



DFS TEST REPORT

REPORT NO.: RF141013E03-4

MODEL NO.: C7000

FCC ID: PY314300285

RECEIVED: Oct. 13, 2014

TESTED: Apr. 25, 2015

ISSUED: June 12, 2015

APPLICANT: NETGEAR, Inc.

ADDRESS: 350 East Plumeria Drive San Jose, CA 95134

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
Ltd., Taoyuan Branch Hsin Chu Laboratory

LAB ADDRESS : No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141013E03-4	Original release	June 12, 2015



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1. CERTIFICATION

PRODUCT: AC1900 WiFi Cable Modem Router
BRAND NAME: NETGEAR
MODEL NO.: C7000
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: NETGEAR, Inc.
TESTED: Apr. 25, 2015
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
KDB 905462 D02 UNII DFS Compliance Procedures
New Rules v01r02

The above equipment (Model: C7000) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and was in 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 : Midoli Peng , Date: June 12, 2015
Midoli Peng / Specialist

Approved by : May Chen , Date: June 12, 2015
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	AC1900 WiFi Cable Modem Router	C7000	Firmware Version: V1.01.14eng01T



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2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list

PCB Chain No.	Brand	Model	Antenna Gain(dBi) < including cable loss>	Frequency range (MHz ~ MHz)	Antenna Type	Connecter Type
Chain 0	Netgear	NA	2.0 2.8	2400~2483.5 5150~5850	Dipole	i-Pex
Chain 1	Netgear	NA	2.0 2.8	2400~2483.5 5150~5850	Dipole	i-Pex
Chain 2	Netgear	NA	2.0 2.8	2400~2483.5 5150~5850	Dipole	i-Pex



2.4 EUT MAXIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER

802.11a

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	22.13	163.428
5470~5725MHz	22.17	164.873

802.11ac (VHT20)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	22.15	163.977
5470~5725MHz	22.21	166.284

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	22.15	163.977
5470~5725MHz	22.21	166.284



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802.11ac (VHT40)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	23.87	243.585
5470~5725MHz	23.89	244.659

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	22.40	173.583
5470~5725MHz	22.41	174.187

802.11ac (VHT80)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	19.56	90.286
5470~5725MHz	23.81	240.664

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	19.56	90.286
5470~5725MHz	22.28	169.226



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2.5 EUT MAXIMUM EIRP POWER

TABLE 5: THE EIRP OUTPUT POWER LIST

802.11a

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	24.93	311.406
5470~5725MHz	24.97	314.159

802.11ac (VHT20)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	24.95	312.452
5470~5725MHz	25.01	316.848

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	29.72	937.094
5470~5725MHz	29.78	950.278



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802.11ac (VHT40)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	26.67	464.142
5470~5725MHz	26.69	466.188

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	29.97	991.990
5470~5725MHz	29.98	995.453

802.11ac (VHT80)

3TX CDD Mode

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	22.36	172.036
5470~5725MHz	26.61	458.576

3TX Beamforming Mode MCS0NSS1

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	27.13	515.965
5470~5725MHz	29.85	967.090



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2.6 TRANSMIT POWER CONTROL (TPC) MECHANISM

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 EIRP of less than 500 mW.

Maximum EIRP of this device is 995.453mW which more than 500mW, therefore it's require TPC function.

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	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓



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 of KDB) 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.



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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 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \begin{array}{l} \left(\frac{1}{360} \right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	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

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	FSW8	101497	Aug.06.2014	Aug. 05, 2015
Vector Signal Generator Agilent	N5182B	MY53051263	Sep. 17, 2014	Sep. 16, 2015

4.2 DESCRIPTION OF SUPPORT UNITS

Table 14: Support Unit information.

No.	Product	Brand	Model No.	FCC ID	Spec.
1	Wireless Module	AzureWave	AW-CB160H	QDS-BRCM1082	

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

Table 15: Software/Firmware information.

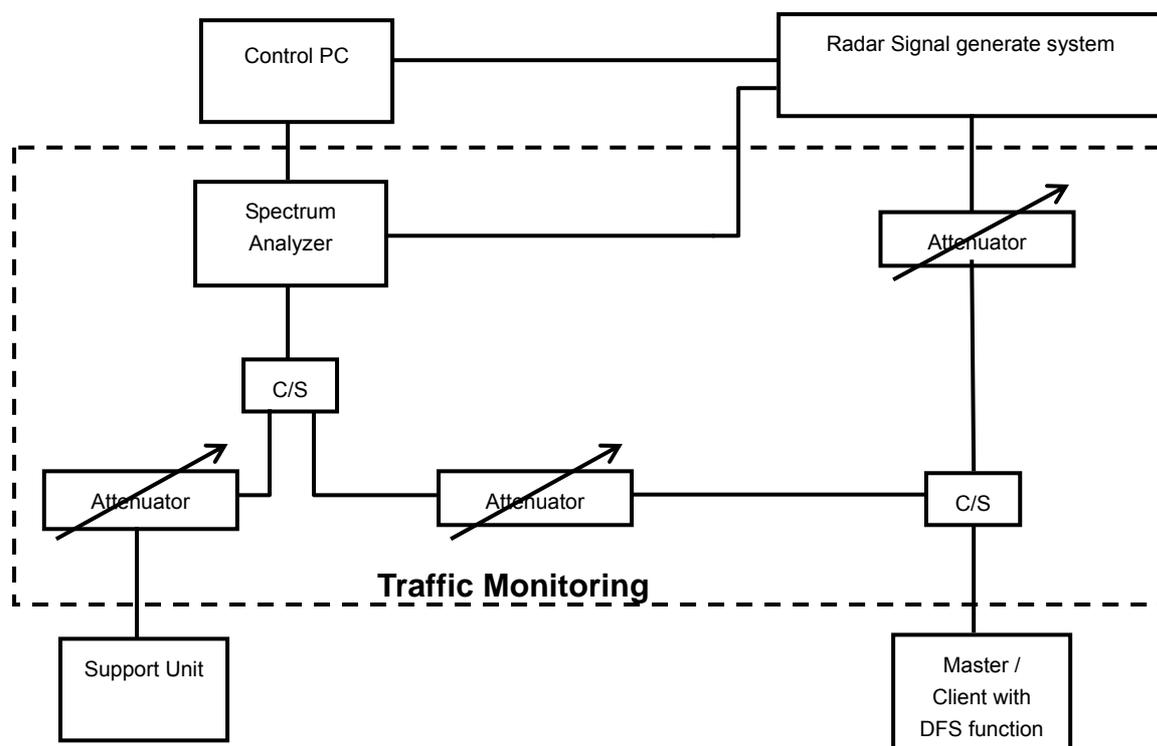
No.	Product	Model No.	Software/Firmware Version
1	Wireless Module	AW-CB160H	Driver Version: 03/19/2014, 6.30.223.240

5. TEST PROCEDURE

5.1 DFS MEASUREMENT SYSTEM:

A complete DFS Measurement System consists of Radar signal generate system to generating the radar waveforms in Table 10, 11 and 12. The traffic monitoring system is specified to the type of unit under test (UUT).

Conducted 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:

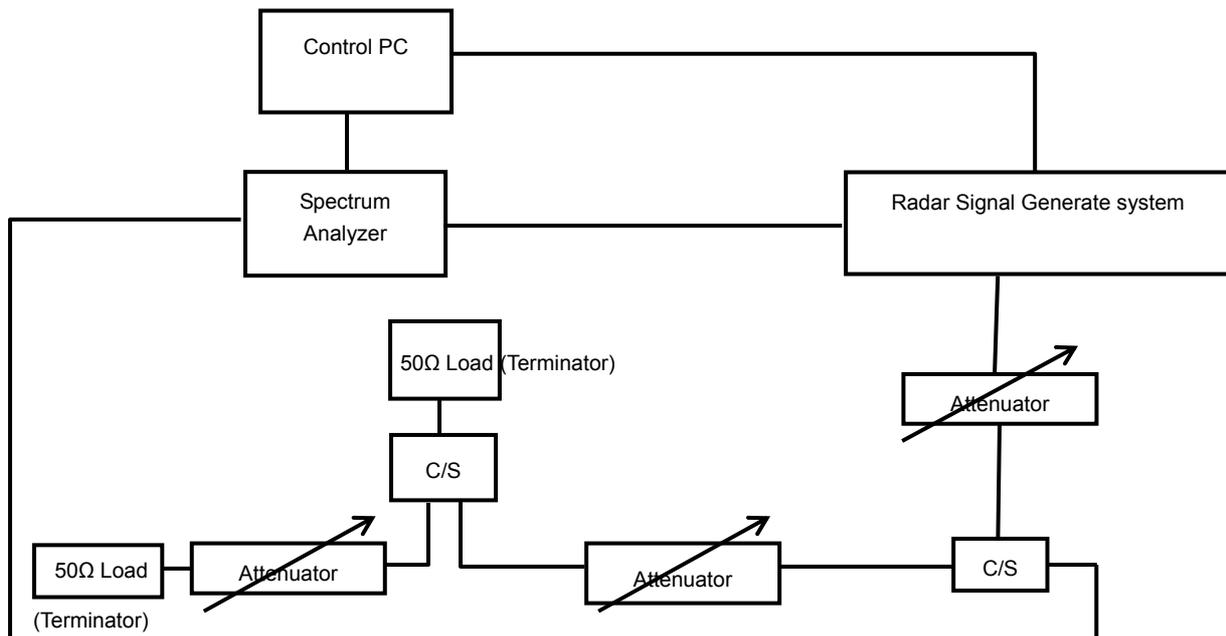
The measured channel is 5500MHz in 20MHz and 5510MHz in 40MHz and 5530 in 80MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

5.2.1 MASTER MODE

The Master antenna net gain is 2.8dBi and required detection threshold is $-60.2\text{dBm} = (-64+2.8+1)\text{dBm}$.

The calibrated conducted detection threshold level is lower than -60.2dBm .

Conducted setup configuration of Calibration of DFS Detection Threshold Level

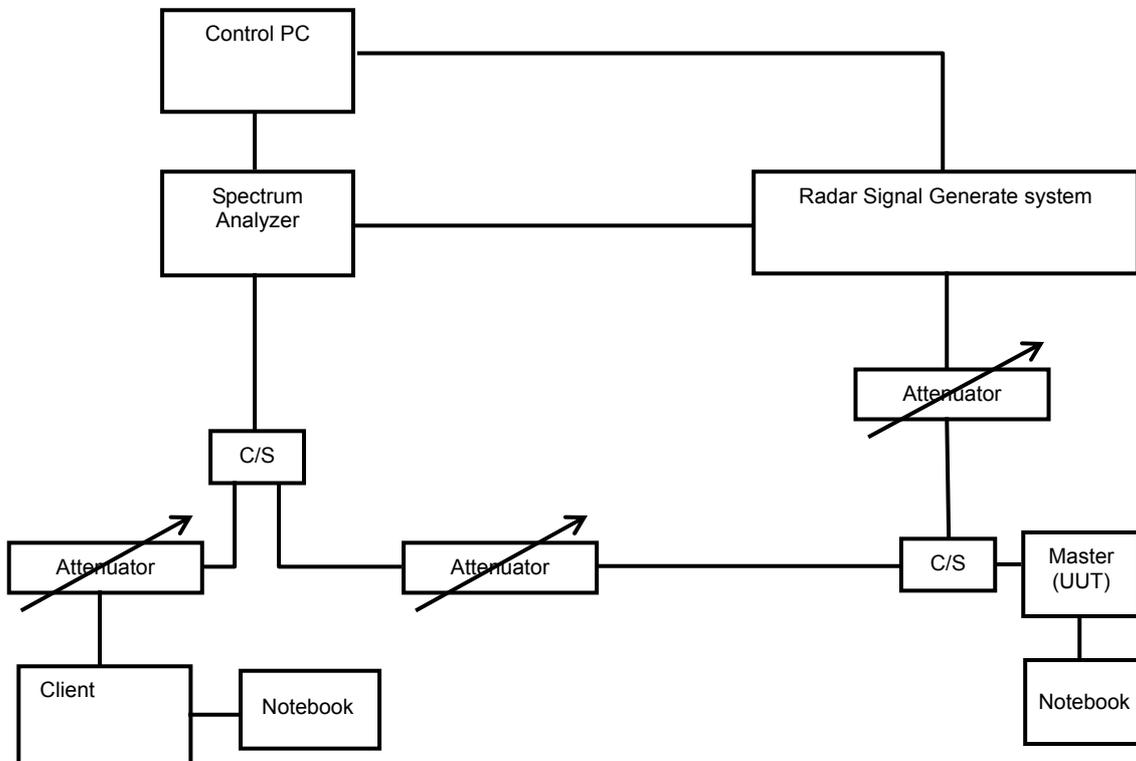


5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 CONDUCTED TEST SETUP CONFIGURATION

MASTER MODE



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



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6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

MASTER MODE

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
15.407	Non-Co-Channel test	Applicable	Pass

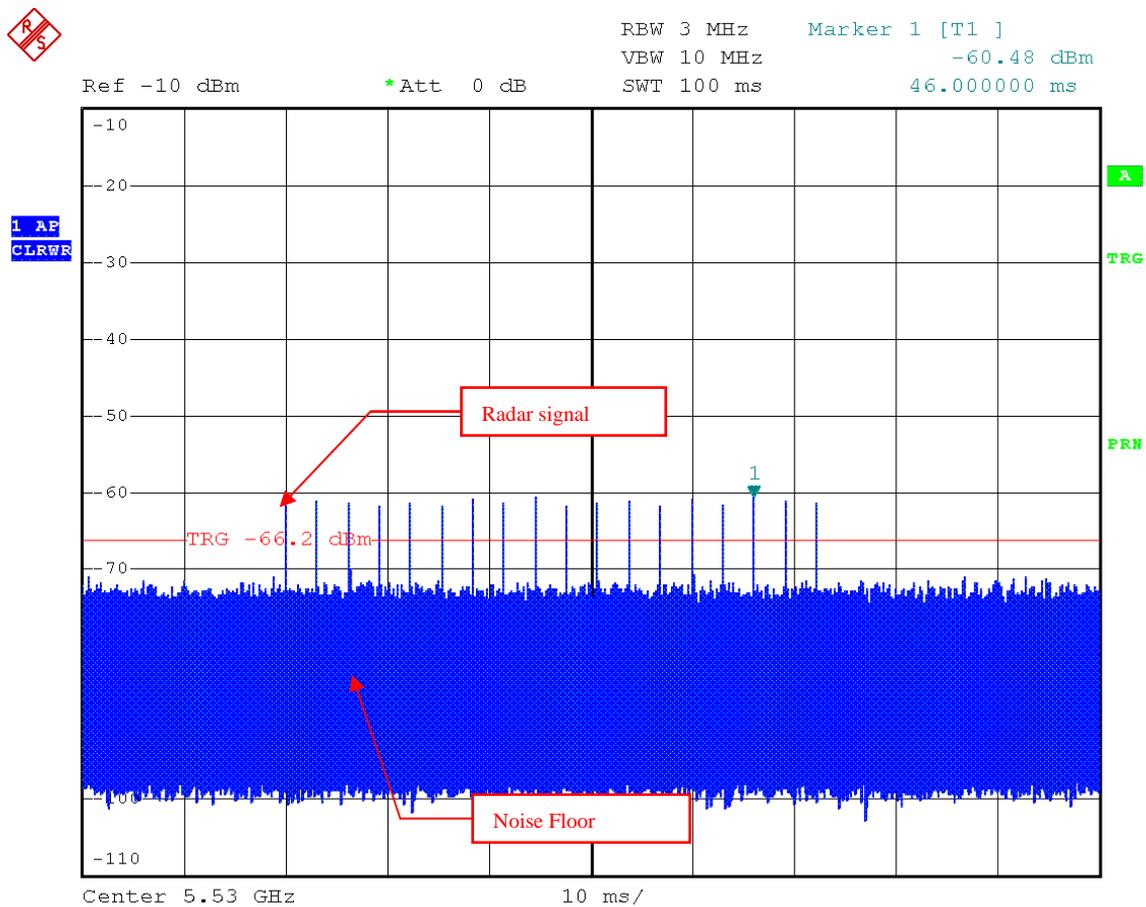
6.2 DETAILED TEST RESULTS

6.2.1. TEST MODE: DEVICE OPERATING IN MASTER MODE.

The radar test signals are injected into the Master Device.

6.2.1.1 DFS DETECTION THRESHOLD

The required detection threshold is $-60.2\text{dBm} = (-64 + 2.8 + 1)\text{ dBm}$. The conducted radar burst level is lower than -60.2dBm .



