.11ac (VHT80)	80	5290	0.0001	<= 60	0.0001	<=10	Pass

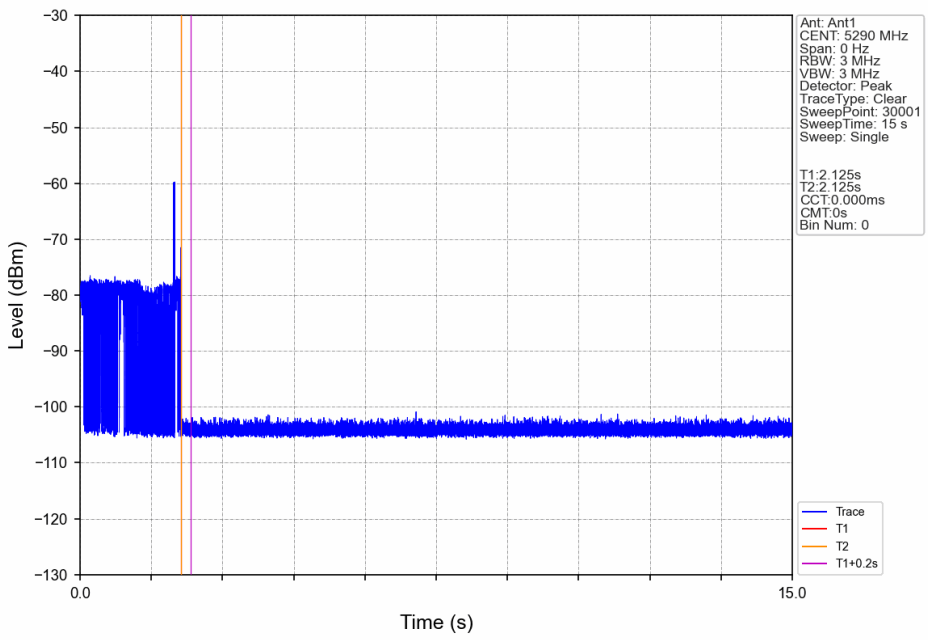
CMT_CTT

Band: U-NII-2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Closing Transmission Time (ms)		Channel Move Time (s)		Verdict
			Result	Limit	Result	Limit	
802.11ac (VHT80)	80	5530	4.500	<= 60	0.256	<=10	Pass

