Dynamic Frequency Selection (DFS) Test Report

FCC Part15 Subpart E

Product Name : Access Point

Model No. : APEX0365, APEX0367

Applicant : Hewlett Packard Enterprise Company

Address : 3000 Hanover St. Palo Alto,CA 94304,USA

Date of Receipt : Nov. 29, 2016

Test Date : May. 03, 2017~ Aug. 09, 2017

Issued Date : Aug. 10, 2017

Report No. : 16B2199R-DFS-US-P08V01

Report Version : V1.1

DFS Test Report

Issued Date: Aug. 10, 2017
Report No. : 16B2199R-DFS-US-P08V01

Product Name	:	Access Point
Applicant	:	Hewlett Packard Enterprise Company
Address	:	3000 Hanover St. Palo Alto,CA 94304,USA
Manufacturer	:	Hewlett Packard Enterprise Company
Address	:	3000 Hanover St. Palo Alto,CA 94304,USA
Model No.	:	APEX0365, APEX0367
EUT Voltage	:	PoE 57V
Brand Name	:	Aruba, Hewlett Packard Enterprise
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E: 2017 FCC OET Order 16-24A1 (2016) KDB 905462 D02v02
Test Result	:	Pass
Performed Location	:	DEKRA Testing & Certification (Suzhou) Co., Ltd. No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: 800392
Operation Mode (5250~5350MHz 5470~5725MHz)	:	☒ Master device ☐ Slaver device with radar detection function ☐ Slaver device without radar detection function
Documented By	:	Kitty Li (Adm. Specialist: Kitty Li)
Reviewed By	:	Jack zhang (Senior Engineer: Jack Zhang)
Approved By	:	Harry zhao (Engineering Manager: Harry Zhao)

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GENERAL INFORMATION

APEX0365:

APEX0365(SN No.)	CB0000075						
Antenna Model No.	N/A						
Antenna manufacturer	N/A						
Software Version	ArubaOS 6.5.2.0						
Build Number	58563						
Antenna Delivery	☐	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna technology	☐	SISO					
	☒	MIMO	☐	Basic			
			☐	Sectorized antenna systems			
			☒	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☐	Spatial Multiplexing			
			☐	CDD			
			☐	Beam-forming			
Antenna Type	☐	External	☐	Dipole			
	☒	Internal	☐	PIFA			
			☐	PCB			
			☐	Ceramic Chip Antenna			
			☐	Metal plate type F antenna			
			☒	Cross-polarize Antenna			
Antenna Gain #0	4.3dBi						
Antenna Gain #1	4.3dBi						
Beamforming Gain	0dBi						

APEX0367:

APEX0367(SN No.)	CB0000008						
Antenna Model No.	N/A						
Antenna manufacturer	N/A						
Software Version	ArubaOS 6.5.2.0						
Build Number	58563						
Antenna Delivery	☐	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna technology	☐	SISO					
	☒	MIMO	☐	Basic			
			☐	Sectorized antenna systems			
			☒	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☐	Spatial Multiplexing			
			☐	CDD			
			☒	Beam-forming			
Antenna Type	☐	External	☐	Dipole			
	☒	Internal	☐	PIFA			
			☐	PCB			
			☐	Ceramic Chip Antenna			
			☐	Metal plate type F antenna			
			☒	Cross-polarize Antenna			
Antenna Gain #0	6.5dBi						
Antenna Gain #1	6.5dBi						
Beamforming Gain	0dBi						

The UUT operates in the following bands:

1. 5250-5350 MHz
2. 5470-5725 MHz

The maximum mean EIRP of the device for 5GHz band is more than 23dBm.

System test was performed with the designated MPEG test file (download from NTIA) that streams full motion video at 30 frames per second from the Master to the Client IP based system.

The UUT utilizes 802.11a/n/ac IP based architecture. One nominal channel bandwidth, 20 MHz, 40MHz, 80MHz are implemented.

The slaver device is Intel WiFi module 5100.

Information regarding the parameters of the detected Radar Waveforms is not available to the end user.

For the 5250~5350 MHz band, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

The DFS test software is N7607B 3.2.0.0

1. Test Equipment

Dynamic Frequency Selection (DFS) / AC-8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4440A	MY49420128	2018.03.28
Vector Signal Generator	Agilent	E4438C	MY49070163	2018.03.28
Preamplifier	Miteq	NSP1800-25	1364185	2018.05.06
Preamplifier	DEKRA Testing & Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2018.05.06
DRG Horn	ETS-Lindgren	3117	00123988	2018.01.22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2017.11.25
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2018.03.02
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2018.03.02
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2018.03.02
EMI Receiver	Agilent	N9038A	MY51210196	2018.06.10
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2018.01.04

Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424
Splitter/Combiner (Qty: 2)	MCLI	PS3-7	4463/4464
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912
Laptop PC	Asus	N80V	8BN0AS226971468
RF Cable (Qty: 6)	Mini-Circuits	N/A	DFS-1~6
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737
DRG Horn	ETS-Lindgren	3117	00167055

Software	Manufacturer	Function
Pulse Building	Agilent	Radar Signal Generation Software
DFS Tool	Agilent	DFS Test Software

2. DFS Detection Threshold and Response Requirement

1. Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-62 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.	

2. DFS Response requirement values

Parameter	Value
Non-Occupancy Period	Minimum 30 minutes
Channel Availability Check Time	60 Seconds
Channel Move Time	10 Seconds (See Note1)
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.	

3. Radar Wave Parameters

Short Pulse Radar Test Waveforms

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{PRI_{\mu sec}}\right)\right\}$	60%	30
		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			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

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

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses would be = Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{3066}\right)\right\}$ = Roundup{17.2} = 18.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930. 5	518
2	1858. 7	538
3	1792. 1	558
4	1730. 1	578
5	1672. 2	598
6	1618. 1	618
7	1567. 4	638
8	1519. 8	658
9	1474. 9	678
10	1432. 7	698
11	1392. 8	718
12	1355	738
13	1319. 3	758
14	1285. 3	778
15	1253. 1	798
16	1222. 5	818
17	1193. 3	838
18	1165. 6	858
19	1139	878
20	1113. 6	898
21	1089. 3	918
22	1066. 1	938
23	326. 2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4.

Long Pulse Radar Test Waveform

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

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

Each waveform is defined as follows:

1) The transmission period for the Long Pulse Radar test signal is 12 seconds.

2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.

3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.

4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

1) The total test waveform length is 12 seconds.

2) Eight (8) Bursts are randomly generated for the Burst Count.

3) Burst 1 has 2 randomly generated pulses.