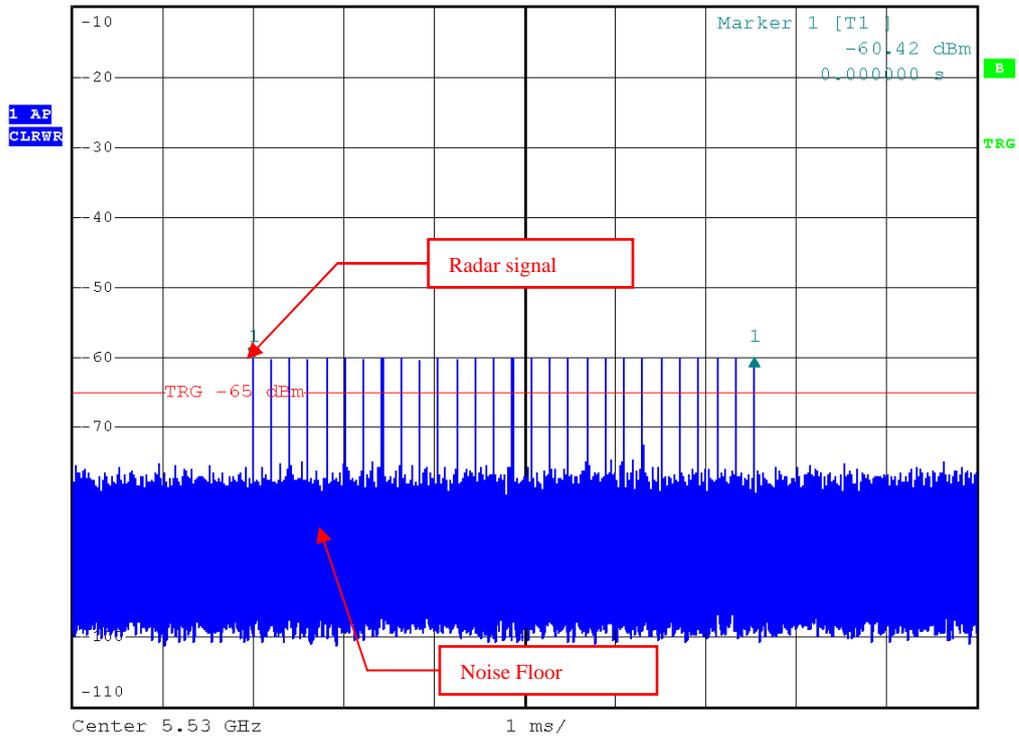
Radar Signal 1



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RBW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.31 dB
Ref -10 dBm *Att 0 dB SWT 10 ms 5.540000 ms



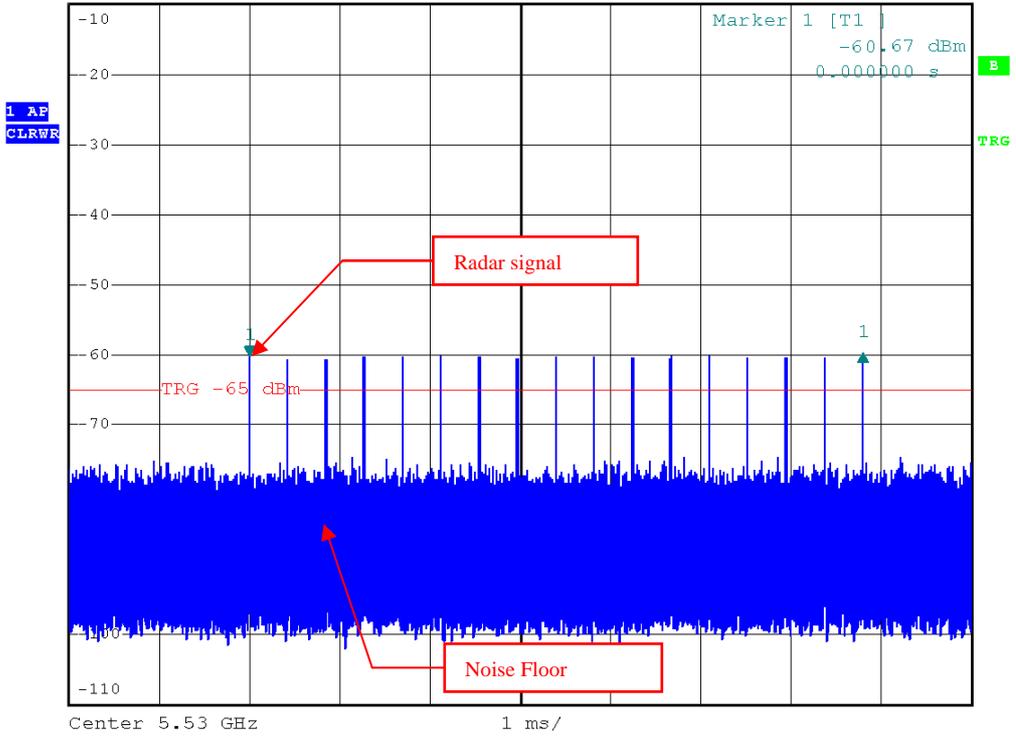
Radar Signal 2



A D T



RBW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.24 dB
SWT 10 ms 6.800000 ms
Ref -10 dBm *Att 0 dB



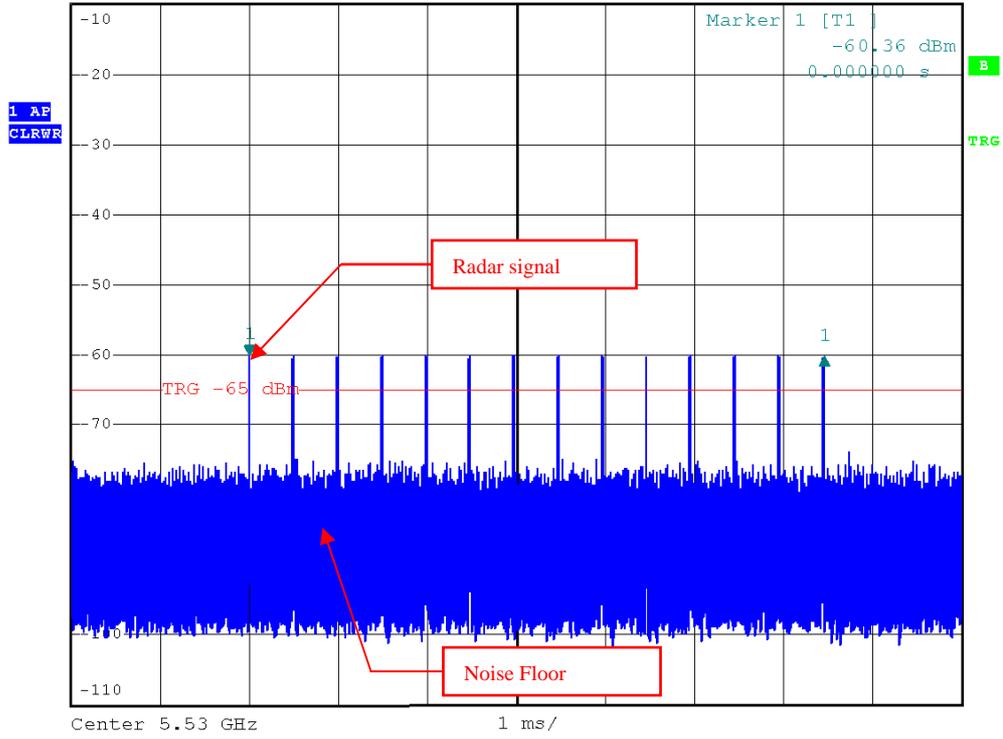
Radar Signal 3



A D T



REW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.37 dB
Ref -10 dBm *Att 0 dB SWT 10 ms 6.460000 ms



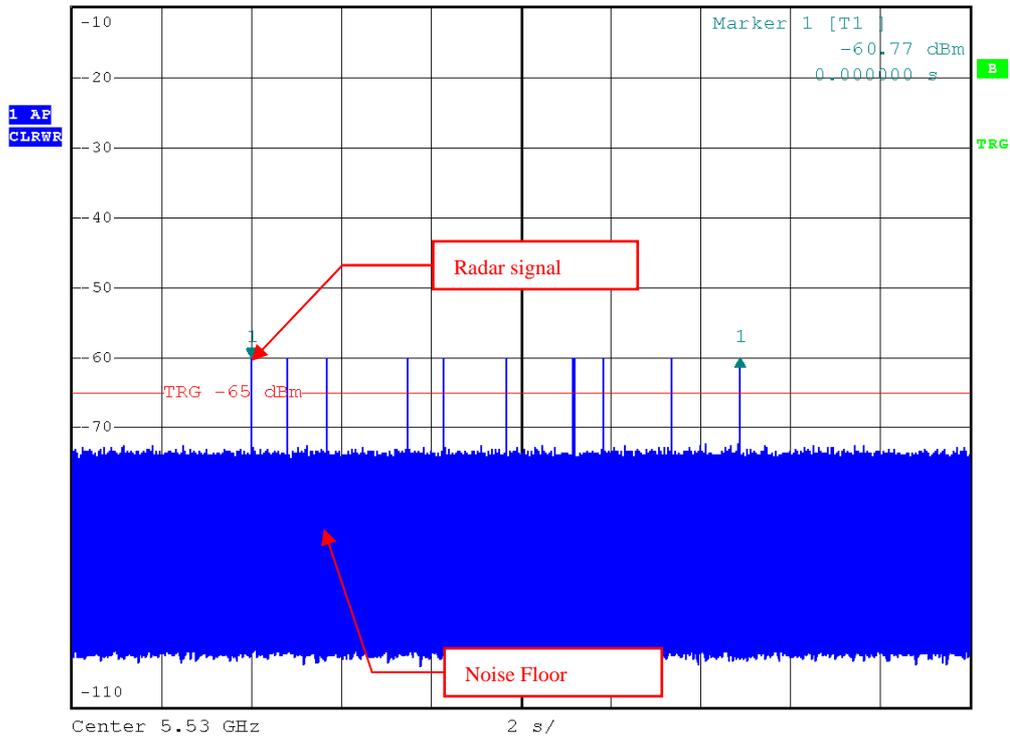
Radar Signal 4



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Ref -10 dBm *Att 0 dB REW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.15 dB
SWT 20 s 10.886460 s



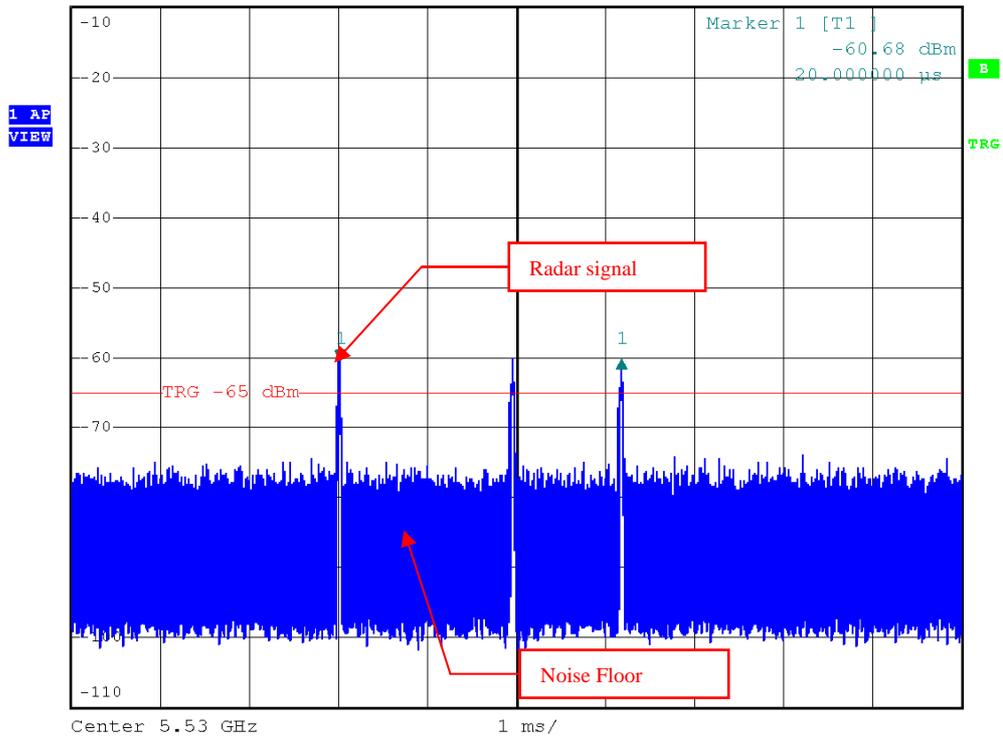
Radar Signal 5



A D T



REW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.09 dB
Ref -10 dBm *Att 0 dB SWT 10 ms 3.160000 ms



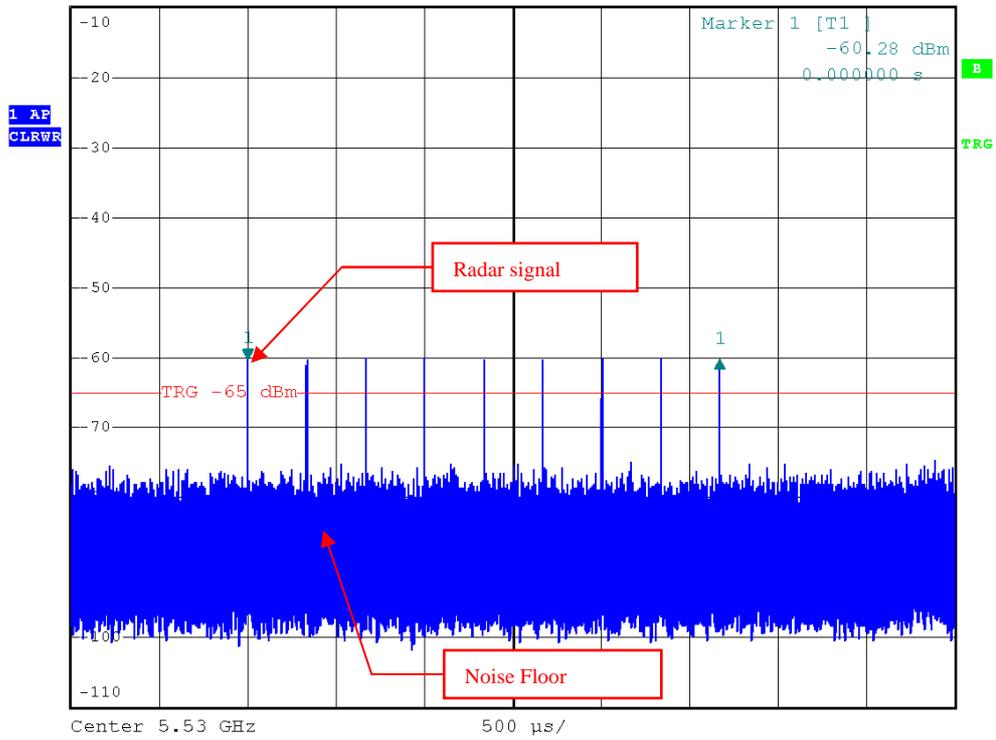
Single Burst of Radar Signal 5



A D T



REW 3 MHz Delta 1 [T1]
*VBW 10 MHz -0.27 dB
Ref -10 dBm *Att 0 dB SWT 5 ms 2.670000 ms



Radar Signal 6

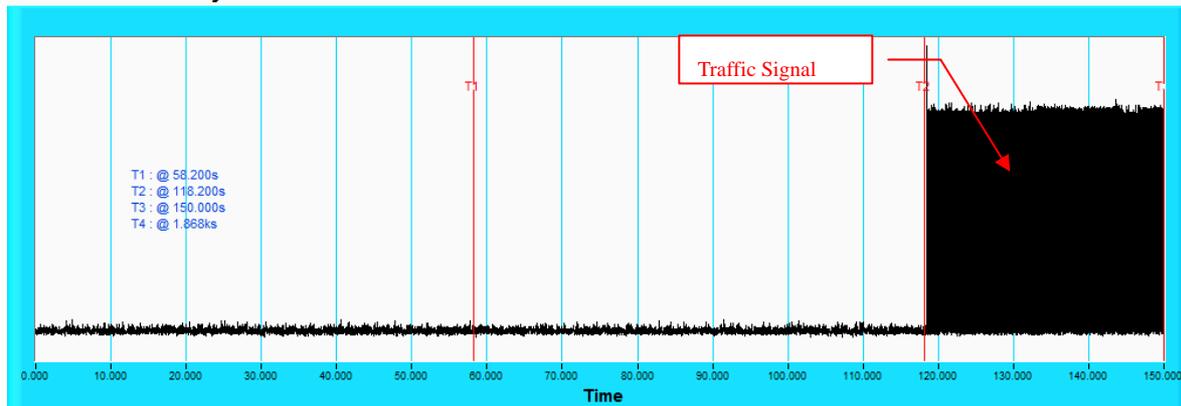
6.2.1.2 CHANNEL AVAILABILITY CHECK TIME

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

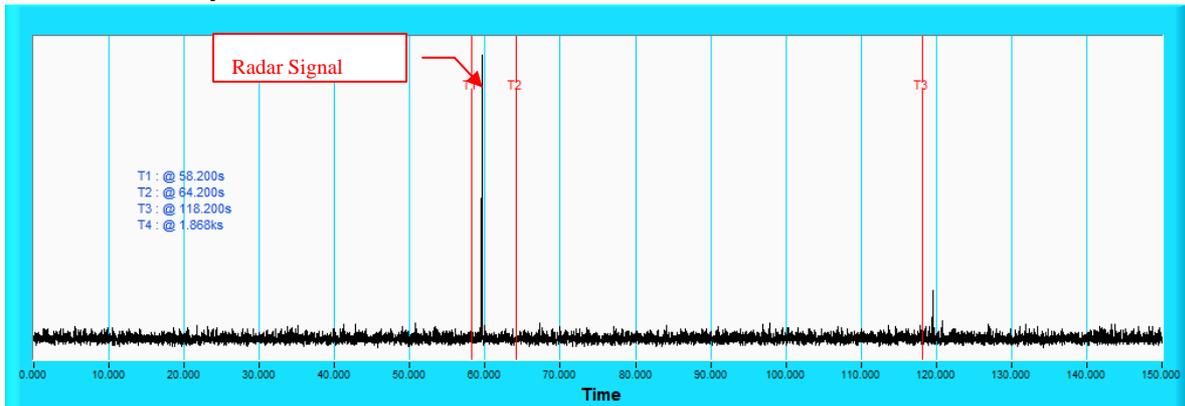
Channel Availability Check



NOTE: T1 denotes the end of power-up time period is 58.2th second. T2 denotes the end of Channel Availability Check time is 118.2th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time

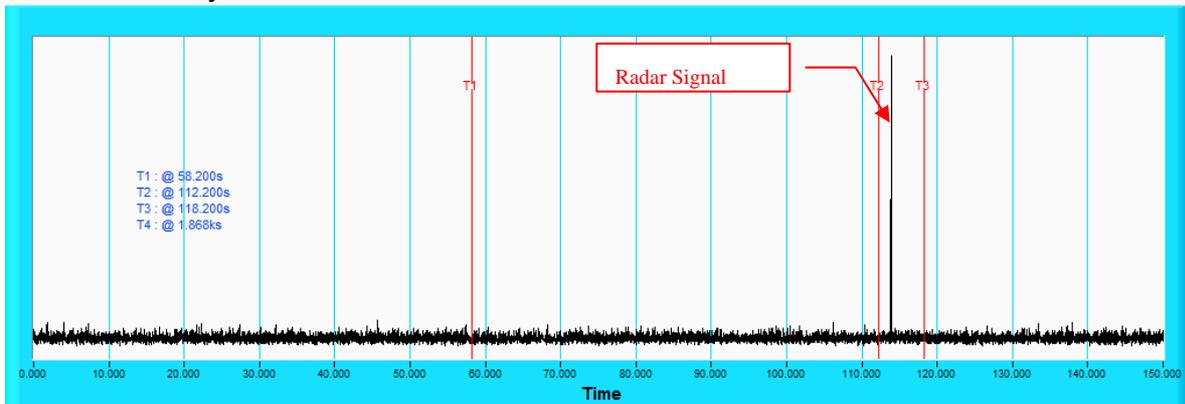
Channel Availability Check



NOTE: T1 denotes the end of power up time period is 58.2th second. T2 denotes 64.2th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T3 denotes the 118.2th second.