14.2 Test Graph

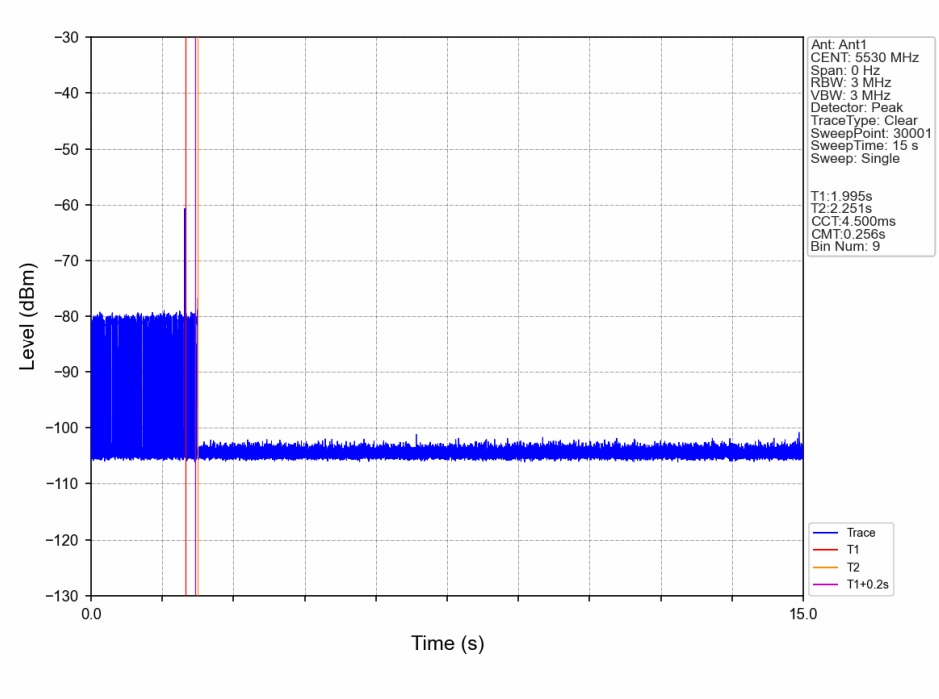
CMT_CTT

Channel Move Time and Closing Transmission Time_802.11ac(VHT80)_U-NII-2A_5290MHz



CMT_CTT

Channel Move Time and Closing Transmission Time_802.11ac(VHT80)_U-NII-2C_5530MHz



15 Non-Occupancy Period

15.1 Test Result

Period

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

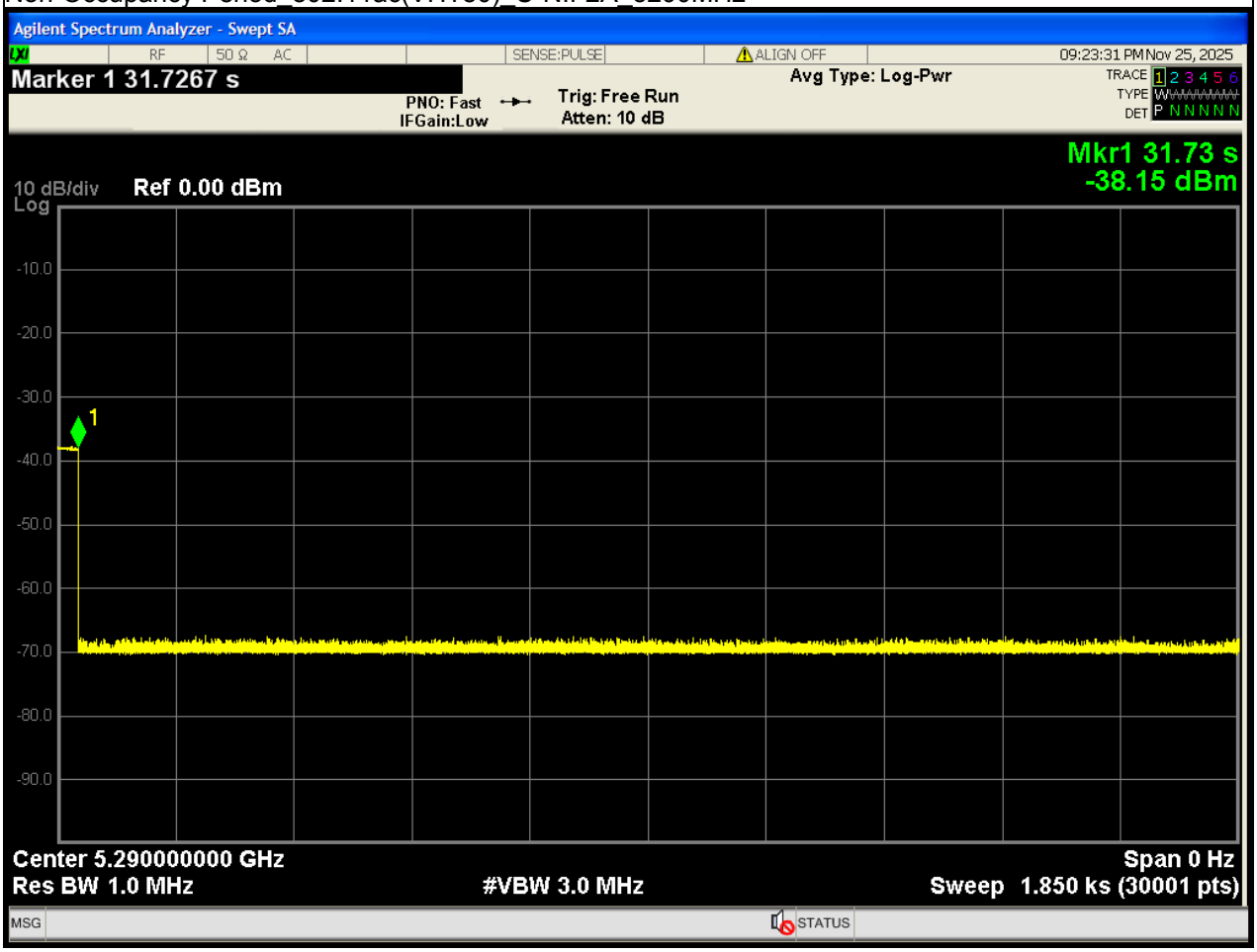
Period

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

15.2 Test Graph

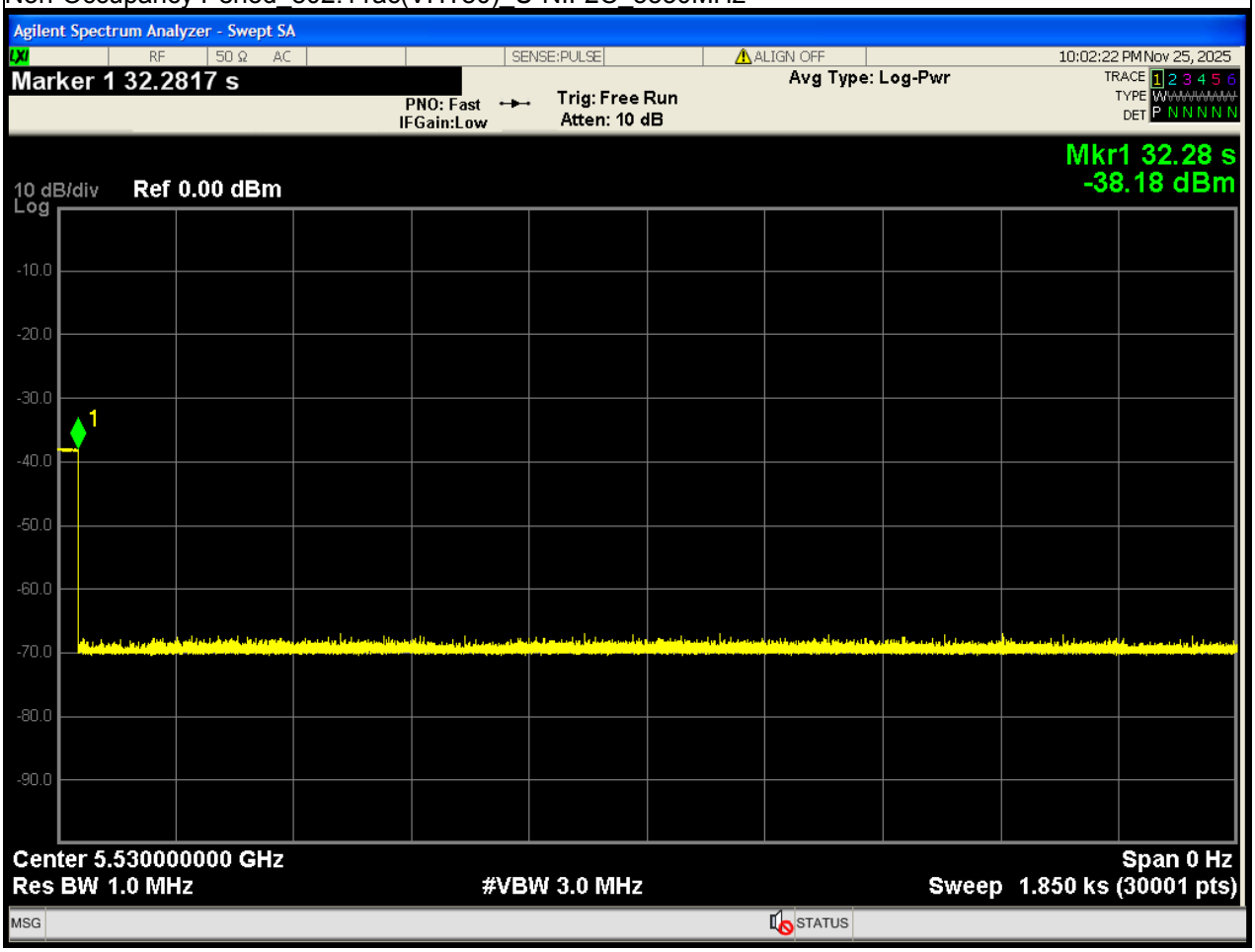
Period

Non-Occupancy Period_802.11ac(VHT80)_U-NII-2A_5290MHz



Period

Non-Occupancy Period_802.11ac(VHT80)_U-NII-2C_5530MHz



16 Statistical Performance Check

16.1 Test Result

SPC

Band: U-NII-2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT20)	20	5320	1	93	>=60	Pass
			2	93	>=60	Pass