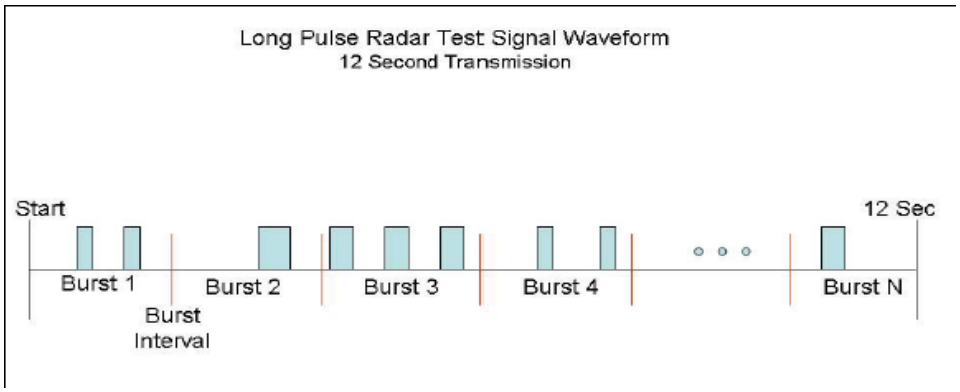
4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.

5) The PRI is randomly selected to be at 1213 microseconds.

6) Bursts 2 through 8 are generated using steps 3 – 5.

7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecondrange).

Figure 1 provides a graphical representation of the Long Pulse Radar Test Waveform.



Frequency Hopping Radar Test Waveform

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

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: 4

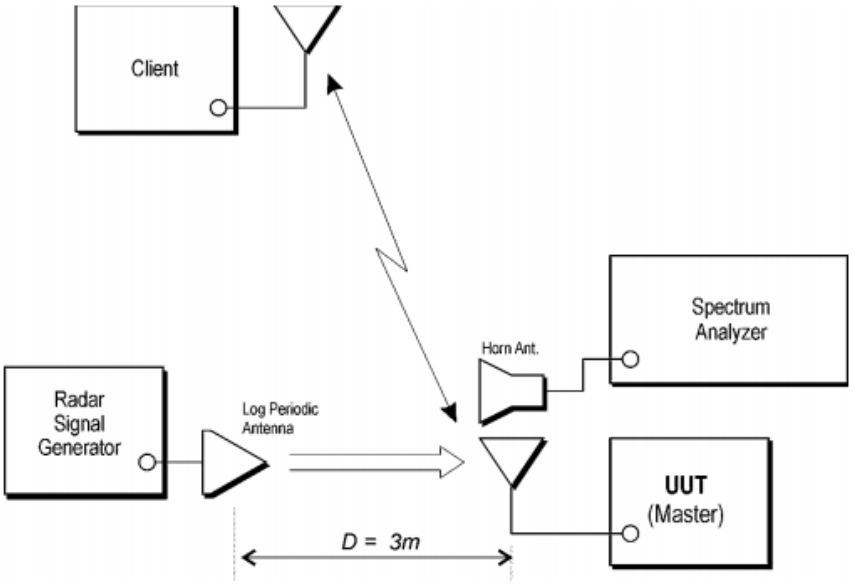
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues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

4. Test Setup

Radiated Test Setup

The subsections below contain simplified block diagrams that illustrate the Radar Waveform injection path for each of the different radiated setups to be used. The basic setup is identical for all cases.

Figure 1



DFS Set-up Photo

APEX0365

APEX0367

5. Radar Waveform Calibration

1. Description of calibration setup

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

2. Description of calibration procedure

a. Verify DFS Detection Threshold levels

i. Indicate DFS Detection Threshold levels used.

ii. Consider output power range and antenna gain.

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

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

d. Describe method used to generate frequency hopping signal.