Radar Burst at the End of the Channel Availability Check Time

Channel Availability Check



NOTE: T1 denotes the end of power up time period is 58.2th second. T2 denotes 112.2th second and the radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T3 denotes the 118.2th second.



6.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

802.11ac (VHT20)

Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p>	$\text{Roundup} \left\{ \begin{array}{l} \frac{1}{360} \\ \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{SEC}}} \end{array} \right\}$	18	30	90
2	1-5	150-230	23-29	30	86.7
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	83.3
Aggregate (Radar Types 1-4)				120	85.8

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



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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 (VHT40)

Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>-----</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A</p>	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	18	30	86.7
2	1-5	150-230	23-29	30	83.3
3	6-10	200-500	16-18	30	86.7
4	11-20	200-500	12-16	30	80
Aggregate (Radar Types 1-4)				120	84.2

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



A D T

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)

Short Pulse Radar Test Waveforms.

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

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	80



A D T

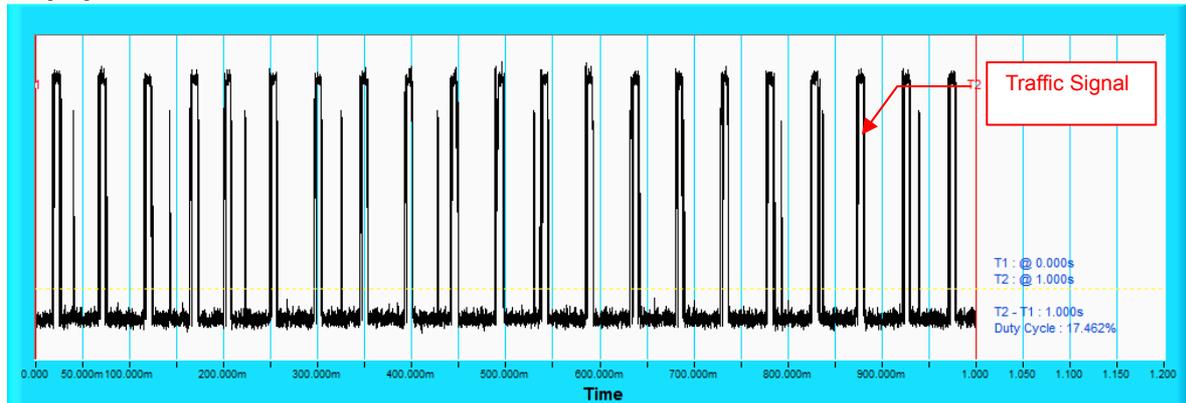
Frequency Hopping Radar Test Waveform

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

Wireless Traffic Loading

802.11ac (VHT20)

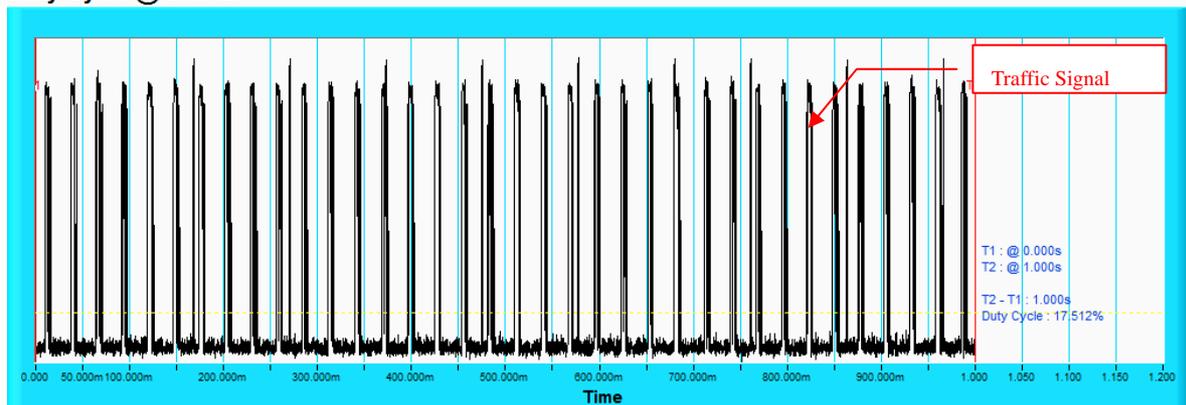
Duty Cycle



NOTE: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 – T1= 1 seconds. Duty Cycle = 17.462%

802.11ac (VHT40)

Duty Cycle @ CH102



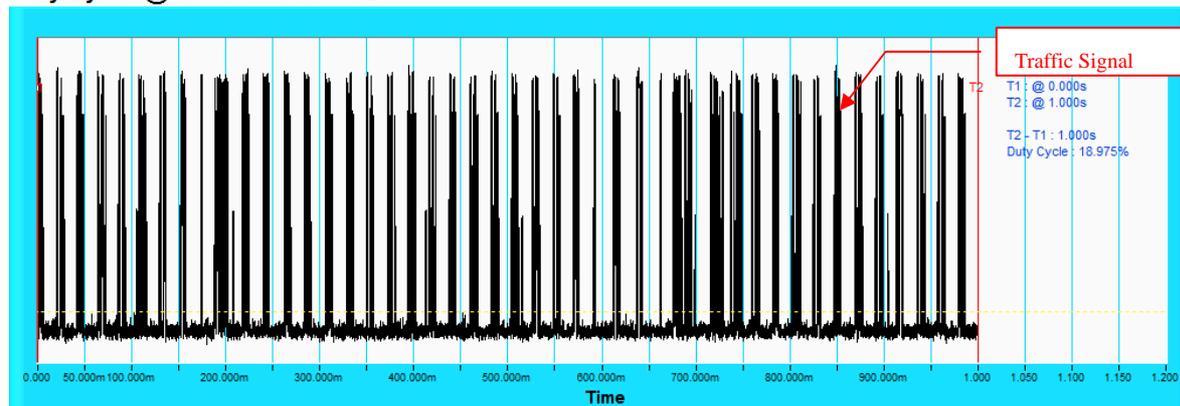
NOTE: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 – T1= 1 seconds. Duty Cycle = 17.512%



A D T

802.11ac (VHT80)

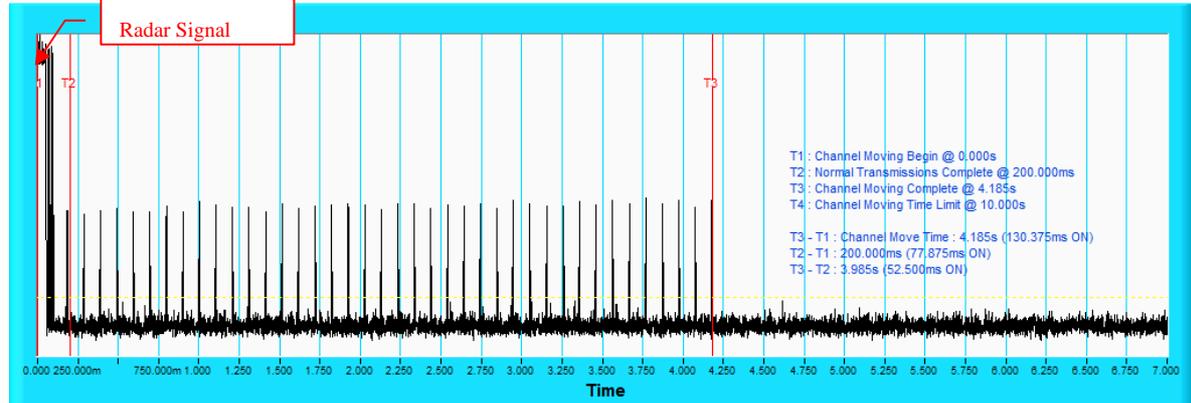
Duty Cycle @ CH106 - 5530MHz



NOTE: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 – T1= 1 seconds. Duty Cycle = 18.975%

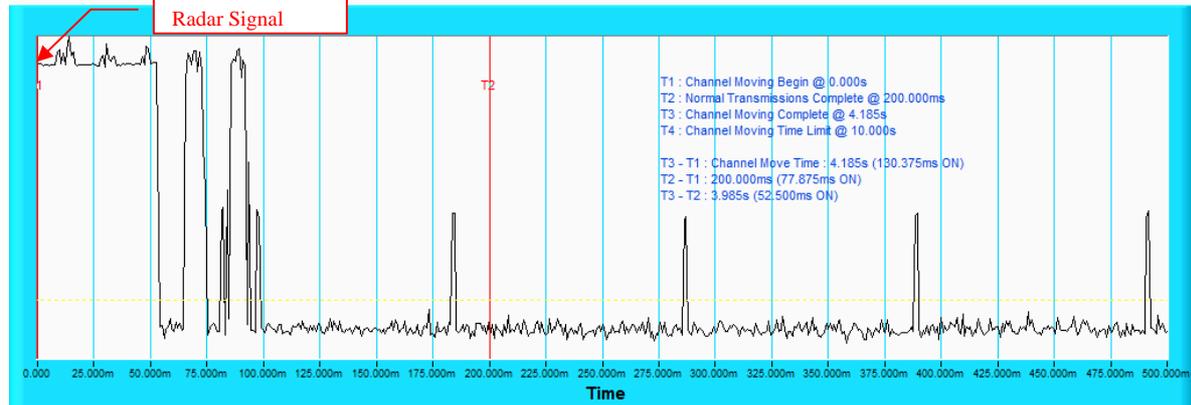
Radar signal 1

Channel Closing Transmission Time & Channel Move Time



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.

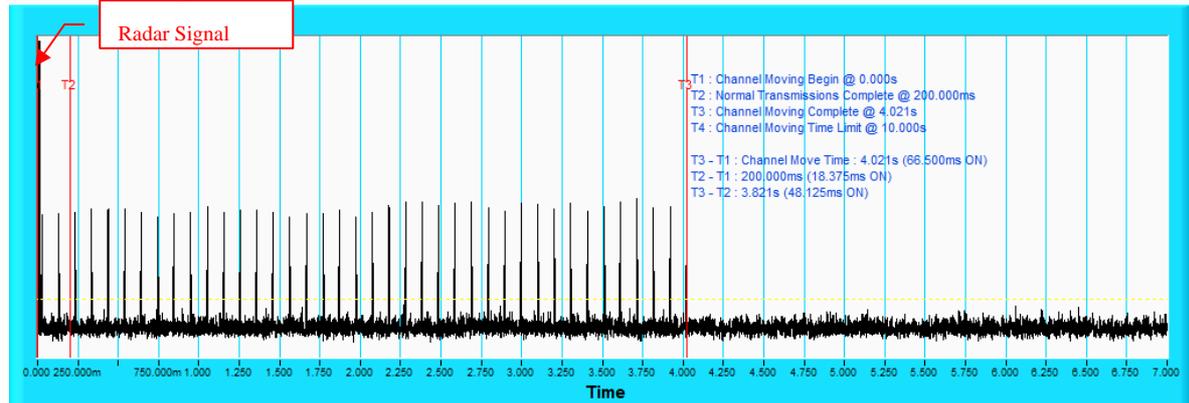
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

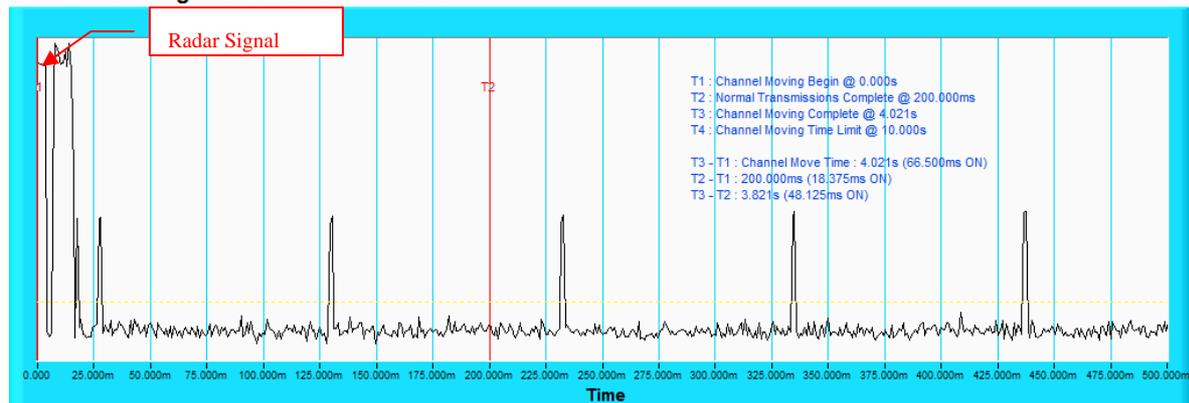
Radar signal 2

Channel Closing Transmission Time & Channel Move Time



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.

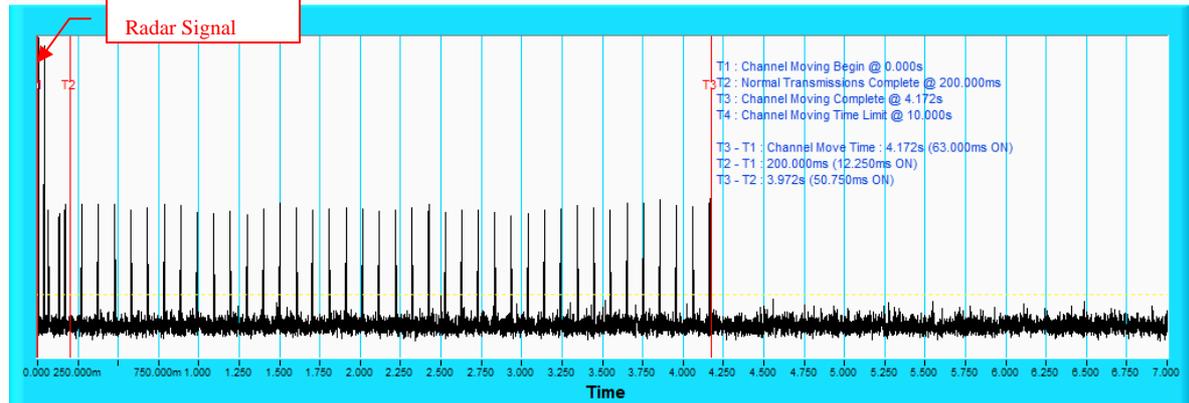
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

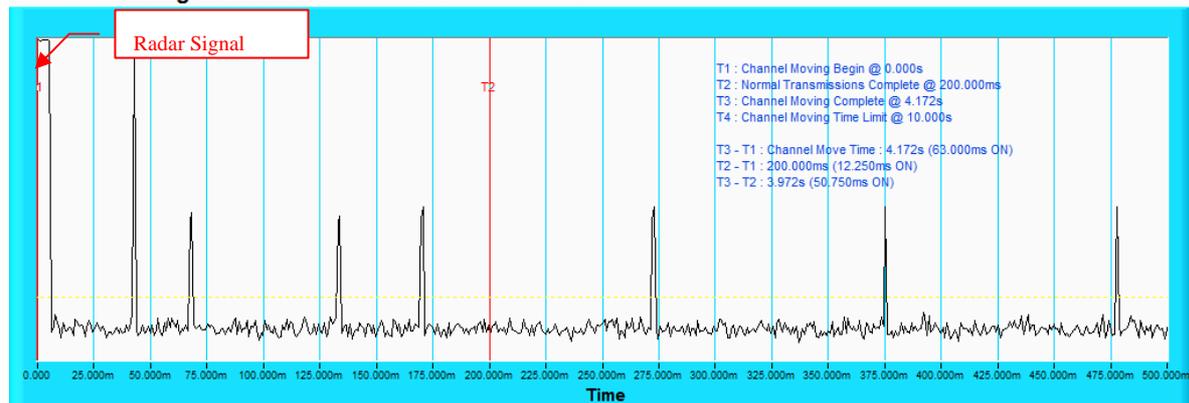
Radar signal 3

Channel Closing Transmission Time & Channel Move Time



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.

