

DFS Test Report

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FCC ID: 2ACTO-APX320

Test Model: APX 320

Received Date: Mar. 13, 2017

Test Date: Mar. 19 to 26, 2018

Issued Date: May 03, 2018

Applicant: Sophos Ltd

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF170313E12A-2	Original release.	May 03, 2018

1 Certificate of Conformity

Product: Sophos Access Point

Brand: SOPHOS

Test Model: APX 320

Sample Status: ENGINEERING SAMPLE

Applicant: Sophos Ltd

Test Date: Mar. 19 to 26, 2018

Standards: FCC Part 15, Subpart E (Section 15.407)

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Wendy Wu , **Date:** May 03, 2018
Wendy Wu / Specialist

Approved by : May Chen , **Date:** May 03, 2018
May Chen / Manager

2 EUT Information

2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Master	✓	✓

2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

No.	Product	Model No.	Software/Firmware Version
1	Sophos Access Point	APX 320	2.0.1.2-5

2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

Radio 1							
WLAN - 2.4GHz + 5GHz							
Antenna No.	Transmitter Circuit	Brand	Model No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	WNC	NA	3.48 6.79	2.4~2.4835 5.47~5.85	PIFA	i-pex(MHF)
2	Chain (1)	WNC	NA	3.74 6.16	2.4~2.4835 5.47~5.85	PIFA	i-pex(MHF)
Radio 2							
WLAN 5GHz							
Antenna No.	Transmitter Circuit	Brand	Model No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	WNC	NA	4.87	5.15~5.35	PIFA	i-pex(MHF)
2	Chain (1)	WNC	NA	5.64	5.15~5.35	PIFA	i-pex(MHF)
Radio 3							
Bluetooth - 2.4GHz							
Antenna No.	Transmitter Circuit	Brand	Model No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	WNC	NA	1.87	2.4~2.4835	PIFA	i-pex(MHF)

2.4 EUT Maximum and Minimum Conducted Power

Table 4: The Measured Conducted Output Power

802.11a

1Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.38	137.404	15.38	34.514
5470~5725	23.17	207.491	17.17	52.119

802.11ac (VHT20)

1Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.25	133.352	15.25	33.497
5470~5725	23.10	204.174	17.10	51.286

802.11ac (VHT40)

1Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	22.01	158.855	16.01	39.902
5470~5725	22.97	198.153	16.97	49.774

802.11ac (VHT80)

1Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	18.35	68.391	12.35	17.179
5470~5725	22.78	189.671	16.78	47.643

802.11a

2Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.58	143.758	15.58	36.141
5470~5725	20.48	111.812	14.48	28.054

802.11ac (VHT20)

2Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.53	142.195	15.53	35.727
5470~5725	20.28	106.714	14.28	26.792

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.53	142.195	15.53	35.727
5470~5725	20.28	106.714	14.28	26.792

802.11ac (VHT40)

2Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	23.64	231.012	17.64	58.076
5470~5725	23.05	201.629	17.05	50.699

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	21.55	142.985	15.55	35.892
5470~5725	20.44	110.544	14.44	27.797

802.11ac (VHT80)

2Tx CDD Mode

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	19.26	84.396	13.26	21.184
5470~5725	23.06	202.267	17.06	50.816

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	19.26	84.396	13.26	21.184
5470~5725	20.45	110.983	14.45	27.861

2.5 EUT Maximum and Minimum EIRP Power

Table 5: The EIRP Output Power List

802.11a

1Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	26.25	421.696	20.25	105.925
5470~5725	29.96	990.830	23.96	248.886

802.11ac (VHT20)

1Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	26.12	409.260	20.12	102.802
5470~5725	29.89	974.991	23.89	244.906

802.11ac (VHT40)

1Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	26.88	487.529	20.88	122.462
5470~5725	29.76	946.239	23.76	237.684

802.11ac (VHT80)

1Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	23.22	209.893	17.22	52.723
5470~5725	29.57	905.735	23.57	227.510

802.11a

2Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	27.22	526.783	21.22	132.434
5470~5725	27.27	533.935	21.27	133.968

802.11ac (VHT20)

2Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	27.17	521.056	21.17	130.918
5470~5725	27.07	509.591	21.07	127.938

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	29.80	954.738	23.80	239.883
5470~5725	29.77	948.902	23.77	238.232

802.11ac (VHT40)

2Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	29.28	846.515	23.28	212.814
5470~5725	29.84	962.837	23.84	242.103

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	29.82	960.043	23.82	240.991
5470~5725	29.93	982.958	23.93	247.172

802.11ac (VHT80)

2Tx CDD Mode

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	24.90	309.259	18.90	77.625
5470~5725	29.85	965.884	23.85	242.661

2Tx Beamforming Mode MCS0NSS1

Frequency Band (MHz)	MAX. EIRP Power		MIN. EIRP Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350	27.53	566.659	21.53	142.233
5470~5725	29.94	986.862	23.94	247.742

2.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Applicable	EIRP	FCC 15.407 (h)(1)
√	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
	<500mW	The TPC mechanism is not required for system with an EIRP of less 500mW

The UUT can adjust a transmitter's output power based on the signal level present at the receiver. TPC is auto controlled by software.

2.7 Statement of Manufacturer

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

3. U-NII DFS Rule Requirements

3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior to Use a Channel

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	✓ note	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), 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. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation.

Requirement	Operational Mode	
	Master or Client with radar detection	Client without radar detection
DFS Detection Threshold	✓	Not required
Channel Closing Transmission Time	✓	✓
Channel Move Time	✓	✓
U-NII Detection Bandwidth	✓	Not required

Additional requirements for devices with multiple bandwidth modes	Master 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.

3.2 Test Limits and Radar Signal Parameters

Detection Threshold Values

Table 8: 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.

Table 9: 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.

Parameters of DFS Test Signals

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.

Table 10: Short Pulse Radar Test Waveforms

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

Table 11: 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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

a) the Channel center frequency
b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

$FL + (0.4 * \text{Chirp Width [in MHz]})$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$FH - (0.4 * \text{Chirp Width [in MHz]})$

Table 12: 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

4. Test & Support Equipment List

4.1 Test Instruments

Table 13: Test Instruments List

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	Jul. 01, 2017	Jun. 30, 2018
Vector Signal Generator Agilent	N5182B	MY53051263	Sep. 13, 2017	Sep. 12, 2018
Horn_Antenna EMCO	1018G	0001	Dec. 12, 2017	Dec. 11, 2018
DFS Control Box	BV-DFS-CB	001	Sep. 18, 2017	Sep. 17, 2018

4.2 Description of Support Units

Table 14: Support Unit Information

No.	Product	Brand	Model No.	FCC ID	Spec
1	WiFi USB Adapter	NETGEAR	A6210	PY313400249	

NOTE: This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

Table 15: Software/Firmware Information

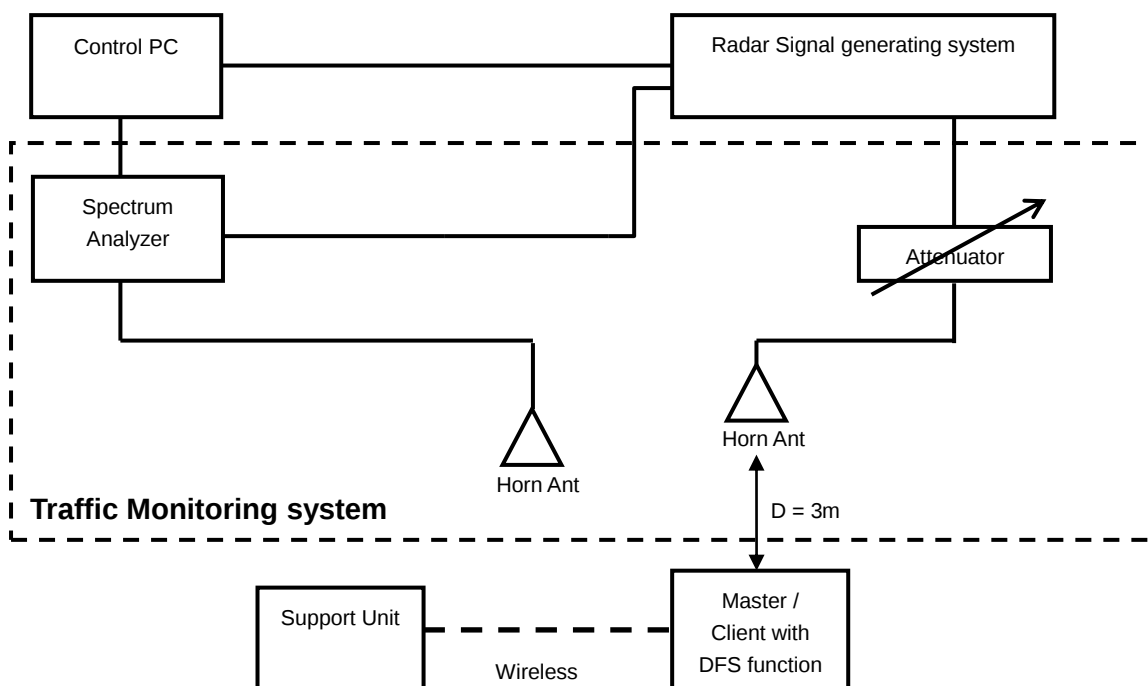
No.	Product	Model No.	Software/Firmware Version
1	WiFi USB Adapter	A6210	Driver Version: 04/21/2015, 5.1.22.0

5. Test Procedure

5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating system and (2) the Traffic Monitoring system. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

Radiated Setup Configuration of DFS Measurement System



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:

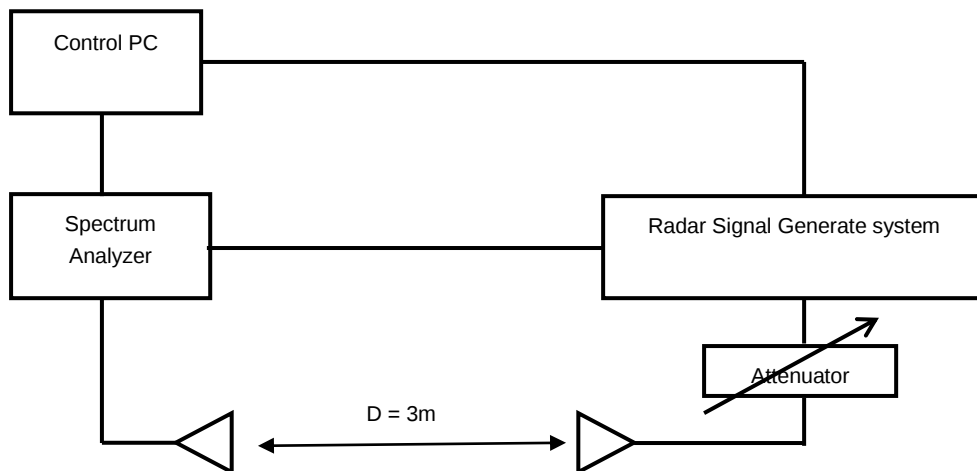
a)	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.	
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	
c)	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.	✓
d)	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.	

5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5300MHz / 5500MHz and 5310MHz / 5510MHz and 5290MHz / 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.



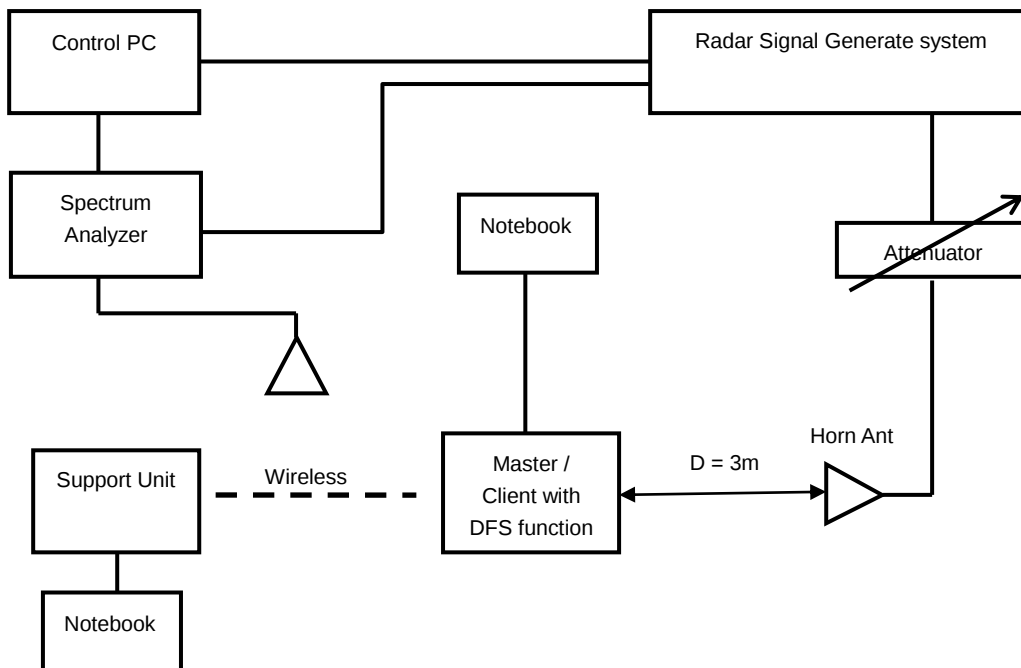
5.3 Deviation from Test Standard

No deviation.

5.4 Radiated Test Setup Configuration

Master mode

The EUT is a U-NII Device operating in Master mode. The radar test signals are injected into the Master Device.



Note: The UUT main beam of the antenna is directly toward the radar emitter during testing.

6. Test Results

6.1 Summary of Test Results

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Applicable	Pass
15.407	Channel Availability Check Time	Applicable	Pass
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	U-NII Detection Bandwidth	Applicable	Pass

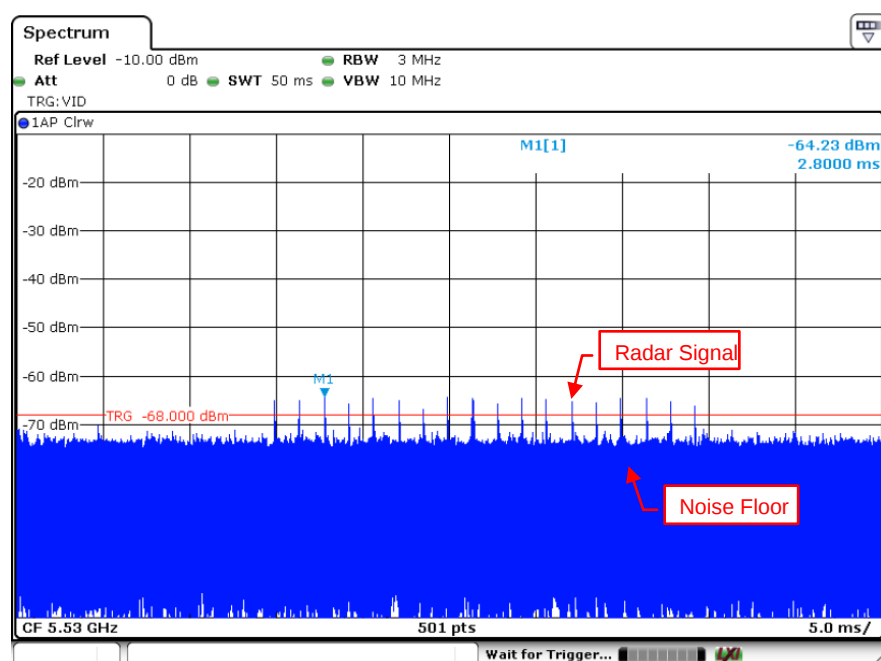
6.2 Test Results

6.2.1 Test Mode: Device Operating In Master Mode.

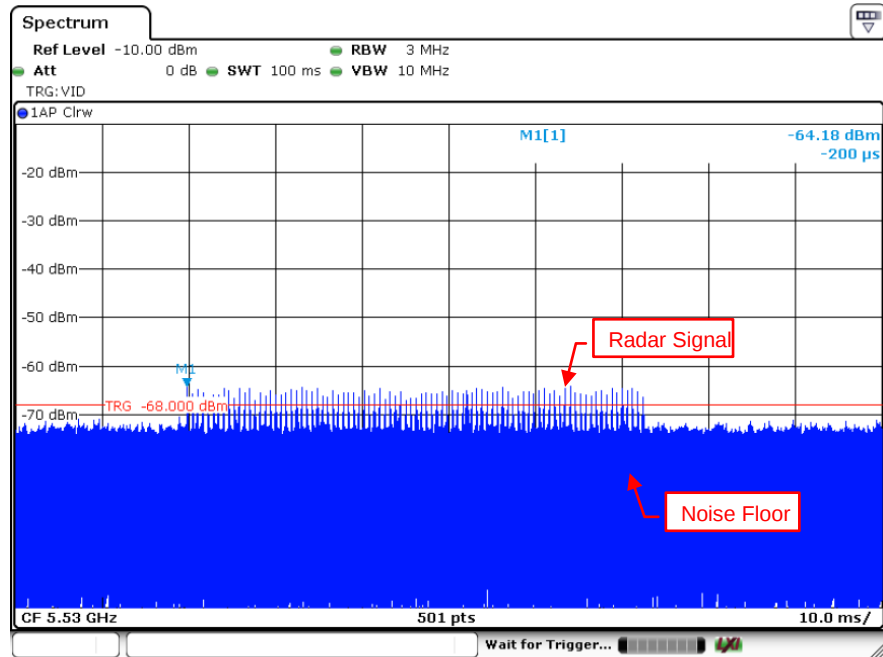
The radar test waveforms are injected into the Master.
This test was investigated for different bandwidth (20MHz · 40MHz and 80MHz).
The following plots was done on 80MHz as a representative

DFS Detection Threshold

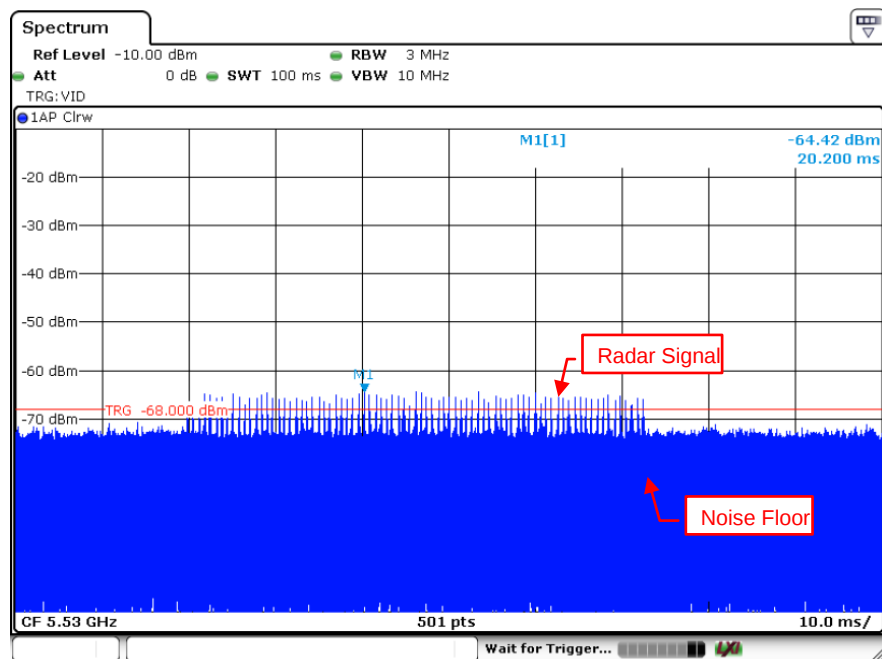
For detection threshold level of -64dBm, the tested level is lower than required level for 1dB, hence it provides margin to the limit.



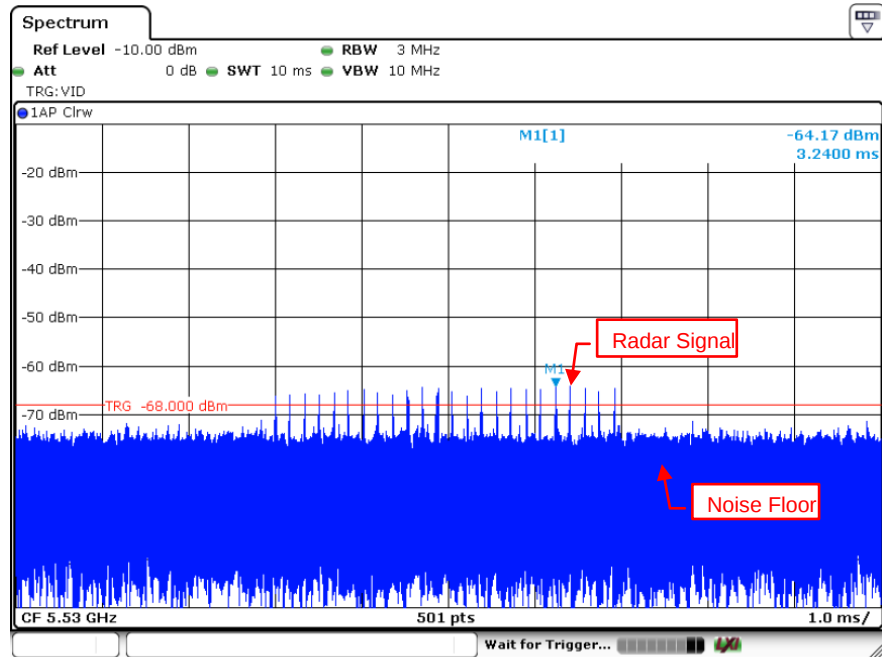
Radar Signal 0



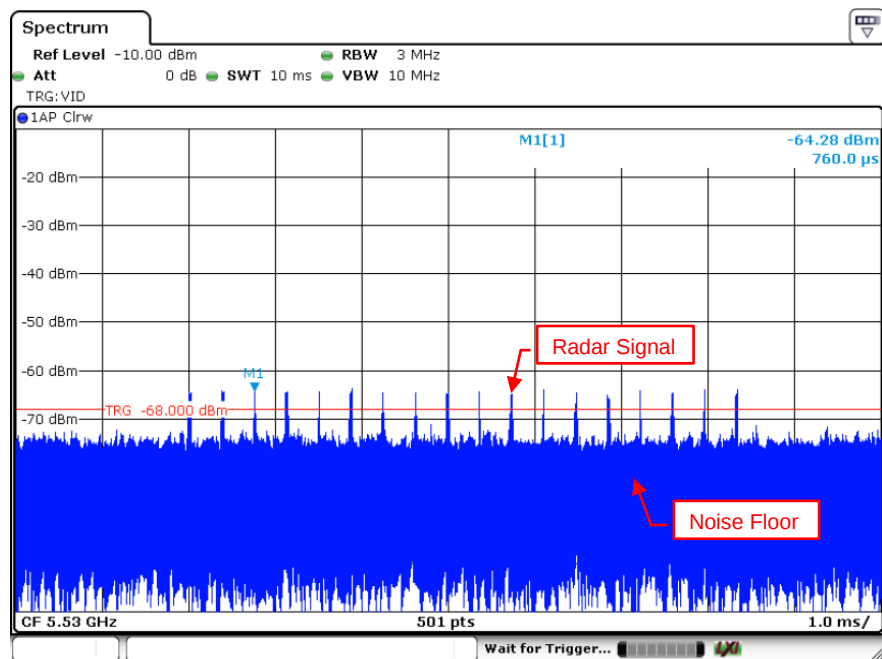
Radar Signal 1 (Test A)



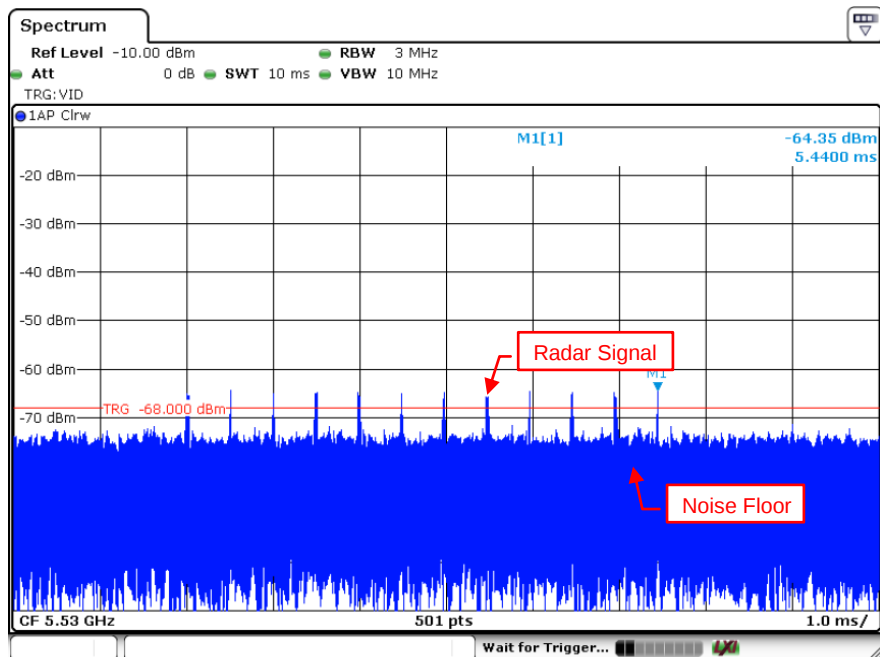
Radar Signal 1 (Test B)