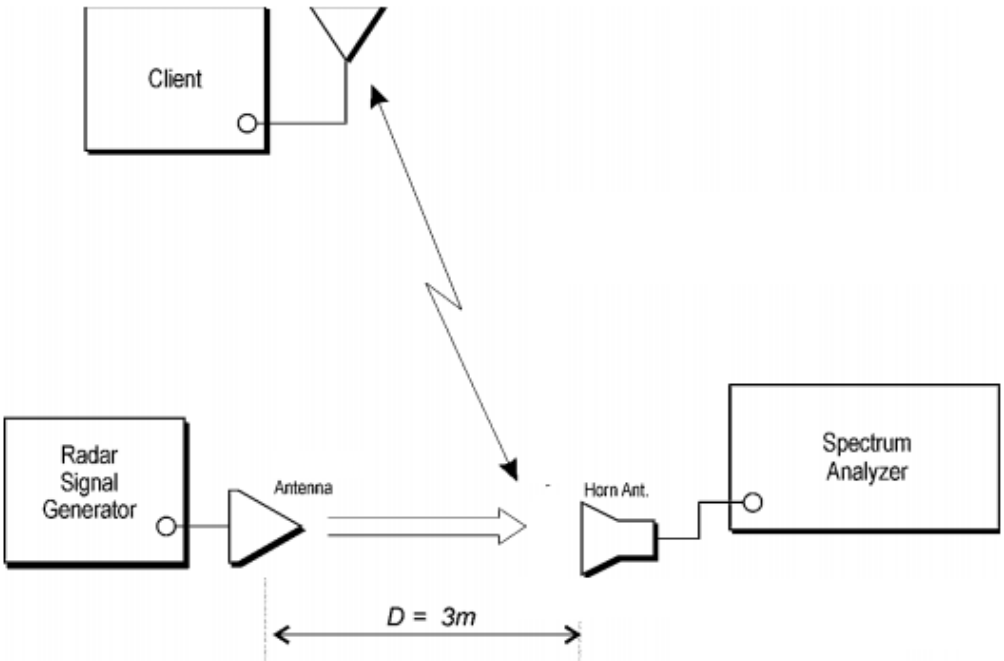
e. The U-NII Detection Bandwidth

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

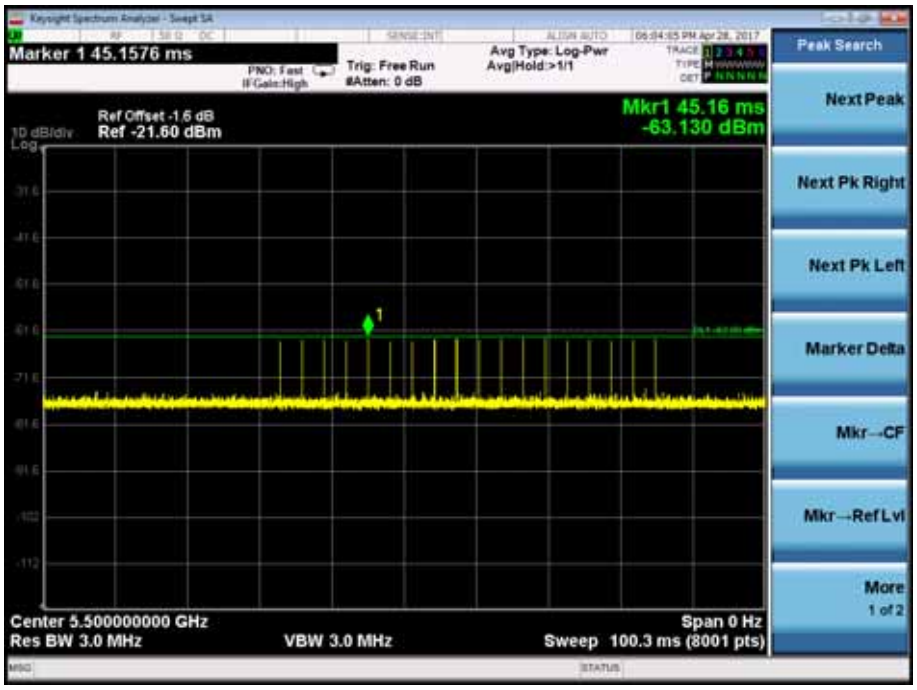
g. Verify use of vertical polarization for testing when using a radiated test method.

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

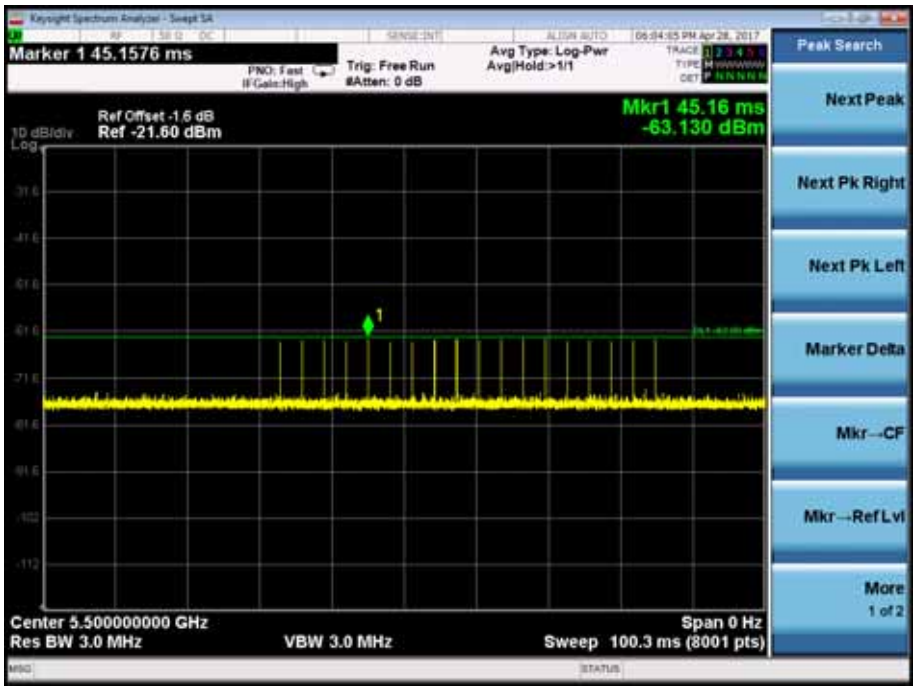
Figure 2: Radiated Calibration Setup



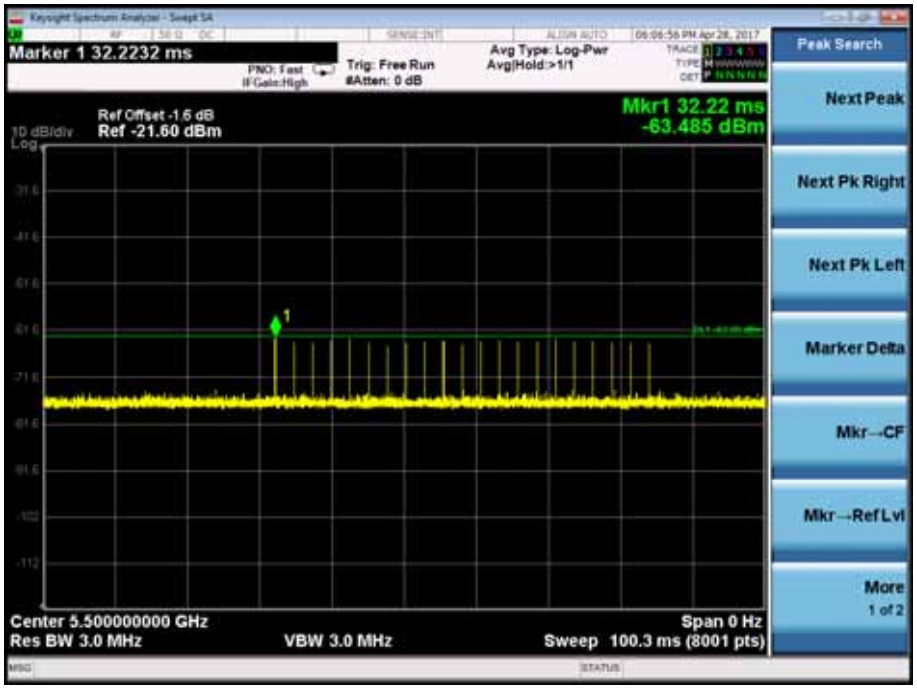
11a CH100 5500MHz Radar Type 0 Calibration Plot