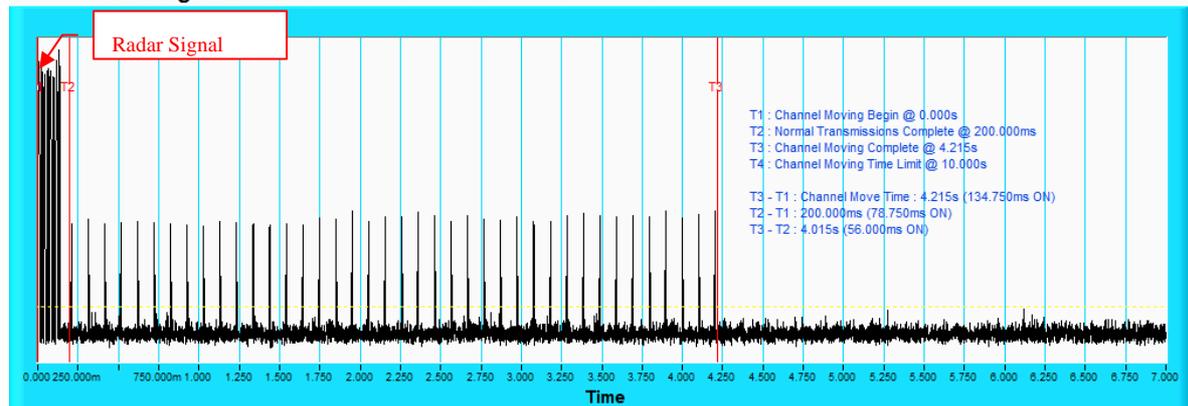
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

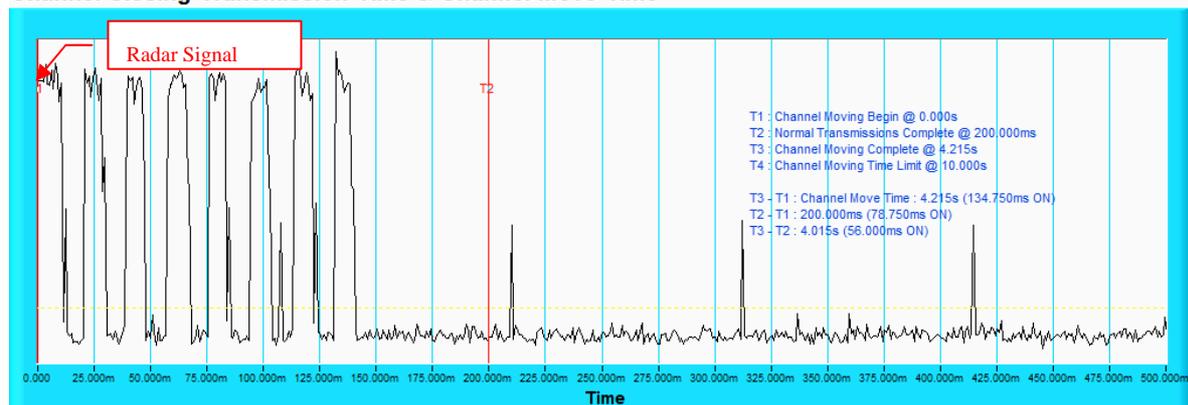
Radar signal 4

Channel Closing Transmission Time & Channel Move Time



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.

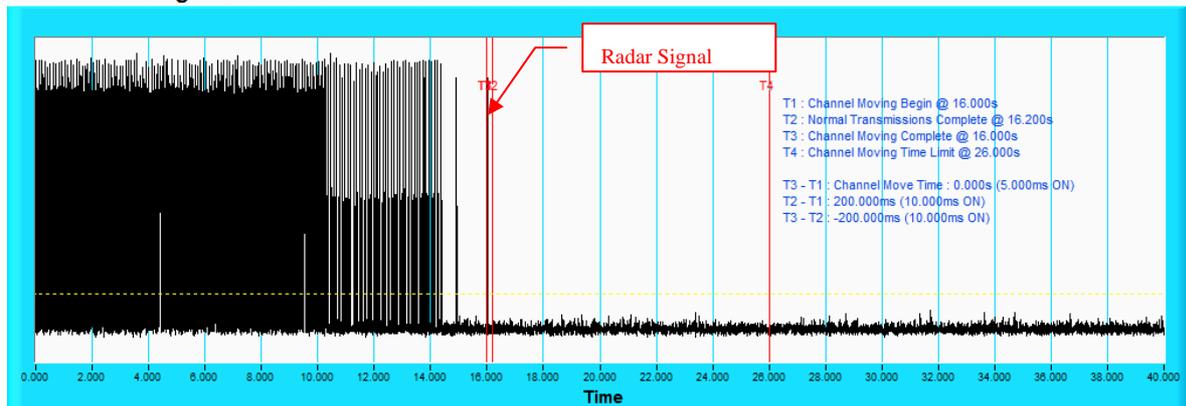
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

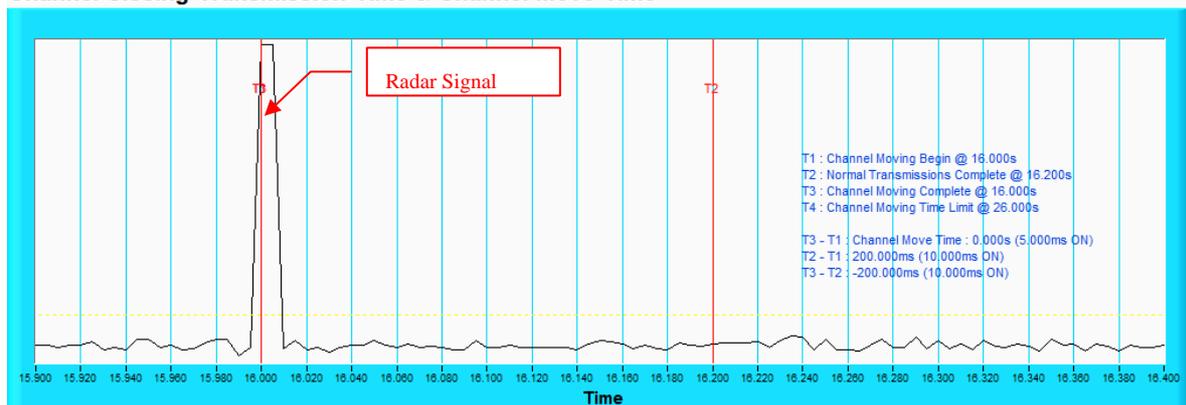
Radar signal 5

Channel Closing Transmission Time & Channel Move Time



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.

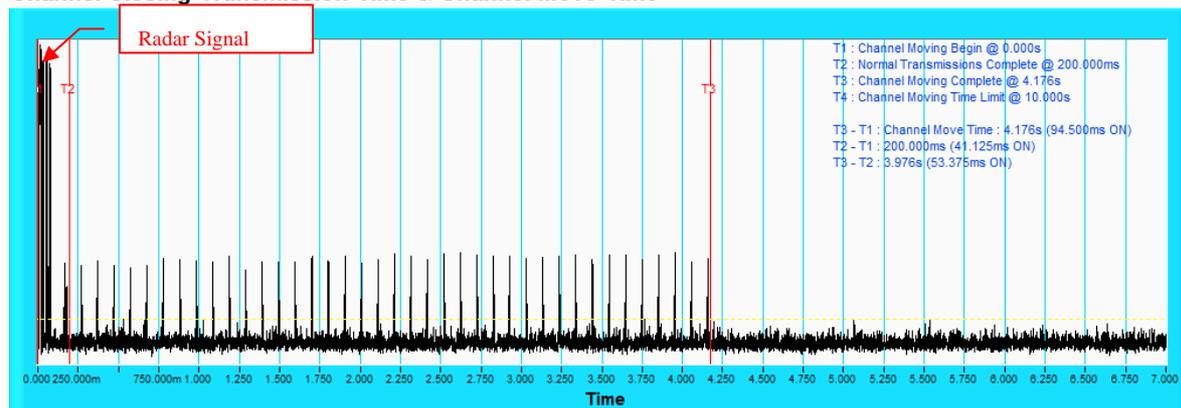
Channel Closing Transmission Time & Channel Move Time



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

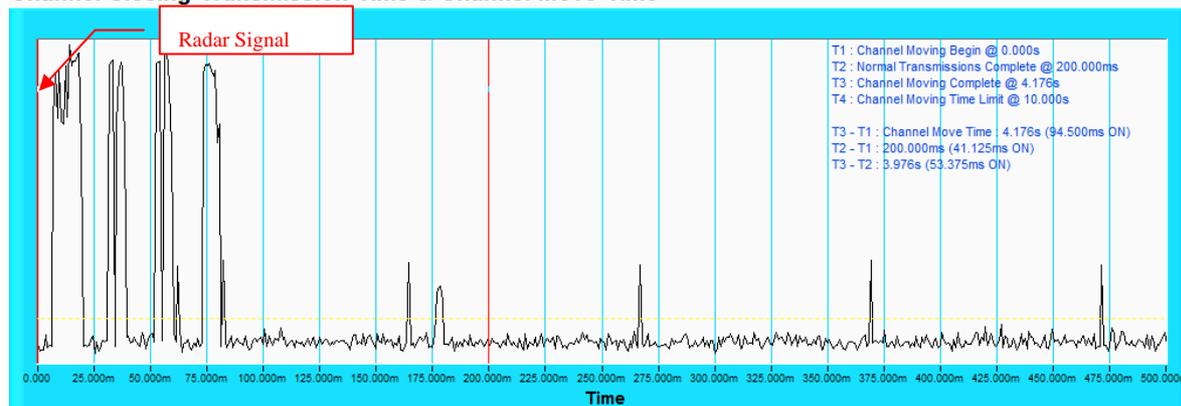
Radar signal 6

Channel Closing Transmission Time & Channel Move Time



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



NOTE: An expanded plot for the device vacates the channel in the required 500ms.



A D T

802.11ac (VHT20)

Type 1 Radar Statistical Performances

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	7	1567.4	83	638	Yes
2	8	1519.8	81	658	Yes
3	11	1392.8	74	718	Yes
4	3	1792.1	95	558	No
5	6	1618.1	86	618	Yes
6	2	1858.7	99	538	Yes
7	21	1089.3	58	918	Yes
8	20	1113.6	59	898	Yes
9	19	1139	61	878	Yes
10	17	1193.3	63	838	Yes
11	13	1319.3	70	758	Yes
12	5	1672.2	89	598	Yes
13	10	1432.7	76	698	Yes
14	15	1253.1	67	798	Yes
15	18	1165.5	62	858	Yes
16		405	22	2469	Yes
17		575.7	31	1737	No
18		373	20	2681	Yes
19		435	23	2299	Yes
20		1157.4	62	864	Yes
21		368.2	20	2716	Yes
22		1199	64	834	Yes
23		588.9	32	1698	Yes
24		521.6	28	1917	Yes
25		375.4	20	2664	No
26		1883.2	100	531	Yes
27		355.2	19	2815	Yes
28		499	27	2004	Yes
29		915.8	49	1092	Yes
30		485.9	26	2058	Yes

Detection Rate: 90 %



802.11ac (VHT20)

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	23	1.1	180	Yes
2	29	4.7	184	Yes
3	26	3.2	201	Yes
4	26	3.2	209	Yes
5	26	3.1	214	No
6	28	4.2	221	Yes
7	24	1.7	200	Yes
8	26	2.9	164	No
9	27	3.9	178	Yes
10	26	2.7	208	Yes
11	27	3.4	203	Yes
12	25	2.6	223	Yes
13	24	2	230	Yes
14	28	4	222	Yes
15	28	4.2	226	Yes
16	28	4.1	177	Yes
17	28	4	162	Yes
18	27	3.7	220	Yes
19	23	1.2	163	Yes
20	28	4	212	Yes
21	27	3.7	181	Yes
22	24	2.1	165	No
23	25	2.4	198	Yes
24	29	4.7	219	Yes
25	23	1.2	228	Yes
26	26	3.1	205	Yes
27	29	4.9	161	No
28	25	2.4	176	Yes
29	25	2.6	215	Yes
30	25	2.4	213	Yes
				Detection Rate: 86.7 %



A D T

802.11ac (VHT20)

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	16	6.1	356	Yes
2	18	9.7	258	No
3	17	8.2	324	No
4	17	8.2	308	Yes
5	17	8.1	257	Yes
6	18	9.2	277	Yes
7	16	6.7	269	Yes
8	17	7.9	425	Yes
9	18	8.9	373	Yes
10	17	7.7	434	Yes
11	17	8.4	379	Yes
12	17	7.6	276	Yes
13	16	7	322	No
14	18	9	321	Yes
15	18	9.2	420	Yes
16	18	9.1	235	Yes
17	18	9	301	Yes
18	18	8.7	279	Yes
19	16	6.2	412	Yes
20	18	9	415	Yes
21	18	8.7	474	Yes
22	16	7.1	414	Yes
23	17	7.4	254	No
24	18	9.7	230	Yes
25	16	6.2	365	Yes
26	17	8.1	384	No
27	18	9.9	399	Yes
28	17	7.4	383	Yes
29	17	7.6	296	Yes
30	17	7.4	374	Yes
				Detection Rate: 83.3 %



A D T

802.11ac (VHT20)

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	12	11.3	356	Yes
2	16	19.4	258	No
3	14	16	324	Yes
4	14	15.9	308	Yes
5	14	15.7	257	Yes
6	15	18.2	277	No
7	12	12.6	269	Yes
8	14	15.2	425	Yes
9	15	17.4	373	Yes
10	14	14.9	434	No
11	15	16.5	379	Yes
12	13	14.6	276	Yes
13	13	13.3	322	Ye
14	15	17.8	321	Yes
15	15	18.1	420	Yes
16	15	18	235	Yes
17	15	17.8	301	Yes
18	15	17.1	279	Yes
19	12	11.5	412	Yes
20	15	17.6	415	Yes
21	15	17.1	474	No
22	13	13.5	414	No
23	13	14.2	254	Yes
24	16	19.4	230	Yes
25	12	11.6	365	Yes
26	14	15.8	384	Yes
27	16	19.8	399	Yes
28	13	14.2	383	Yes
29	14	14.7	296	Yes
30	13	14.2	374	Yes
				Detection Rate: 83.3 %



A D T

802.11ac (VHT20)

Type 5 Radar Statistical Performances

Trial #	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	5492	LP_Signal_01	Yes
2	5493	LP_Signal_02	Yes
3	5494	LP_Signal_03	No
4	5495	LP_Signal_04	Yes
5	5496	LP_Signal_05	Yes
6	5497	LP_Signal_06	Yes
7	5498	LP_Signal_07	No
8	5499	LP_Signal_08	Yes
9	5500	LP_Signal_09	Yes
10	5501	LP_Signal_10	Yes
11	5502	LP_Signal_11	Yes
12	5503	LP_Signal_12	Yes
13	5504	LP_Signal_13	Yes
14	5505	LP_Signal_14	Yes
15	5506	LP_Signal_15	Yes
16	5507	LP_Signal_16	Yes
17	5506	LP_Signal_17	No
18	5505	LP_Signal_18	Yes
19	5504	LP_Signal_19	Yes
20	5503	LP_Signal_20	Yes
21	5502	LP_Signal_21	Yes
22	5501	LP_Signal_22	No
23	5500	LP_Signal_23	No
24	5498	LP_Signal_24	Yes
25	5497	LP_Signal_25	Yes
26	5496	LP_Signal_26	Yes
27	5495	LP_Signal_27	Yes
28	5494	LP_Signal_28	Yes
29	5493	LP_Signal_29	Yes
30	5492	LP_Signal_30	Yes

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

802.11ac (VHT20)

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	No
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	No
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	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	No
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: 86.7 %



A D T

802.11ac (VHT20)

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	No
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	No
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	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	No
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: 86.7 %		

The Frequency Hopping Radar pattern shown in Annex B.2



A D T

802.11ac (VHT40)

Type 1 Radar Statistical Performances

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	12	1355	72	738	Yes
2	5	1672	89	598	No
3	18	1166	62	858	Yes
4	14	1285	68	778	Yes
5	2	1859	99	538	Yes
6	10	1433	76	698	Yes
7	23	326.2	18	3066	No
8	8	1520	81	658	Yes
9	19	1139	61	878	Yes
10	20	1114	59	898	Yes
11	17	1193	63	838	Yes
12	4	1730	92	578	Yes
13	6	1618	86	618	Yes
14	1	1931	102	518	Yes
15	21	1089	58	918	Yes
16		803.2	43	1245	Yes
17		350.4	19	2854	Yes
18		435.5	23	2296	Yes
19		1212	64	825	Yes
20		1531	81	653	Yes
21		525.5	28	1903	Yes
22		399.8	22	2501	Yes
23		389.9	21	2565	Yes
24		488.5	26	2047	Yes
25		1255	67	797	No
26		566.3	30	1766	Yes
27		399.7	22	2502	Yes
28		1407	75	711	Yes
29		1171	62	854	Yes
30		423.7	23	2360	No

Detection Rate: 86.7 %



802.11ac (VHT40)

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	26	3.1	159	Yes
2	27	3.5	218	Yes
3	28	4.5	175	Yes
4	25	2.3	155	Yes
5	23	1.3	226	No
6	29	4.7	179	Yes
7	28	3.9	216	Yes
8	29	4.9	182	Yes
9	27	3.4	198	Yes
10	23	1.2	172	Yes
11	29	4.5	180	Yes
12	27	3.5	189	Yes
13	26	3.3	161	No
14	24	1.9	168	No
15	23	1.3	222	Yes
16	24	1.6	202	Yes
17	25	2.3	227	Yes
18	23	1.2	157	Yes
19	23	1.1	190	Yes
20	25	2.4	166	Yes
21	26	3.2	150	Yes
22	23	1.1	203	No
23	24	1.7	225	Yes
24	27	3.3	173	Yes
25	29	4.9	167	Yes
26	29	4.6	210	Yes
27	23	1.4	207	Yes
28	28	4	171	Yes
29	23	1.5	153	No
30	26	3.2	204	Yes