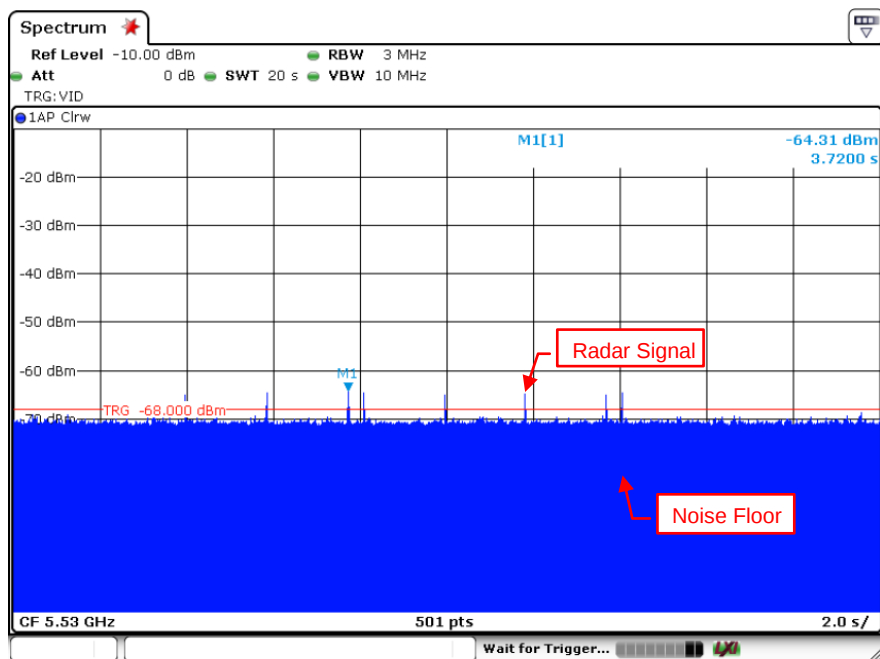
Radar Signal 2



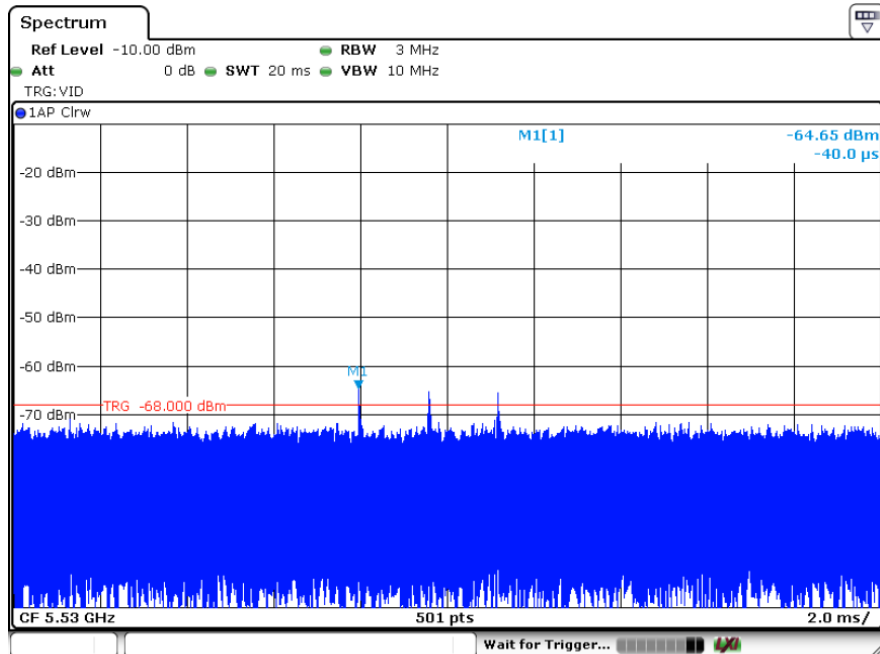
Radar Signal 3



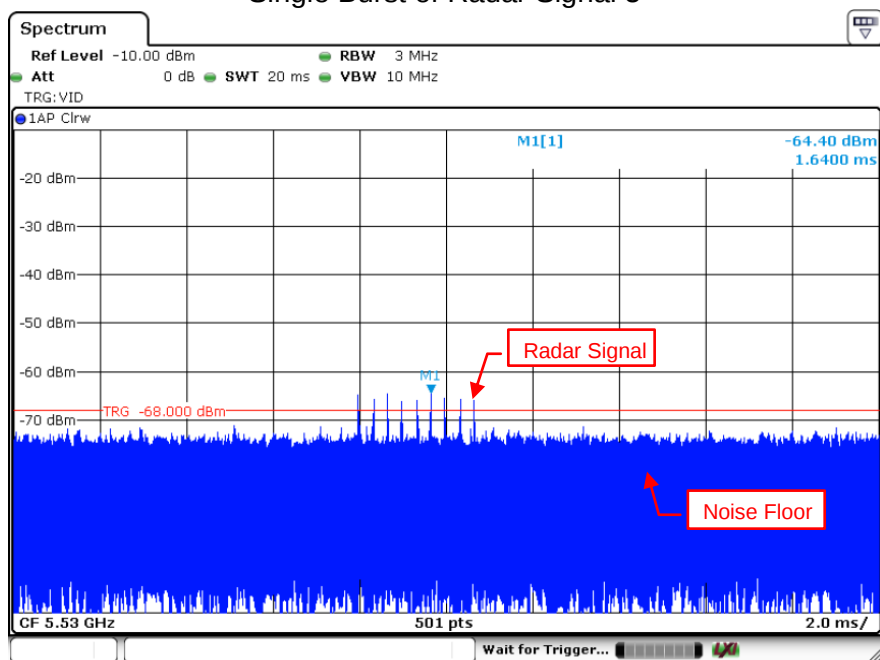
Single Burst of Radar Signal 4



Radar Signal 5



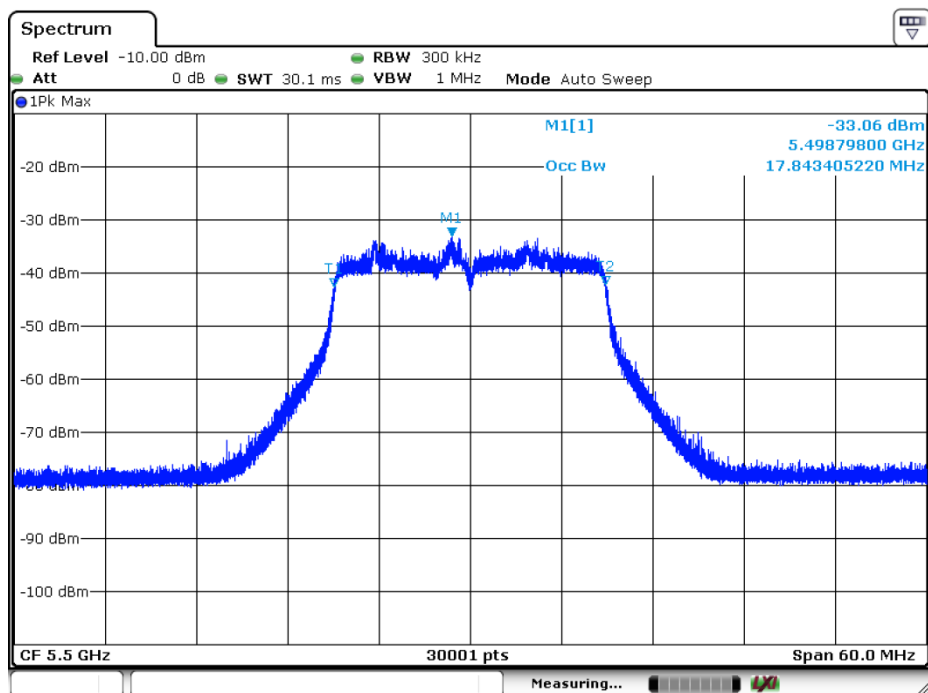
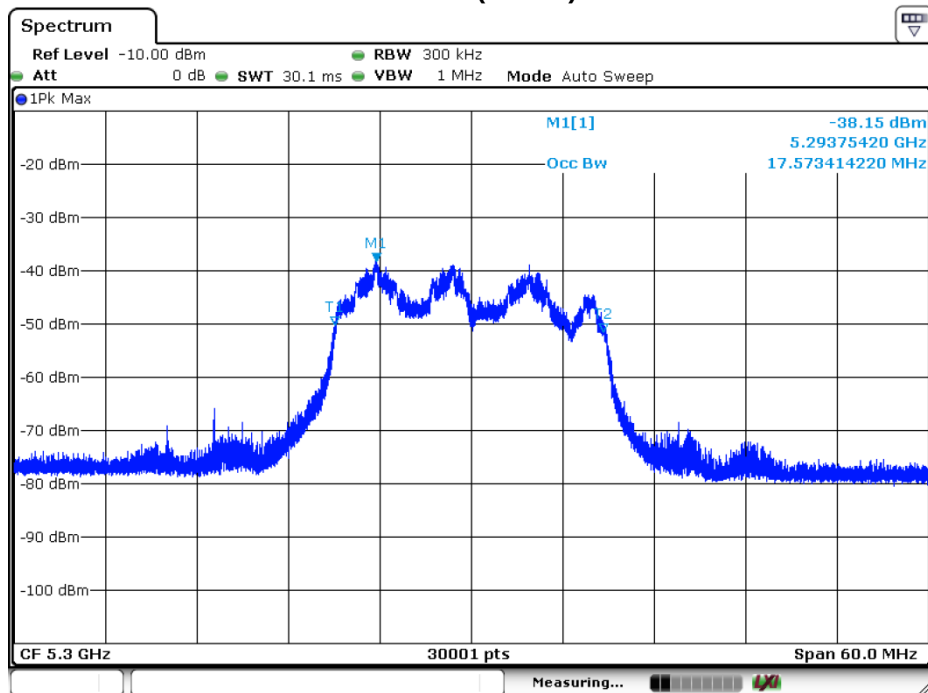
Single Burst of Radar Signal 5



Radar Signal 6

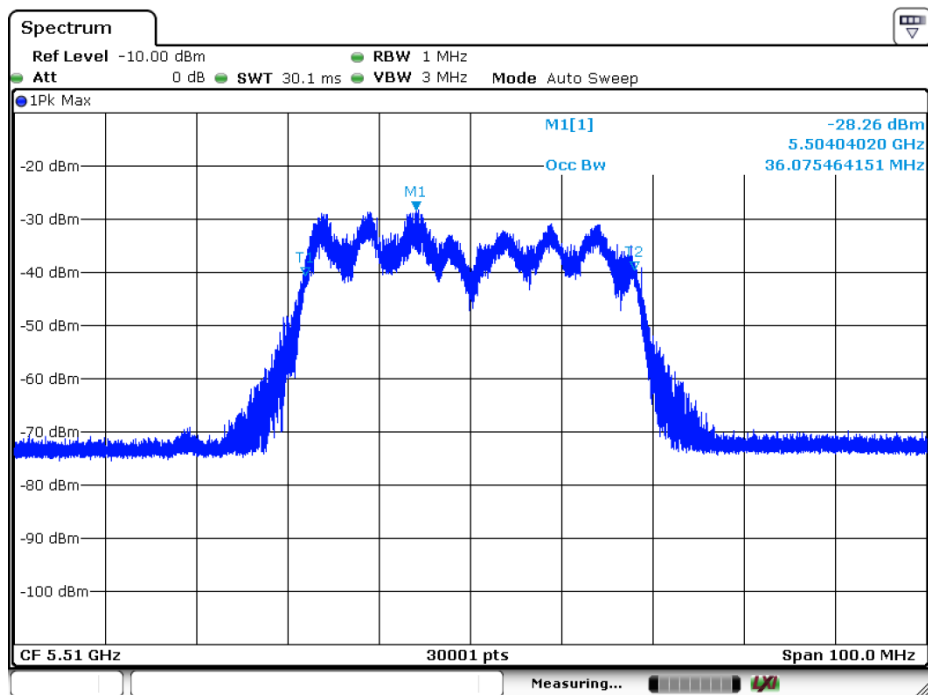
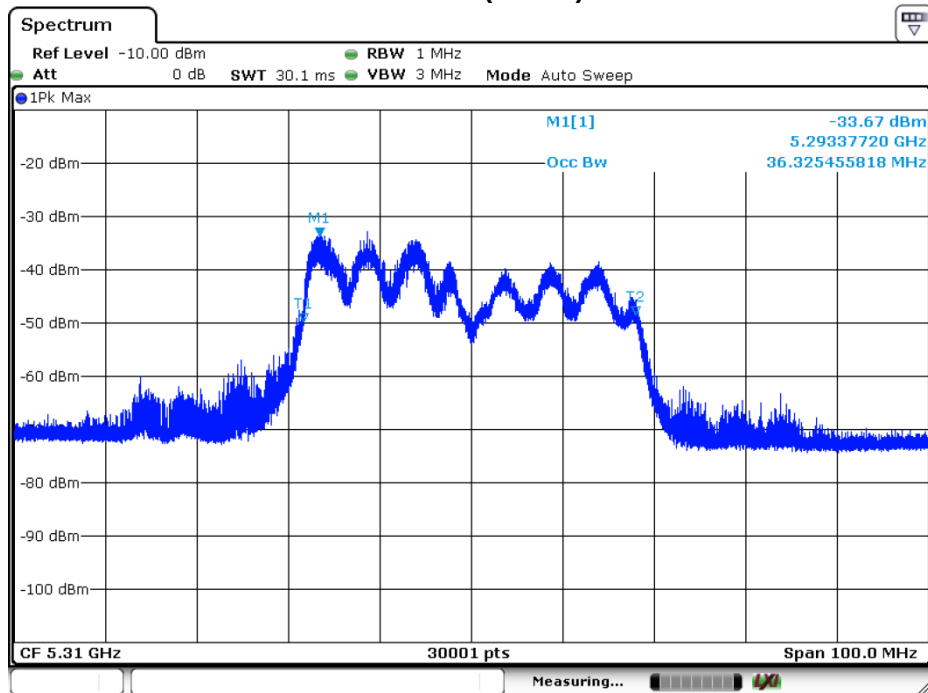
6.2.2 U-NII Detection Bandwidth

802.11ac (VHT20)



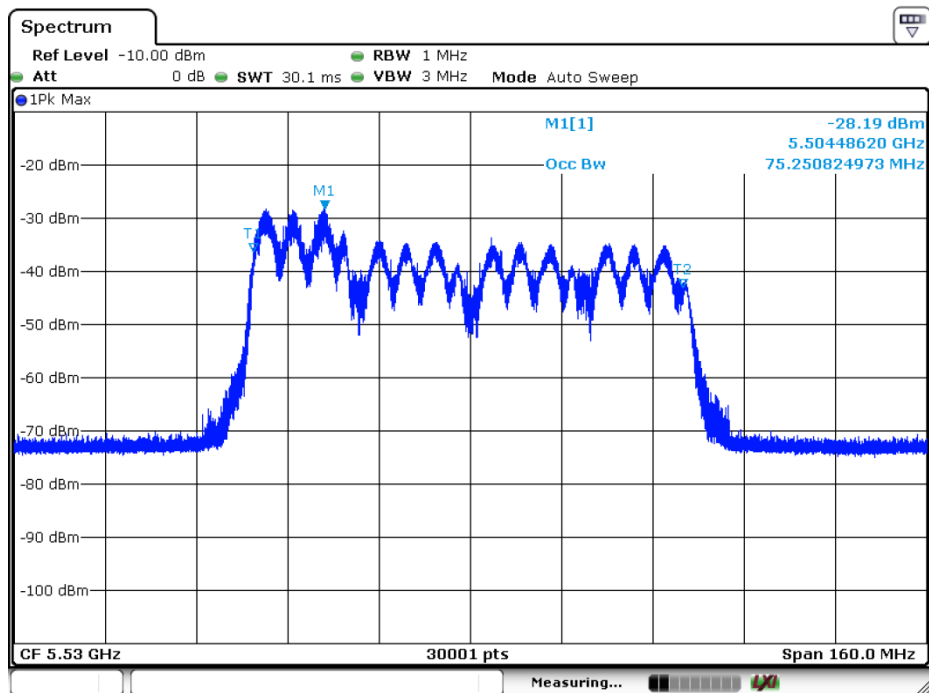
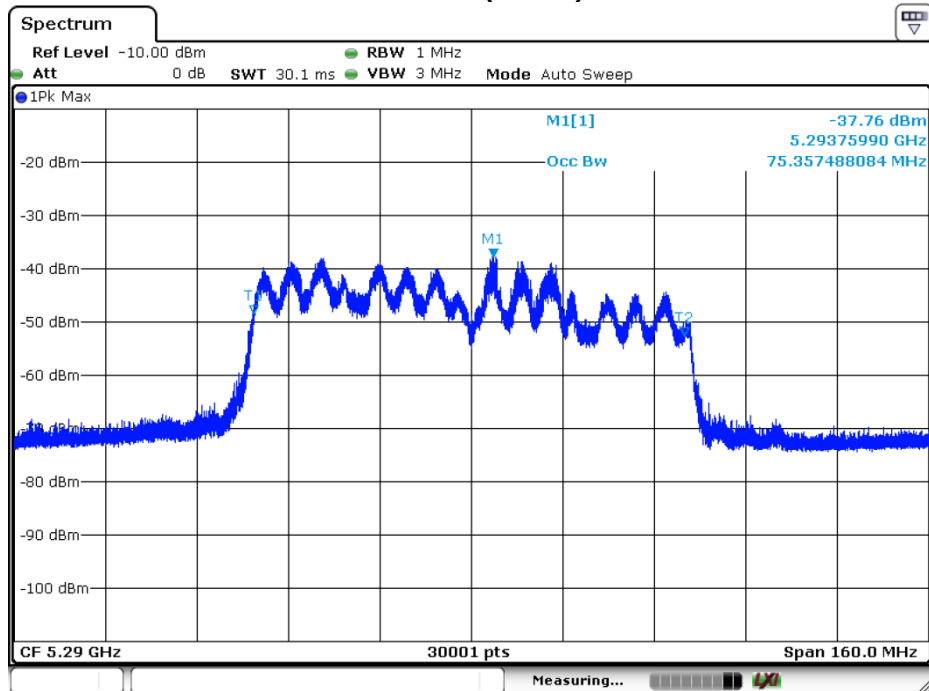
U-NII 99% Channel bandwidth

802.11ac (VHT40)



U-NII 99% Channel bandwidth

802.11ac (VHT80)



U-NII 99% Channel bandwidth

Detection Bandwidth Test - 802.11ac (VHT20)

Radar Type 0

EUT Frequency: 5300MHz

EUT 99% Power bandwidth: 17.573MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.573MHz

Detection bandwidth (5309(FH) – 5291(FL)) : 18MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.291G(FL)	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	90
5.292G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.293G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.294G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.295G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.296G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.297G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.298G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.299G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.300G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.301G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.302G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.303G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.304G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.305G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.306G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.307G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.308G	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	90
5.309G(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ac (VHT20)

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 17.843MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.843MHz

Detection bandwidth (5509(FH) – 5491(FL)) : 18MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.491G(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.492G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.494G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.495G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.509G(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ac (VHT40)

Radar Type 0

EUT Frequency: 5310MHz

EUT 99% Power bandwidth: 36.325MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.325MHz

Detection bandwidth (5329(FH) – 5291(FL)) : 38MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.291G(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.292G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.293G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.294G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.295G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.296G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.297G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.298G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.299G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.300G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.301G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.302G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.303G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.304G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.305G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.306G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.307G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.308G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.309G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.310G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.311G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.312G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.313G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.314G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.315G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.316G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.317G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.318G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.319G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.320G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.321G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.322G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.323G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.324G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.325G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.326G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.327G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.328G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.329G(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ac (VHT40)

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 36.075MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.075MHz

Detection bandwidth (5529(FH) – 5491(FL)) : 38MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5491(FL)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	90
5492	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5506	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5510	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5512	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5513	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5514	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5515	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5516	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5518	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5519	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5521	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5522	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5523	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5524	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5525	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5526	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5527	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5528	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5529(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	90

Detection Bandwidth Test - 802.11ac (VHT80)

Radar Type 0

EUT Frequency: 5290MHz

EUT 99% Power bandwidth: 75.357MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.357MHz

Detection bandwidth (5328(FH) – 5252(FL)) : 76MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5252(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5253	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5254	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5255	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5256	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5257	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5258	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5259	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5260	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5261	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5262	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5263	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5264	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5265	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5266	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5267	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5268	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5269	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5270	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5271	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5272	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5273	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5274	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5275	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5276	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5277	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5278	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5279	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5280	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5281	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5282	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5283	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5284	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5285	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5286	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5287	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5288	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5289	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5290	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5291	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5292	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5293	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5295	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5296	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

5297	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5298	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5299	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5300	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5301	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5302	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5303	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5304	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5305	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5306	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5307	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5308	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5309	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5311	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5312	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5313	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5314	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5315	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5316	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5317	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5318	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5319	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5320	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5321	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5322	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5323	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5324	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5325	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5326	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5327	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5328(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

Detection Bandwidth Test - 802.11ac (VHT80)

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 75.251MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.251MHz

Detection bandwidth (5568(FH) – 5492(FL)) : 76MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5492(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5506	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5510	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5512	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5513	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5514	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5515	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5516	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5518	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5519	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5521	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5522	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5523	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5524	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5525	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5526	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5527	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5528	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5529	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5530	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5531	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5532	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5533	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5534	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5535	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5536	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

5537	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5538	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5539	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5540	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5541	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5542	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5543	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5544	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5545	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5546	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5547	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5548	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5549	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5551	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5552	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5553	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5554	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5555	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5556	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5557	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5558	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5559	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5560	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5561	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5562	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5563	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5564	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5565	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5566	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5567	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5568(FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100

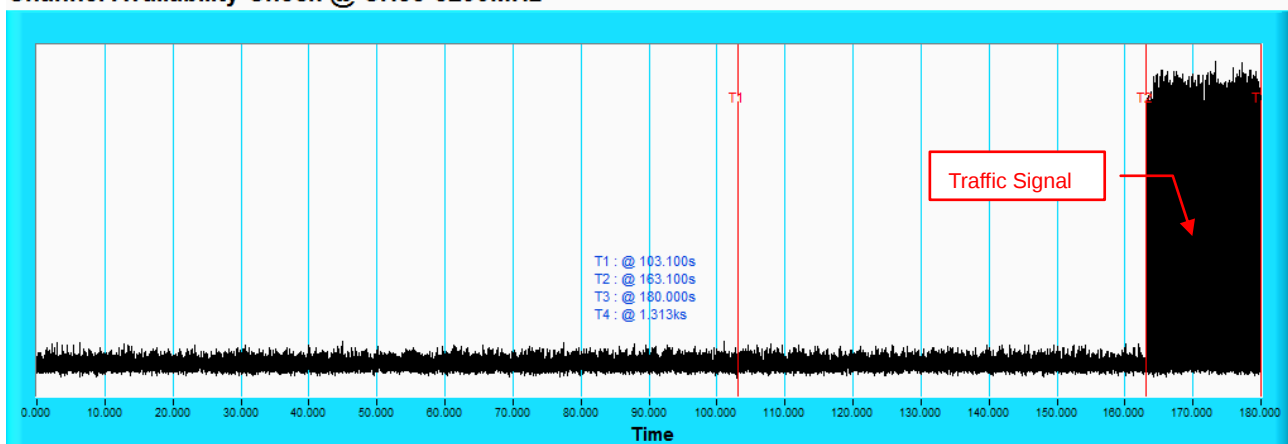
6.2.3 Channel Availability Check Time

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

Timing of Radar Signal	Observation	
	EUT	Spectrum Analyzer
Within 1 to 6 second	Detected	No transmissions
Within 54 to 60 second	Detected	No transmissions

Initial Channel Availability Check Time

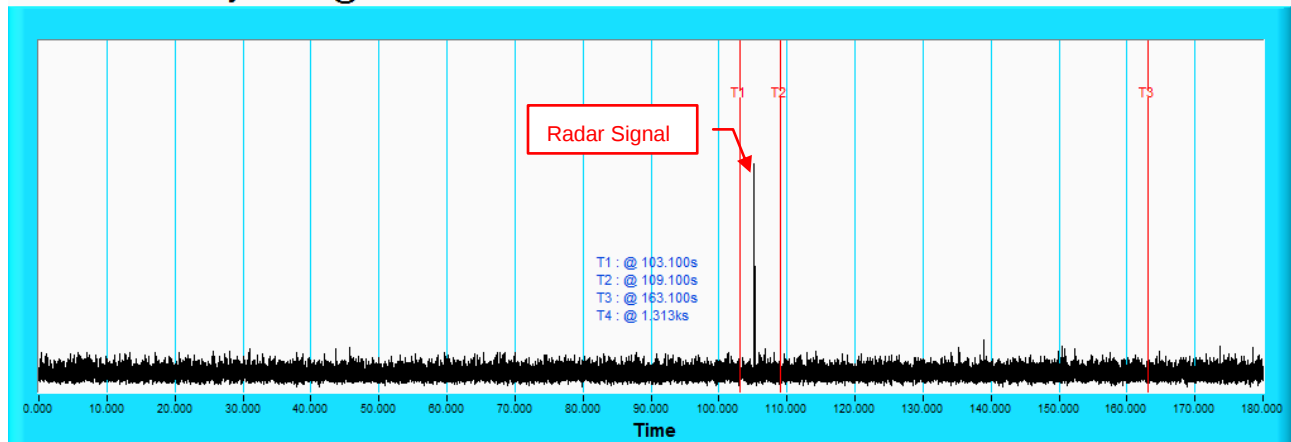
Channel Availability Check @ CH58-5290MHz



NOTE: T1 denotes the end of power-up time period is 103.1th second. T2 denotes the end of Channel Availability Check time is 163.1th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time

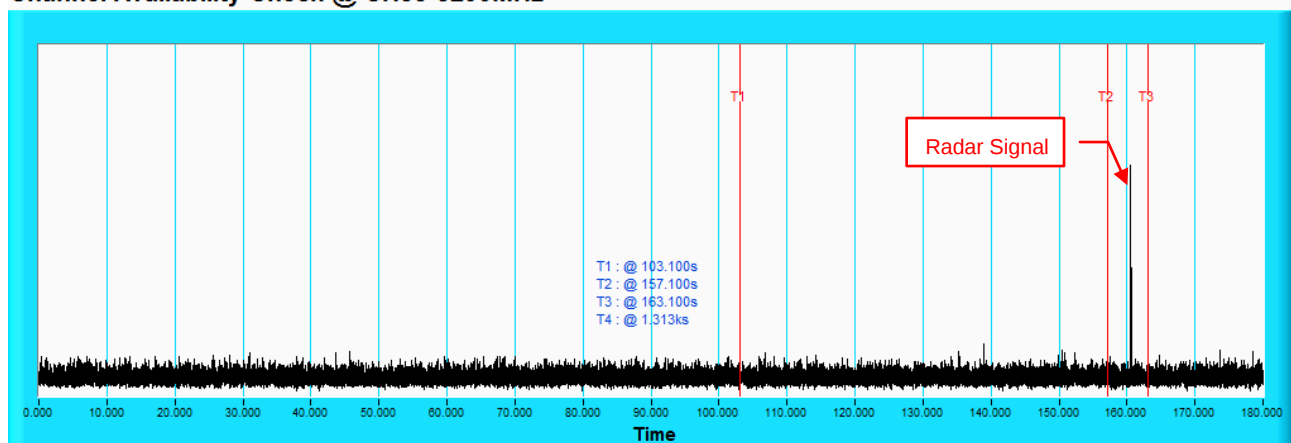
Channel Availability Check @ CH58-5290MHz



NOTE: T1 denotes the end of power up time period is 103.1th second. T2 denotes 109.1th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T3 denotes the 163.1th second.