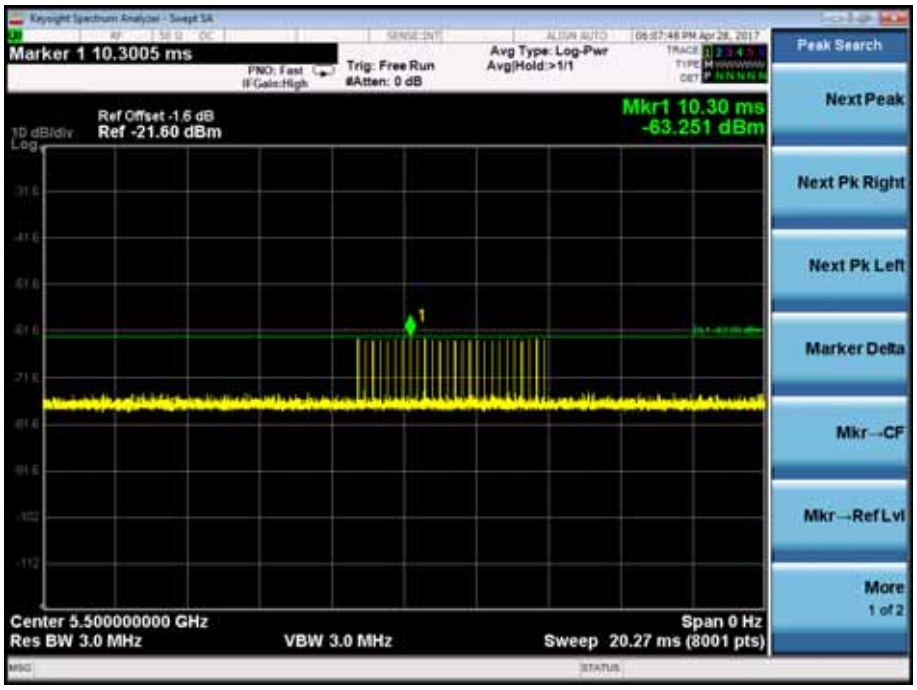
11a CH100 5500MHz Radar Type 1A Calibration Plot



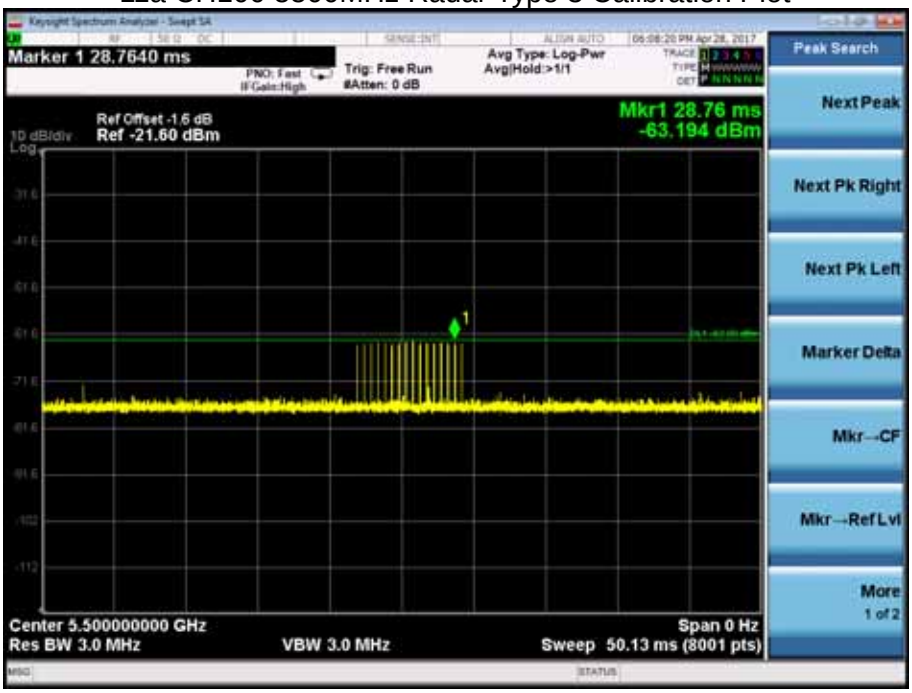
11a CH100 5500MHz Radar Type 1B Calibration Plot



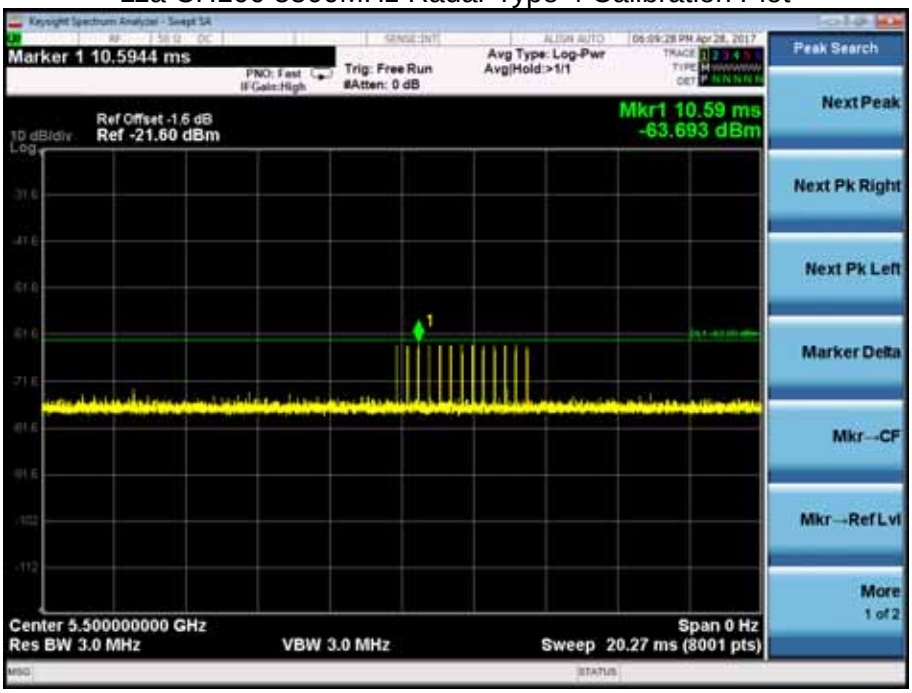
11a CH100 5500MHz Radar Type 2 Calibration Plot



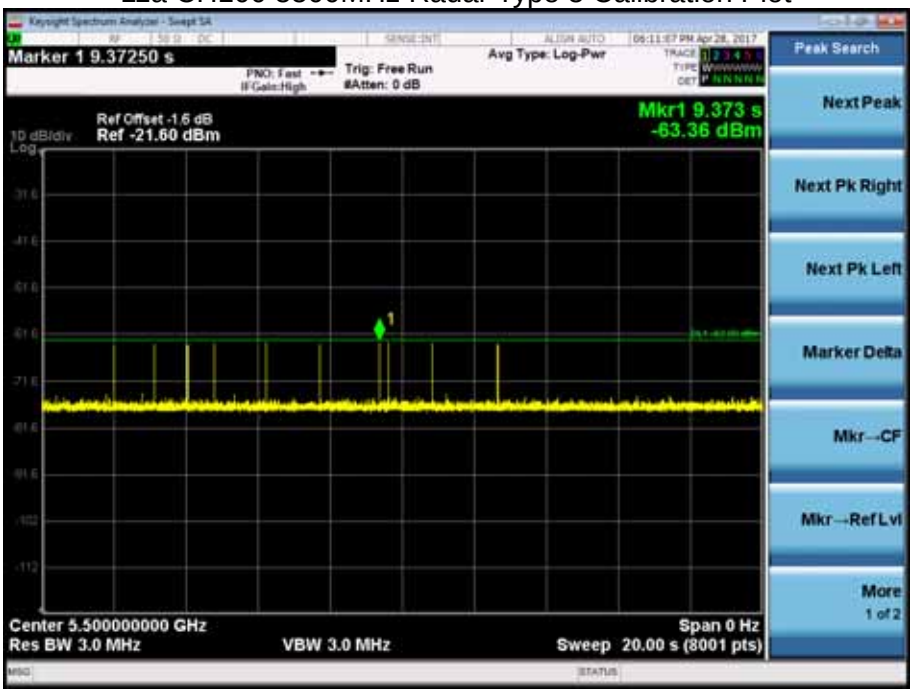
11a CH100 5500MHz Radar Type 3 Calibration Plot