Detection Rate: 83.3 %



A D T

802.11ac (VHT40)

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	17	8.1	338	Yes
2	17	8.5	401	Yes
3	18	9.5	376	Yes
4	16	7.3	437	No
5	16	6.3	330	Yes
6	18	9.7	483	Yes
7	18	8.9	489	Yes
8	18	9.9	403	No
9	17	8.4	450	Yes
10	16	6.2	366	Yes
11	18	9.5	313	Yes
12	17	8.5	497	Yes
13	17	8.3	373	Yes
14	16	6.9	277	Yes
15	16	6.3	308	Yes
16	16	6.6	486	No
17	16	7.3	246	Yes
18	16	6.2	459	Yes
19	16	6.1	255	Yes
20	17	7.4	257	Yes
21	17	8.2	444	Yes
22	16	6.1	364	Yes
23	16	6.7	500	Yes
24	17	8.3	478	Yes
25	18	9.9	455	Yes
26	18	9.6	242	Yes
27	16	6.4	245	No
28	18	9	221	Yes
29	16	6.5	205	Yes
30	17	8.2	297	Yes
				Detection Rate: 86.7 %



A D T

802.11ac (VHT40)

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	14	15.7	338	Yes
2	15	16.7	401	Yes
3	16	18.7	376	Yes
4	13	14	437	No
5	12	11.6	330	No
6	16	19.3	483	No
7	15	17.6	489	Yes
8	16	19.7	403	Yes
9	14	16.3	450	Yes
10	12	11.6	366	Yes
11	16	18.9	313	Yes
12	15	16.6	497	Yes
13	14	16.1	373	Yes
14	13	13.1	277	Yes
15	12	11.7	308	Yes
16	12	12.3	486	No
17	13	13.9	246	Yes
18	12	11.5	459	Yes
19	12	11.2	255	Yes
20	13	14.1	257	Yes
21	14	15.9	444	No
22	12	11.3	364	Yes
23	12	12.7	500	Yes
24	14	16.2	478	Yes
25	16	19.8	455	No
26	16	19	242	Yes
27	12	12	245	Yes
28	15	17.7	221	Yes
29	12	12.2	205	Yes
30	14	16	297	Yes
Detection Rate: 80.0 %				



A D T

802.11ac (VHT40)

Type 5 Radar Statistical Performances

Trial #	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	5496	LP_Signal_01	Yes
2	5498	LP_Signal_02	No
3	5500	LP_Signal_03	Yes
4	5502	LP_Signal_04	Yes
5	5504	LP_Signal_05	Yes
6	5506	LP_Signal_06	Yes
7	5508	LP_Signal_07	No
8	5510	LP_Signal_08	Yes
9	5512	LP_Signal_09	Yes
10	5514	LP_Signal_10	Yes
11	5516	LP_Signal_11	Yes
12	5518	LP_Signal_12	Yes
13	5520	LP_Signal_13	Yes
14	5522	LP_Signal_14	Yes
15	5524	LP_Signal_15	No
16	5525	LP_Signal_16	Yes
17	5522	LP_Signal_17	No
18	5520	LP_Signal_18	Yes
19	5518	LP_Signal_19	No
20	5516	LP_Signal_20	Yes
21	5514	LP_Signal_21	Yes
22	5512	LP_Signal_22	Yes
23	5510	LP_Signal_23	Yes
24	5508	LP_Signal_24	Yes
25	5506	LP_Signal_25	Yes
26	5504	LP_Signal_26	Yes
27	5502	LP_Signal_27	Yes
28	5500	LP_Signal_28	Yes
29	5498	LP_Signal_29	Yes
30	5496	LP_Signal_30	Yes

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

802.11ac (VHT40)

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	Yes
8	9	1	333.3	Yes
9	9	1	333.3	No
10	9	1	333.3	No
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	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	No
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 %



A D T

802.11ac (VHT40)

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	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	No
10	HOP_FREQ_SEQ_10	No
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	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	No
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 Annex B.2



A D T

802.11ac (VHT80)

Type 1 Radar Statistical Performances

Trial #	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	17	1193	63	838	Yes
2	2	1859	99	538	No
3	23	326.2	18	3066	Yes
4	12	1355	72	738	Yes
5	13	1319	70	758	No
6	18	1166	62	858	Yes
7	19	1139	61	878	Yes
8	9	1475	78	678	Yes
9	7	1567	83	638	Yes
10	21	1089	58	918	Yes
11	5	1672	89	598	Yes
12	1	1931	102	518	Yes
13	20	1114	59	898	No
14	22	1066	57	938	Yes
15	10	1433	76	698	Yes
16		389.1	21	2570	Yes
17		703.2	38	1422	Yes
18		428.6	23	2333	No
19		526.3	28	1900	Yes
20		389.3	21	2569	Yes
21		661.4	35	1512	Yes
22		490	26	2041	Yes
23		766.3	41	1305	Yes
24		459.3	25	2177	Yes
25		946.1	50	1057	Yes
26		1144	61	874	Yes
27		456.8	25	2189	Yes
28		508.4	27	1967	No
29		364.6	20	2743	Yes
30		446.4	24	2240	Yes

Detection Rate: 83.3 %



A D T

802.11ac (VHT80)

Type 2 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	29	5	219	Yes
2	25	2.3	171	Yes
3	24	1.6	166	Yes
4	23	1.4	182	Yes
5	27	3.5	221	Yes
6	23	1.1	154	Yes
7	24	2.1	168	Yes
8	26	2.8	224	No
9	26	2.8	186	No
10	27	3.8	197	Yes
11	23	1.5	229	Yes
12	28	4.4	218	Yes
13	29	4.6	212	Yes
14	27	3.9	164	Yes
15	25	2.5	160	Yes
16	26	3.1	223	Yes
17	29	4.7	176	No
18	26	2.7	161	No
19	23	1	156	Yes
20	29	4.9	179	Yes
21	25	2.6	151	Yes
22	28	4.2	194	Yes
23	23	1	152	Yes
24	24	1.9	177	Yes
25	29	4.5	215	Yes
26	24	2	204	Yes
27	24	2	209	Yes
28	23	1.5	175	Yes
29	29	4.5	208	Yes
30	28	4	163	Yes

Detection Rate: 86.7 %



A D T

802.11ac (VHT80)

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	18	10	320	Yes
2	17	7.3	242	No
3	16	6.6	427	Yes
4	16	6.4	264	Yes
5	17	8.5	404	Yes
6	16	6.1	386	Yes
7	16	7.1	406	No
8	17	7.8	380	Yes
9	17	7.8	225	Yes
10	18	8.8	299	Yes
11	16	6.5	246	Yes
12	18	9.4	416	Yes
13	18	9.6	321	Yes
14	18	8.9	233	Yes
15	17	7.5	296	Yes
16	17	8.1	251	Yes
17	18	9.7	258	Yes
18	17	7.7	316	No
19	16	6	231	Yes
20	18	9.9	265	Yes
21	17	7.6	401	Yes
22	18	9.2	415	Yes
23	16	6	314	Yes
24	16	6.9	446	Yes
25	18	9.5	423	Yes
26	16	7	403	Yes
27	16	7	392	No
28	16	6.5	362	No
29	18	9.5	436	Yes
30	18	9	353	Yes
				Detection Rate: 83.3 %



A D T

802.11ac (VHT80)

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	16	20	320	Yes
2	13	14	242	Yes
3	12	12.4	427	No
4	12	12	264	No
5	15	16.6	404	Yes
6	12	11.4	386	Yes
7	13	13.5	406	Yes
8	14	15.2	380	Yes
9	14	15.2	225	Yes
10	15	17.3	299	Yes
11	12	12.2	246	Yes
12	16	18.6	416	No
13	16	19	321	No
14	15	17.4	233	Yes
15	13	14.4	296	Yes
16	14	15.7	251	Yes
17	16	19.2	258	Yes
18	14	14.9	316	Yes
19	12	11	231	No
20	16	19.7	265	No
21	14	14.7	401	Yes
22	15	18.2	415	Yes
23	12	11.1	314	Yes
24	13	13	446	Yes
25	16	18.9	423	Yes
26	13	13.2	403	Yes
27	13	13.2	392	Yes
28	12	12.1	362	Yes
29	16	18.8	436	Yes
30	15	17.7	353	Yes
				Detection Rate: 80 %



A D T

802.11ac (VHT80)

Type 5 Radar Statistical Performances

Trial #	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	5498	LP_Signal_01	Yes
2	5500	LP_Signal_02	Yes
3	5504	LP_Signal_03	No
4	5508	LP_Signal_04	Yes
5	5510	LP_Signal_05	Yes
6	5512	LP_Signal_06	Yes
7	5520	LP_Signal_07	Yes
8	5523	LP_Signal_08	No
9	5526	LP_Signal_09	No
10	5527	LP_Signal_10	Yes
11	5528	LP_Signal_11	Yes
12	5529	LP_Signal_12	Yes
13	5530	LP_Signal_13	Yes
14	5531	LP_Signal_14	Yes
15	5532	LP_Signal_15	Yes
16	5534	LP_Signal_16	Yes
17	5538	LP_Signal_17	Yes
18	5540	LP_Signal_18	Yes
19	5542	LP_Signal_19	No
20	5550	LP_Signal_20	Yes
21	5554	LP_Signal_21	Yes
22	5555	LP_Signal_22	No
23	5556	LP_Signal_23	Yes
24	5558	LP_Signal_24	Yes
25	5560	LP_Signal_25	No
26	5561	LP_Signal_26	Yes
27	5562	LP_Signal_27	Yes
28	5530	LP_Signal_28	Yes
29	5500	LP_Signal_29	Yes
30	5502	LP_Signal_30	Yes

Detection Rate: 80 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

802.11ac (VHT80)

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	No
3	9	1	333.3	Yes
4	9	1	333.3	No
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	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	No
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: 86.7 %



A D T

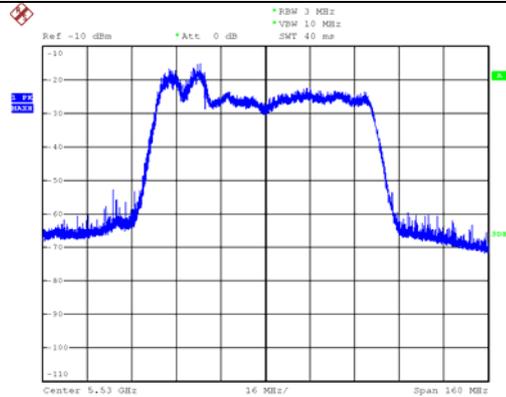
802.11ac (VHT80)

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	No
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	No
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	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	No
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: 86.7 %		

The Frequency Hopping Radar pattern shown in Annex B.2

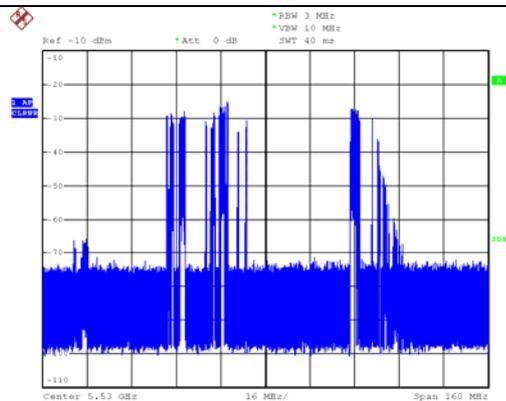
6.2.1.4 NON- OCCUPANCY PERIOD

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



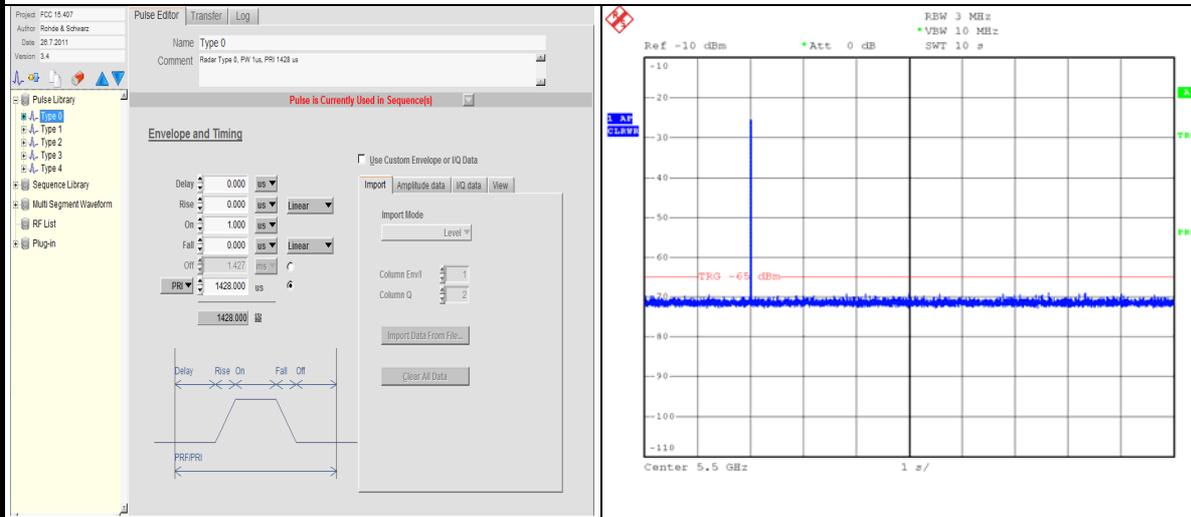
EUT (master) links with Client on 5530MHz

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.



Client performed with channel-loading via master.

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

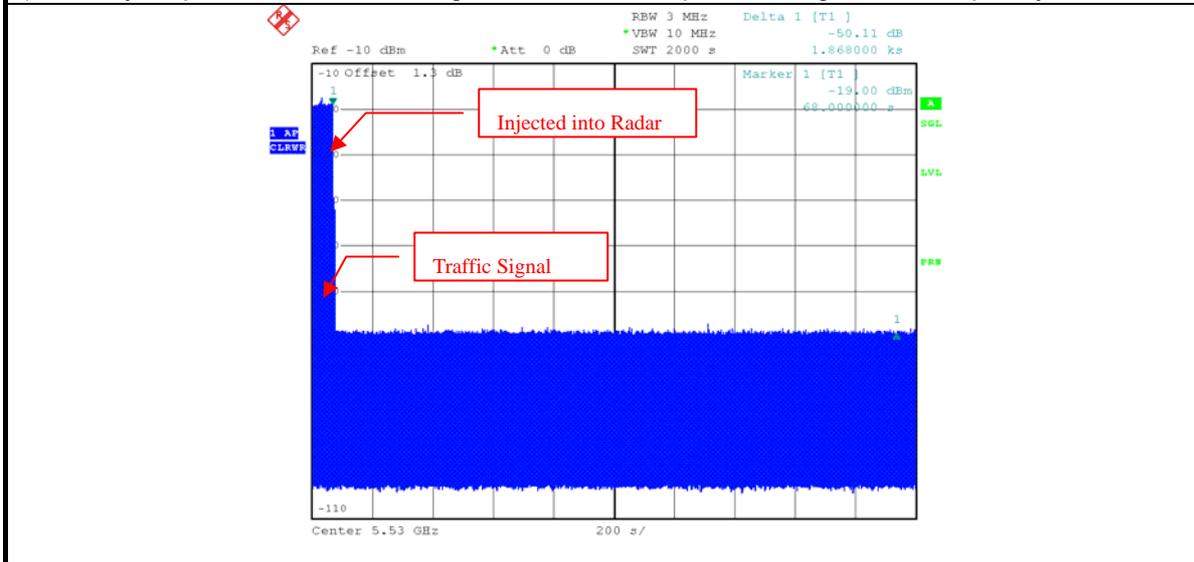


Radar 0 is used to test during DFS testing.

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.