Radar Burst at the End of the Channel Availability Check Time

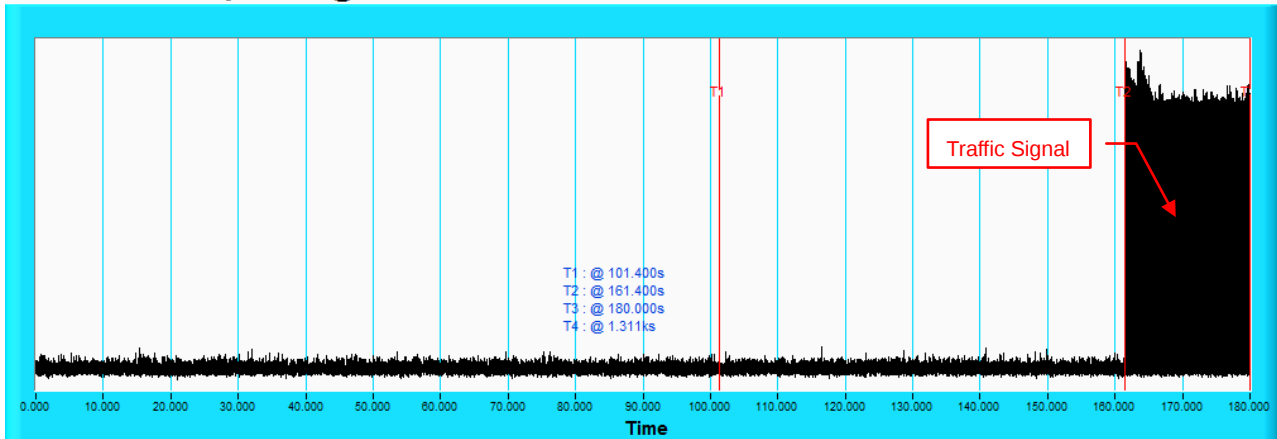
Channel Availability Check @ CH58-5290MHz



NOTE: T2 denotes the end of power up time period is 157.1th second. T3 denotes 163.1th second and the radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T1 denotes the 103.1th second.

Initial Channel Availability Check Time

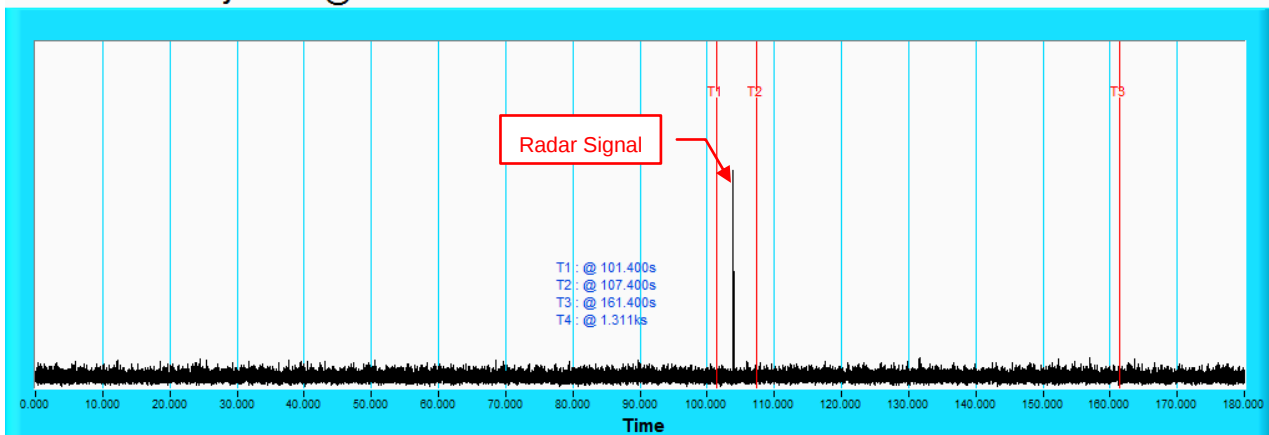
Channel Availability Check @ CH106-5530MHz



NOTE: T1 denotes the end of power-up time period is 101.4th second. T2 denotes the end of Channel Availability Check time is 161.4th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time

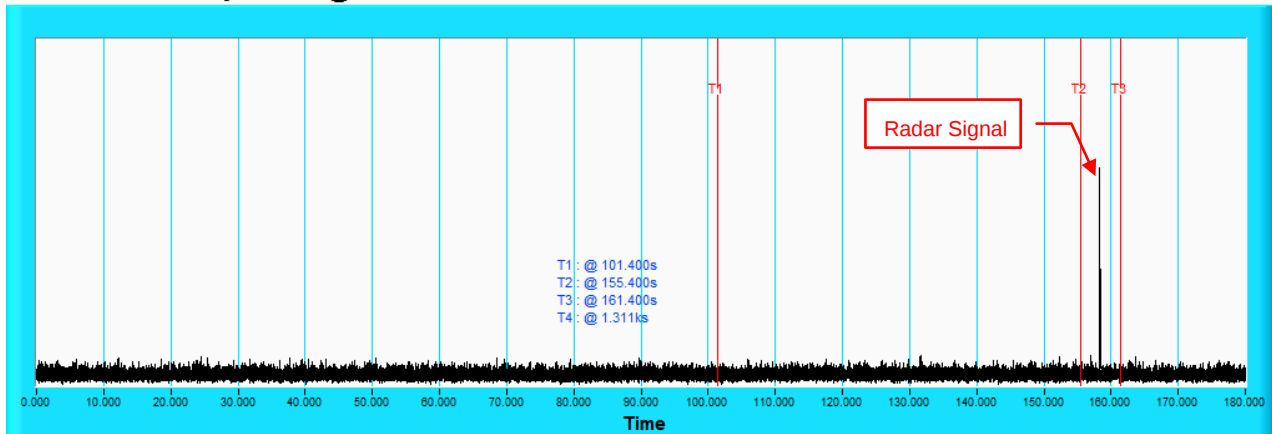
Channel Availability Check @ CH106-5530MHz



NOTE: T1 denotes the end of power up time period is 101.4th second. T2 denotes 107.4th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T3 denotes the 161.4th second.

Radar Burst at the End of the Channel Availability Check Time

Channel Availability Check @ CH106-5530MHz



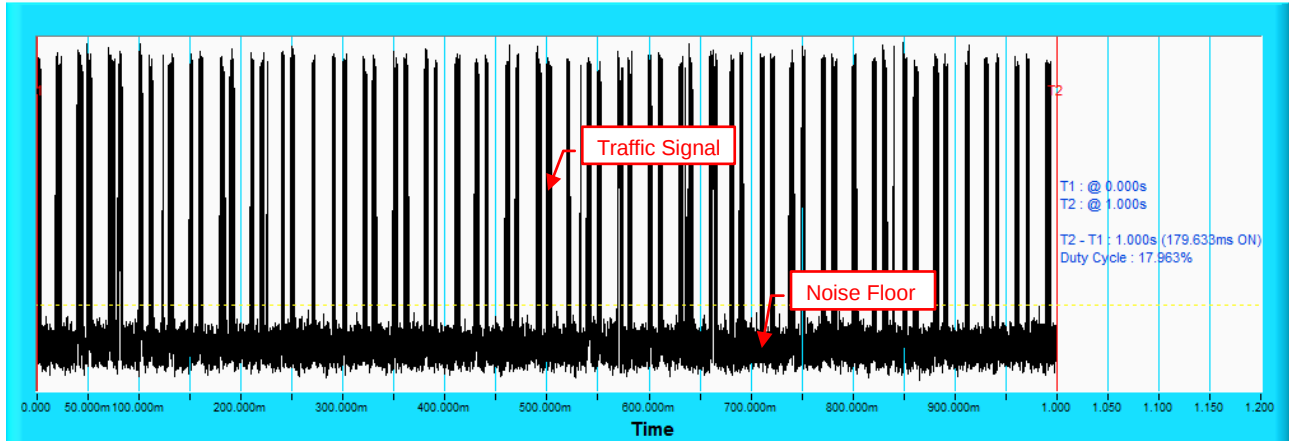
NOTE: T2 denotes the end of power up time period is 155.4th second. T3 denotes 161.4th second and the radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T1 denotes the 101.4th second.

6.2.4 Channel Closing Transmission and Channel Move Time

Wireless Traffic Loading

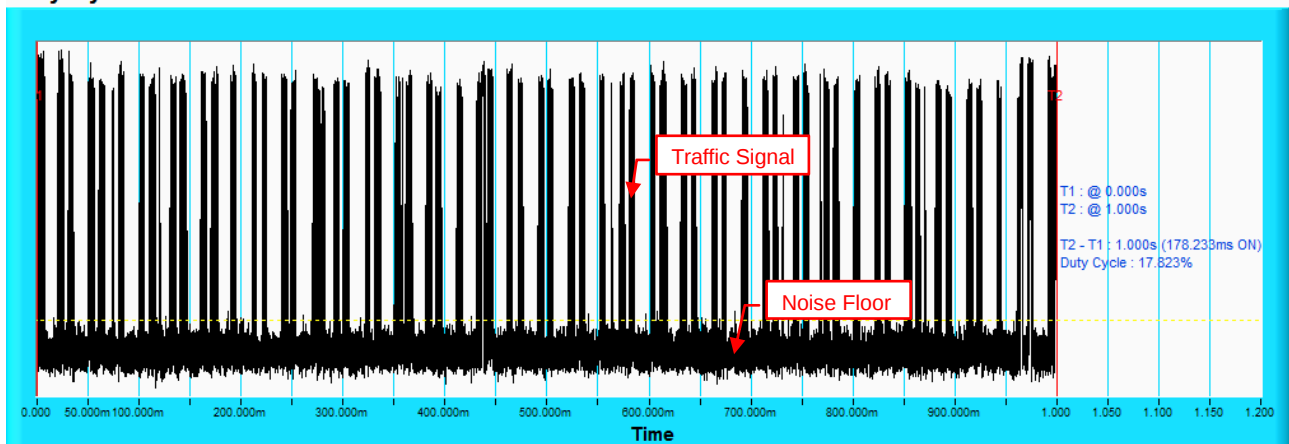
802.11ac (VHT20)

Duty Cycle



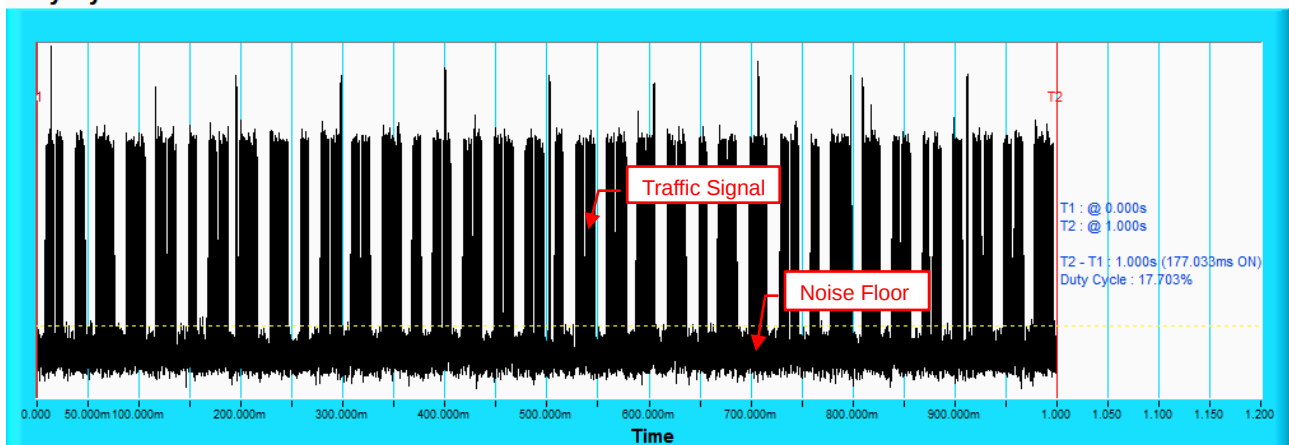
802.11ac (VHT40)

Duty Cycle



802.11ac (VHT80)

Duty Cycle



802.11ac (VHT20) CH60

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \right\}$	18	30	90
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	90
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	86.7
Aggregate (Radar Types 1-4)				120	87.5

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	90

802.11ac (VHT20) CH100

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right\} \right\}$	18	30	86.7
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	76.7
3	6-10	200-500	16-18	30	76.7
4	11-20	200-500	12-16	30	86.7
Aggregate (Radar Types 1-4)				120	81.67

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	86.7

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	90

802.11ac (VHT40) CH62

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right\rceil \right\}$	18	30	93.3
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	90
3	6-10	200-500	16-18	30	90
4	11-20	200-500	12-16	30	86.7
Aggregate (Radar Types 1-4)				120	90

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	83.3

802.11ac (VHT40) CH102

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right\} \right\}$	18	30	83.3
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	86.7
3	6-10	200-500	16-18	30	80
4	11-20	200-500	12-16	30	73.3
Aggregate (Radar Types 1-4)				120	80.83

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	90

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	90

802.11ac (VHT80) CH58

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \right\}$	18	30	90
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	90
3	6-10	200-500	16-18	30	86.7
4	11-20	200-500	12-16	30	86.7
Aggregate (Radar Types 1-4)				120	88.33

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	86.7

802.11ac (VHT80) CH106

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{PRI_{\mu \text{ sec}}} \right\rceil \right\}$	18	30	86.7
	Test B: 15 unique PRI values randomly selected within the range of 518~3066μ sec with a minimum of 1μ sec, excluding PRI values selected in Test A				
2	1-5	150-230	23-29	30	86.7
3	6-10	200-500	16-18	30	86.7
4	11-20	200-500	12-16	30	83.3
Aggregate (Radar Types 1-4)				120	85.83

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	90

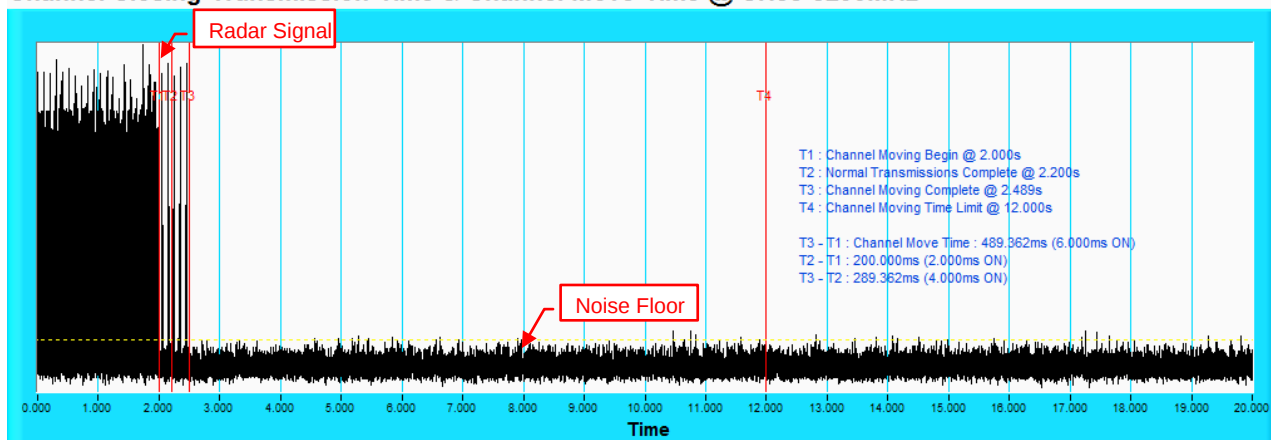
Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	90

Radar signal 0

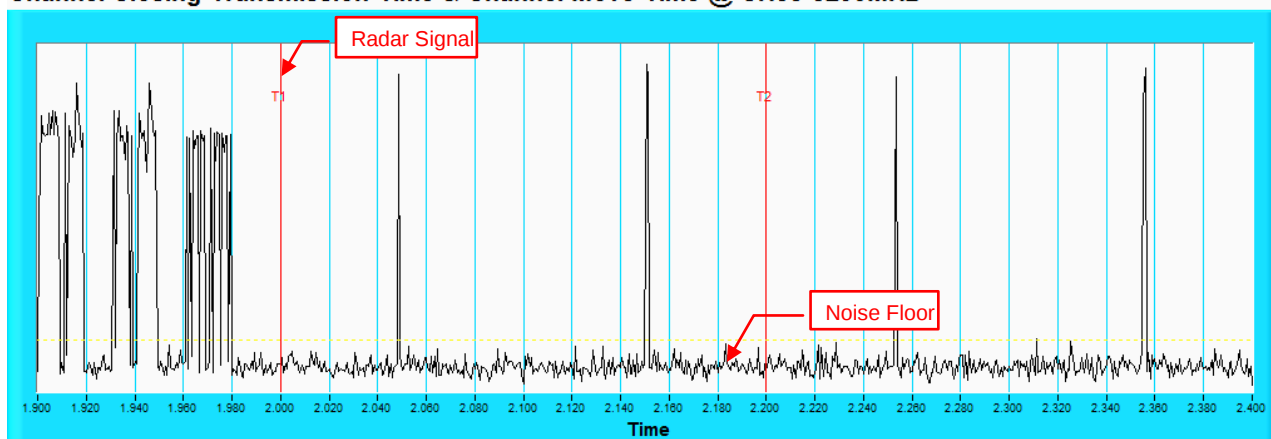
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz

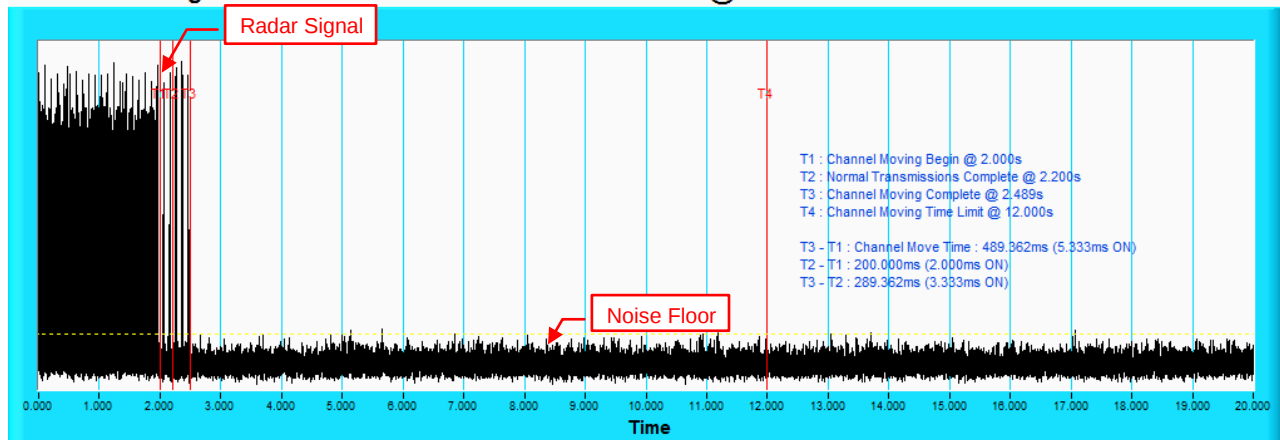


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 1

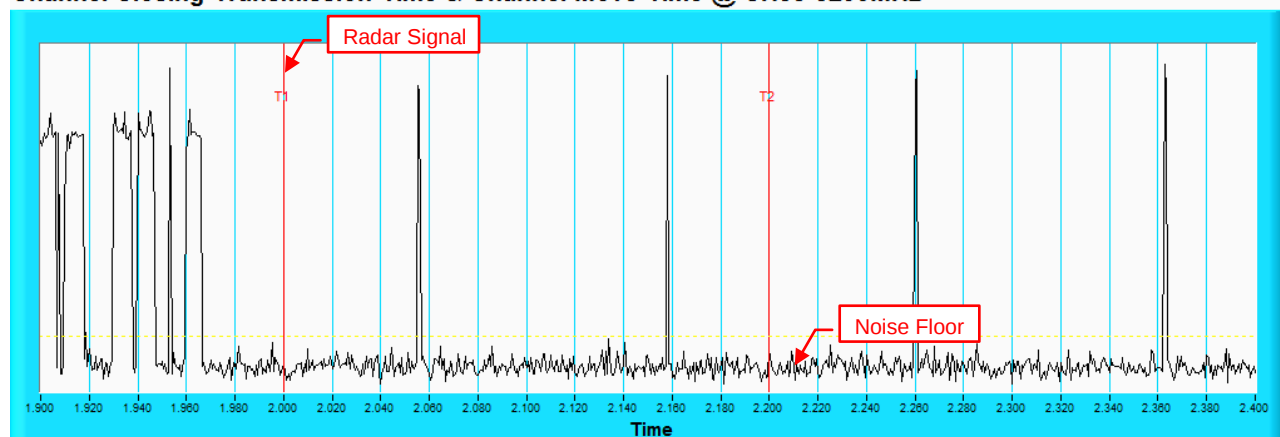
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz