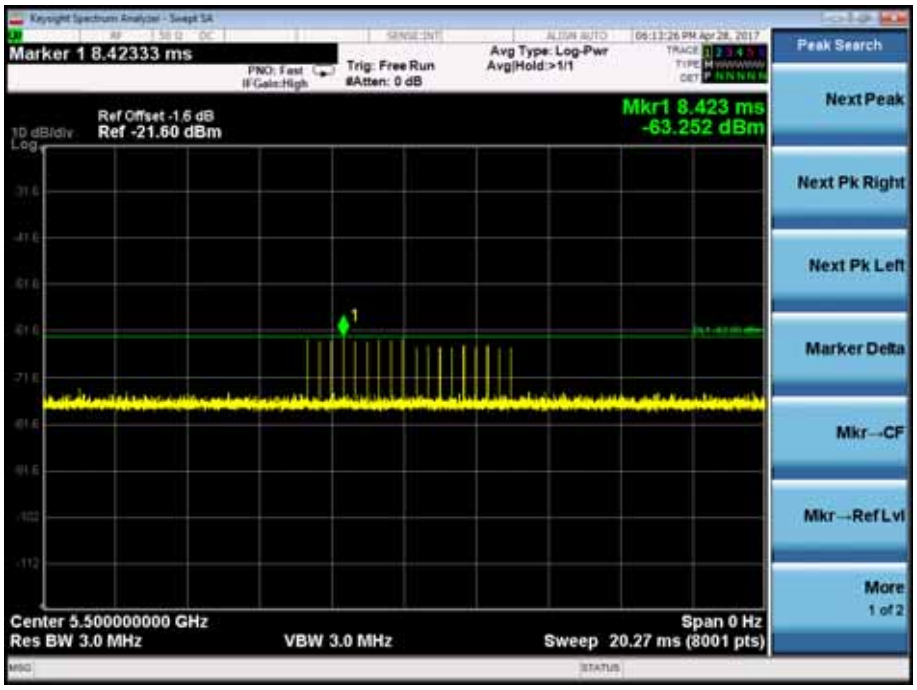
11a CH100 5500MHz Radar Type 4 Calibration Plot



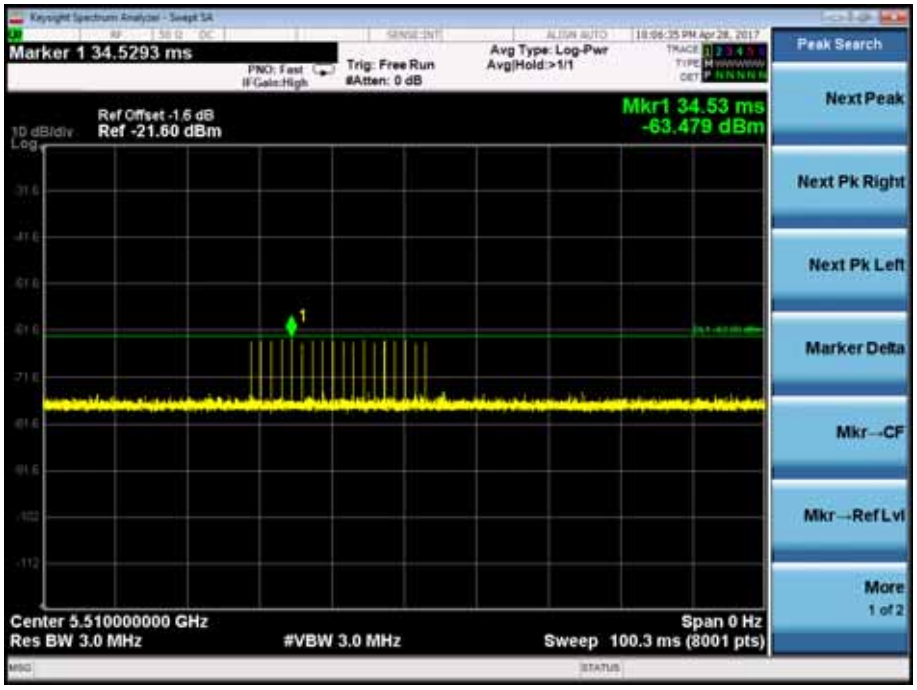
11a CH100 5500MHz Radar Type 5 Calibration Plot



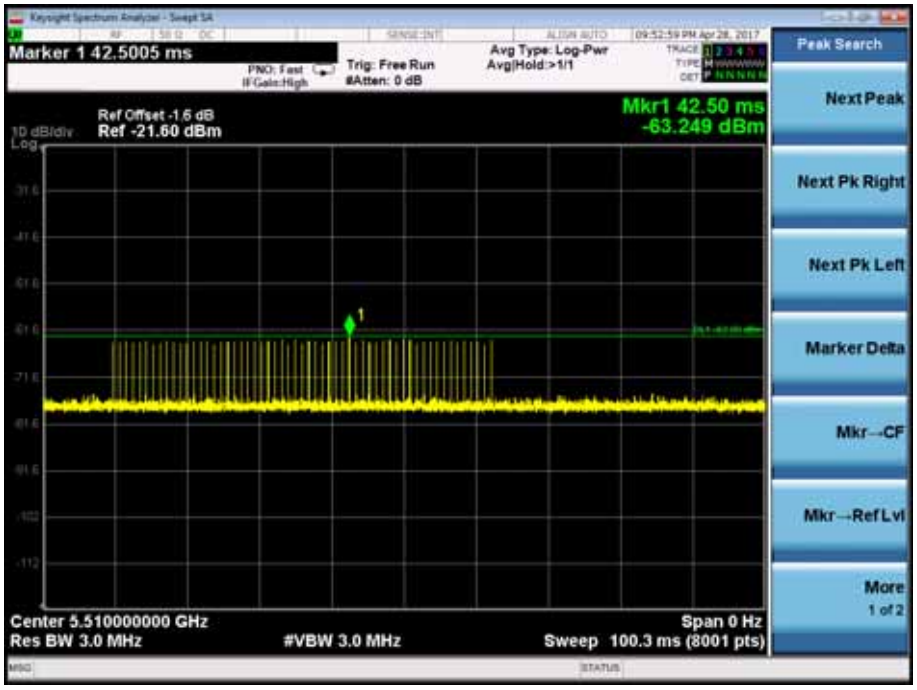
11a CH100 5500MHz Radar Type 6 Calibration Plot