802.11ac (VHT20)

Detection Bandwidth Test											
EUT Frequency: 5.500GHz											
EUT 99% Power bandwidth: 17.64MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 17.64MHz											
Detection Bandwidth (FH - FL): 18.00MHz											
Test Result : PASS											
Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	No	No	No	No	No	No	No	No	No	No	0
5.491G(FL)	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	90
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
5.510G	No	No	No	No	No	No	No	No	No	No	0



A D T

802.11ac (VHT40)

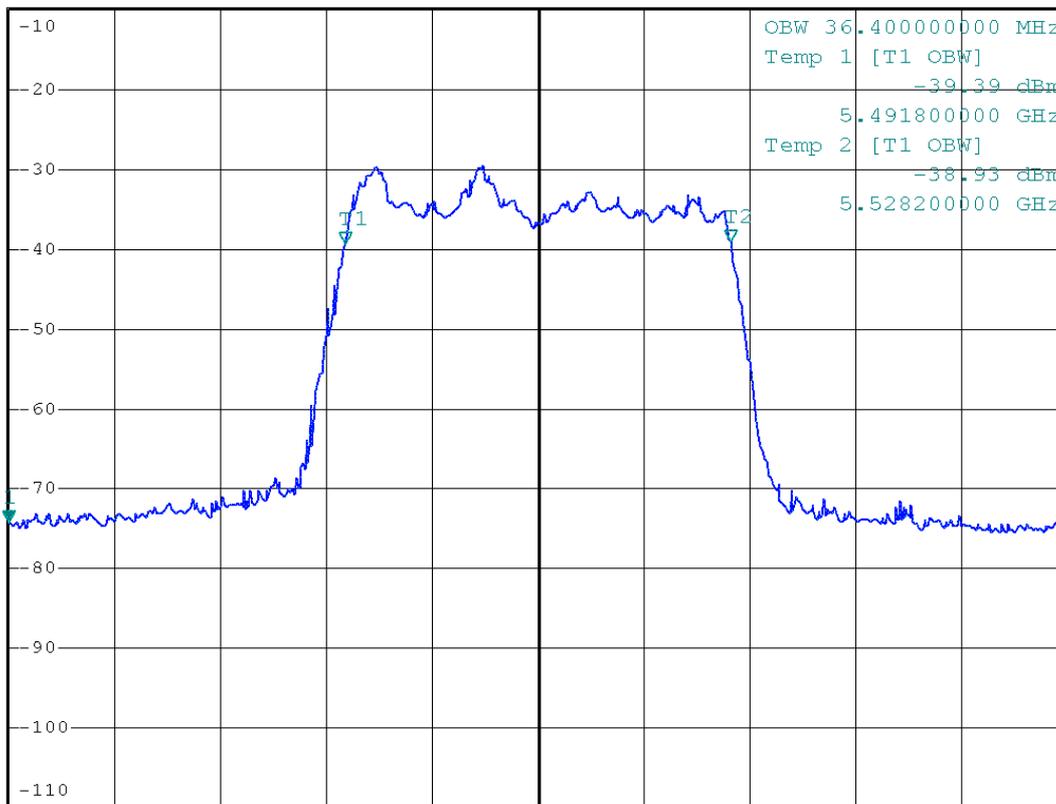


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -74.12 dBm
SWT 20 ms 5.460000000 GHz

Ref -10 dBm

*Att 0 dB

1 PK
MAXH



Center 5.51 GHz

10 MHz/

Span 100 MHz

U-NII 99% Channel bandwidth



A D T

802.11ac (VHT40)

Detection Bandwidth Test
 EUT Frequency: 5.510GHz
 EUT 99% Power bandwidth: 36.4MHz
 Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.4MHz
 Detection Bandwidth (FH - FL): 38MHz
 Test Result : PASS

Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	No	No	No	No	No	No	No	No	No	No	0
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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.511G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.512G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.513G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.514G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.515G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.516G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.517G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.518G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.519G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.520G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.521G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.522G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.523G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.524G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.525G	No	Yes	90								
5.526G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.527G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.528G	Yes	Yes	No	Yes	90						
5.529G(FH)	No	Yes	90								
5.530G	No	No	No	No	No	No	No	No	No	No	0

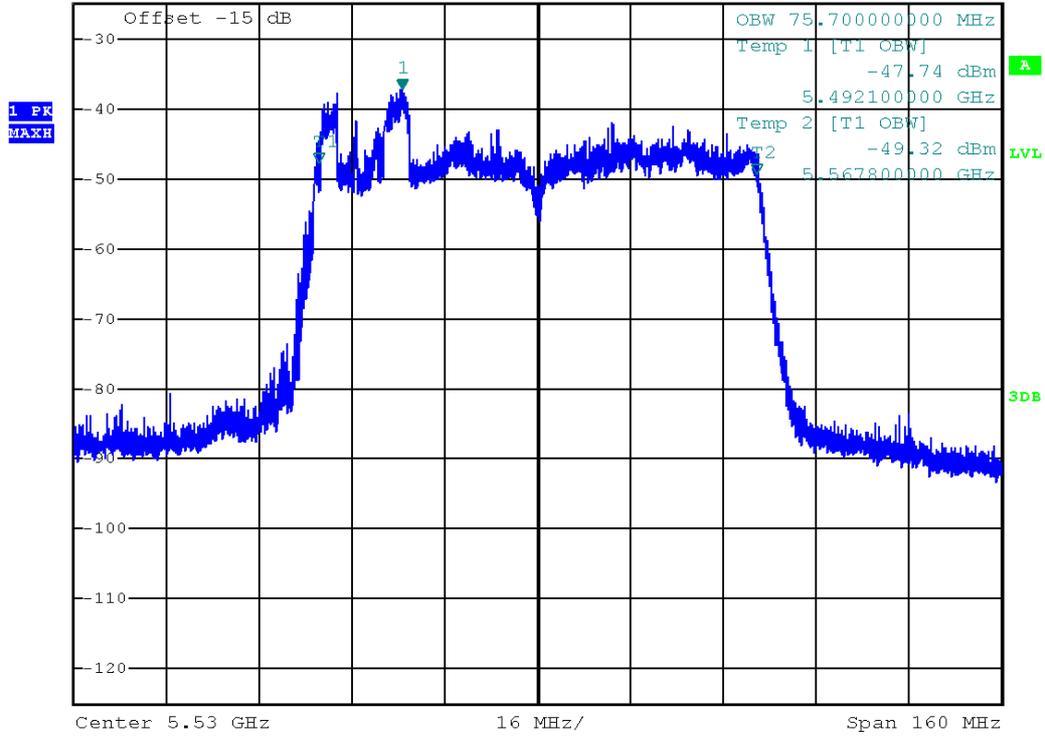


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802.11ac VHT80



Ref -25 dBm *Att 0 dB *RBW 1 MHz Marker 1 [T1] -37.27 dBm
*VBW 10 MHz 5.506540000 GHz
SWT 40 ms



U-NII 99% Channel bandwidth



A D T

802.11ac VHT80

Detection Bandwidth Test											
EUT Frequency: 5.530GHz											
EUT 99% Power bandwidth: 75.7MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 75.7MHz											
Detection Bandwidth (FH - FL): 76MHz											
Test Result : PASS											
Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	No	No	No	No	No	No	No	No	No	No	0
5.491G	No	No	No	No	No	No	No	No	No	No	0
5.492G	Yes	No	No	Yes	80						
5.493G (FL)	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.511G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.512G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.513G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.514G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.515G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.516G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.517G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.518G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.519G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.520G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.521G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.522G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.523G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.524G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.525G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.526G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.527G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.528G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.529G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.530G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.531G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100



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5.532G	Yes	100									
5.533G	Yes	100									
5.534G	Yes	100									
5.535G	Yes	100									
5.536G	Yes	100									
5.537G	Yes	100									
5.538G	Yes	100									
5.539G	Yes	100									
5.540G	Yes	100									
5.541G	Yes	100									
5.542G	Yes	100									
5.543G	Yes	100									
5.544G	Yes	100									
5.545G	Yes	100									
5.546G	Yes	100									
5.547G	Yes	100									
5.548G	Yes	100									
5.549G	Yes	100									
5.550G	Yes	100									
5.551G	Yes	100									
5.552G	Yes	100									
5.553G	Yes	100									
5.554G	Yes	100									
5.555G	Yes	100									
5.556G	Yes	100									
5.557G	Yes	100									
5.558G	Yes	100									
5.559G	Yes	100									
5.560G	Yes	100									
5.561G	Yes	100									
5.562G	Yes	100									
5.563G	Yes	100									
5.564G	Yes	100									
5.565G	Yes	100									
5.566G	Yes	100									
5.567G	Yes	100									
5.568G	Yes	100									
5.569G(FH)	Yes	100									
5.570G	No	0									



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6.2.1.7 NON-CO-CHANNEL TEST

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.



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:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF/Telecom Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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



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8. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

Modifications or adding components during the test

No any modifications are made to the EUT by the lab during the test.



9. APPENDIX-B

RADAR TEST SIGNAL

B.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_01						
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	1	5	52	1534	-	-
2	3	19	96.3	1106	1564	1008
3	2	13	77.7	1133	1623	-
4	2	13	77.3	1317	1509	-
5	2	13	76.3	1535	1130	-
6	3	17	89.7	1029	1560	1751
7	1	7	58.9	1092	-	-
8	2	12	73.3	1255	2000	-
9						
10						
11						
12						
13						
14						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

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	3	16	85.5	1489	1819	1013
2	2	11	71.8	1166	1095	-
3	2	14	80.3	1348	1294	-
4	2	11	69.9	1028	1309	-
5	1	9	62.8	1910	-	-
6	3	17	87.7	1705	1405	1314
7	3	17	89.1	1714	1453	1385
8	3	17	88.7	1139	1530	1068
9	3	16	87.4	1588	1059	1846
10	3	15	83.8	1233	1543	1308
11	1	5	52.8	1114	-	-
12	3	16	86.8	1072	1596	1441
13	3	15	83.9	1860	1057	1220
14	1	9	64.1	1098	-	-
15	2	10	67.9	1614	1257	-
16	3	19	96.2	1376	1446	1730
17	1	6	53.6	1439	-	-
18	2	13	76.5	1814	1789	-
19	3	20	98.6	1716	1077	1968
20	2	10	68.1	1867	1104	-



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	11	70.7	1221	1418	-
2	2	10	67.8	1578	1428	-
3	2	10	67.8	1865	1187	-
4	1	7	57	1412	-	-
5	3	19	96.4	1683	1226	1033
6	2	10	67	1625	1234	-
7	2	13	76.6	1475	1434	-
8	2	10	68.5	1451	1853	-
9	2	15	81.4	1738	1307	-
10	3	19	96.1	1702	1457	1330
11	3	16	87.1	1941	1664	1344
12	3	19	95.4	1052	1345	1020
13	1	9	62.6	1267	-	-
14	2	14	80.3	1931	1204	-
15	1	7	56.4	1146	-	-
16						
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	18	92.9	1656	1271	1266
2	1	9	64.4	1248	-	-
3	1	6	56.1	1495	-	-
4	1	6	55	1184	-	-
5	3	15	83.8	1284	1343	1074
6	2	13	75.7	1943	1205	-
7	1	6	53.5	1339	-	-
8	1	5	51.8	1608	-	-
9	1	5	51.4	1863	-	-
10	3	17	89.8	1628	1115	1382
11	2	10	67	1050	1521	-
12	3	20	100	1214	1742	1201
13	3	17	87.9	1473	1933	1613
14	2	14	78.4	1338	1206	-
15	2	15	81.5	1768	1696	-
16						
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

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	2	12	73.7	1838	1341	-
2	3	20	99.8	1416	1842	1203
3	3	18	91.2	1611	1621	1518
4	3	18	90.9	1173	1240	1118
5	1	5	52.6	1976	-	-
6	2	10	67.7	1170	1737	-
7	1	6	54	1394	-	-
8	2	12	73.3	1802	1407	-
9	2	12	73.5	1627	1442	-
10	3	19	95.9	1023	1779	1300
11	1	8	61.1	1022	-	-
12	2	11	70.6	1355	1328	-
13	1	7	57.3	1099	-	-
14	3	18	91.3	1331	1577	1380
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 18

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	19	96.8	1105	1866	1520
2	1	7	57.4	1192	-	-
3	2	12	74.1	1021	1425	-
4	1	6	53.5	1759	-	-
5	1	7	57.7	1679	-	-
6	2	13	75	1431	1256	-
7	2	15	81.8	1041	1261	-
8	3	20	97.5	1624	1227	1334
9	2	11	71.5	1014	1167	-
10	1	9	64.7	1856	-	-
11	3	18	92.4	1616	1147	1684
12	2	10	67.1	1969	1632	-
13	1	10	66	1393	-	-
14	1	10	66.3	1316	-	-
15	2	10	67.3	1156	1589	-
16	2	14	79.3	1350	1546	-
17	2	10	67.1	1672	1665	-
18	3	17	88.7	1993	1871	1528
19						
20						



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

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	3	17	90.2	1652	1507	1222
2	3	20	99.9	1901	1123	1978
3	2	12	72.4	1654	1764	-
4	3	16	87.3	1155	1073	1594
5	1	6	54.2	1161	-	-
6	2	11	71.8	1245	1519	-
7	2	13	77.7	1963	1676	-
8	3	17	88.8	1150	1141	1801
9	3	17	88.9	1960	1522	1423
10	3	18	91.2	1582	1138	1586
11						
12						
13						
14						
15						
16						
17						
18						
19						
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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	2	15	82.7	1948	1598	-
2	1	7	59.1	1886	-	-
3	2	12	72.7	1358	1364	-
4	1	6	55.1	1915	-	-
5	3	19	96.3	1845	1970	1024
6	1	8	60.5	1708	-	-
7	1	6	54.7	1980	-	-
8	2	15	82.3	1884	1414	-
9	3	18	92.9	1083	1648	1009
10	3	19	96.4	1680	1831	1704
11	2	14	80.2	1760	1448	-
12	1	6	53.3	1378	-	-
13	3	20	99.8	1478	1796	1091
14	2	13	76.3	1038	1419	-
15						
16						
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	14	78.3	1717	1230	-
2	2	13	76.4	1246	1462	-
3	3	20	98.5	1807	1163	1799
4	3	16	85.5	1777	1573	1755
5	1	5	51.6	1159	-	-
6	3	17	87.7	1370	1896	1379
7	1	6	55.9	1936	-	-
8	3	19	94.2	1855	1460	1637
9	2	14	78.8	1396	1492	-
10	2	12	72.4	1870	1525	-
11	2	14	80.5	1718	1143	-
12	1	7	57.4	1017	-	-
13	2	11	68.9	1781	1390	-
14	1	8	59.5	1575	-	-
15	1	6	53.2	1408	-	-
16	1	5	52.3	1711	-	-
17	2	13	75.9	1551	1733	-
18						
19						
20						



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

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	2	11	68.9	1826	1601	-
2	3	16	86.2	1538	1212	1516
3	3	17	90.6	1956	1476	1132
4	1	9	64.7	1591	-	-
5	1	8	62.4	1145	-	-
6	3	18	92	1630	1723	1533
7	3	16	87.3	1007	1232	1100
8	2	11	70.8	1247	1893	-
9	1	6	55.4	1707	-	-
10	1	8	61.6	1071	-	-
11	3	16	85.1	1045	1618	1964
12	3	16	86.5	1438	1081	1432
13	2	11	70.7	1110	1254	-
14						
15						
16						
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	7	58.5	1924	-	-
2	3	16	86.8	1882	1785	1193
3	1	5	50	1251	-	-
4	3	19	96.1	1816	1818	1151
5	1	7	58.9	1349	-	-
6	2	13	77.8	1128	1957	-
7	2	12	73.4	1572	1633	-
8	3	18	92.2	1579	1833	1811
9	3	16	87.1	1445	1196	1975
10	1	5	51.1	1629	-	-
11	3	16	85.3	1087	1064	1375
12	3	17	88.5	1119	1298	1653
13	2	14	80.3	1471	1225	-
14	1	5	50.3	1570	-	-
15	2	12	74.6	1959	1514	-
16						
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

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	17	88.8	1658	1195	1269
2	3	18	91.7	1481	1736	1786
3	3	19	95.2	1869	1437	1342
4	2	14	79	1812	1359	-
5	3	17	90.6	1727	1483	1809
6	2	11	70.4	1477	1486	-
7	1	8	61.2	1347	-	-
8	2	10	67.2	1004	1153	-
9	1	7	59.1	1188	-	-
10	1	8	61.5	1790	-	-
11	1	10	65.9	1320	-	-
12	3	16	84.5	1542	1606	1555
13	1	8	61.2	1576	-	-
14						
15						
16						
17						
18						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	9	64.6	1216	-	-
2	3	19	96.3	1129	1649	1011
3	2	13	76	1724	1069	-
4	2	11	70.8	1470	1788	-
5	1	7	57.7	1927	-	-
6	1	7	58	1250	-	-
7	1	9	63.9	1417	-	-
8	3	18	93.7	1026	1774	1249
9	1	7	57.4	1815	-	-
10	2	12	72.8	1018	1634	-
11	1	5	50.5	1947	-	-
12						
13						
14						
15						
16						
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18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	13	75.5	1357	1953	-
2	2	14	79	1305	1568	-
3	3	15	83.7	1354	1164	1372
4	2	15	81.8	1037	1424	-
5	3	16	85	1395	1932	1609
6	1	6	55.3	1391	-	-
7	2	13	76.3	1840	1787	-
8	2	15	82.1	1861	1158	-
9	3	18	91.7	1887	1908	1090
10	1	9	62.6	1303	-	-
11	2	15	82.1	1427	1333	-
12	1	9	63.7	1549	-	-
13	1	10	66.4	1604	-	-
14	1	6	56.1	1895	-	-
15	3	19	95.9	1719	1433	1610
16	1	5	50.3	1285	-	-
17	3	20	97.3	1557	1420	1399
18						
19						
20						



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 18

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	11	69.6	1496	1280	-
2	3	18	90.9	1635	1404	1452
3	3	16	84.5	1410	1547	1569
4	3	18	93.1	1400	1722	1511
5	3	18	93.4	1847	1421	1750
6	1	8	62.1	1581	-	-
7	2	13	77.5	1327	1938	-
8	3	18	90.8	1739	1849	1177
9	2	13	75.2	1923	1276	-
10	1	9	64.4	1883	-	-
11	2	14	80.8	1392	1374	-
12	2	12	72.3	1286	1721	-
13	3	16	86.4	1352	1693	1823
14	2	14	81	1877	1593	-
15	2	15	81.4	1574	1762	-
16	2	11	68.9	1824	1875	-
17	3	19	94.7	1561	1049	1806
18	1	6	53.4	1858	-	-
19						
20						



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 18

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	8	61.6	1926	-	-
2	3	16	86.7	1176	1002	1497
3	2	14	79.5	1066	1474	-
4	2	15	82.2	1210	1709	-
5	1	6	53.8	1524	-	-
6	3	16	85.3	1137	1553	1056
7	3	15	83.8	1140	1498	1381
8	3	18	92.8	1918	1885	1640
9	3	20	98.6	1025	1304	1362
10	2	15	82.6	1920	1749	-
11	2	15	82.5	1771	1545	-
12	1	8	59.5	1467	-	-
13	1	9	64.7	1403	-	-
14	1	8	61.8	1636	-	-
15	1	7	57.7	1491	-	-
16	2	10	66.7	1501	1505	-
17	2	12	74.1	1162	1229	-
18	1	10	66.5	1329	-	-
19						
20						