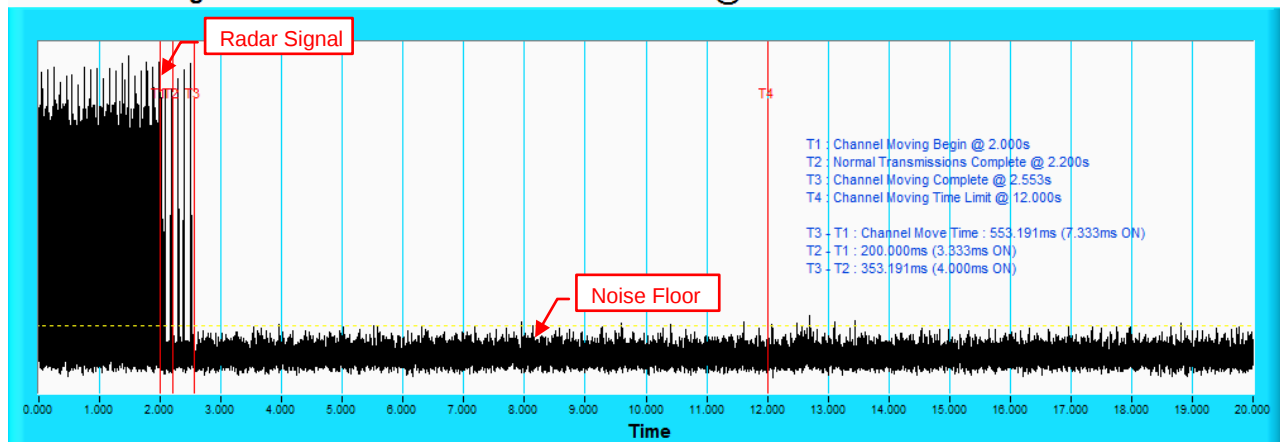


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 2

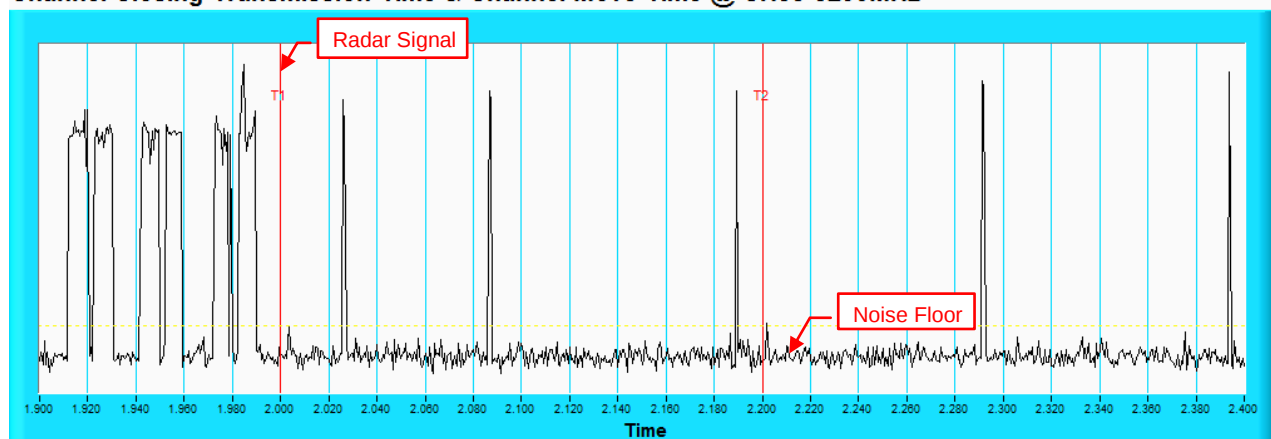
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz

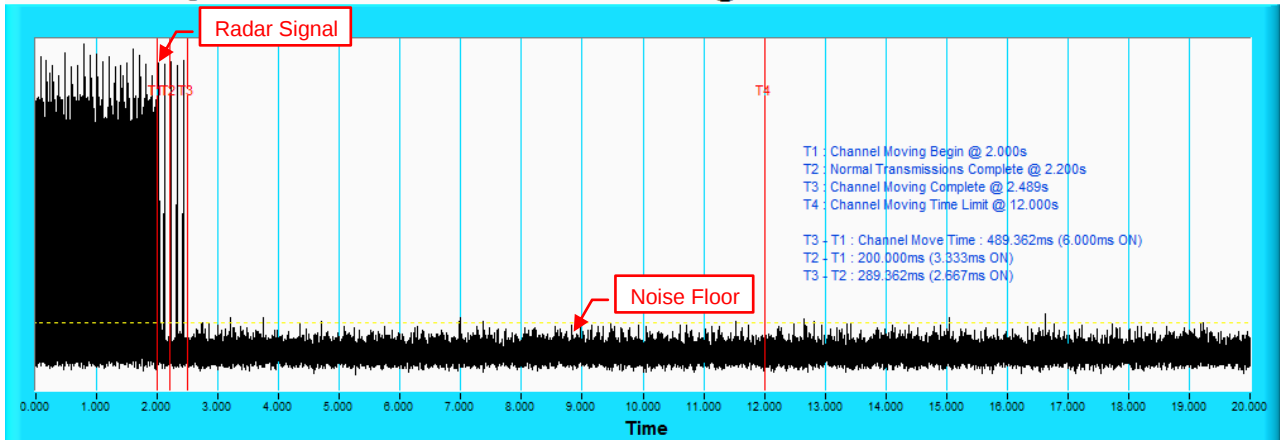


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 3

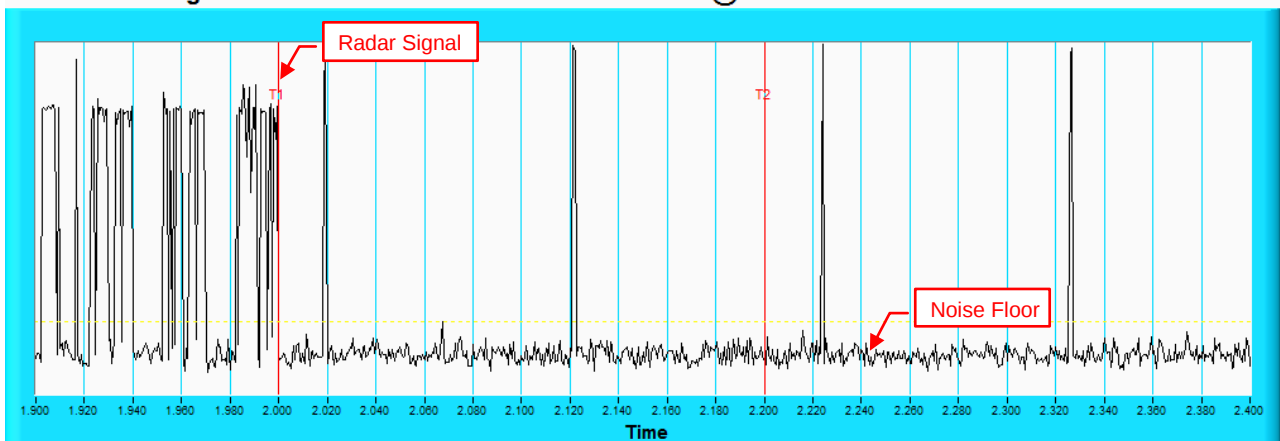
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz

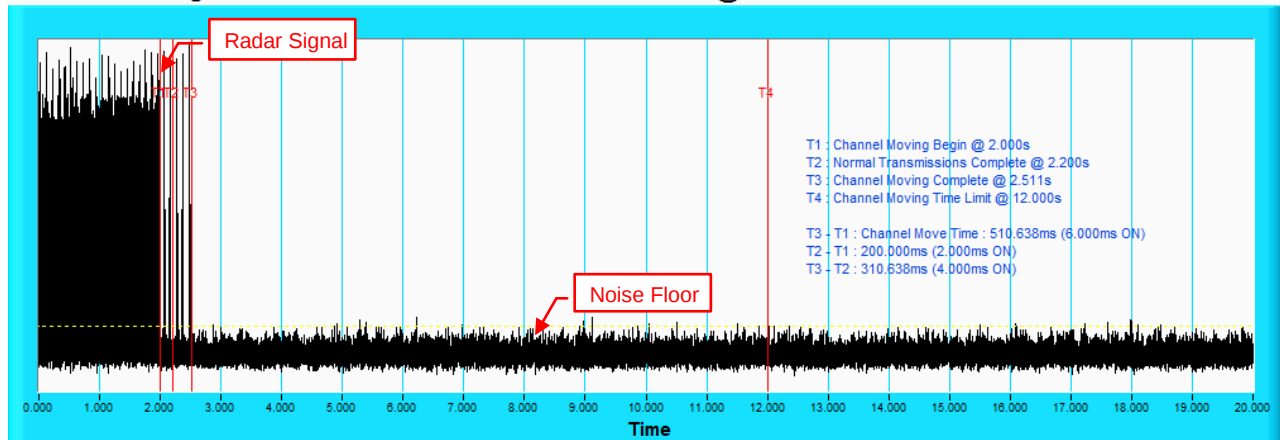


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 4

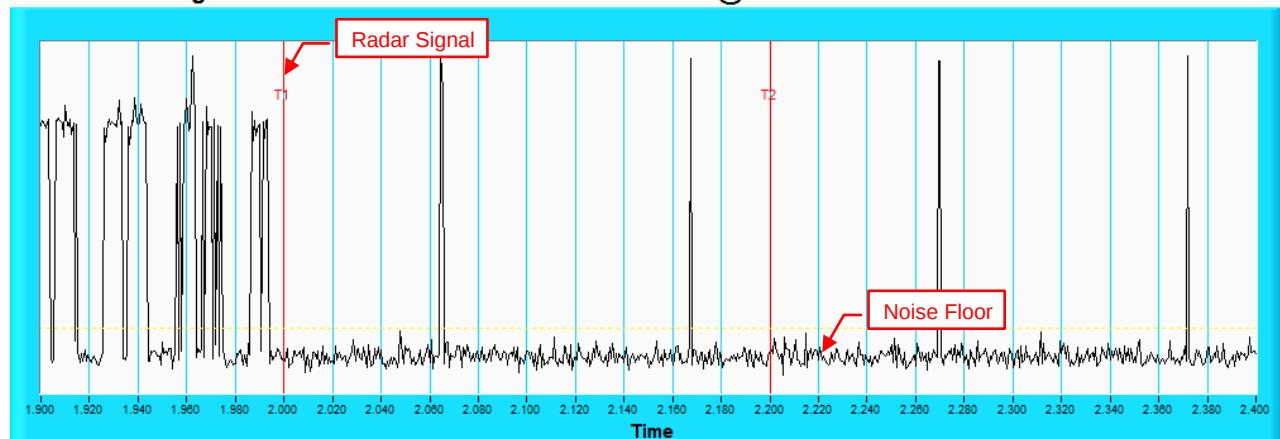
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH58-5290MHz

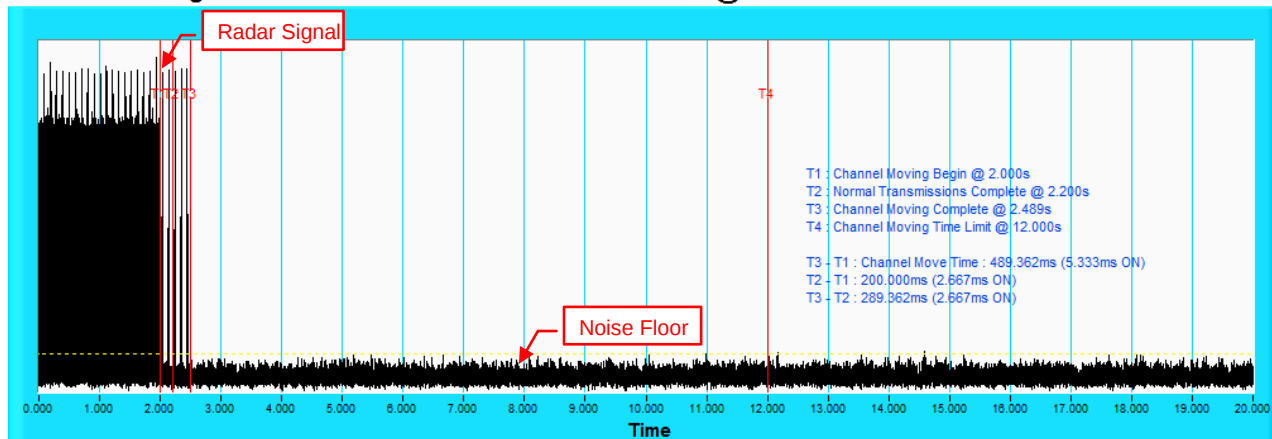


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 0

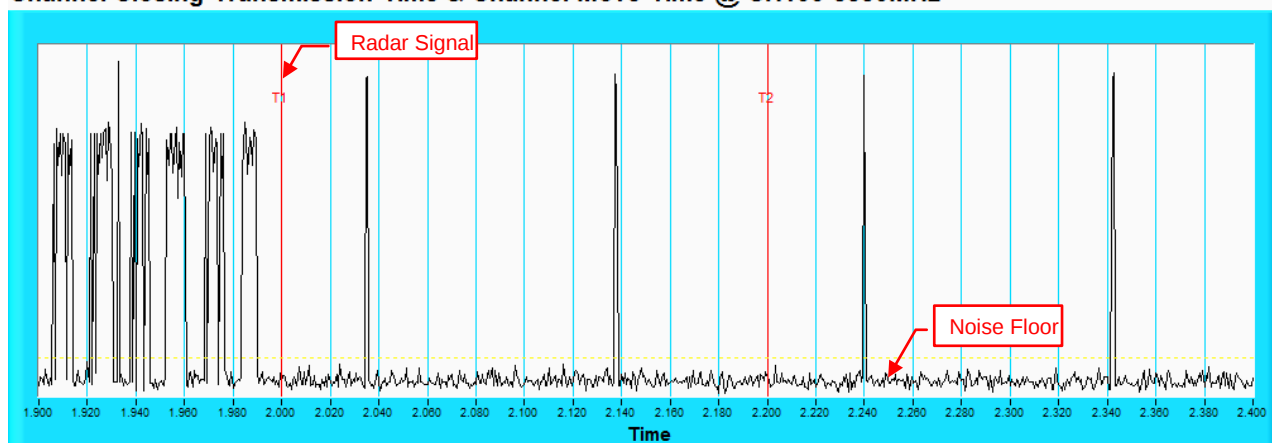
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz

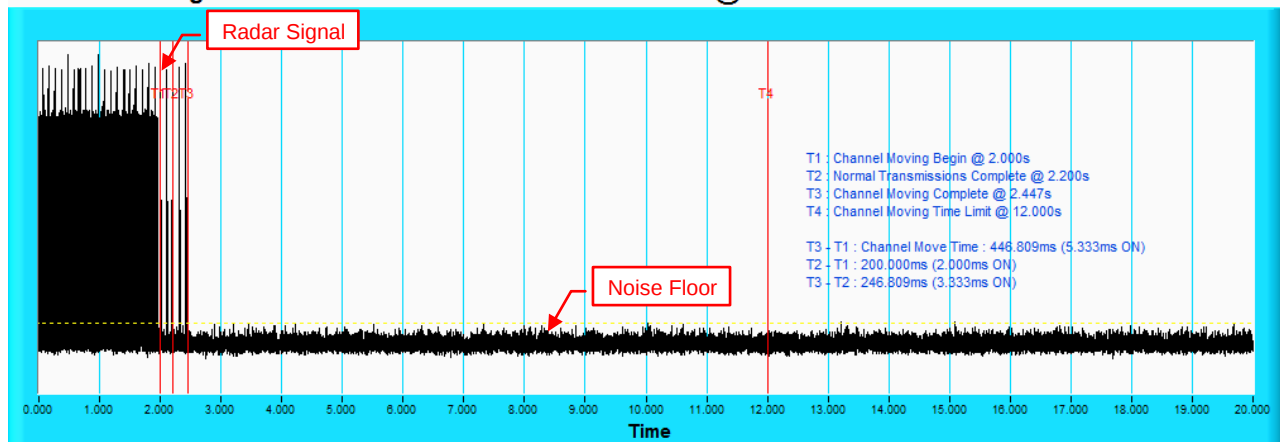


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 1

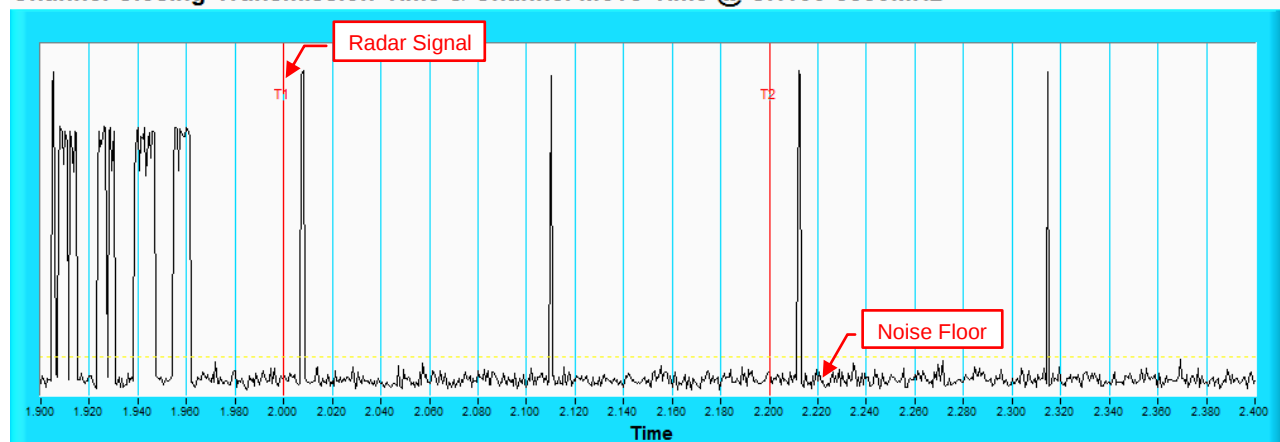
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz

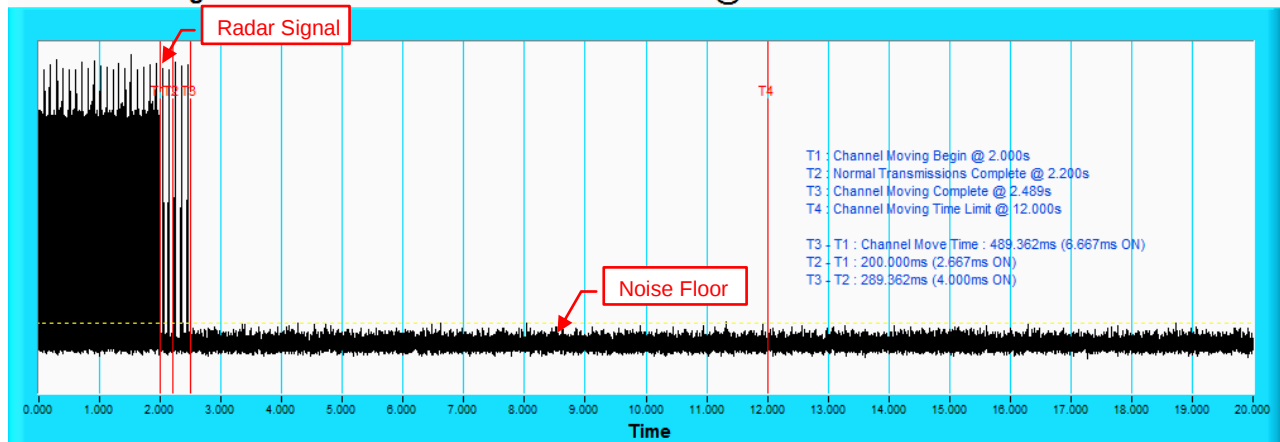


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 2

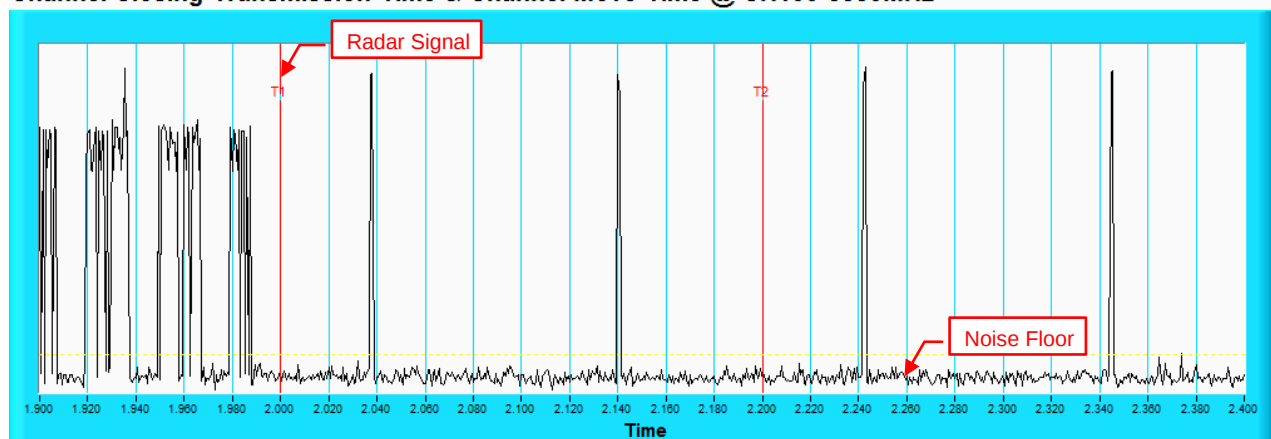
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz

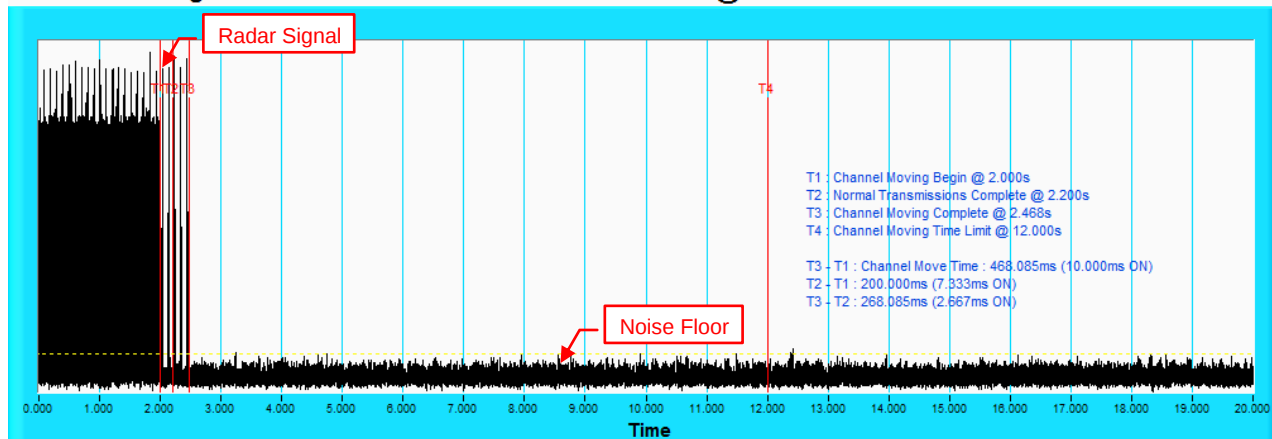


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 3

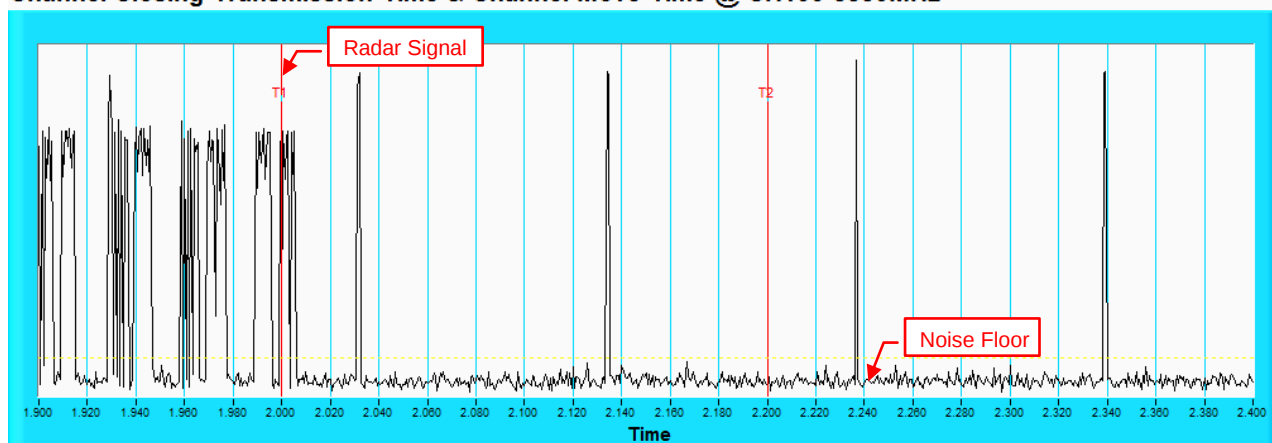
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz

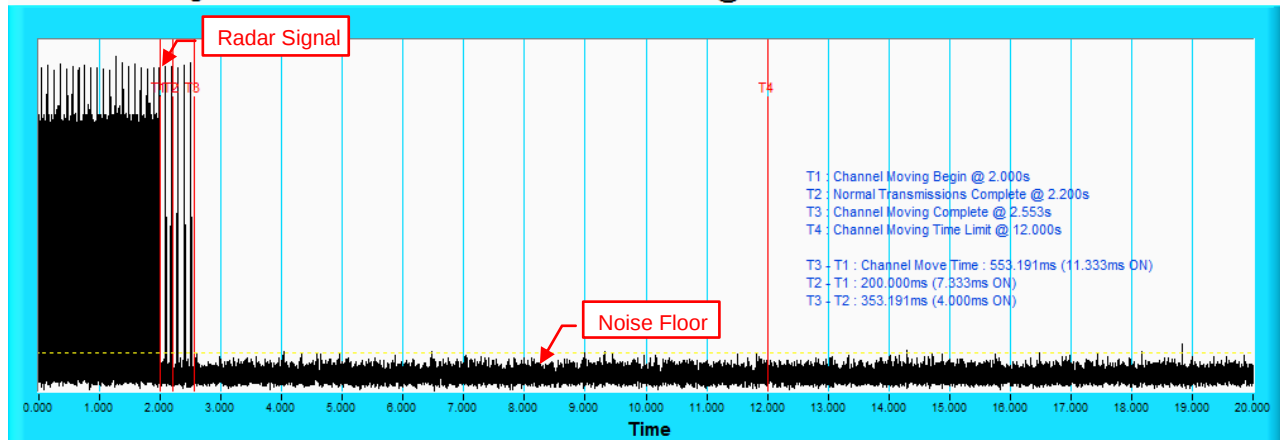


NOTE: Zoom in of the first 500ms after radar signal applied.