11ac40 CH102 5510MHz Radar Type 0 Calibration Plot



11ac40 CH102 5510MHz Radar Type 1A Calibration Plot



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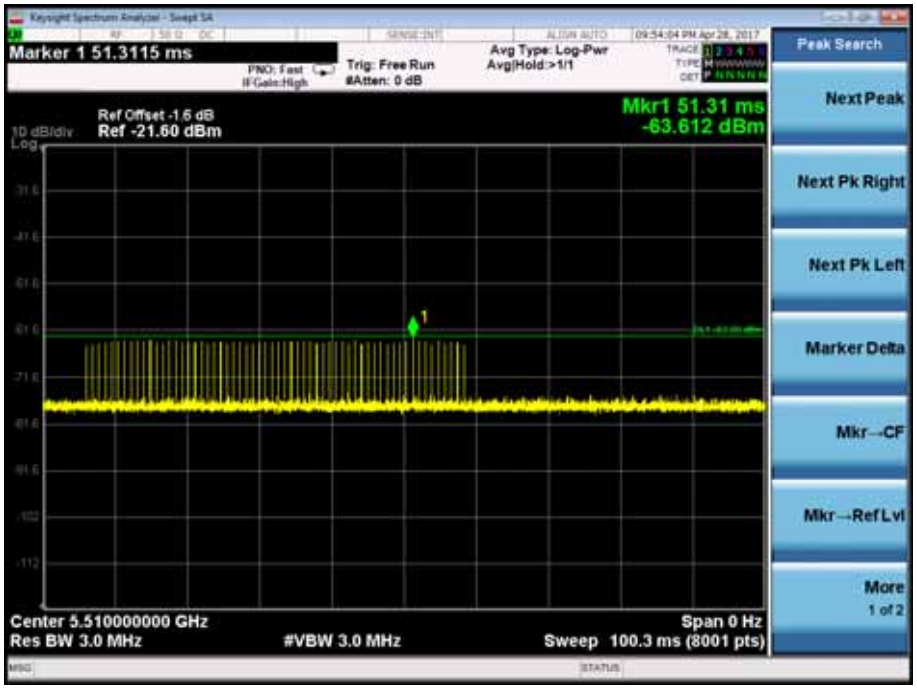
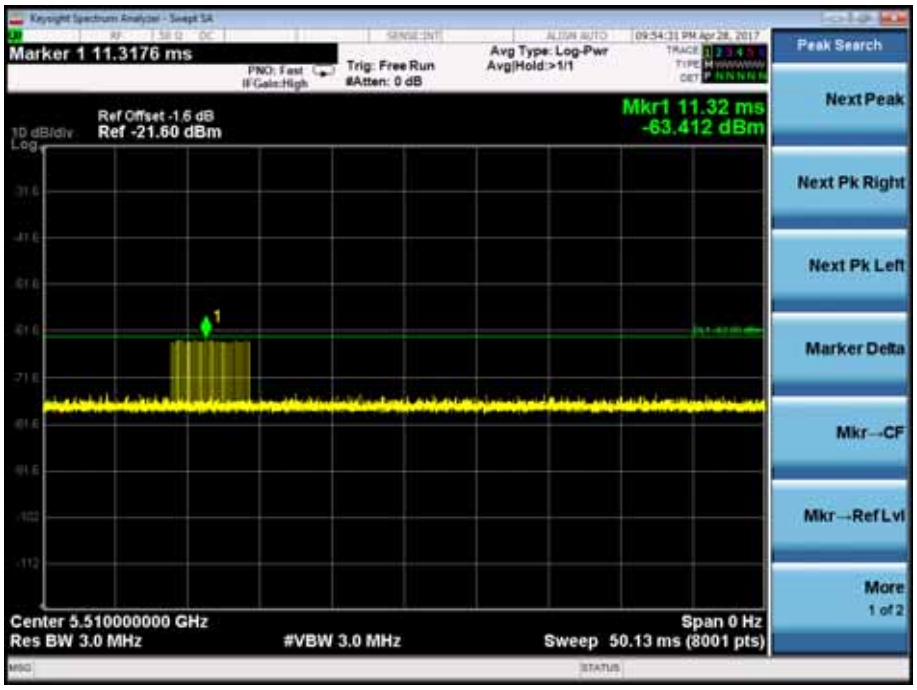
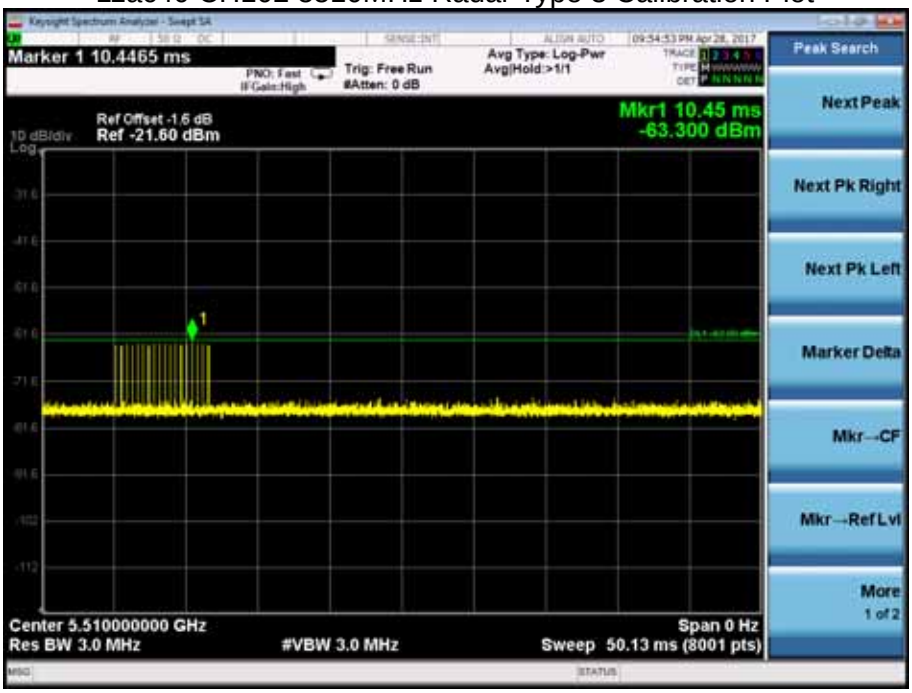