			3	95	>=60	Pass
			4	94	>=60	Pass
			ADP[1]	95	>=80	Pass
			5	92	>=80	Pass
			6	93	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

Band: U-NII-2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT40)	40	5310	1	94	>=60	Pass
			2	91	>=60	Pass
			3	90	>=60	Pass
			4	95	>=60	Pass
			ADP[1]	92	>=80	Pass
			5	93	>=80	Pass
			6	94	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

Band: U-NII-2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT80)	80	5290	1	95	>=60	Pass
			2	95	>=60	Pass
			3	100	>=60	Pass
			4	93	>=60	Pass
			ADP[1]	95	>=80	Pass
			5	100	>=80	Pass
			6	95	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

SPC

Band: U-NII-2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT20)	20	5720	1	92	>=60	Pass
			2	91	>=60	Pass
			3	92	>=60	Pass
			4	97	>=60	Pass
			ADP[1]	93	>=80	Pass
			5	95	>=80	Pass
			6	90	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

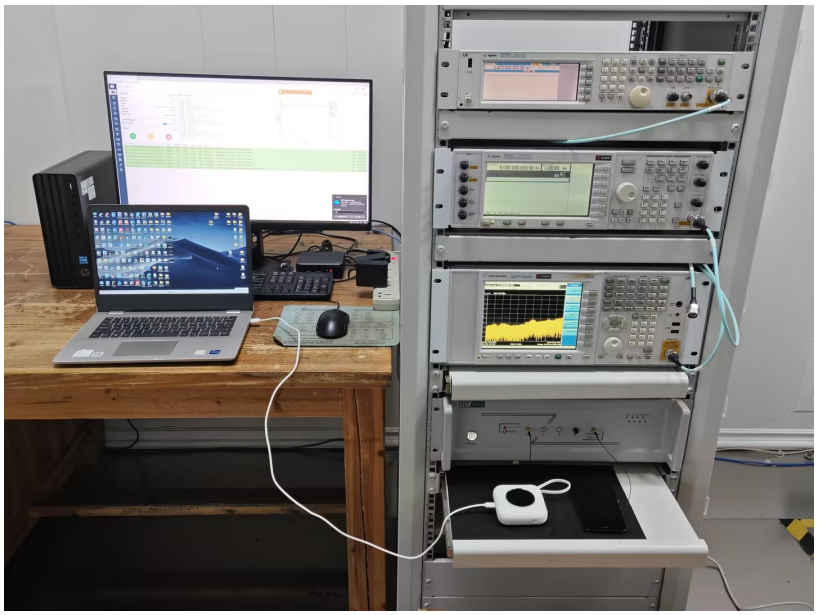
Band: U-NII-2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT40)	40	5710	1	90	>=60	Pass
			2	89	>=60	Pass
			3	88	>=60	Pass
			4	91	>=60	Pass
			ADP[1]	93	>=80	Pass
			5	95	>=80	Pass
			6	92	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

Band: U-NII-2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal Type	Detection Probability (%)		Verdict
				Result	Limit	
802.11ac (VHT80)	80	5530	1	87	>=60	Pass
			2	83	>=60	Pass
			3	87	>=60	Pass
			4	89	>=60	Pass
			ADP[1]	90	>=80	Pass
			5	91	>=80	Pass
			6	92	>=70	Pass
Note1: Aggregate Detection Probability of Type 1 ~ Type 4 (%)						

17 Photographs —Test Setup

17.1 Photograph - DFS

For DFS Test



======End of Report======