Radar signal 4

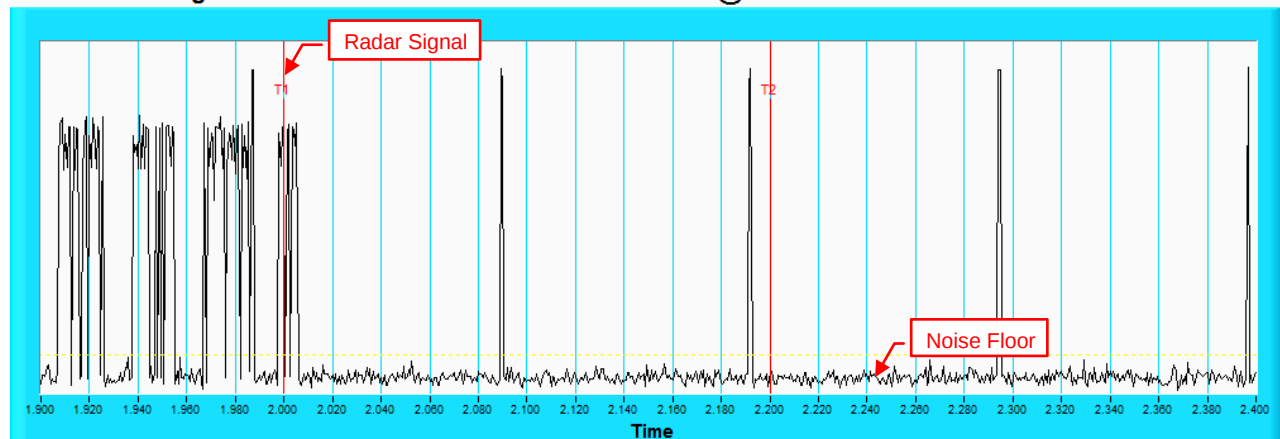
802.11ac (VHT80)

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH106-5530MHz



NOTE: Zoom in of the first 500ms after radar signal applied.

802.11ac (VHT20)CH60

Type 1 Radar Statistical Performances						
Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5300	15	1253	67	798	Yes
2	5297	16	1223	65	818	Yes
3	5303	4	1730	92	578	No
4	5301	11	1393	74	718	Yes
5	5297	22	1066	57	938	Yes
6	5301	7	1567	83	638	Yes
7	5297	2	1859	99	538	Yes
8	5295	8	1520	81	658	Yes
9	5297	1	1931	102	518	Yes
10	5302	19	1139	61	878	Yes
11	5295	21	1089	58	918	Yes
12	5301	23	326.2	18	3066	Yes
13	5306	9	1475	78	678	Yes
14	5304	5	1672	89	598	Yes
15	5300	6	1618	86	618	Yes
16	5301		1111	59	900	Yes
17	5299		1024	55	977	Yes
18	5303		625.8	34	1598	No
19	5301		730.5	39	1369	Yes
20	5299		1181	63	847	Yes
21	5297		400.6	22	2496	Yes
22	5295		529.4	28	1889	Yes
23	5300		347.6	19	2877	Yes
24	5305		641.4	34	1559	Yes
25	5301		508.9	27	1965	Yes
26	5299		345.4	19	2895	No
27	5298		580.7	31	1722	Yes
28	5297		786.8	42	1271	Yes
29	5301		808.4	43	1237	Yes
30	5306		517.1	28	1934	Yes
Detection Rate: 90 %						

802.11ac (VHT20)CH60
Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5300	24	1.7	174	Yes
2	5302	27	3.8	176	Yes
3	5306	28	4	161	Yes
4	5296	28	4.3	226	No
5	5299	24	1.9	193	Yes
6	5300	23	1.1	230	Yes
7	5294	29	4.5	198	Yes
8	5294	26	2.9	227	Yes
9	5304	26	2.8	171	Yes
10	5307	27	3.6	221	Yes
11	5300	23	1.1	180	Yes
12	5302	23	1.3	189	No
13	5293	25	2.5	204	Yes
14	5294	29	4.5	203	No
15	5302	29	5	170	Yes
16	5307	26	3.1	201	Yes
17	5296	24	2.1	218	Yes
18	5295	25	2.6	208	Yes
19	5298	24	1.8	223	Yes
20	5305	23	1.2	220	Yes
21	5307	26	2.9	224	Yes
22	5302	28	4	160	Yes
23	5302	25	2.5	209	Yes
24	5301	23	1	205	Yes
25	5300	27	3.7	151	Yes
26	5299	25	2.5	186	Yes
27	5298	23	1.5	190	Yes
28	5298	23	1.3	185	Yes
29	5300	23	1.2	175	Yes
30	5294	24	1.7	216	Yes
Detection Rate: 90 %					

802.11ac (VHT20)CH60
Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5300	16	6.7	467	Yes
2	5294	18	8.8	304	Yes
3	5295	18	9	316	Yes
4	5298	18	9.3	439	Yes
5	5301	16	6.9	420	Yes
6	5306	16	6.1	249	Yes
7	5303	18	9.5	463	Yes
8	5293	17	7.9	258	Yes
9	5295	17	7.8	212	Yes
10	5294	17	8.6	236	No
11	5297	16	6.1	474	Yes
12	5303	16	6.3	461	No
13	5303	17	7.5	437	Yes
14	5300	18	9.5	287	Yes
15	5306	18	10	395	Yes
16	5295	17	8.1	322	Yes
17	5301	16	7.1	468	Yes
18	5293	17	7.6	255	Yes
19	5305	16	6.8	423	Yes
20	5305	16	6.2	456	Yes
21	5305	17	7.9	351	Yes
22	5294	18	9	411	Yes
23	5299	17	7.5	279	No
24	5296	16	6	431	No
25	5296	17	8.7	324	Yes
26	5305	17	7.5	419	Yes
27	5297	16	6.5	447	No
28	5304	16	6.3	481	Yes
29	5299	16	6.2	438	Yes
30	5307	16	6.7	270	Yes
Detection Rate: 83.3 %					

802.11ac (VHT20)CH60

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5300	12	12.5	467	Yes
2	5296	15	17.2	304	Yes
3	5300	15	17.8	316	Yes
4	5293	16	18.5	439	Yes
5	5301	13	13.1	420	Yes
6	5300	12	11.3	249	Yes
7	5299	16	18.8	463	Yes
8	5296	14	15.3	258	Yes
9	5294	14	15.1	212	Yes
10	5294	15	16.9	236	Yes
11	5297	12	11.2	474	Yes
12	5300	12	11.7	461	No
13	5301	13	14.4	437	Yes
14	5298	16	18.9	287	Yes
15	5298	16	19.9	395	Yes
16	5301	14	15.7	322	Yes
17	5300	13	13.4	468	Yes
18	5301	13	14.5	255	Yes
19	5293	13	12.9	423	Yes
20	5302	12	11.5	456	Yes
21	5297	14	15.3	351	No
22	5297	15	17.8	411	No
23	5304	13	14.3	279	Yes
24	5296	12	11.1	431	Yes
25	5296	15	17	324	Yes
26	5295	13	14.5	419	Yes
27	5304	12	12.1	447	Yes
28	5295	12	11.7	481	Yes
29	5294	12	11.6	438	No
30	5301	12	12.7	270	Yes
Detection Rate: 86.7 %					

802.11ac (VHT20)CH60

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5300	LP_Signal_01	Yes
2	15	5300	LP_Signal_02	Yes
3	16	5300	LP_Signal_03	Yes
4	18	5300	LP_Signal_04	Yes
5	8	5300	LP_Signal_05	Yes
6	5	5300	LP_Signal_06	Yes
7	18	5300	LP_Signal_07	No
8	12	5300	LP_Signal_08	Yes
9	12	5300	LP_Signal_09	Yes
10	15	5300	LP_Signal_10	Yes
11	5	5293	LP_Signal_11	No
12	6	5293	LP_Signal_12	Yes
13	11	5295	LP_Signal_13	No
14	18	5298	LP_Signal_14	Yes
15	20	5299	LP_Signal_15	Yes
16	13	5296	LP_Signal_16	Yes
17	9	5295	LP_Signal_17	Yes
18	11	5295	LP_Signal_18	Yes
19	8	5294	LP_Signal_19	Yes
20	5	5293	LP_Signal_20	Yes
21	12	5304	LP_Signal_21	No
22	17	5302	LP_Signal_22	No
23	10	5305	LP_Signal_23	Yes
24	5	5307	LP_Signal_24	Yes
25	15	5303	LP_Signal_25	Yes
26	11	5305	LP_Signal_26	Yes
27	7	5306	LP_Signal_27	Yes
28	6	5307	LP_Signal_28	Yes
29	6	5307	LP_Signal_29	Yes
30	8	5306	LP_Signal_30	Yes

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT20)CH60

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	Yes
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	Yes
9	9	1	333.3	No
10	9	1	333.3	Yes
11	9	1	333.3	Yes
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	Yes
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	No
18	9	1	333.3	Yes
19	9	1	333.3	Yes
20	9	1	333.3	Yes
21	9	1	333.3	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	No
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
Detection Rate: 90 %				

802.11ac (VHT20)CH60

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	No
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	No
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	No
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 90 %

The Frequency Hopping Radar pattern shown in Appendix A.2

802.11ac (VHT20)CH100
Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5500	15	1253	67	798	Yes
2	5495	16	1223	65	818	Yes
3	5494	4	1730	92	578	No
4	5496	11	1393	74	718	Yes
5	5503	22	1066	57	938	Yes
6	5498	7	1567	83	638	Yes
7	5500	2	1859	99	538	Yes
8	5505	8	1520	81	658	Yes
9	5505	1	1931	102	518	Yes
10	5500	19	1139	61	878	Yes
11	5499	21	1089	58	918	Yes
12	5503	23	326.2	18	3066	No
13	5497	9	1475	78	678	Yes
14	5496	5	1672	89	598	Yes
15	5494	6	1618	86	618	Yes
16	5500		1111	59	900	Yes
17	5495		1024	55	977	Yes
18	5497		625.8	34	1598	Yes
19	5499		730.5	39	1369	No
20	5499		1181	63	847	Yes
21	5500		400.6	22	2496	Yes
22	5497		529.4	28	1889	Yes
23	5499		347.6	19	2877	Yes
24	5502		641.4	34	1559	Yes
25	5497		508.9	27	1965	Yes
26	5499		345.4	19	2895	Yes
27	5499		580.7	31	1722	Yes
28	5494		786.8	42	1271	No
29	5503		808.4	43	1237	Yes
30	5503		517.1	28	1934	Yes

Detection Rate: 86.7 %

802.11ac (VHT20)CH100
Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	24	1.7	174	Yes
2	5494	27	3.8	176	Yes
3	5499	28	4	161	Yes
4	5505	28	4.3	226	Yes
5	5505	24	1.9	193	Yes
6	5506	23	1.1	230	Yes
7	5503	29	4.5	198	Yes
8	5498	26	2.9	227	Yes
9	5493	26	2.8	171	Yes
10	5500	27	3.6	221	Yes
11	5495	23	1.1	180	Yes
12	5494	23	1.3	189	Yes
13	5505	25	2.5	204	Yes
14	5504	29	4.5	203	No
15	5503	29	5	170	Yes
16	5495	26	3.1	201	Yes
17	5501	24	2.1	218	Yes
18	5504	25	2.6	208	Yes
19	5500	24	1.8	223	No
20	5495	23	1.2	220	Yes
21	5496	26	2.9	224	Yes
22	5494	28	4	160	No
23	5497	25	2.5	209	No
24	5500	23	1	205	Yes
25	5497	27	3.7	151	Yes
26	5504	25	2.5	186	No
27	5501	23	1.5	190	Yes
28	5507	23	1.3	185	No
29	5500	23	1.2	175	Yes
30	5503	24	1.7	216	No
Detection Rate: 76.7 %					

802.11ac (VHT20)CH100

Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	16	6.7	467	Yes
2	5498	18	8.8	304	Yes
3	5496	18	9	316	Yes
4	5499	18	9.3	439	Yes
5	5501	16	6.9	420	Yes
6	5496	16	6.1	249	Yes
7	5498	18	9.5	463	Yes
8	5498	17	7.9	258	No
9	5502	17	7.8	212	Yes
10	5501	17	8.6	236	No
11	5495	16	6.1	474	Yes
12	5494	16	6.3	461	Yes
13	5494	17	7.5	437	No
14	5494	18	9.5	287	Yes
15	5504	18	10	395	Yes
16	5499	17	8.1	322	No
17	5502	16	7.1	468	Yes
18	5493	17	7.6	255	Yes
19	5504	16	6.8	423	Yes
20	5506	16	6.2	456	No
21	5502	17	7.9	351	Yes
22	5505	18	9	411	Yes
23	5497	17	7.5	279	Yes
24	5497	16	6	431	Yes
25	5506	17	8.7	324	No
26	5503	17	7.5	419	Yes
27	5504	16	6.5	447	No
28	5502	16	6.3	481	Yes
29	5496	16	6.2	438	Yes
30	5503	16	6.7	270	Yes
Detection Rate: 76.7 %					

802.11ac (VHT20)CH100

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5500	12	12.5	467	Yes
2	5497	15	17.2	304	Yes
3	5504	15	17.8	316	No
4	5496	16	18.5	439	Yes
5	5503	13	13.1	420	No
6	5504	12	11.3	249	Yes
7	5505	16	18.8	463	Yes
8	5503	14	15.3	258	Yes
9	5503	14	15.1	212	Yes
10	5504	15	16.9	236	Yes
11	5497	12	11.2	474	Yes
12	5507	12	11.7	461	Yes
13	5505	13	14.4	437	Yes
14	5496	16	18.9	287	Yes
15	5506	16	19.9	395	Yes
16	5499	14	15.7	322	Yes
17	5503	13	13.4	468	Yes
18	5505	13	14.5	255	Yes
19	5496	13	12.9	423	Yes
20	5495	12	11.5	456	No
21	5504	14	15.3	351	Yes
22	5496	15	17.8	411	No
23	5496	13	14.3	279	Yes
24	5505	12	11.1	431	Yes
25	5499	15	17	324	Yes
26	5506	13	14.5	419	Yes
27	5496	12	12.1	447	Yes
28	5493	12	11.7	481	Yes
29	5493	12	11.6	438	Yes
30	5499	12	12.7	270	Yes
Detection Rate: 86.7 %					

802.11ac (VHT20)CH100

Type 5 Radar Statistical Performances				
Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5500	LP_Signal_01	Yes
2	15	5500	LP_Signal_02	Yes
3	16	5500	LP_Signal_03	No
4	18	5500	LP_Signal_04	No
5	8	5500	LP_Signal_05	Yes
6	5	5500	LP_Signal_06	Yes
7	18	5500	LP_Signal_07	Yes
8	12	5500	LP_Signal_08	Yes
9	12	5500	LP_Signal_09	Yes
10	15	5500	LP_Signal_10	Yes
11	5	5493	LP_Signal_11	No
12	6	5493	LP_Signal_12	Yes
13	11	5495	LP_Signal_13	Yes
14	18	5498	LP_Signal_14	Yes
15	20	5499	LP_Signal_15	Yes
16	13	5496	LP_Signal_16	Yes
17	9	5495	LP_Signal_17	Yes
18	11	5495	LP_Signal_18	Yes
19	8	5494	LP_Signal_19	Yes
20	5	5493	LP_Signal_20	Yes
21	12	5504	LP_Signal_21	Yes
22	17	5502	LP_Signal_22	Yes
23	10	5505	LP_Signal_23	Yes
24	5	5507	LP_Signal_24	Yes
25	15	5503	LP_Signal_25	Yes
26	11	5505	LP_Signal_26	Yes
27	7	5506	LP_Signal_27	Yes
28	6	5507	LP_Signal_28	Yes
29	6	5507	LP_Signal_29	Yes
30	8	5506	LP_Signal_30	No
				Detection Rate: 86.7 %

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT20)CH100

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	No
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	Yes
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	Yes
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	Yes
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	Yes
18	9	1	333.3	Yes
19	9	1	333.3	Yes
20	9	1	333.3	Yes
21	9	1	333.3	No
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	No
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
Detection Rate: 90 %				

802.11ac (VHT20)CH100

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	No
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	No
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	No
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 90 %

The Frequency Hopping Radar pattern shown in Appendix A.2

802.11ac (VHT40)CH62

Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5310	15	1253	67	798	Yes
2	5320	16	1223	65	818	Yes
3	5300	4	1730	92	578	Yes
4	5298	11	1393	74	718	Yes
5	5317	22	1066	57	938	Yes
6	5303	7	1567	83	638	Yes
7	5296	2	1859	99	538	Yes
8	5305	8	1520	81	658	Yes
9	5308	1	1931	102	518	No
10	5302	19	1139	61	878	Yes
11	5305	21	1089	58	918	Yes
12	5322	23	326.2	18	3066	Yes
13	5322	9	1475	78	678	Yes
14	5307	5	1672	89	598	Yes
15	5322	6	1618	86	618	Yes
16	5324		1111	59	900	Yes
17	5324		1024	55	977	Yes
18	5324		625.8	34	1598	Yes
19	5310		730.5	39	1369	Yes
20	5311		1181	63	847	Yes
21	5314		400.6	22	2496	Yes
22	5303		529.4	28	1889	Yes
23	5319		347.6	19	2877	Yes
24	5306		641.4	34	1559	Yes
25	5315		508.9	27	1965	Yes
26	5304		345.4	19	2895	Yes
27	5302		580.7	31	1722	No
28	5307		786.8	42	1271	Yes
29	5301		808.4	43	1237	Yes
30	5324		517.1	28	1934	Yes
Detection Rate: 93.3 %						

802.11ac (VHT40)CH62
Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5310	24	1.7	174	Yes
2	5320	27	3.8	176	Yes
3	5300	28	4	161	Yes
4	5313	28	4.3	226	Yes
5	5302	24	1.9	193	Yes
6	5296	23	1.1	230	Yes
7	5321	29	4.5	198	No
8	5299	26	2.9	227	Yes
9	5316	26	2.8	171	No
10	5295	27	3.6	221	Yes
11	5325	23	1.1	180	Yes
12	5298	23	1.3	189	Yes
13	5298	25	2.5	204	No
14	5304	29	4.5	203	Yes
15	5319	29	5	170	Yes
16	5303	26	3.1	201	Yes
17	5308	24	2.1	218	Yes
18	5321	25	2.6	208	Yes
19	5297	24	1.8	223	Yes
20	5324	23	1.2	220	Yes
21	5323	26	2.9	224	Yes
22	5315	28	4	160	Yes
23	5313	25	2.5	209	Yes
24	5313	23	1	205	Yes
25	5313	27	3.7	151	Yes
26	5302	25	2.5	186	Yes
27	5325	23	1.5	190	Yes
28	5314	23	1.3	185	Yes
29	5315	23	1.2	175	Yes
30	5302	24	1.7	216	Yes
Detection Rate: 90 %					

802.11ac (VHT40) CH62

Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5310	16	6.7	467	Yes
2	5320	18	8.8	304	No
3	5300	18	9	316	Yes
4	5313	18	9.3	439	Yes
5	5309	16	6.9	420	Yes
6	5303	16	6.1	249	No
7	5310	18	9.5	463	Yes
8	5297	17	7.9	258	No
9	5322	17	7.8	212	Yes
10	5314	17	8.6	236	Yes
11	5317	16	6.1	474	Yes
12	5311	16	6.3	461	Yes
13	5320	17	7.5	437	Yes
14	5298	18	9.5	287	Yes
15	5315	18	10	395	Yes
16	5313	17	8.1	322	Yes
17	5324	16	7.1	468	Yes
18	5321	17	7.6	255	Yes
19	5297	16	6.8	423	Yes
20	5298	16	6.2	456	Yes
21	5318	17	7.9	351	Yes
22	5304	18	9	411	Yes
23	5324	17	7.5	279	Yes
24	5321	16	6	431	Yes
25	5313	17	8.7	324	Yes
26	5312	17	7.5	419	Yes
27	5303	16	6.5	447	Yes
28	5320	16	6.3	481	Yes
29	5304	16	6.2	438	Yes
30	5320	16	6.7	270	Yes

Detection Rate: 90 %

802.11ac (VHT40) CH62

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5310	12	12.5	467	Yes
2	5320	15	17.2	304	Yes
3	5300	15	17.8	316	Yes
4	5316	16	18.5	439	Yes
5	5318	13	13.1	420	Yes
6	5324	12	11.3	249	Yes
7	5320	16	18.8	463	Yes
8	5309	14	15.3	258	Yes
9	5314	14	15.1	212	Yes
10	5319	15	16.9	236	Yes
11	5313	12	11.2	474	Yes
12	5308	12	11.7	461	Yes
13	5305	13	14.4	437	Yes
14	5303	16	18.9	287	Yes
15	5321	16	19.9	395	Yes
16	5304	14	15.7	322	Yes
17	5307	13	13.4	468	No
18	5314	13	14.5	255	Yes
19	5312	13	12.9	423	Yes
20	5305	12	11.5	456	Yes
21	5318	14	15.3	351	Yes
22	5310	15	17.8	411	Yes
23	5302	13	14.3	279	Yes
24	5305	12	11.1	431	Yes
25	5320	15	17	324	No
26	5302	13	14.5	419	No
27	5304	12	12.1	447	Yes
28	5300	12	11.7	481	Yes
29	5297	12	11.6	438	No
30	5314	12	12.7	270	Yes

Detection Rate: 86.7 %

802.11ac (VHT40) CH62

Type 5 Radar Statistical Performances				
Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5310	LP_Signal_01	Yes
2	15	5310	LP_Signal_02	No
3	16	5310	LP_Signal_03	Yes
4	18	5310	LP_Signal_04	Yes
5	8	5310	LP_Signal_05	No
6	5	5310	LP_Signal_06	Yes
7	18	5310	LP_Signal_07	Yes
8	12	5310	LP_Signal_08	No
9	12	5310	LP_Signal_09	Yes
10	15	5310	LP_Signal_10	Yes
11	5	5293	LP_Signal_11	Yes
12	6	5293	LP_Signal_12	Yes
13	11	5295	LP_Signal_13	Yes
14	18	5298	LP_Signal_14	Yes
15	20	5299	LP_Signal_15	Yes
16	13	5296	LP_Signal_16	Yes
17	9	5295	LP_Signal_17	Yes
18	11	5295	LP_Signal_18	Yes
19	8	5294	LP_Signal_19	Yes
20	5	5293	LP_Signal_20	Yes
21	12	5324	LP_Signal_21	Yes
22	17	5322	LP_Signal_22	Yes
23	10	5325	LP_Signal_23	Yes
24	5	5327	LP_Signal_24	No
25	15	5323	LP_Signal_25	No
26	11	5325	LP_Signal_26	Yes
27	7	5326	LP_Signal_27	Yes
28	6	5327	LP_Signal_28	Yes
29	6	5327	LP_Signal_29	Yes
30	8	5326	LP_Signal_30	Yes
Detection Rate: 83.3 %				