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	17	88.3	1706	1500	1042
2	1	7	57.4	1643	-	-
3	2	15	82.2	1035	1012	-
4	2	10	66.8	1268	1597	-
5	1	6	56.1	1199	-	-
6	3	18	91	1502	1775	1548
7	1	8	59.8	1278	-	-
8	3	18	91	1318	1691	1780
9	3	19	95.5	1321	1198	1172
10	1	8	59.7	1469	-	-
11	1	6	55.2	1527	-	-
12	2	15	81.7	1503	1076	-
13	1	5	50.6	1822	-	-
14	3	19	94.9	1237	1567	1311
15	2	11	71.8	1512	1794	-
16	1	5	52.6	1323	-	-
17	3	15	84.3	1097	1219	1182
18						
19						
20						



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

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	9	63.6	1060	-	-
2	2	10	67.8	1353	1697	-
3	3	16	87.4	1642	2000	1699
4	3	16	87.1	1728	1120	1126
5	3	20	99.3	1015	1617	1070
6	1	7	59.2	1757	-	-
7	1	5	50.5	1782	-	-
8	1	9	63.5	1019	-	-
9	3	19	95	1725	1677	1485
10	1	7	58.3	1872	-	-
11	1	9	65.6	1031	-	-
12	3	20	99.7	1464	1795	1626
13	2	11	68.9	1371	1954	-
14	1	9	64.5	1178	-	-
15	2	11	69.7	1837	1783	-
16	1	7	56.8	1641	-	-
17						
18						
19						
20						



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

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	1	9	64.9	1645	-	-
2	2	14	80.6	1558	1051	-
3	3	16	87.2	1288	1134	1185
4	2	11	71.3	1293	1940	-
5	3	19	94.8	1988	1493	1398
6	2	14	80.5	1890	1602	-
7	3	17	88.5	1985	1484	1772
8	2	12	72.4	1270	1010	-
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A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 17

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	9	62.8	1666	-	-
2	3	17	89.8	1556	1297	1905
3	2	12	74.1	1197	1189	-
4	3	17	87.6	1413	1157	1929
5	2	10	66.9	1078	1650	-
6	2	15	82	1669	1003	-
7	3	17	87.7	1854	1620	1984
8	3	17	87.8	1005	1337	1238
9	1	8	62.1	1461	-	-
10	2	13	77.5	1016	1776	-
11	3	19	94.2	1244	1459	1566
12	3	20	98.9	1361	1647	1218
13	3	16	86.8	1174	1336	1805
14	2	14	79.4	1290	1951	-
15	3	17	89.1	1913	1784	1971
16	3	20	98.2	1122	1999	1085
17	2	15	81.7	1179	1541	-
18						
19						
20						



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

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	6	53.2	1713	-	-
2	1	8	61.2	1360	-	-
3	2	15	82.7	1490	1600	-
4	3	19	94.2	1080	1983	1040
5	3	18	91.3	1447	1694	1907
6	2	13	76.6	1001	1992	-
7	3	19	95.3	1710	1997	1912
8	3	16	85.5	1084	1965	1054
9	2	12	74.9	1792	1930	-
10	3	16	85.8	1793	1411	1088
11	1	9	64.3	1117	-	-
12	3	16	84.6	1283	1430	1526
13	2	15	81.4	1315	1668	-
14	3	17	89.6	1880	1116	1778
15	2	15	83.1	1765	1065	-
16	2	14	79.4	1928	1990	-
17						
18						
19						
20						



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	9	64.9	1121	-	-
2	2	12	74.2	1093	1868	-
3	1	8	59.4	1253	-	-
4	3	16	85.2	1127	1987	1228
5	1	9	62.9	1086	-	-
6	3	19	96.7	1426	1829	1191
7	1	9	63	1844	-	-
8	2	11	70.6	1942	1996	-
9	2	13	77.9	1532	1945	-
10	3	17	87.6	1695	1995	1821
11	3	18	91.5	1444	1682	1190
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13						
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A D T

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	2	11	70.4	1903	1436	-
2	2	11	70.9	1615	1864	-
3	2	11	70	1171	1089	-
4	3	16	85.5	1660	1659	1830
5	3	18	91.6	1340	1488	1389
6	3	17	89	1365	1571	1289
7	3	17	89.7	1346	1236	1180
8	3	18	91.6	1043	1744	1006
9	2	11	69.3	1688	1207	-
10	1	6	55.7	1047	-	-
11	2	14	78.2	1165	1827	-
12	2	11	71.6	1754	1644	-
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14						
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A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

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	1	9	63.2	1857	-	-
2	2	14	78.8	1027	1124	-
3	1	5	52	1000	-	-
4	3	18	92.1	1258	1301	1325
5	3	19	96.2	1223	1094	1686
6	2	12	73.3	1767	1817	-
7	1	6	53.1	1735	-	-
8	2	14	80.8	1939	1657	-
9	3	17	88	1946	1367	1746
10	1	8	61	1810	-	-
11	2	11	69.5	1565	1747	-
12	2	11	71.8	1937	1282	-
13	1	6	55.2	1982	-	-
14	2	14	79.6	1406	1731	-
15	1	9	63	1102	-	-
16	2	10	68.7	1479	1879	-
17	1	7	56.6	1373	-	-
18	3	20	98.3	1061	1989	1046
19	1	8	62.1	1264	-	-
20	1	10	66.3	1455	-	-



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

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	1	6	53.7	1961	-	-
2	3	16	85.1	1804	1369	1175
3	2	12	74.8	1584	1753	-
4	1	9	64.6	1734	-	-
5	1	6	54.8	1612	-	-
6	1	5	50.2	1703	-	-
7	2	12	72.8	1107	1740	-
8	3	19	95.6	1383	1108	1843
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10						
11						
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A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_26

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	3	18	91.7	1674	1295	1998
2	3	20	98	1224	1898	1513
3	1	9	63.8	1720	-	-
4	2	12	73.6	1277	1169	-
5	3	16	86.7	1440	1082	1678
6	1	5	52.6	1949	-	-
7	3	19	96.3	1523	1726	1036
8	1	7	56.3	1729	-	-
9	1	8	60.8	1798	-	-
10	1	6	54.5	1681	-	-
11	2	10	66.8	1356	1583	-
12	3	20	97.4	1112	1384	1351
13	2	12	74.7	1851	1769	-
14	1	7	56.8	1991	-	-
15						
16						
17						
18						
19						
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A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

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	1	6	53.4	1539	-	-
2	1	7	59.3	1841	-	-
3	1	5	51.3	1631	-	-
4	3	20	98.3	1701	1039	1366
5	2	14	80.3	1552	1873	-
6	1	8	61.9	1544	-	-
7	2	13	76	1030	1590	-
8	2	11	70.9	1387	1835	-
9	3	16	85	1480	1834	1922
10	2	11	71	1919	1058	-
11	3	18	93.7	1208	1881	1067
12	1	8	61.9	1044	-	-
13	2	10	67.8	1053	1262	-
14	2	13	78.1	1103	1950	-
15	1	6	54	1944	-	-
16	3	16	87.5	1450	1111	1517
17	3	16	87.3	1319	1194	1079
18	3	19	96	1967	1800	1655
19	1	5	50.5	1550	-	-
20	1	7	57.5	1791	-	-



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_28

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	17	89.1	1692	1559	1899
2	3	17	90	1878	1313	1529
3	3	20	97.3	1599	1531	1862
4	3	19	96	1259	1741	1506
5	3	16	85.1	1363	1839	1986
6	1	5	52.5	1673	-	-
7	3	15	83.4	1135	1397	1752
8	1	7	56.6	1904	-	-
9	1	7	57.8	1974	-	-
10	1	5	52	1894	-	-
11	2	15	81.5	1848	1952	-
12	1	9	64.8	1324	-	-
13						
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A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

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	18	91.6	1109	1200	1292
2	3	20	97	1687	1897	1463
3	2	15	81.7	1732	1958	-
4	1	9	65.4	1125	-	-
5	1	9	63.3	1409	-	-
6	1	7	56.5	1808	-	-
7	2	11	70	1096	1302	-
8	1	8	60.8	1836	-	-
9	2	11	69.6	1607	1306	-
10	2	11	70.8	1142	1144	-
11	1	9	63	1745	-	-
12	3	18	92.9	1595	1743	1113
13	2	14	80	1160	1981	-
14						
15						
16						
17						
18						
19						



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

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	2	12	74.8	1449	1252	-
2	3	16	84.8	1832	1646	1231
3	2	10	68.1	1209	1909	-
4	1	5	52.3	1241	-	-
5	2	12	73.4	1265	1925	-
6	2	10	67.3	1554	1773	-
7	2	11	70.8	1055	1585	-
8	3	19	96.8	1242	1906	1761
9	2	10	67.2	1275	1667	-
10	2	10	67.7	1670	1715	-
11	1	9	63.4	1874	-	-
12	1	8	62.1	1820	-	-
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19						
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A D T

B.2 The Frequency Hopping Radar pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01					
Frequency (MHz)	0	1	2	3	4
0	5436	5618	5502	5507	5674
5	5429	5363	5362	5339	5615
10	5432	5291	5566	5689	5400
15	5658	5277	5656	5265	5588
20	5643	5342	5449	5558	5600
25	5557	5293	5478	5488	5560
30	5331	5350	5559	5604	5505
35	5251	5413	5292	5424	5703
40	5596	5433	5266	5273	5548
45	5437	5253	5447	5628	5286
50	5340	5690	5302	5441	5439
55	5421	5694	5417	5609	5576
60	5305	5351	5288	5354	5335
65	5620	5657	5686	5711	5663
70	5610	5297	5634	5510	5426
75	5357	5667	5370	5387	5281
80	5585	5524	5338	5385	5673
85	5464	5693	5455	5633	5712
90	5679	5269	5607	5651	5352
95	5358	5612	5289	5397	5402



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02					
Frequency (MHz)	0	1	2	3	4
0	5691	5382	5438	5668	5419
5	5471	5385	5437	5502	5347
10	5363	5555	5607	5409	5421
15	5649	5404	5284	5310	5305
20	5554	5508	5370	5441	5531
25	5488	5496	5582	5522	5602
30	5317	5307	5299	5281	5325
35	5390	5504	5563	5577	5714
40	5435	5613	5679	5513	5642
45	5587	5417	5336	5505	5681
50	5648	5594	5391	5256	5530
55	5262	5722	5387	5278	5614
60	5580	5705	5470	5296	5595
65	5655	5378	5443	5606	5625
70	5446	5413	5466	5717	5275
75	5711	5626	5339	5410	5424
80	5566	5301	5448	5641	5293
85	5573	5393	5367	5535	5515
90	5350	5633	5459	5467	5297
95	5279	5386	5715	5624	5403



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03					
Frequency (MHz)	0	1	2	3	4
0	5471	5621	5374	5354	5261
5	5513	5310	5512	5568	5651
10	5672	5344	5648	5507	5442
15	5262	5434	5290	5355	5497
20	5562	5577	5408	5530	5504
25	5279	5699	5308	5556	5266
30	5681	5264	5514	5523	5432
35	5595	5359	5255	5628	5274
40	5696	5520	5278	5639	5516
45	5397	5419	5563	5259	5438
50	5470	5567	5307	5619	5463
55	5666	5575	5707	5502	5433
60	5551	5635	5338	5427	5481
65	5324	5644	5555	5661	5350
70	5691	5538	5703	5613	5687
75	5585	5686	5547	5553	5461
80	5422	5457	5636	5588	5367
85	5377	5478	5445	5545	5684
90	5610	5287	5462	5285	5323
95	5597	5258	5420	5467	5698



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04					
Frequency (MHz)	0	1	2	3	4
0	5251	5385	5310	5515	5481
5	5555	5332	5587	5256	5383
10	5603	5705	5311	5702	5463
15	5350	5561	5393	5400	5689
20	5570	5268	5349	5522	5477
25	5642	5685	5427	5412	5590
30	5308	5696	5632	5682	5343
35	5571	5686	5252	5505	5542
40	5304	5458	5421	5636	5348
45	5280	5502	5524	5312	5325
50	5346	5358	5708	5286	5513
55	5288	5661	5692	5488	5283
60	5356	5404	5270	5370	5504
65	5697	5717	5397	5707	5616
70	5351	5663	5544	5655	5650
75	5613	5625	5330	5678	5321
80	5307	5316	5538	5637	5413
85	5638	5485	5627	5291	5357
90	5382	5437	5562	5451	5596
95	5473	5366	5395	5509	5464



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05					
Frequency (MHz)	0	1	2	3	4
0	5506	5624	5721	5579	5323
5	5694	5257	5662	5419	5590
10	5437	5494	5352	5422	5484
15	5438	5688	5496	5348	5406
20	5578	5337	5290	5611	5547
25	5433	5537	5533	5516	5350
30	5556	5372	5456	5541	5710
35	5302	5523	5658	5553	5524
40	5387	5396	5661	5633	5277
45	5260	5585	5582	5365	5697
50	5444	5409	5584	5457	5379
55	5615	5407	5546	5520	5490
60	5703	5663	5705	5691	5668
65	5550	5636	5320	5512	5675
70	5304	5716	5639	5503	5527
75	5295	5659	5606	5485	5681
80	5459	5384	5648	5501	5378
85	5689	5631	5305	5317	5297
90	5294	5264	5454	5617	5435
95	5452	5469	5690	5507	5562



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06					
Frequency (MHz)	0	1	2	3	4
0	5664	5388	5657	5265	5543
5	5261	5279	5262	5582	5419
10	5368	5283	5393	5617	5505
15	5526	5340	5599	5598	5489
20	5503	5328	5603	5520	5321
25	5486	5620	5658	5445	5513
30	5587	5705	5361	5277	5490
35	5319	5336	5467	5363	5567
40	5334	5426	5630	5584	5715
45	5668	5640	5418	5477	5476
50	5460	5508	5407	5304	5569
55	5597	5268	5367	5649	5655
60	5648	5495	5531	5259	5394
65	5499	5672	5530	5307	5478
70	5473	5719	5524	5615	5462
75	5496	5415	5327	5694	5377
80	5447	5301	5320	5572	5561
85	5449	5721	5643	5404	5482
90	5303	5488	5471	5392	5413
95	5602	5299	5454	5351	5675



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07					
Frequency (MHz)	0	1	2	3	4
0	5444	5627	5593	5426	5385
5	5303	5679	5337	5648	5626
10	5299	5547	5434	5526	5517
15	5467	5702	5438	5412	5497
20	5572	5269	5692	5493	5587
25	5338	5464	5346	5531	5431
30	5470	5327	5382	5656	5416
35	5581	5590	5586	5381	5677
40	5650	5272	5666	5724	5513
45	5695	5276	5601	5374	5267
50	5352	5321	5511	5597	5608
55	5723	5280	5523	5312	5562
60	5345	5690	5454	5680	5448
65	5611	5362	5674	5281	5545
70	5344	5373	5591	5421	5465
75	5568	5514	5329	5496	5541
80	5510	5298	5515	5551	5414
85	5524	5641	5686	5652	5701
90	5647	5406	5265	5500	5585
95	5252	5387	5313	5675	5697



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08					
Frequency (MHz)	0	1	2	3	4
0	5699	5391	5529	5587	5605
5	5442	5701	5412	5336	5358
10	5608	5475	5435	5547	5497
15	5708	5483	5604	5505	5263
20	5685	5684	5466	5665	5667
25	5450	5251	5573	5320	5427
30	5445	5631	5379	5555	5672
35	5264	5392	5516	5258	5334
40	5721	5675	5359	5659	5629
45	5703	5562	5686	5431	5570
50	5468	5477	5502	5381	5309
55	5432	5510	5635	5256	5280
60	5626	5418	5397	5647	5572
65	5469	5559	5714	5255	5347
70	5600	5470	5380	5337	5558
75	5549	5291	5439	5277	5670
80	5673	5710	5454	5584	5261
85	5554	5648	5425	5521	5299
90	5288	5609	5602	5307	5484
95	5285	5303	5317	5723	5444



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09					
Frequency (MHz)	0	1	2	3	4
0	5479	5630	5465	5273	5447
5	5484	5626	5487	5499	5662
10	5539	5697	5516	5568	5693
15	5624	5336	5431	5321	5416
20	5429	5723	5298	5439	5363
25	5614	5395	5554	5285	5712
30	5684	5384	5660	5308	5674
35	5694	5288	5279	5417	5306
40	5452	5438	5623	5574	5718
45	5274	5655	5442	5717	5480
50	5419	5579	5673	5613	5397
55	5254	5514	5656	5692	5578
60	5658	5561	5675	5580	5563
65	5678	5669	5716	5346	5683
70	5404	5361	5265	5311	5449
75	5446	5339	5659	5530	5543
80	5533	5297	5258	5670	5430
85	5454	5547	5453	5519	5602
90	5719	5502	5418	5711	5548
95	5619	5362	5468	5649	5406



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10					
Frequency (MHz)	0	1	2	3	4
0	5637	5394	5401	5434	5667
5	5526	5648	5562	5662	5470
10	5486	5557	5350	5589	5306
15	5276	5439	5476	5513	5424
20	5498	5664	5290	5412	5629
25	5466	5501	5658	5319	5279
30	5670	5341	5400	5397	5261
35	5379	5550	5570	5695	5291
40	5521	5464	5339	5715	5678
45	5538	5525	5300	5533	5358
50	5374	5552	5361	5369	5385
55	5310	5593	5365	5395	5504
60	5615	5442	5295	5622	5614
65	5631	5543	5383	5324	5450
70	5298	5422	5653	5323	5705
75	5511	5320	5314	5461	5321
80	5625	5357	5512	5607	5645
85	5387	5349	5539	5270	5430
90	5255	5636	5417	5549	5556
95	5628	5509	5352	5410	5672