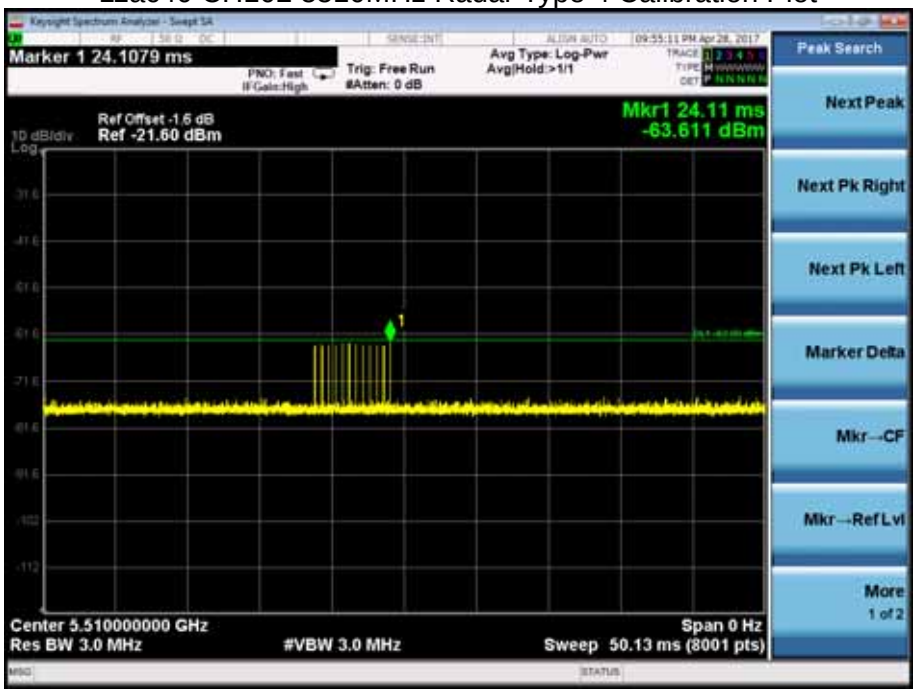
11ac40 CH102 5510MHz Radar Type 2 Calibration Plot



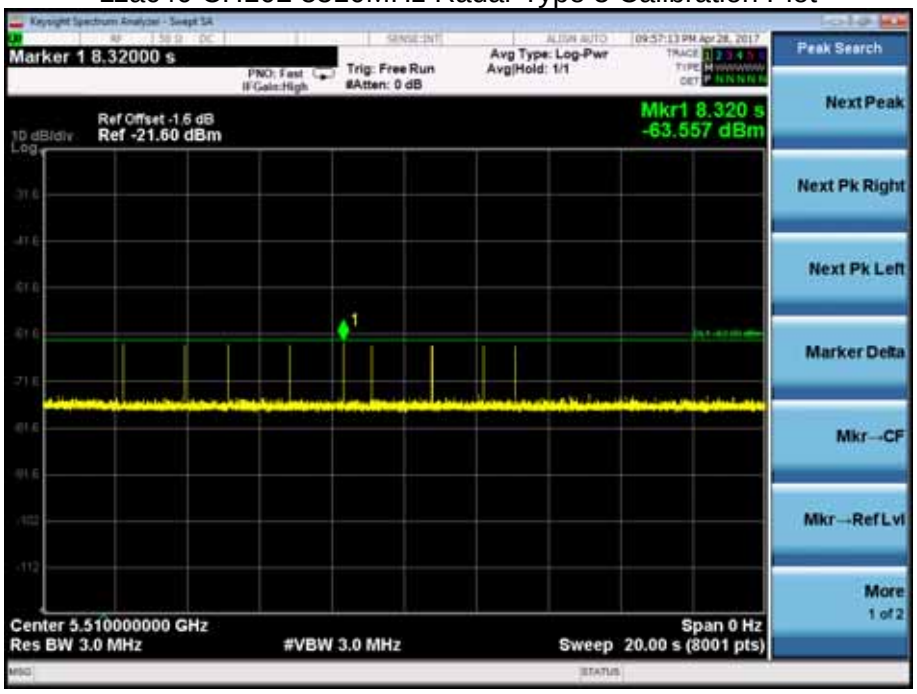
11ac40 CH102 5510MHz Radar Type 3 Calibration Plot



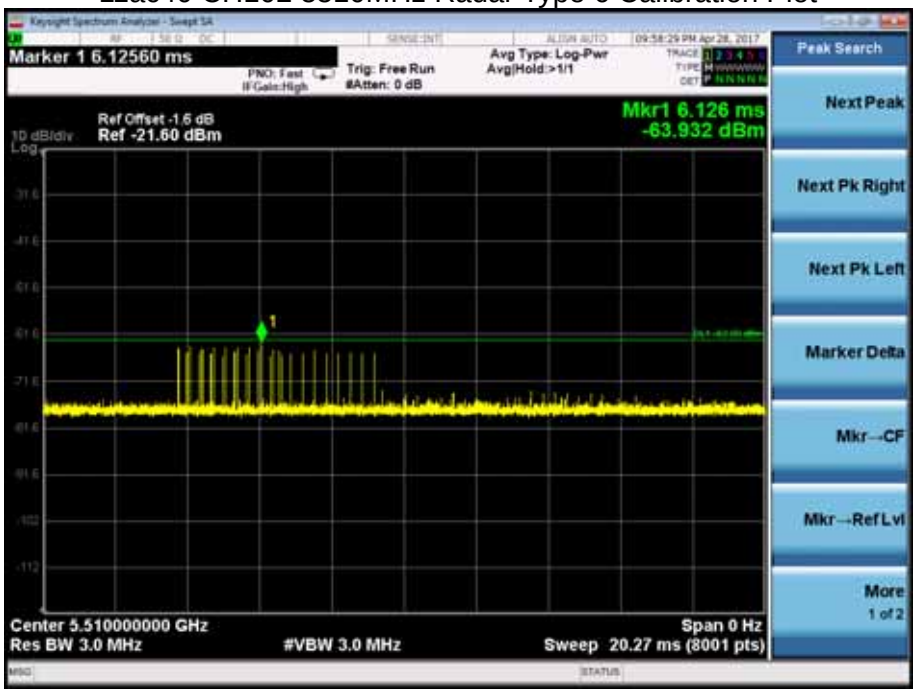
11ac40 CH102 5510MHz Radar Type 4 Calibration Plot