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT40) CH62

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	Yes
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	No
7	9	1	333.3	No
8	9	1	333.3	Yes
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	No
12	9	1	333.3	Yes
13	9	1	333.3	No
14	9	1	333.3	Yes
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	Yes
18	9	1	333.3	Yes
19	9	1	333.3	Yes
20	9	1	333.3	Yes
21	9	1	333.3	Yes
22	9	1	333.3	Yes
23	9	1	333.3	No
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
Detection Rate: 83.3 %				

802.11ac (VHT40) CH62

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	No
7	HOP_FREQ_SEQ_07	No
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	No
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	No
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	No
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 83.3 %

The Frequency Hopping Radar pattern shown in Appendix A.2

802.11ac (VHT40) CH102
Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5510	15	1253	67	798	Yes
2	5520	16	1223	65	818	Yes
3	5500	4	1730	92	578	Yes
4	5515	11	1393	74	718	Yes
5	5519	22	1066	57	938	No
6	5519	7	1567	83	638	Yes
7	5513	2	1859	99	538	Yes
8	5518	8	1520	81	658	Yes
9	5514	1	1931	102	518	Yes
10	5506	19	1139	61	878	No
11	5496	21	1089	58	918	Yes
12	5520	23	326.2	18	3066	Yes
13	5517	9	1475	78	678	Yes
14	5496	5	1672	89	598	Yes
15	5497	6	1618	86	618	Yes
16	5525		1111	59	900	Yes
17	5518		1024	55	977	No
18	5499		625.8	34	1598	Yes
19	5497		730.5	39	1369	Yes
20	5522		1181	63	847	Yes
21	5523		400.6	22	2496	Yes
22	5521		529.4	28	1889	No
23	5516		347.6	19	2877	Yes
24	5501		641.4	34	1559	Yes
25	5499		508.9	27	1965	Yes
26	5496		345.4	19	2895	Yes
27	5512		580.7	31	1722	Yes
28	5505		786.8	42	1271	Yes
29	5518		808.4	43	1237	No
30	5500		517.1	28	1934	Yes

Detection Rate: 83.3 %

802.11ac (VHT40) CH102
Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5510	24	1.7	174	Yes
2	5520	27	3.8	176	Yes
3	5500	28	4	161	Yes
4	5523	28	4.3	226	No
5	5498	24	1.9	193	Yes
6	5504	23	1.1	230	Yes
7	5499	29	4.5	198	Yes
8	5509	26	2.9	227	Yes
9	5503	26	2.8	171	Yes
10	5501	27	3.6	221	Yes
11	5523	23	1.1	180	Yes
12	5499	23	1.3	189	Yes
13	5501	25	2.5	204	No
14	5504	29	4.5	203	Yes
15	5505	29	5	170	Yes
16	5519	26	3.1	201	Yes
17	5509	24	2.1	218	Yes
18	5507	25	2.6	208	Yes
19	5498	24	1.8	223	Yes
20	5517	23	1.2	220	No
21	5500	26	2.9	224	Yes
22	5513	28	4	160	Yes
23	5501	25	2.5	209	Yes
24	5500	23	1	205	Yes
25	5518	27	3.7	151	Yes
26	5497	25	2.5	186	Yes
27	5522	23	1.5	190	Yes
28	5521	23	1.3	185	Yes
29	5508	23	1.2	175	Yes
30	5504	24	1.7	216	No

Detection Rate: 86.7 %

802.11ac (VHT40) CH102

Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5510	16	6.7	467	No
2	5520	18	8.8	304	Yes
3	5500	18	9	316	Yes
4	5495	18	9.3	439	Yes
5	5510	16	6.9	420	Yes
6	5508	16	6.1	249	Yes
7	5518	18	9.5	463	Yes
8	5511	17	7.9	258	Yes
9	5521	17	7.8	212	No
10	5502	17	8.6	236	Yes
11	5516	16	6.1	474	Yes
12	5504	16	6.3	461	Yes
13	5509	17	7.5	437	Yes
14	5525	18	9.5	287	Yes
15	5519	18	10	395	No
16	5514	17	8.1	322	Yes
17	5518	16	7.1	468	Yes
18	5519	17	7.6	255	Yes
19	5501	16	6.8	423	Yes
20	5525	16	6.2	456	Yes
21	5524	17	7.9	351	Yes
22	5506	18	9	411	Yes
23	5509	17	7.5	279	No
24	5521	16	6	431	Yes
25	5525	17	8.7	324	Yes
26	5501	17	7.5	419	No
27	5499	16	6.5	447	Yes
28	5505	16	6.3	481	Yes
29	5504	16	6.2	438	Yes
30	5509	16	6.7	270	No
Detection Rate: 80 %					

802.11ac (VHT40) CH102

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5510	12	12.5	467	Yes
2	5520	15	17.2	304	Yes
3	5500	15	17.8	316	Yes
4	5495	16	18.5	439	Yes
5	5506	13	13.1	420	Yes
6	5521	12	11.3	249	Yes
7	5514	16	18.8	463	Yes
8	5522	14	15.3	258	No
9	5523	14	15.1	212	Yes
10	5502	15	16.9	236	Yes
11	5498	12	11.2	474	No
12	5520	12	11.7	461	Yes
13	5519	13	14.4	437	Yes
14	5503	16	18.9	287	Yes
15	5500	16	19.9	395	Yes
16	5525	14	15.7	322	Yes
17	5512	13	13.4	468	Yes
18	5524	13	14.5	255	Yes
19	5504	13	12.9	423	No
20	5514	12	11.5	456	Yes
21	5514	14	15.3	351	No
22	5521	15	17.8	411	Yes
23	5516	13	14.3	279	No
24	5511	12	11.1	431	No
25	5505	15	17	324	No
26	5500	13	14.5	419	No
27	5502	12	12.1	447	Yes
28	5517	12	11.7	481	Yes
29	5501	12	11.6	438	Yes
30	5509	12	12.7	270	Yes

Detection Rate: 73.3 %

802.11ac (VHT40) CH102

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5510	LP_Signal_01	Yes
2	15	5510	LP_Signal_02	Yes
3	16	5510	LP_Signal_03	Yes
4	18	5510	LP_Signal_04	Yes
5	8	5510	LP_Signal_05	Yes
6	5	5510	LP_Signal_06	Yes
7	18	5510	LP_Signal_07	No
8	12	5510	LP_Signal_08	Yes
9	12	5510	LP_Signal_09	No
10	15	5510	LP_Signal_10	Yes
11	5	5493	LP_Signal_11	Yes
12	6	5493	LP_Signal_12	Yes
13	11	5495	LP_Signal_13	Yes
14	18	5498	LP_Signal_14	Yes
15	20	5499	LP_Signal_15	Yes
16	13	5496	LP_Signal_16	No
17	9	5495	LP_Signal_17	Yes
18	11	5495	LP_Signal_18	Yes
19	8	5494	LP_Signal_19	Yes
20	5	5493	LP_Signal_20	Yes
21	12	5524	LP_Signal_21	Yes
22	17	5522	LP_Signal_22	Yes
23	10	5525	LP_Signal_23	Yes
24	5	5527	LP_Signal_24	Yes
25	15	5523	LP_Signal_25	Yes
26	11	5525	LP_Signal_26	Yes
27	7	5526	LP_Signal_27	Yes
28	6	5527	LP_Signal_28	Yes
29	6	5527	LP_Signal_29	Yes
30	8	5526	LP_Signal_30	Yes

Detection Rate: 90 %

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT40) CH102

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	Yes
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	No
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	Yes
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	Yes
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	No
18	9	1	333.3	Yes
19	9	1	333.3	No
20	9	1	333.3	Yes
21	9	1	333.3	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
Detection Rate: 90 %				

802.11ac (VHT40) CH102

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	No
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	No
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	No
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 90 %

The Frequency Hopping Radar pattern shown in Appendix A.2

802.11ac (VHT80)CH58

Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5290	15	1253	67	798	Yes
2	5300	16	1223	65	818	Yes
3	5320	4	1730	92	578	Yes
4	5280	11	1393	74	718	Yes
5	5260	22	1066	57	938	Yes
6	5280	7	1567	83	638	Yes
7	5312	2	1859	99	538	Yes
8	5319	8	1520	81	658	Yes
9	5295	1	1931	102	518	Yes
10	5312	19	1139	61	878	Yes
11	5262	21	1089	58	918	Yes
12	5309	23	326.2	18	3066	Yes
13	5304	9	1475	78	678	Yes
14	5283	5	1672	89	598	Yes
15	5316	6	1618	86	618	Yes
16	5261		1111	59	900	No
17	5293		1024	55	977	No
18	5314		625.8	34	1598	Yes
19	5273		730.5	39	1369	Yes
20	5271		1181	63	847	Yes
21	5274		400.6	22	2496	Yes
22	5319		529.4	28	1889	No
23	5292		347.6	19	2877	Yes
24	5276		641.4	34	1559	Yes
25	5315		508.9	27	1965	Yes
26	5286		345.4	19	2895	Yes
27	5304		580.7	31	1722	Yes
28	5275		786.8	42	1271	Yes
29	5262		808.4	43	1237	Yes
30	5265		517.1	28	1934	Yes

Detection Rate: 90 %

802.11ac (VHT80) CH58

Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5290	24	1.7	174	Yes
2	5300	27	3.8	176	Yes
3	5320	28	4	161	Yes
4	5280	28	4.3	226	Yes
5	5260	24	1.9	193	Yes
6	5303	23	1.1	230	No
7	5320	29	4.5	198	Yes
8	5285	26	2.9	227	Yes
9	5277	26	2.8	171	Yes
10	5269	27	3.6	221	Yes
11	5263	23	1.1	180	Yes
12	5260	23	1.3	189	Yes
13	5317	25	2.5	204	Yes
14	5313	29	4.5	203	Yes
15	5277	29	5	170	Yes
16	5296	26	3.1	201	Yes
17	5299	24	2.1	218	Yes
18	5303	25	2.6	208	Yes
19	5285	24	1.8	223	Yes
20	5293	23	1.2	220	No
21	5273	26	2.9	224	Yes
22	5265	28	4	160	Yes
23	5300	25	2.5	209	Yes
24	5303	23	1	205	Yes
25	5272	27	3.7	151	Yes
26	5318	25	2.5	186	No
27	5276	23	1.5	190	Yes
28	5318	23	1.3	185	Yes
29	5281	23	1.2	175	Yes
30	5289	24	1.7	216	Yes
Detection Rate: 90 %					

802.11ac (VHT80) CH58
Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5290	16	6.7	467	Yes
2	5300	18	8.8	304	Yes
3	5320	18	9	316	Yes
4	5280	18	9.3	439	Yes
5	5260	16	6.9	420	Yes
6	5307	16	6.1	249	Yes
7	5316	18	9.5	463	Yes
8	5263	17	7.9	258	Yes
9	5320	17	7.8	212	Yes
10	5287	17	8.6	236	Yes
11	5280	16	6.1	474	Yes
12	5318	16	6.3	461	Yes
13	5300	17	7.5	437	Yes
14	5300	18	9.5	287	Yes
15	5303	18	10	395	Yes
16	5306	17	8.1	322	No
17	5272	16	7.1	468	No
18	5269	17	7.6	255	Yes
19	5283	16	6.8	423	Yes
20	5268	16	6.2	456	Yes
21	5288	17	7.9	351	Yes
22	5320	18	9	411	No
23	5301	17	7.5	279	Yes
24	5272	16	6	431	No
25	5297	17	8.7	324	Yes
26	5300	17	7.5	419	Yes
27	5302	16	6.5	447	Yes
28	5260	16	6.3	481	Yes
29	5297	16	6.2	438	Yes
30	5283	16	6.7	270	Yes
Detection Rate: 86.7 %					

802.11ac (VHT80) CH58
Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5290	12	12.5	467	Yes
2	5300	15	17.2	304	Yes
3	5320	15	17.8	316	No
4	5280	16	18.5	439	Yes
5	5260	13	13.1	420	Yes
6	5291	12	11.3	249	No
7	5270	16	18.8	463	Yes
8	5307	14	15.3	258	Yes
9	5265	14	15.1	212	Yes
10	5273	15	16.9	236	Yes
11	5289	12	11.2	474	Yes
12	5270	12	11.7	461	Yes
13	5309	13	14.4	437	Yes
14	5286	16	18.9	287	Yes
15	5269	16	19.9	395	Yes
16	5303	14	15.7	322	Yes
17	5315	13	13.4	468	Yes
18	5319	13	14.5	255	Yes
19	5316	13	12.9	423	Yes
20	5262	12	11.5	456	No
21	5273	14	15.3	351	Yes
22	5288	15	17.8	411	Yes
23	5263	13	14.3	279	Yes
24	5301	12	11.1	431	No
25	5297	15	17	324	Yes
26	5294	13	14.5	419	Yes
27	5296	12	12.1	447	Yes
28	5274	12	11.7	481	Yes
29	5277	12	11.6	438	Yes
30	5276	12	12.7	270	Yes
Detection Rate: 86.7 %					

802.11ac (VHT80) CH58

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5290	LP_Signal_01	Yes
2	15	5290	LP_Signal_02	Yes
3	16	5290	LP_Signal_03	Yes
4	18	5290	LP_Signal_04	Yes
5	8	5290	LP_Signal_05	No
6	5	5290	LP_Signal_06	Yes
7	18	5290	LP_Signal_07	No
8	12	5290	LP_Signal_08	Yes
9	12	5290	LP_Signal_09	No
10	15	5290	LP_Signal_10	Yes
11	5	5254	LP_Signal_11	Yes
12	6	5254	LP_Signal_12	Yes
13	11	5256	LP_Signal_13	Yes
14	18	5259	LP_Signal_14	Yes
15	20	5260	LP_Signal_15	Yes
16	13	5257	LP_Signal_16	Yes
17	9	5256	LP_Signal_17	Yes
18	11	5256	LP_Signal_18	Yes
19	8	5255	LP_Signal_19	Yes
20	5	5254	LP_Signal_20	Yes
21	12	5323	LP_Signal_21	Yes
22	17	5321	LP_Signal_22	Yes
23	10	5324	LP_Signal_23	Yes
24	5	5326	LP_Signal_24	Yes
25	15	5322	LP_Signal_25	Yes
26	11	5324	LP_Signal_26	Yes
27	7	5325	LP_Signal_27	Yes
28	6	5326	LP_Signal_28	No
29	6	5326	LP_Signal_29	Yes
30	8	5325	LP_Signal_30	No

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT80) CH58

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	Yes
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	Yes
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	No
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	No
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	Yes
18	9	1	333.3	No
19	9	1	333.3	Yes
20	9	1	333.3	No
21	9	1	333.3	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
Detection Rate: 86.7 %				

802.11ac (VHT80) CH58

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	No
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	No
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	No
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	No
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 86.7 %

The Frequency Hopping Radar pattern shown in Appendix A.2

802.11ac (VHT80) CH106

Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5530	15	1253	67	798	Yes
2	5540	16	1223	65	818	Yes
3	5560	4	1730	92	578	No
4	5520	11	1393	74	718	Yes
5	5500	22	1066	57	938	Yes
6	5510	7	1567	83	638	Yes
7	5508	2	1859	99	538	Yes
8	5508	8	1520	81	658	Yes
9	5502	1	1931	102	518	Yes
10	5543	19	1139	61	878	Yes
11	5549	21	1089	58	918	Yes
12	5522	23	326.2	18	3066	Yes
13	5544	9	1475	78	678	Yes
14	5534	5	1672	89	598	Yes
15	5524	6	1618	86	618	No
16	5505		1111	59	900	Yes
17	5522		1024	55	977	Yes
18	5517		625.8	34	1598	No
19	5551		730.5	39	1369	Yes
20	5556		1181	63	847	Yes
21	5542		400.6	22	2496	Yes
22	5502		529.4	28	1889	No
23	5524		347.6	19	2877	Yes
24	5548		641.4	34	1559	Yes
25	5504		508.9	27	1965	Yes
26	5515		345.4	19	2895	Yes
27	5518		580.7	31	1722	Yes
28	5549		786.8	42	1271	Yes
29	5538		808.4	43	1237	Yes
30	5544		517.1	28	1934	Yes

Detection Rate: 86.7 %

802.11ac (VHT80) CH106
Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5530	24	1.7	174	Yes
2	5540	27	3.8	176	Yes
3	5560	28	4	161	No
4	5520	28	4.3	226	Yes
5	5500	24	1.9	193	Yes
6	5537	23	1.1	230	Yes
7	5517	29	4.5	198	Yes
8	5512	26	2.9	227	Yes
9	5537	26	2.8	171	Yes
10	5501	27	3.6	221	Yes
11	5530	23	1.1	180	No
12	5559	23	1.3	189	No
13	5512	25	2.5	204	No
14	5552	29	4.5	203	Yes
15	5537	29	5	170	Yes
16	5518	26	3.1	201	Yes
17	5543	24	2.1	218	Yes
18	5551	25	2.6	208	Yes
19	5559	24	1.8	223	Yes
20	5518	23	1.2	220	Yes
21	5508	26	2.9	224	Yes
22	5510	28	4	160	Yes
23	5530	25	2.5	209	Yes
24	5546	23	1	205	Yes
25	5541	27	3.7	151	Yes
26	5558	25	2.5	186	Yes
27	5510	23	1.5	190	Yes
28	5505	23	1.3	185	Yes
29	5509	23	1.2	175	Yes
30	5538	24	1.7	216	Yes
Detection Rate: 86.7 %					

802.11ac (VHT80) CH106
Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5530	16	6.7	467	No
2	5540	18	8.8	304	Yes
3	5560	18	9	316	Yes
4	5520	18	9.3	439	Yes
5	5500	16	6.9	420	Yes
6	5522	16	6.1	249	No
7	5524	18	9.5	463	Yes
8	5527	17	7.9	258	Yes
9	5559	17	7.8	212	Yes
10	5520	17	8.6	236	No
11	5508	16	6.1	474	Yes
12	5551	16	6.3	461	Yes
13	5544	17	7.5	437	Yes
14	5518	18	9.5	287	Yes
15	5509	18	10	395	Yes
16	5555	17	8.1	322	Yes
17	5514	16	7.1	468	Yes
18	5560	17	7.6	255	Yes
19	5515	16	6.8	423	Yes
20	5523	16	6.2	456	Yes
21	5557	17	7.9	351	Yes
22	5510	18	9	411	No
23	5506	17	7.5	279	Yes
24	5555	16	6	431	Yes
25	5514	17	8.7	324	Yes
26	5553	17	7.5	419	Yes
27	5527	16	6.5	447	Yes
28	5517	16	6.3	481	Yes
29	5506	16	6.2	438	Yes
30	5514	16	6.7	270	Yes
Detection Rate: 86.7 %					

802.11ac (VHT80) CH106
Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5530	12	12.5	467	Yes
2	5540	15	17.2	304	Yes
3	5560	15	17.8	316	Yes
4	5520	16	18.5	439	Yes
5	5500	13	13.1	420	Yes
6	5550	12	11.3	249	Yes
7	5547	16	18.8	463	Yes
8	5501	14	15.3	258	Yes
9	5506	14	15.1	212	Yes
10	5530	15	16.9	236	Yes
11	5509	12	11.2	474	No
12	5538	12	11.7	461	No
13	5503	13	14.4	437	No
14	5539	16	18.9	287	No
15	5505	16	19.9	395	Yes
16	5556	14	15.7	322	Yes
17	5545	13	13.4	468	Yes
18	5553	13	14.5	255	Yes
19	5545	13	12.9	423	Yes
20	5539	12	11.5	456	Yes
21	5552	14	15.3	351	Yes
22	5505	15	17.8	411	Yes
23	5510	13	14.3	279	Yes
24	5507	12	11.1	431	Yes
25	5527	15	17	324	Yes
26	5546	13	14.5	419	Yes
27	5537	12	12.1	447	Yes
28	5560	12	11.7	481	Yes
29	5556	12	11.6	438	No
30	5506	12	12.7	270	Yes
Detection Rate: 83.3 %					

802.11ac (VHT80) CH106

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	7	5530	LP_Signal_01	Yes
2	15	5530	LP_Signal_02	Yes
3	16	5530	LP_Signal_03	Yes
4	18	5530	LP_Signal_04	Yes
5	8	5530	LP_Signal_05	Yes
6	5	5530	LP_Signal_06	Yes
7	18	5530	LP_Signal_07	Yes
8	12	5530	LP_Signal_08	Yes
9	12	5530	LP_Signal_09	Yes
10	15	5530	LP_Signal_10	Yes
11	5	5494	LP_Signal_11	Yes
12	6	5494	LP_Signal_12	No
13	11	5496	LP_Signal_13	Yes
14	18	5499	LP_Signal_14	Yes
15	20	5500	LP_Signal_15	Yes
16	13	5497	LP_Signal_16	Yes
17	9	5496	LP_Signal_17	Yes
18	11	5496	LP_Signal_18	Yes
19	8	5495	LP_Signal_19	Yes
20	5	5494	LP_Signal_20	Yes
21	12	5563	LP_Signal_21	Yes
22	17	5561	LP_Signal_22	Yes
23	10	5564	LP_Signal_23	Yes
24	5	5566	LP_Signal_24	Yes
25	15	5562	LP_Signal_25	Yes
26	11	5564	LP_Signal_26	Yes
27	7	5565	LP_Signal_27	Yes
28	6	5566	LP_Signal_28	No
29	6	5566	LP_Signal_29	Yes
30	8	5565	LP_Signal_30	No

Detection Rate: 90 %

The Long Pulse Radar pattern shown in Appendix A.1

802.11ac (VHT80) CH106

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	No
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	Yes
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	Yes
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	No
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	Yes
18	9	1	333.3	Yes
19	9	1	333.3	Yes
20	9	1	333.3	Yes
21	9	1	333.3	No
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes
				Detection Rate: 90 %

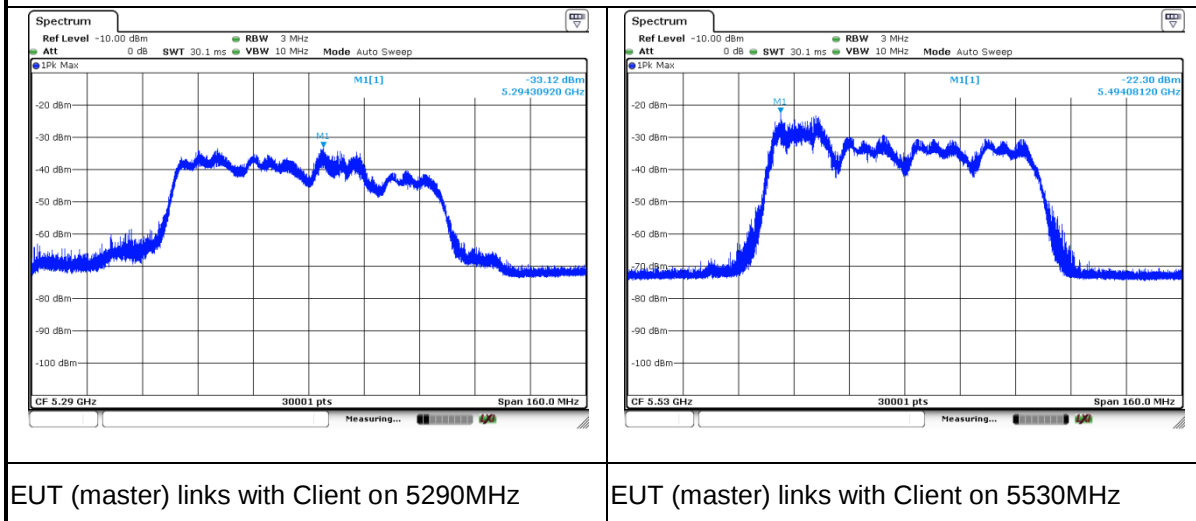
802.11ac (VHT80) CH106

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	No
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	No
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	No
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 90 %

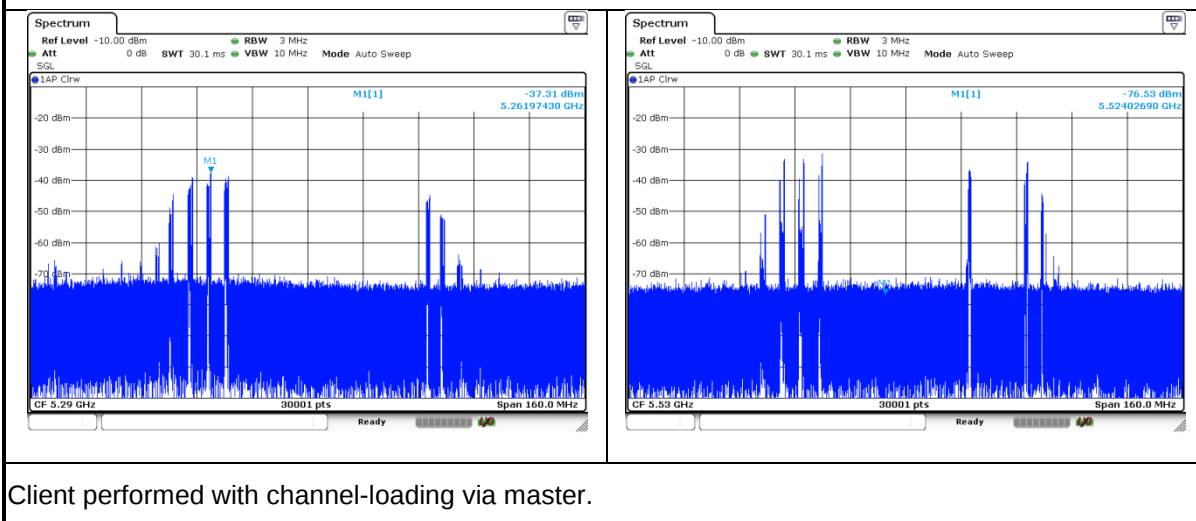
The Frequency Hopping Radar pattern shown in Appendix A.2

6.2.5 Non- Occupancy Period

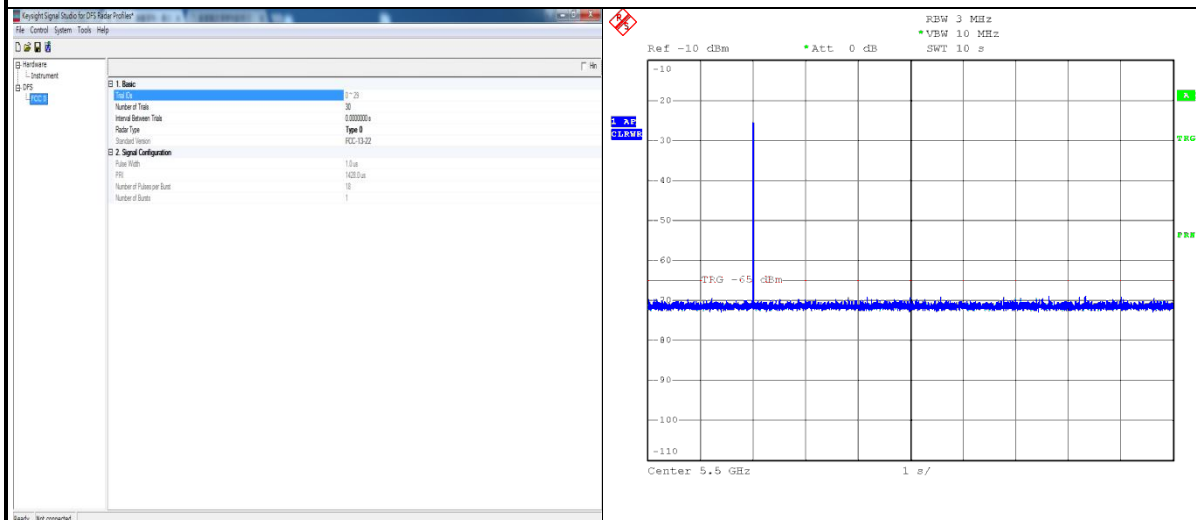
1) Test results demonstrating an associated client link is established with the master on a test frequency.