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11

Frequency (MHz)	0	1	2	3	4
0	5417	5633	5337	5595	5509
5	5568	5670	5637	5253	5601
10	5304	5275	5598	5545	5610
15	5297	5403	5542	5521	5705
20	5432	5664	5605	5379	5385
25	5517	5415	5704	5287	5353
30	5321	5559	5298	5615	5709
35	5692	5400	5470	5443	5345
40	5609	5604	5402	5482	5712
45	5510	5518	5608	5261	5586
50	5571	5550	5715	5575	5278
55	5305	5460	5339	5500	5691
60	5600	5722	5530	5567	5702
65	5330	5561	5643	5719	5658
70	5446	5426	5346	5552	5310
75	5453	5622	5398	5257	5373
80	5492	5475	5570	5625	5481
85	5442	5260	5354	5265	5352
90	5607	5597	5262	5357	5527
95	5690	5364	5472	5533	5454



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12					
Frequency (MHz)	0	1	2	3	4
0	5672	5397	5273	5659	5254
5	5707	5595	5712	5416	5430
10	5710	5539	5261	5265	5631
15	5385	5530	5645	5469	5422
20	5343	5258	5643	5371	5358
25	5308	5267	5432	5488	5387
30	5460	5448	5255	5483	5415
35	5658	5714	5498	5620	5444
40	5687	5340	5722	5331	5439
45	5691	5319	5639	5458	5585
50	5251	5291	5664	5576	5627
55	5648	5293	5690	5510	5571
60	5376	5695	5512	5534	5253
65	5507	5466	5668	5597	5656
70	5318	5624	5296	5553	5374
75	5494	5419	5473	5252	5685
80	5351	5692	5544	5661	5637
85	5260	5630	5457	5370	5557
90	5522	5533	5716	5572	5292
95	5527	5517	5352	5489	5618



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13					
Frequency (MHz)	0	1	2	3	4
0	5452	5636	5684	5345	5571
5	5274	5617	5312	5579	5637
10	5544	5328	5302	5363	5652
15	5473	5560	5651	5514	5614
20	5351	5424	5584	5460	5331
25	5671	5594	5635	5592	5421
30	5502	5434	5687	5710	5581
35	5510	5534	5380	5392	5278
40	5487	5368	5478	5299	5377
45	5692	5723	5364	5427	5342
50	5399	5361	5722	5405	5707
55	5445	5505	5385	5457	5463
60	5554	5550	5667	5633	5488
65	5588	5318	5379	5556	5698
70	5253	5650	5586	5562	5454
75	5504	5320	5607	5381	5561
80	5357	5638	5610	5593	5552
85	5660	5612	5618	5280	5539
90	5275	5485	5309	5582	5598
95	5347	5371	5721	5568	5358



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14					
Frequency (MHz)	0	1	2	3	4
0	5707	5400	5620	5506	5316
5	5542	5387	5267	5369	5475
10	5689	5343	5558	5673	5561
15	5687	5279	5559	5331	5359
20	5493	5525	5452	5304	5462
25	5543	5363	5696	5358	5544
30	5323	5644	5688	5409	5433
35	5720	5365	5306	5426	5448
40	5694	5691	5252	5325	5675
45	5458	5382	5338	5648	5610
50	5715	5603	5393	5464	5697
55	5418	5549	5579	5595	5526
60	5416	5634	5550	5499	5295
65	5380	5496	5490	5566	5669
70	5698	5480	5608	5390	5656
75	5547	5704	5609	5335	5706
80	5532	5281	5333	5388	5545
85	5670	5552	5541	5556	5269
90	5528	5663	5391	5575	5377
95	5714	5594	5326	5637	5582



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15					
Frequency (MHz)	0	1	2	3	4
0	5390	5639	5556	5667	5633
5	5358	5564	5462	5333	5576
10	5406	5478	5384	5278	5694
15	5552	5339	5382	5604	5620
20	5270	5659	5466	5541	5277
25	5350	5395	5469	5325	5392
30	5586	5687	5601	5428	5561
35	5253	5456	5674	5579	5459
40	5533	5558	5629	5322	5438
45	5465	5396	5701	5400	5591
50	5304	5444	5553	5520	5362
55	5262	5310	5345	5387	5288
60	5715	5602	5303	5442	5691
65	5515	5608	5530	5275	5411
70	5559	5351	5680	5568	5276
75	5513	5443	5644	5709	5355
80	5555	5272	5391	5616	5461
85	5493	5617	5298	5542	5551
90	5721	5596	5703	5343	5692
95	5566	5618	5707	5452	5313



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16					
Frequency (MHz)	0	1	2	3	4
0	5645	5500	5492	5353	5378
5	5497	5489	5537	5496	5405
10	5715	5267	5425	5473	5640
15	5466	5485	5552	5337	5278
20	5253	5504	5533	5250	5616
25	5344	5672	5526	5426	5673
30	5558	5546	5335	5548	5523
35	5547	5470	5257	5373	5372
40	5263	5567	5635	5319	5436
45	5321	5454	5279	5287	5467
50	5480	5495	5642	5721	5684
55	5450	5487	5542	5358	5320
60	5389	5434	5604	5514	5464
65	5644	5265	5545	5689	5631
70	5284	5720	5656	5527	5273
75	5374	5419	5494	5688	5553
80	5301	5418	5564	5444	5708
85	5579	5556	5361	5668	5412
90	5593	5707	5654	5658	5381
95	5457	5272	5647	5516	5686



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17

Frequency (MHz)	0	1	2	3	4
0	5425	5264	5428	5514	5695
5	5539	5511	5612	5659	5646
10	5531	5466	5668	5261	5253
15	5496	5588	5597	5529	5286
20	5419	5445	5622	5698	5504
25	5671	5400	5630	5460	5292
30	5562	5515	5487	5271	5565
35	5260	5266	5507	5287	5686
40	5346	5505	5316	5365	5301
45	5631	5415	5332	5552	5721
50	5656	5546	5256	5544	5628
55	5638	5441	5593	5361	5707
60	5449	5570	5334	5527	5431
65	5715	5413	5583	5572	5437
70	5492	5325	5420	5472	5632
75	5486	5620	5494	5465	5475
80	5566	5681	5481	5549	5284
85	5347	5647	5639	5273	5326
90	5660	5397	5692	5263	5349
95	5474	5327	5414	5568	5658



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18					
Frequency (MHz)	0	1	2	3	4
0	5680	5503	5364	5675	5440
5	5581	5436	5687	5347	5344
10	5577	5320	5507	5291	5282
15	5341	5623	5594	5642	5721
20	5672	5585	5386	5614	5671
25	5392	5523	5603	5259	5494
30	5334	5548	5472	5501	5261
35	5566	5704	5351	5634	5660
40	5298	5622	5429	5346	5640
45	5410	5294	5281	5714	5473
50	5385	5439	5597	5357	5442
55	5367	5475	5254	5395	5308
60	5655	5678	5578	5260	5376
65	5670	5353	5377	5441	5362
70	5619	5307	5707	5295	5397
75	5406	5387	5321	5608	5445
80	5589	5456	5717	5676	5462
85	5629	5544	5449	5479	5489
90	5602	5368	5669	5673	5336
95	5611	5465	5666	5361	5491



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19					
Frequency (MHz)	0	1	2	3	4
0	5363	5267	5300	5361	5282
5	5623	5458	5287	5510	5648
10	5411	5681	5645	5486	5303
15	5332	5275	5697	5687	5438
20	5680	5654	5424	5703	5644
25	5658	5472	5331	5528	5473
30	5437	5429	5716	5413	5289
35	5368	5442	5430	5338	5461
40	5512	5284	5308	5407	5601
45	5261	5322	5531	5704	5436
50	5665	5419	5349	5498	5474
55	5649	5707	5425	5321	5502
60	5323	5264	5311	5655	5614
65	5599	5573	5566	5392	5390
70	5487	5404	5259	5494	5718
75	5318	5446	5674	5250	5662
80	5560	5634	5627	5584	5334
85	5630	5672	5663	5405	5470
90	5508	5696	5685	5389	5525
95	5596	5292	5465	5720	5520



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20					
Frequency (MHz)	0	1	2	3	4
0	5618	5506	5711	5425	5502
5	5287	5383	5362	5576	5380
10	5342	5470	5686	5681	5324
15	5420	5402	5325	5635	5630
20	5688	5345	5365	5695	5617
25	5546	5437	5564	5562	5515
30	5326	5386	5359	5662	5584
35	5410	5533	5701	5588	5601
40	5300	5692	5697	5548	5404
45	5530	5716	5405	5492	5394
50	5591	5349	5612	5699	5620
55	5391	5266	5303	5671	5361
60	5687	5334	5577	5366	5465
65	5260	5594	5279	5638	5378
70	5393	5494	5463	5363	5430
75	5282	5322	5418	5271	5499
80	5385	5292	5443	5491	5250
85	5270	5625	5277	5678	5357
90	5532	5320	5579	5622	5680
95	5408	5723	5417	5605	5639



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21					
Frequency (MHz)	0	1	2	3	4
0	5398	5270	5647	5586	5344
5	5329	5405	5437	5264	5587
10	5273	5259	5252	5401	5345
15	5508	5529	5428	5680	5347
20	5599	5414	5306	5309	5590
25	5337	5640	5668	5596	5557
30	5312	5343	5574	5339	5307
35	5549	5624	5594	5266	5612
40	5614	5300	5635	5313	5362
45	5696	5488	5550	5447	5381
50	5603	5275	5709	5689	5685
55	5257	5403	5490	5494	5393
60	5377	5686	5641	5288	5684
65	5630	5656	5664	5710	5461
70	5493	5721	5439	5700	5302
75	5402	5368	5399	5426	5434
80	5280	5355	5440	5628	5372
85	5370	5632	5605	5352	5485
90	5634	5547	5591	5639	5578
95	5387	5595	5543	5629	5282



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22					
Frequency (MHz)	0	1	2	3	4
0	5653	5509	5583	5272	5564
5	5371	5330	5512	5427	5416
10	5582	5523	5293	5499	5366
15	5596	5559	5531	5250	5539
20	5607	5580	5344	5301	5563
25	5700	5600	5368	5297	5630
30	5696	5676	5300	5314	5588
35	5602	5688	5715	5390	5419
40	5526	5550	5383	5573	5456
45	5398	5291	5571	5608	5500
50	5268	5479	5489	5326	5420
55	5532	5686	5593	5309	5465
60	5522	5542	5253	5570	5704
65	5258	5633	5666	5391	5556
70	5360	5404	5447	5496	5415
75	5659	5271	5511	5380	5678
80	5536	5713	5515	5437	5406
85	5648	5335	5586	5378	5650
90	5312	5668	5429	5656	5270
95	5476	5269	5698	5266	5277



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23					
Frequency (MHz)	0	1	2	3	4
0	5433	5273	5519	5406	5413
5	5352	5587	5590	5623	5513
10	5312	5334	5694	5387	5686
15	5537	5673	5353	5615	5649
20	5285	5390	5536	5491	5452
25	5571	5401	5664	5263	5565
30	5257	5529	5265	5422	5428
35	5661	5669	5440	5389	5466
40	5511	5696	5492	5695	5559
45	5654	5569	5553	5533	5355
50	5665	5377	5509	5335	5476
55	5719	5640	5308	5506	5436
60	5651	5707	5402	5627	5301
65	5582	5605	5698	5351	5638
70	5596	5419	5391	5618	5715
75	5642	5557	5458	5455	5317
80	5578	5434	5601	5531	5368
85	5708	5659	5678	5637	5626
90	5370	5340	5318	5689	5657
95	5254	5374	5723	5326	5464



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24					
Frequency (MHz)	0	1	2	3	4
0	5591	5512	5455	5594	5626
5	5552	5277	5662	5656	5355
10	5347	5673	5375	5414	5408
15	5675	5338	5640	5718	5545
20	5526	5340	5701	5382	5509
25	5379	5401	5299	5602	5698
30	5305	5551	5689	5647	5514
35	5620	5394	5519	5457	5451
40	5703	5646	5449	5461	5489
45	5527	5539	5359	5627	5606
50	5420	5706	5366	5428	5598
55	5536	5323	5335	5325	5407
60	5397	5618	5709	5453	5722
65	5513	5531	5641	5433	5441
70	5645	5516	5599	5268	5367
75	5577	5587	5287	5700	5439
80	5707	5667	5573	5469	5334
85	5321	5434	5685	5671	5376
90	5643	5399	5568	5505	5324
95	5639	5571	5346	5312	5712



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25					
Frequency (MHz)	0	1	2	3	4
0	5371	5276	5391	5280	5468
5	5594	5299	5262	5344	5659
10	5278	5462	5416	5609	5429
15	5288	5465	5268	5534	5409
20	5264	5471	5482	5267	5253
25	5405	5706	5257	5444	5440
30	5646	5387	5666	5533	5610
35	5350	5500	5365	5542	5254
40	5290	5701	5486	5456	5519
45	5442	5685	5485	5479	5687
50	5359	5523	5548	5591	5619
55	5281	5434	5562	5563	5541
60	5376	5668	5714	5480	5580
65	5265	5513	5622	5717	5502
70	5699	5592	5721	5536	5556
75	5310	5368	5420	5484	5680
80	5354	5633	5704	5331	5613
85	5337	5624	5256	5568	5511
90	5642	5550	5388	5670	5427
95	5576	5453	5455	5329	5292



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26					
Frequency (MHz)	0	1	2	3	4
0	5626	5515	5327	5441	5688
5	5636	5699	5337	5507	5391
10	5684	5251	5457	5329	5450
15	5376	5592	5371	5333	5454
20	5542	5575	5680	5463	5455
25	5533	5677	5608	5335	5291
30	5486	5426	5603	5602	5440
35	5638	5672	5701	5621	5275
40	5279	5381	5703	5369	5483
45	5288	5499	5525	5646	5615
50	5572	5361	5718	5530	5301
55	5657	5589	5711	5405	5306
60	5438	5252	5563	5605	5373
65	5537	5429	5616	5475	5425
70	5411	5488	5702	5344	5697
75	5495	5428	5430	5414	5401
80	5261	5315	5610	5322	5389
85	5328	5466	5694	5663	5476
90	5596	5323	5586	5360	5433
95	5713	5564	5346	5347	5303



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27					
Frequency (MHz)	0	1	2	3	4
0	5406	5279	5263	5505	5530
5	5678	5721	5412	5670	5598
10	5518	5515	5595	5427	5471
15	5367	5622	5474	5281	5646
20	5453	5644	5621	5552	5428
25	5421	5529	5336	5439	5325
30	5528	5315	5560	5342	5592
35	5458	5317	5417	5290	5517
40	5641	5609	5480	5692	5479
45	5608	5704	5668	5362	5712
50	5419	5581	5487	5533	5424
55	5359	5496	5635	5698	5550
60	5302	5503	5657	5378	5652
65	5307	5675	5703	5483	5705
70	5673	5454	5397	5557	5382
75	5416	5425	5391	5486	5452
80	5715	5308	5380	5344	5647
85	5571	5525	5547	5576	5363
90	5402	5287	5538	5445	5500
95	5590	5476	5252	5446	5432



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28					
Frequency (MHz)	0	1	2	3	4
0	5564	5518	5674	5666	5275
5	5342	5646	5487	5261	5427
10	5449	5304	5636	5622	5492
15	5455	5274	5480	5326	5363
20	5461	5335	5659	5544	5401
25	5687	5381	5539	5640	5359
30	5570	5679	5517	5460	5366
35	5656	5378	5505	5310	5581
40	5631	5600	5579	5374	5574
45	5621	5459	5691	5287	5721
50	5724	5491	5595	5632	5576
55	5681	5380	5612	5313	5686
60	5454	5669	5582	5495	5609
65	5426	5603	5561	5327	5591
70	5470	5506	5652	5557	5330
75	5649	5413	5269	5670	5668
80	5438	5647	5553	5515	5322
85	5723	5618	5722	5717	5475
90	5309	5601	5344	5604	5690
95	5445	5685	5457	5368	5436



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29					
Frequency (MHz)	0	1	2	3	4
0	5344	5282	5610	5352	5592
5	5384	5668	5562	5424	5634
10	5380	5665	5677	5342	5513
15	5543	5401	5583	5371	5555
20	5469	5501	5600	5633	5374
25	5575	5330	5267	5269	5393
30	5709	5474	5675	5518	5476
35	5517	5596	5581	5356	5593
40	5470	5683	5614	5571	5453
45	5299	5723	5514	5367	5296
50	5504	5324	5325	5273	5378
55	5272	5537	5441	5252	5549
60	5287	5276	5627	5349	5362
65	5309	5724	5333	5366	5625
70	5372	5713	5315	5271	5445
75	5548	5428	5717	5697	5443
80	5618	5564	5680	5667	5652
85	5615	5262	5494	5512	5334
90	5306	5421	5305	5522	5620
95	5413	5619	5284	5552	5714



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30					
Frequency (MHz)	0	1	2	3	4
0	5599	5521	5546	5513	5337
5	5426	5593	5637	5587	5366
10	5689	5454	5718	5537	5534
15	5631	5528	5686	5416	5272
20	5380	5570	5541	5625	5347
25	5657	5373	5427	5276	5554
30	5431	5415	5292	5296	5656
35	5687	5377	5509	5604	5309
40	5291	5455	5282	5568	5382
45	5322	5306	5352	5401	5472
50	5259	5279	5327	5646	5696
55	5591	5470	5514	5507	5437
60	5482	5273	5553	5592	5585
65	5700	5566	5559	5632	5490
70	5321	5529	5433	5601	5331
75	5338	5317	5325	5697	5658
80	5684	5406	5263	5694	5260
85	5503	5265	5384	5617	5606
90	5365	5622	5545	5552	5522
95	5511	5567	5336	5707	5663

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