2) The master and DFS-certified client device are associated, and system testing will be performed with channel-loading for a non-occupancy period test.



3). The device transmits one type of radar as specified in the DFS Order.



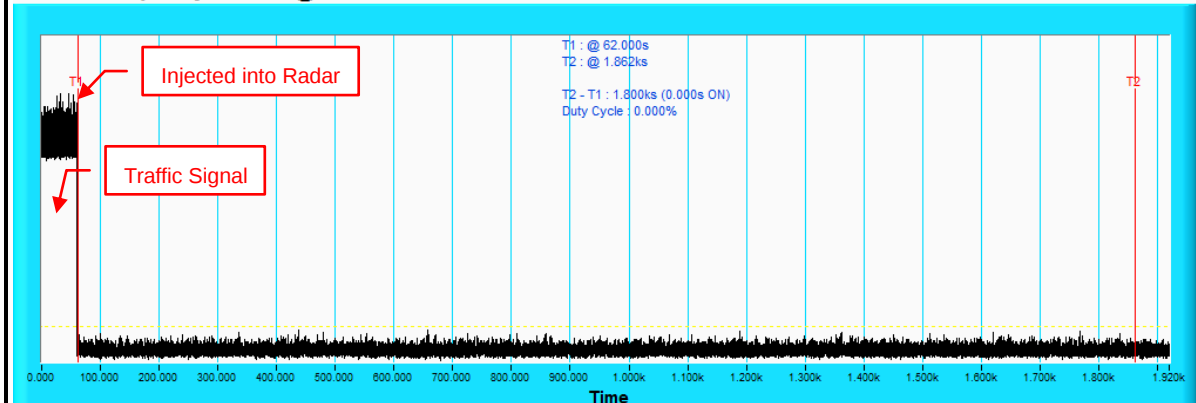
Radar 0 is used to test during DFS testing.

4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes;

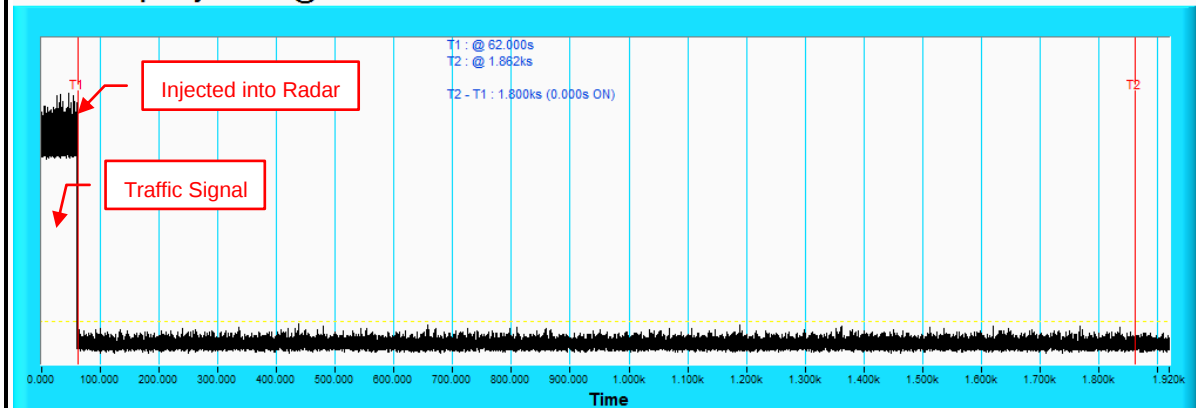
Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear;

5)An analyzer plot that contains a single 30-minute sweep on the original test frequency.

Non - Occupancy Period @ CH58 - 5290MHz



Non - Occupancy Period @ CH106 - 5530MHz



7. Information on The Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

8. APPENDIX-A

RADAR TEST SIGNAL

A.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_01

Number of Bursts in Trial: 10

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	7	58.7	1765	-	-
2	3	7	84.3	1452	1398	1571
3	3	7	87.4	1358	1377	1111
4	3	7	91.4	1554	1036	1662
5	1	7	61.8	1828	-	-
6	1	7	51.8	1621	-	-
7	3	7	93.4	1063	1317	1923
8	2	7	73.8	1804	1156	-
9	2	7	72.6	1935	1079	-
10	2	7	82.5	1049	1478	-
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	15	51.3	1713	-	-
2	1	15	54	1485	-	-
3	2	15	69.1	1043	1750	-
4	3	15	93.8	1665	1844	1155
5	3	15	99.1	1505	1825	1538
6	2	15	76	1866	1508	-
7	1	15	63.5	1889	-	-
8	2	15	69.8	1024	1578	-
9	1	15	60.9	1067	-	-
10	1	15	52.9	1162	-	-
11	2	15	73.7	1211	1581	-
12	3	15	87.8	1516	1753	1473
13	2	15	68.6	1029	1730	-
14	1	15	50.9	1930	-	-
15	2	15	83	1675	1303	-
16	2	15	69.5	1296	1410	-
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	16	56.4	1603	-	-
2	1	16	53.9	1545	-	-
3	1	16	53.5	1943	-	-
4	1	16	59.4	1206	-	-
5	2	16	78.5	1305	1969	-
6	3	16	86.1	1355	1823	1948
7	2	16	67	1788	1958	-
8	2	16	74.5	1213	1124	-
9	2	16	81.3	1215	1366	-
10	2	16	81.5	1429	1293	-
11	2	16	79.9	1345	1990	-
12	1	16	50.5	1996	-	-
13	3	16	88.4	1871	1121	1723
14	1	16	65.7	1964	-	-
15	3	16	93	1962	1265	1267
16	1	16	63.6	1020	-	-
17	2	16	78.1	1737	1422	-
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 18

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	18	76.8	1105	1462	-
2	2	18	72.6	1668	1188	-
3	2	18	70.4	1321	1820	-
4	1	18	57	1683	-	-
5	3	18	88.6	1721	1611	1967
6	1	18	55	1594	-	-
7	3	18	93.3	1624	1678	1625
8	3	18	86.7	1720	1540	1349
9	3	18	86.7	1816	1617	1754
10	1	18	57.7	1382	-	-
11	2	18	78.1	1561	1416	-
12	1	18	59.9	1734	-	-
13	2	18	71	1677	1220	-
14	1	18	65.7	1497	-	-
15	3	18	86.4	1957	1088	1054
16	1	18	58.3	1104	-	-
17	3	18	92.3	1589	1800	1189
18	3	18	95.4	1147	1801	1748
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	8	89.4	1574	1736	1023
2	2	8	70.2	1655	1500	-
3	1	8	63.2	1445	-	-
4	1	8	53.9	1098	-	-
5	1	8	65.2	1918	-	-
6	3	8	87.1	1453	1658	1236
7	3	8	94.6	1896	1154	1456
8	1	8	62.4	1646	-	-
9	2	8	67.6	1600	1439	-
10	3	8	96.2	1629	1909	1879
11	1	8	62.9	1793	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 8

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	5	81.4	1413	1565	-
2	3	5	95.3	1774	1131	1995
3	1	5	60	1160	-	-
4	1	5	60.1	1922	-	-
5	1	5	59.6	1069	-	-
6	3	5	91.8	1259	1810	1477
7	2	5	78.4	1763	1487	-
8	1	5	62.6	1122	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

Number of Bursts in Trial: 19

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	18	62.4	1000	-	-
2	2	18	67.9	1925	1039	-
3	3	18	99	1890	1228	1326
4	1	18	60.3	1210	-	-
5	2	18	72.7	1688	1548	-
6	3	18	91.9	1988	1503	1201
7	2	18	78.3	1309	1198	-
8	3	18	88.9	1080	1399	1115
9	1	18	64.5	1087	-	-
10	1	18	60.3	1133	-	-
11	1	18	65.8	1579	-	-
12	3	18	93.5	1619	1682	1758
13	3	18	92.2	1533	1842	1979
14	3	18	96.2	1672	1744	1971
15	2	18	70.3	1414	1692	-
16	1	18	53.5	1706	-	-
17	3	18	93.4	1870	1242	1395
18	1	18	64.9	1438	-	-
19	2	18	72.9	1239	1817	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	12	57.3	1698	-	-
2	2	12	83.3	1700	1427	-
3	1	12	62.5	1952	-	-
4	2	12	76.1	1612	1397	-
5	3	12	87.5	1139	1901	1400
6	3	12	97.1	1352	1798	1636
7	2	12	73.8	1496	1536	-
8	1	12	55.2	1357	-	-
9	1	12	62.5	1811	-	-
10	2	12	68.1	1251	1843	-
11	3	12	99.9	1819	1057	1017
12	1	12	61.3	1342	-	-
13	2	12	73.9	1725	1872	-
14	1	12	58	1747	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	12	95.8	1465	1975	1904
2	2	12	79.9	1764	1174	-
3	2	12	77.4	1235	1584	-
4	3	12	90.4	1114	1974	1027
5	1	12	59.9	1126	-	-
6	3	12	90.5	1275	1985	1845
7	1	12	62	1062	-	-
8	3	12	87	1463	1587	1887
9	3	12	98.3	1586	1187	1651
10	2	12	80.1	1277	1881	-
11	1	12	52.1	1330	-	-
12	1	12	51.7	1333	-	-
13	1	12	52.7	1867	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	15	70.7	1934	1731	-
2	3	15	85.3	1179	1751	1711
3	2	15	75	1034	1261	-
4	1	15	56.4	1954	-	-
5	2	15	66.7	1243	1090	-
6	3	15	94.8	1224	1970	1214
7	2	15	68.8	1701	1280	-
8	2	15	71	1563	1537	-
9	2	15	79.4	1525	1389	-
10	3	15	100	1717	1498	1740
11	3	15	91.9	1295	1037	1829
12	1	15	61.5	1949	-	-
13	1	15	63.2	1596	-	-
14	3	15	99	1254	1919	1073
15	3	15	86.6	1606	1849	1202
16	1	15	65.8	1635	-	-
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19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 8

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	5	70.7	1897	1749	-
2	1	5	64.6	1965	-	-
3	3	5	99	1012	1045	1772
4	3	5	91.9	1583	1466	1549
5	3	5	85.5	1420	1780	1459
6	3	5	96.5	1530	1924	1835
7	1	5	66.2	1550	-	-
8	3	5	92.9	1929	1335	1883
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	6	63.1	1642	-	-
2	3	6	83.5	1005	1981	1250
3	2	6	74.5	1914	1474	-
4	1	6	60.9	1430	-	-
5	2	6	70.4	1680	1542	-
6	3	6	85.1	1048	1127	1393
7	2	6	82.4	1605	1282	-
8	2	6	74	1108	1691	-
9	3	6	85.7	1486	1976	1212
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 12

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	11	94.4	1385	1336	1376
2	1	11	53	1805	-	-
3	2	11	70	1248	1558	-
4	3	11	87.6	1403	1170	1315
5	1	11	61.7	1042	-	-
6	2	11	83.2	1100	1535	-
7	1	11	66.6	1038	-	-
8	1	11	55.1	1423	-	-
9	3	11	87	1789	1306	1643
10	1	11	66.4	1409	-	-
11	2	11	80	1319	1094	-
12	3	11	85.6	1891	1291	1529
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 19

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	18	78.9	1613	1263	-
2	3	18	96.7	1627	1432	1986
3	3	18	91.5	1472	1759	1784
4	2	18	75.4	1274	1795	-
5	2	18	71.1	1968	1444	-
6	2	18	77.5	1588	1441	-
7	1	18	65.4	1710	-	-
8	1	18	53.1	1419	-	-
9	1	18	59.9	1518	-	-
10	2	18	67.3	1195	1168	-
11	2	18	74.2	1386	1216	-
12	2	18	69	1557	1132	-
13	2	18	82.1	1987	1186	-
14	3	18	93.3	1365	1032	1728
15	2	18	83.3	1103	1568	-
16	2	18	70.3	1699	1281	-
17	1	18	57.9	1285	-	-
18	1	18	50.6	1850	-	-
19	3	18	94.3	1479	1218	1733
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 20

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	20	67.5	1434	1117	-
2	2	20	67.8	1567	1773	-
3	2	20	75.9	1846	1362	-
4	2	20	68.9	1237	1818	-
5	3	20	96	1339	1796	1852
6	1	20	66.6	1289	-	-
7	2	20	78.3	1862	1856	-
8	1	20	58.9	1412	-	-
9	2	20	81.5	1113	1591	-
10	2	20	82.4	1059	1861	-
11	3	20	86.8	1797	1163	1320
12	3	20	98.5	1268	1300	1868
13	2	20	80.1	1086	1482	-
14	3	20	86.3	1860	1407	1998
15	1	20	57.2	1241	-	-
16	3	20	84.3	1808	1873	1628
17	3	20	86.8	1258	1302	1978
18	2	20	83	1690	1378	-
19	3	20	85.6	1327	1956	1311
20	3	20	99.4	1112	1815	1262

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	13	57.5	1379	-	-
2	2	13	67	1551	1620	-
3	2	13	70.9	1939	1083	-
4	2	13	75.7	1332	1476	-
5	2	13	77.1	1840	1010	-
6	2	13	78.8	1371	1618	-
7	1	13	51	1494	-	-
8	1	13	55.4	1794	-	-
9	2	13	68.5	1590	1266	-
10	3	13	100	1484	1314	1428
11	3	13	96.4	1363	1361	1292
12	3	13	97.2	1694	1480	1446
13	3	13	86.4	1447	1227	1102
14	2	13	72.1	1184	1638	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	9	62.4	1329	-	-
2	2	9	67.8	1364	1937	-
3	1	9	53	1790	-	-
4	2	9	77.8	1546	1906	-
5	3	9	95.6	1145	1743	1499
6	1	9	58.8	1199	-	-
7	3	9	92.8	1424	1408	1381
8	2	9	68.5	1340	1972	-
9	3	9	84	1607	1663	1270
10	2	9	70.8	1468	1760	-
11	2	9	73.1	1869	1515	-
12						-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	11	68.8	1504	1973	-
2	3	11	94.2	1920	1299	1467
3	2	11	82.7	1003	1351	-
4	2	11	74.8	1597	1457	-
5	1	11	58.9	1874	-	-
6	3	11	96.5	1838	1708	1328
7	3	11	87.3	1405	1271	1687
8	2	11	72.4	1200	1433	-
9	1	11	51.3	1475	-	-
10	3	11	86.8	1159	1652	1942
11	1	11	50.4	1056	-	-
12	3	11	97	1884	1876	1415
13	1	11	50.1	1519	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 10

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	8	91.9	1301	1337	1645
2	2	8	67.2	1983	1040	-
3	1	8	65.5	1671	-	-
4	2	8	72.8	1489	1016	-
5	3	8	90.5	1552	1180	1064
6	2	8	81.6	1807	1853	-
7	3	8	86	1312	1905	1278
8	3	8	89.6	1152	1068	1832
9	1	8	62.1	1119	-	-
10	1	8	58	1234	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 8

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	5	73.8	1071	1915	-
2	3	5	89.5	1294	1450	1025
3	2	5	81.2	1144	1146	-
4	1	5	59	1041	-	-
5	3	5	87.5	1096	1941	1018
6	2	5	76.7	1667	1947	-
7	1	5	56.5	1573	-	-
8	3	5	89	1033	1391	1304
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	12	83.1	1762	1058	-
2	1	12	50	1739	-	-
3	1	12	52.6	1055	-	-
4	1	12	58.2	1704	-	-
5	3	12	84.6	1226	1177	1886
6	2	12	68.3	1269	1851	-
7	2	12	80.6	1814	1074	-
8	1	12	59.5	1009	-	-
9	1	12	53.4	1417	-	-
10	1	12	59.1	1431	-	-
11	2	12	74.8	1002	1394	-
12	3	12	85	1670	1755	1158
13	3	12	85.3	1307	1560	1078
14	1	12	61.9	1197	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	17	70.8	1022	1015	-
2	1	17	52.9	1483	-	-
3	3	17	86	1524	1308	1287
4	2	17	78.4	1821	1406	-
5	3	17	93.3	1991	1966	1290
6	2	17	70	1858	1471	-
7	2	17	78.1	1507	1705	-
8	1	17	52.4	1060	-	-
9	3	17	84.8	1859	1839	1993
10	3	17	83.5	1150	1492	1443
11	1	17	56.7	1208	-	-
12	3	17	86.2	1674	1125	1053
13	1	17	58.8	1436	-	-
14	3	17	85.4	1686	1509	1577
15	2	17	77.7	1297	1298	-
16	3	17	87.4	1649	1894	1075
17	3	17	99.8	1185	1167	1616
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 12

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	10	95.7	1353	1813	1028
2	3	10	94.9	1735	1994	1084
3	3	10	97.9	1354	1792	1418
4	2	10	67.4	1348	1008	-
5	3	10	96.9	1916	1425	1283
6	3	10	97.6	1384	1050	1569
7	3	10	83.6	1231	1219	1194
8	2	10	82.6	1128	1346	-
9	3	10	97.2	1142	1769	1173
10	3	10	92.3	1181	1164	1458
11	2	10	80.9	1222	1756	-
12	2	10	78.1	1190	1999	-
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14						
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16						
17						
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19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

Number of Bursts in Trial: 8

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	5	76.9	1564	1767	-
2	1	5	64.7	1437	-	-
3	2	5	77.1	1046	1944	-
4	2	5	72.7	1440	1374	-
5	1	5	61.9	1035	-	-
6	2	5	68.6	1205	1892	-
7	2	5	78.3	1047	1273	-
8	2	5	73.1	1426	1863	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	15	59.1	1718	-	-
2	3	15	83.5	1070	1129	1318
3	3	15	86.5	1176	1253	1442
4	1	15	60.8	1209	-	-
5	2	15	80.7	2000	1360	-
6	1	15	65.2	1101	-	-
7	2	15	69.1	1511	1030	-
8	1	15	51.5	1161	-	-
9	3	15	98.5	1061	1951	1812
10	1	15	59.5	1325	-	-
11	3	15	95.3	1284	1650	1169
12	2	15	81.8	1460	1077	-
13	1	15	66	1149	-	-
14	1	15	59.3	1373	-	-
15	2	15	79.2	1836	1534	-
16	3	15	90.2	1455	1738	1490
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_26

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	11	87.5	1343	1331	1313
2	3	11	94.6	1448	1543	1803
3	2	11	73.9	1722	1514	-
4	1	11	55.4	1506	-	-
5	1	11	52.3	1960	-	-
6	3	11	95.8	1240	1380	1252
7	3	11	96.1	1372	1411	1908
8	2	11	77.8	1885	1593	-
9	3	11	97.2	1021	1614	1633
10	2	11	74.3	1582	1097	-
11	1	11	57.9	1031	-	-
12	2	11	68.8	1927	1936	-
13	2	11	79.6	1857	1470	-
14						
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17						
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19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	7	63.4	1595	-	-
2	3	7	97	1451	1660	1562
3	2	7	66.7	1116	1544	-
4	3	7	99.5	1553	1526	1768
5	1	7	64.3	1107	-	-
6	3	7	90.7	1992	1626	1899
7	1	7	62.1	1630	-	-
8	1	7	58.3	1676	-	-
9	3	7	87	1726	1696	1464
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	6	86.8	1673	1383	1653
2	2	6	81.7	1841	1911	-
3	2	6	78.4	1900	1229	-
4	2	6	82.1	1527	1072	-
5	3	6	84.1	1893	1742	1491
6	3	6	87.7	1247	1341	1955
7	3	6	97	1559	1685	1572
8	3	6	99.1	1641	1727	1848
9	1	6	62	1245	-	-
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 8

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	6	67.5	1193	1182	-
2	3	6	85.6	1221	1741	1338
3	3	6	86.9	1580	1775	1809
4	3	6	85.3	1082	1854	1095
5	2	6	67.3	1898	1977	-
6	3	6	94.8	1791	1350	1230
7	2	6	72.9	1681	1323	-
8	2	6	70.7	1709	1123	-
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

Number of Bursts in Trial: 10

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	8	63.3	1044	-	-
2	3	8	87.4	1945	1602	1203
3	1	8	58.7	1556	-	-
4	1	8	63.6	1598	-	-
5	1	8	56.3	1110	-	-
6	1	8	57.2	1878	-	-
7	1	8	50.3	1659	-	-
8	2	8	71.9	1143	1724	-
9	3	8	85.1	1404	1715	1449
10	1	8	62.5	1276	-	-
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

A.2 The Frequency Hopping Radar pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01					
Frequency (MHz)	0	1	2	3	4
0	5684	5647	5388	5528	5616
5	5491	5605	5502	5588	5683
10	5313	5430	5420	5521	5622
15	5292	5485	5489	5387	5265
20	5419	5271	5508	5386	5410
25	5494	5600	5471	5711	5584
30	5719	5342	5361	5308	5639
35	5397	5580	5664	5667	5349
40	5290	5541	5665	5322	5585
45	5501	5330	5264	5350	5718
50	5447	5378	5340	5445	5285
55	5389	5252	5368	5469	5713
60	5384	5516	5254	5689	5318
65	5416	5459	5607	5475	5514
70	5630	5542	5263	5379	5455
75	5411	5550	5617	5554	5708
80	5688	5619	5604	5258	5695
85	5559	5301	5690	5596	5537
90	5701	5448	5611	5658	5338
95	5525	5327	5413	5555	5546

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02					
Frequency (MHz)	0	1	2	3	4
0	5464	5411	5324	5689	5458
5	5630	5530	5577	5276	5415
10	5719	5316	5461	5619	5643
15	5380	5612	5592	5432	5554
20	5427	5340	5449	5475	5383
25	5382	5549	5674	5437	5618
30	5286	5706	5318	5523	5595
35	5264	5293	5460	5442	5263
40	5604	5624	5603	5562	5582
45	5430	5310	5347	5311	5296
50	5712	5254	5516	5496	5374
55	5687	5574	5556	5423	5331
60	5581	5487	5379	5723	5285
65	5650	5298	5463	5666	5337
70	5541	5548	5538	5668	5260
75	5526	5677	5586	5376	5669
80	5299	5277	5289	5255	5462
85	5384	5361	5407	5588	5474
90	5681	5395	5482	5396	5670
95	5355	5580	5700	5295	5658

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03

Frequency (MHz)	0	1	2	3	4
0	5719	5650	5260	5278	5678
5	5672	5552	5652	5439	5622
10	5580	5502	5339	5664	5371
15	5264	5695	5477	5271	5338
20	5506	5487	5467	5356	5648
25	5401	5402	5541	5425	5692
30	5275	5263	5565	5415	5306
35	5384	5256	5595	5540	5707
40	5327	5579	5359	5668	5430
45	5369	5252	5599	5605	5547
50	5560	5510	5518	5269	5280
55	5521	5400	5458	5512	5544
60	5305	5555	5586	5596	5499
65	5412	5689	5607	5344	5620
70	5524	5293	5636	5697	5422
75	5551	5337	5405	5441	5352
80	5610	5365	5701	5324	5429
85	5542	5722	5272	5498	5419
90	5304	5372	5635	5723	5598
95	5274	5286	5564	5281	5589

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04

Frequency (MHz)	0	1	2	3	4
0	5499	5414	5671	5439	5520
5	5714	5477	5252	5505	5451
10	5484	5369	5543	5534	5685
15	5459	5391	5323	5425	5463
20	5346	5575	5428	5556	5329
25	5536	5350	5605	5645	5686
30	5467	5581	5707	5381	5717
35	5710	5445	5475	5624	5273
40	5663	5379	5412	5479	5470
45	5673	5666	5648	5513	5427
50	5305	5389	5481	5393	5598
55	5649	5711	5365	5457	5709
60	5694	5332	5641	5250	5387
65	5509	5542	5700	5361	5424
70	5622	5314	5510	5296	5336
75	5478	5595	5342	5565	5631
80	5328	5447	5661	5508	5415
85	5724	5330	5640	5287	5297
90	5593	5495	5567	5504	5453
95	5635	5316	5486	5690	5376

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05

Frequency (MHz)	0	1	2	3	4
0	5657	5653	5607	5600	5265
5	5378	5499	5327	5668	5658
10	5415	5633	5681	5254	5706
15	5547	5421	5329	5470	5655
20	5354	5266	5369	5645	5302
25	5677	5333	5274	5720	5509
30	5664	5596	5491	5433	5584
35	5566	5420	5426	5577	5693
40	5495	5320	5710	5670	5595
45	5628	5388	5358	5276	5260
50	5569	5649	5263	5534	5309
55	5663	5513	5303	5295	5399
60	5316	5335	5488	5523	5310
65	5256	5294	5425	5386	5496
70	5299	5660	5454	5554	5462
75	5708	5612	5580	5460	5442
80	5672	5478	5624	5525	5268
85	5482	5347	5411	5262	5646
90	5290	5701	5510	5390	5503
95	5270	5313	5610	5492	5485

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06

Frequency (MHz)	0	1	2	3	4
0	5437	5417	5543	5286	5582
5	5420	5424	5402	5356	5390
10	5346	5422	5722	5449	5252
15	5635	5548	5432	5515	5372
20	5265	5335	5407	5637	5275
25	5690	5529	5439	5475	5279
30	5551	5456	5621	5336	5643
35	5253	5626	5657	5691	5676
40	5491	5532	5578	5258	5667
45	5427	5608	5301	5446	5411
50	5541	5611	5270	5700	5352
55	5357	5631	5358	5617	5616
60	5710	5274	5327	5564	5712
65	5623	5636	5531	5724	5259
70	5466	5661	5606	5555	5579
75	5399	5509	5333	5513	5268
80	5485	5570	5698	5361	5638
85	5342	5646	5324	5310	5506
90	5605	5598	5419	5585	5391
95	5516	5302	5534	5520	5325

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07

Frequency (MHz)	0	1	2	3	4
0	5692	5656	5479	5447	5327
5	5462	5446	5477	5519	5694
10	5655	5308	5288	5547	5273
15	5723	5675	5535	5560	5564
20	5501	5348	5251	5578	5478
25	5642	5579	5313	5690	5345
30	5551	5417	5451	5290	5370
35	5487	5354	5502	5468	5283
40	5671	5618	5664	5356	5588
45	5384	5504	5464	5428	5276
50	5441	5575	5449	5571	5331
55	5529	5720	5456	5254	5657
60	5455	5559	5683	5652	5298
65	5409	5627	5565	5402	5358
70	5309	5472	5615	5605	5422
75	5609	5680	5525	5701	5537
80	5646	5263	5698	5473	5552
85	5667	5556	5619	5361	5562
90	5546	5380	5281	5287	5471
95	5503	5649	5548	5607	5467

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08

Frequency (MHz)	0	1	2	3	4
0	5472	5420	5415	5608	5644
5	5504	5371	5552	5585	5426
10	5586	5572	5329	5267	5294
15	5714	5327	5638	5508	5281
20	5667	5289	5718	5696	5369
25	5330	5370	5683	5347	5257
30	5709	5535	5669	5569	5271
35	5429	5461	5380	5507	5416
40	5307	5366	5609	5383	5661
45	5285	5568	5467	5465	5517
50	5693	5266	5622	5627	5381
55	5422	5637	5525	5521	5348
60	5594	5419	5602	5287	5385
65	5423	5273	5632	5688	5251
70	5687	5699	5551	5502	5431
75	5584	5250	5468	5652	5260
80	5592	5615	5549	5580	5333
85	5438	5506	5440	5603	5721
90	5625	5395	5444	5655	5651
95	5435	5362	5660	5353	5326

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09

Frequency (MHz)	0	1	2	3	4
0	5252	5659	5351	5294	5389
5	5643	5393	5627	5273	5633
10	5517	5361	5370	5462	5315
15	5327	5454	5266	5553	5473
20	5667	5261	5332	5669	5257
25	5279	5573	5312	5381	5299
30	5695	5492	5409	5343	5469
35	5568	5552	5651	5282	5330
40	5621	5449	5547	5623	5280
45	5592	5451	5550	5523	5580
50	5617	5323	5378	5716	5679
55	5366	5350	5479	5614	5545
60	5565	5714	5584	5594	5308
65	5466	5571	5581	5340	5618
70	5490	5537	5505	5434	5390
75	5611	5541	5328	5516	5281
80	5612	5452	5519	5510	5306
85	5557	5688	5326	5411	5631
90	5704	5289	5668	5346	5558
95	5429	5521	5657	5436	5339

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10

Frequency (MHz)	0	1	2	3	4
0	5410	5423	5287	5358	5706
5	5685	5318	5702	5436	5462
10	5351	5625	5411	5657	5336
15	5415	5484	5272	5598	5675
20	5427	5268	5324	5642	5523
25	5606	5301	5513	5438	5584
30	5449	5624	5495	5289	5610
35	5643	5447	5435	5341	5460
40	5532	5485	5388	5277	5521
45	5431	5633	5581	5526	5370
50	5493	5499	5429	5330	5502
55	5688	5538	5433	5329	5364
60	5536	5368	5274	5589	5609
65	5412	5297	5530	5663	5550
70	5413	5293	5465	5620	5605
75	5283	5712	5349	5425	5490
80	5614	5445	5512	5269	5452
85	5361	5356	5271	5511	5461
90	5621	5576	5637	5366	5586
95	5545	5553	5689	5719	5648

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11

Frequency (MHz)	0	1	2	3	4
0	5665	5662	5698	5519	5451
5	5252	5340	5302	5599	5669
10	5282	5414	5452	5377	5357
15	5503	5611	5375	5643	5479
20	5683	5496	5684	5413	5615
25	5411	5458	5407	5617	5449
30	5480	5473	5406	5364	5269
35	5584	5274	5259	5588	5255
40	5299	5712	5423	5531	5353
45	5716	5542	5579	5257	5369
50	5675	5419	5325	5632	5251
55	5387	5658	5507	5400	5439
60	5534	5355	5435	5358	5498
65	5602	5382	5305	5474	5634
70	5606	5608	5607	5688	5308
75	5394	5513	5595	5570	5553
80	5609	5575	5509	5464	5678
85	5416	5614	5562	5709	5344
90	5266	5468	5410	5702	5600
95	5668	5635	5442	5372	5385

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12

Frequency (MHz)	0	1	2	3	4
0	5445	5523	5634	5680	5293
5	5294	5265	5377	5665	5401
10	5591	5300	5493	5475	5378
15	5494	5263	5478	5671	5594
20	5662	5722	5405	5588	5677
25	5407	5610	5721	5483	5522
30	5459	5363	5482	5421	5307
35	5413	5447	5611	5644	5710
40	5320	5361	5296	5271	5282
45	5391	5324	5600	5632	5623
50	5376	5531	5605	5479	5439
55	5341	5709	5477	5381	5529
60	5604	5358	5304	5321	5428
65	5638	5689	5575	5277	5706
70	5592	5708	5456	5567	5267
75	5266	5633	5371	5576	5347
80	5561	5334	5676	5506	5659
85	5258	5617	5379	5514	5579
90	5516	5542	5431	5337	5253
95	5519	5655	5395	5349	5647

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13

Frequency (MHz)	0	1	2	3	4
0	5700	5287	5570	5366	5513
5	5433	5452	5353	5705	5522
10	5564	5631	5670	5399	5582
15	5390	5581	5636	5388	5602
20	5256	5663	5494	5561	5565
25	5259	5338	5350	5517	5661
30	5348	5320	5697	5552	5538
35	5407	5516	5655	5549	5403
40	5677	5536	5268	5686	5371
45	5658	5685	5409	5499	5455
50	5694	5349	5423	5530	5295
55	5424	5674	5352	5294	5659
60	5347	5377	5370	5555	5400
65	5675	5711	5683	5543	5701
70	5710	5278	5514	5557	5502
75	5671	5590	5365	5323	5503
80	5379	5258	5459	5439	5706
85	5447	5567	5633	5362	5596
90	5277	5610	5531	5358	5722
95	5529	5460	5465	5334	5319

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14

Frequency (MHz)	0	1	2	3	4
0	5383	5526	5506	5527	5355
5	5475	5687	5516	5437	5453
10	5353	5672	5390	5420	5670
15	5517	5684	5681	5580	5610
20	5422	5604	5486	5534	5356
25	5683	5541	5551	5703	5334
30	5277	5347	5325	5594	5629
35	5678	5669	5569	5388	5583
40	5615	5301	5362	5518	5351
45	5490	5619	5263	5674	5375
50	5631	5633	5308	5647	5270
55	5718	5724	5614	5493	5323
60	5312	5459	5466	5423	5485
65	5293	5345	5326	5613	5256
70	5262	5358	5472	5661	5714
75	5532	5519	5660	5582	5398
80	5657	5538	5279	5371	5529
85	5386	5500	5574	5636	5402
90	5412	5521	5406	5560	5286
95	5283	5395	5640	5290	5363

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15

Frequency (MHz)	0	1	2	3	4
0	5638	5290	5442	5688	5575
5	5517	5709	5602	5679	5644
10	5287	5617	5713	5585	5441
15	5283	5547	5690	5629	5297
20	5521	5491	5545	5507	5719
25	5535	5269	5655	5270	5698
30	5652	5596	5620	5258	5720
35	5571	5444	5483	5702	5666
40	5553	5359	5447	5331	5573
45	5677	5316	5561	5251	5332
50	5684	5397	5470	5689	5431
55	5581	5329	5312	5294	5624
60	5411	5255	5408	5714	5546
65	5275	5649	5466	5532	5636
70	5641	5647	5339	5381	5495
75	5619	5551	5421	5703	5616
80	5531	5319	5627	5693	5449
85	5497	5391	5539	5715	5462
90	5518	5280	5572	5654	5380
95	5451	5289	5342	5277	5274

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16

Frequency (MHz)	0	1	2	3	4
0	5418	5529	5378	5374	5417
5	5559	5634	5677	5270	5473
10	5693	5406	5279	5305	5462
15	5274	5674	5318	5489	5657
20	5583	5567	5480	5607	5387
25	5375	5284	5619	5409	5587
30	5666	5295	5273	5343	5397
35	5336	5367	5597	5638	5491
40	5684	5356	5689	5656	5260
45	5272	5351	5505	5508	5293
50	5536	5535	5422	5509	5643
55	5314	5562	5709	5282	5369
60	5699	5588	5298	5424	5342
65	5713	5633	5705	5471	5578
70	5520	5541	5371	5308	5332
75	5408	5285	5512	5586	5539
80	5557	5425	5710	5720	5526
85	5427	5616	5392	5286	5400
90	5428	5513	5675	5676	5653
95	5495	5304	5724	5315	5698

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17

Frequency (MHz)	0	1	2	3	4
0	5673	5293	5314	5535	5637
5	5698	5656	5277	5433	5680
10	5624	5292	5320	5403	5483
15	5362	5326	5421	5719	5681
20	5537	5251	5524	5453	5398
25	5336	5578	5388	5556	5451
30	5573	5623	5510	5522	5638
35	5439	5427	5275	5408	5477
40	5357	5429	5449	5353	5683
45	5669	5264	5696	5325	5713
50	5381	5684	5311	5672	5494
55	5480	5332	5489	5612	5328
60	5614	5602	5479	5301	5394
65	5632	5703	5570	5648	5508
70	5694	5620	5310	5716	5442
75	5457	5350	5392	5661	5417
80	5560	5664	5306	5496	5485
85	5330	5588	5577	5675	5313
90	5419	5395	5523	5455	5412
95	5411	5303	5399	5273	5707

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18

Frequency (MHz)	0	1	2	3	4
0	5453	5532	5250	5599	5479
5	5265	5581	5352	5596	5412
10	5458	5556	5361	5598	5504
15	5450	5524	5289	5495	5448
20	5417	5465	5648	5426	5286
25	5663	5306	5492	5590	5493
30	5462	5580	5296	5578	5615
35	5531	5525	5322	5316	5537
40	5367	5592	5350	5612	5649
45	5347	5279	5378	5503	5257
50	5385	5362	5317	5327	5520
55	5443	5622	5585	5256	5644
60	5343	5701	5393	5597	5660
65	5340	5586	5423	5702	5445
70	5326	5496	5560	5559	5337
75	5552	5613	5260	5391	5501
80	5345	5338	5522	5553	5374
85	5404	5301	5407	5540	5510
90	5309	5705	5406	5368	5444
95	5294	5313	5275	5519	5654

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19

Frequency (MHz)	0	1	2	3	4
0	5611	5296	5661	5285	5699
5	5307	5603	5427	5284	5619
10	5389	5345	5402	5318	5525
15	5538	5580	5627	5712	5687
20	5456	5583	5503	5262	5399
25	5552	5612	5509	5693	5624
30	5535	5351	5537	5368	5448
35	5656	5717	5706	5327	5678
40	5711	5630	5620	5305	5357
45	5444	5629	5430	5337	5431
50	5390	5608	5561	5413	5375
55	5615	5271	5708	5397	5517
60	5441	5556	5385	5334	5288
65	5595	5594	5546	5599	5550
70	5381	5701	5551	5688	5545
75	5302	5455	5426	5606	5540
80	5492	5565	5323	5388	5696
85	5655	5411	5617	5421	5582
90	5416	5539	5410	5516	5557
95	5477	5682	5587	5417	5366

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20

Frequency (MHz)	0	1	2	3	4
0	5391	5535	5597	5446	5444
5	5349	5625	5502	5447	5448
10	5698	5609	5540	5513	5546
15	5529	5610	5633	5282	5404
20	5464	5652	5254	5372	5440
25	5712	5322	5658	5674	5337
30	5494	5583	5697	5476	5381
35	5598	5356	5722	5469	5703
40	5621	5441	5373	5395	5484
45	5655	5387	5262	5438	5593
50	5324	5351	5707	5638	5430
55	5514	5596	5708	5462	5682
60	5320	5495	5635	5382	5651
65	5504	5720	5548	5479	5278
70	5414	5677	5449	5274	5521
75	5269	5675	5482	5369	5483
80	5385	5723	5594	5471	5334
85	5386	5536	5614	5704	5416
90	5318	5443	5574	5620	5461
95	5580	5566	5612	5615	5393

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21

Frequency (MHz)	0	1	2	3	4
0	5646	5299	5533	5607	5286
5	5488	5550	5577	5513	5655
10	5629	5398	5581	5708	5567
15	5617	5262	5261	5327	5596
20	5375	5343	5385	5345	5706
25	5316	5426	5692	5716	5701
30	5451	5323	5374	5674	5423
35	5413	5394	5606	5636	5405
40	5408	5559	5362	5438	5680
45	5589	5356	5537	5542	5263
50	5515	5650	5639	5512	5305
55	5422	5457	5401	5643	5275
60	5294	5508	5584	5618	5444
65	5574	5592	5543	5685	5317
70	5282	5551	5328	5254	5373
75	5549	5569	5320	5502	5521
80	5310	5546	5285	5626	5436
85	5434	5526	5490	5620	5519
90	5255	5325	5637	5688	5675
95	5478	5448	5338	5556	5605

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22

Frequency (MHz)	0	1	2	3	4
0	5426	5538	5469	5293	5506
5	5530	5572	5652	5676	5387
10	5560	5662	5622	5331	5588
15	5705	5389	5364	5372	5313
20	5383	5412	5423	5335	5318
25	5594	5265	5546	5251	5283
30	5590	5408	5623	5494	5562
35	5504	5287	5284	5550	5719
40	5491	5497	5505	5435	5609
45	5472	5679	5414	5493	5332
50	5614	5566	5264	5462	5384
55	5700	5259	5612	5276	5675
60	5451	5695	5601	5431	5344
65	5393	5610	5424	5338	5488
70	5486	5268	5651	5555	5518
75	5689	5463	5483	5298	5323
80	5519	5697	5282	5428	5626
85	5278	5621	5694	5541	5632
90	5559	5525	5289	5585	5271
95	5255	5526	5376	5427	5721

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23

Frequency (MHz)	0	1	2	3	4
0	5584	5302	5405	5454	5348
5	5572	5497	5252	5364	5691
10	5394	5548	5663	5526	5609
15	5318	5516	5467	5320	5505
20	5391	5578	5424	5291	5482
25	5592	5274	5256	5285	5422
30	5576	5365	5656	5300	5692
35	5701	5558	5437	5561	5574
40	5435	5270	5432	5538	5452
45	5287	5472	5546	5694	5393
50	5315	5617	5353	5328	5413
55	5688	5705	5473	5721	5329
60	5616	5640	5433	5257	5573
65	5642	5342	5646	5634	5254
70	5654	5404	5390	5334	5606
75	5464	5550	5386	5672	5279
80	5623	5529	5457	5338	5562
85	5495	5641	5355	5724	5531
90	5380	5722	5310	5510	5371
95	5406	5349	5356	5649	5554

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24

Frequency (MHz)	0	1	2	3	4
0	5364	5541	5341	5615	5568
5	5614	5519	5327	5527	5423
10	5325	5337	5704	5721	5630
15	5309	5643	5570	5365	5697
20	5302	5647	5305	5416	5264
25	5273	5477	5360	5319	5464
30	5465	5322	5396	5549	5512
35	5268	5308	5354	5687	5475
40	5397	5657	5373	5510	5526
45	5370	5432	5433	5599	5484
50	5269	5491	5668	5442	5583
55	5650	5601	5642	5420	5292
60	5692	5458	5306	5585	5362
65	5558	5368	5291	5466	5500
70	5569	5252	5715	5279	5253
75	5560	5250	5359	5357	5652
80	5542	5705	5543	5556	5453
85	5276	5440	5534	5517	5546
90	5414	5537	5260	5392	5591
95	5288	5452	5554	5408	5660

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25

Frequency (MHz)	0	1	2	3	4
0	5619	5305	5277	5679	5410
5	5278	5444	5402	5593	5630
10	5256	5601	5270	5441	5651
15	5397	5673	5576	5511	5310
20	5338	5343	5505	5712	5636
25	5393	5680	5464	5353	5506
30	5451	5279	5611	5701	5710
35	5407	5399	5722	5365	5389
40	5333	5362	5311	5275	5523
45	5299	5412	5453	5491	5652
50	5371	5620	5667	5719	5628
55	5309	5594	5314	5596	5610
60	5586	5663	5587	5471	5627
65	5669	5481	5465	5666	5715
70	5621	5676	5295	5372	5324
75	5323	5282	5577	5536	5684
80	5328	5477	5320	5482	5556
85	5337	5617	5420	5273	5635
90	5432	5376	5480	5625	5395
95	5500	5662	5373	5579	5640

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26

Frequency (MHz)	0	1	2	3	4
0	5399	5544	5688	5365	5630
5	5320	5466	5477	5281	5459
10	5565	5390	5311	5636	5672
15	5485	5325	5679	5455	5703
20	5318	5407	5284	5497	5685
25	5427	5720	5408	5568	5387
30	5645	5340	5711	5351	5475
35	5530	5546	5490	5518	5400
40	5647	5445	5724	5418	5520
45	5606	5392	5536	5549	5705
50	5496	5368	5295	5717	5607
55	5441	5405	5550	5634	5716
60	5572	5501	5307	5411	5286
65	5657	5508	5662	5553	5493
70	5309	5382	5329	5512	5643
75	5675	5597	5366	5504	5259
80	5666	5593	5306	5483	5648
85	5355	5335	5315	5540	5342
90	5360	5551	5435	5668	5269
95	5646	5706	5394	5610	5395

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27

Frequency (MHz)	0	1	2	3	4
0	5557	5405	5624	5526	5472
5	5362	5391	5552	5444	5666
10	5496	5654	5352	5259	5693
15	5573	5452	5307	5403	5420
20	5704	5700	5586	5658	5315
25	5669	5514	5294	5421	5687
30	5668	5469	5627	5350	5685
35	5581	5314	5293	5486	5528
40	5662	5517	5535	5372	5619
45	5510	5283	5523	5275	5544
50	5346	5331	5430	5385	5593
55	5407	5515	5602	5508	5273
60	5326	5333	5608	5454	5710
65	5596	5718	5457	5356	5565
70	5295	5653	5488	5505	5644
75	5717	5509	5485	5511	5679
80	5374	5470	5643	5645	5550
85	5713	5632	5503	5437	5703
90	5683	5434	5652	5276	5622
95	5412	5530	5640	5438	5603

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28

Frequency (MHz)	0	1	2	3	4
0	5337	5644	5560	5687	5692
5	5501	5413	5627	5607	5398
10	5427	5540	5490	5454	5714
15	5564	5579	5410	5448	5612
20	5712	5264	5641	5578	5631
25	5581	5521	5717	5455	5254
30	5690	5625	5684	5401	5548
35	5252	5672	5585	5446	5703
40	5325	5611	5503	5423	5514
45	5367	5255	5702	5568	5313
50	5626	5720	5397	5420	5253
55	5707	5306	5361	5705	5421
60	5479	5402	5491	5462	5262
65	5531	5400	5416	5659	5632
70	5550	5349	5634	5637	5378
75	5485	5502	5464	5516	5362
80	5555	5466	5288	5314	5630
85	5706	5642	5270	5713	5571
90	5563	5629	5556	5359	5686
95	5599	5658	5677	5633	5256

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29

Frequency (MHz)	0	1	2	3	4
0	5592	5408	5496	5373	5534
5	5543	5338	5702	5673	5261
10	5329	5531	5649	5260	5652
15	5706	5513	5493	5720	5333
20	5679	5667	5604	5469	5470
25	5445	5502	5489	5393	5579
30	5582	5424	5553	5368	5391
35	5385	5478	5599	5714	5639
40	5316	5441	5566	5608	5296
45	5710	5310	5626	5292	5675
50	5421	5448	5509	5454	5651
55	5494	5315	5420	5715	5450
60	5656	5504	5569	5357	5346
65	5617	5571	5285	5619	5437
70	5331	5364	5488	5351	5343
75	5423	5485	5698	5447	5443
80	5411	5701	5294	5562	5616
85	5413	5526	5724	5536	5510
90	5607	5409	5289	5664	5614
95	5418	5268	5446	5640	5464

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30

Frequency (MHz)	0	1	2	3	4
0	5372	5647	5432	5534	5279
5	5585	5360	5302	5361	5434
10	5667	5593	5572	5369	5281
15	5265	5261	5519	5441	5521
20	5631	5499	5620	5659	5577
25	5357	5322	5648	5606	5523
30	5435	5468	5539	5639	5327
35	5566	5530	5476	5274	5374
40	5628	5575	5399	5379	5331
45	5605	5700	5690	5393	5587
50	5345	5465	5378	5597	5695
55	5277	5498	5682	5269	5513
60	5437	5421	5660	5346	5449
65	5401	5280	5389	5440	5557
70	5607	5592	5414	5715	5403
75	5350	5491	5675	5319	5382
80	5505	5366	5428	5390	5636
85	5282	5255	5586	5404	5561
90	5380	5704	5454	5292	5300
95	5377	5560	5689	5595	5511

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