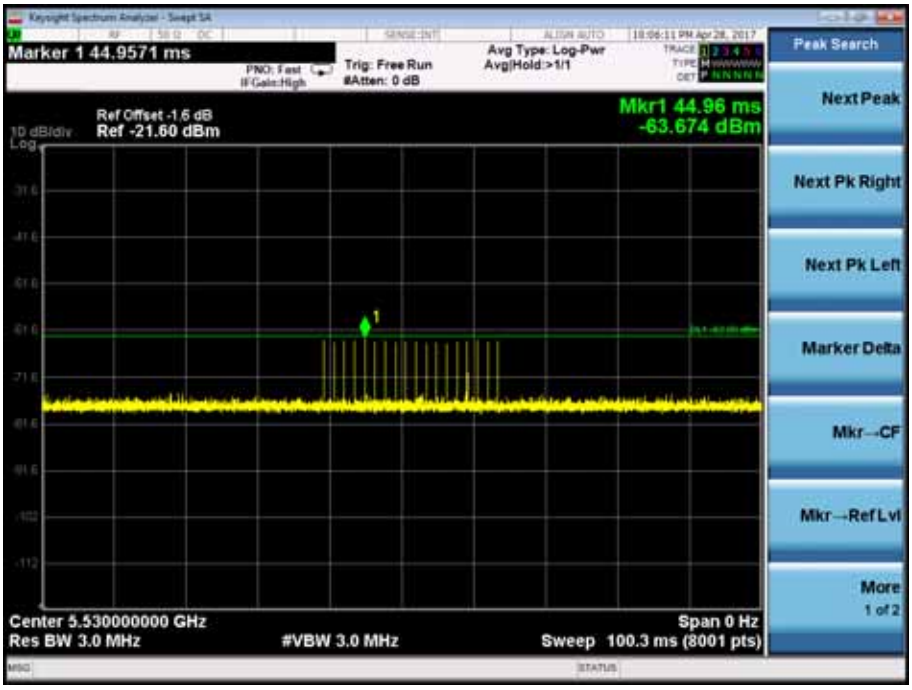
11ac40 CH102 5510MHz Radar Type 5 Calibration Plot



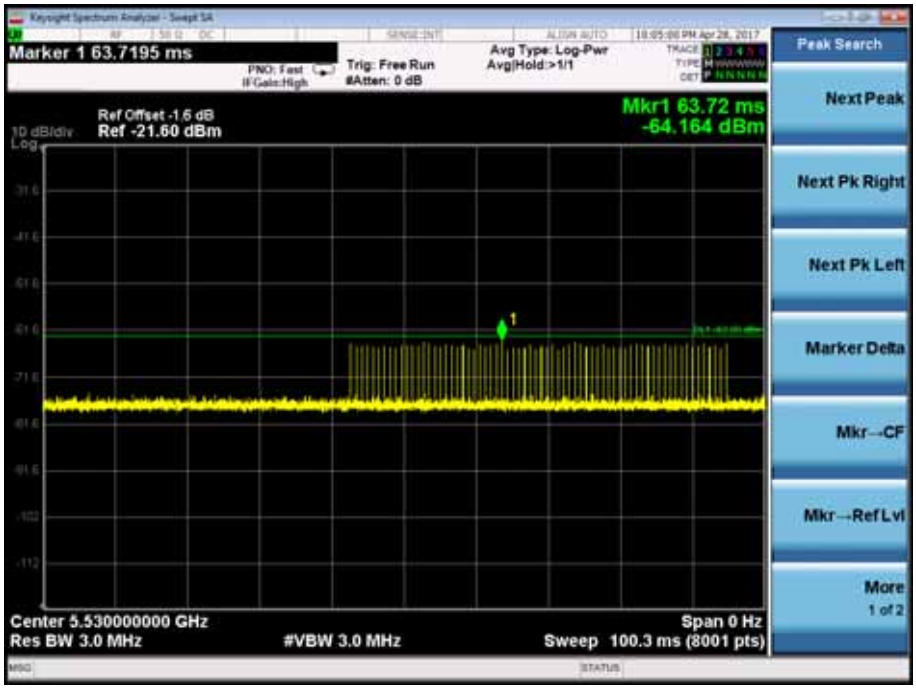
11ac40 CH102 5510MHz Radar Type 6 Calibration Plot



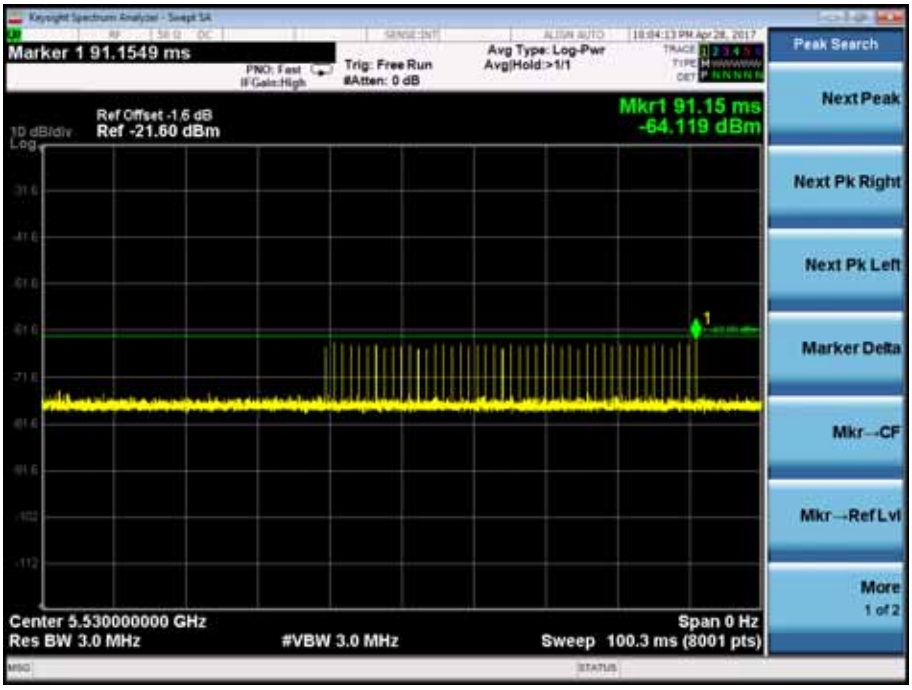
11ac80 CH106 5530MHz Radar Type 0 Calibration Plot



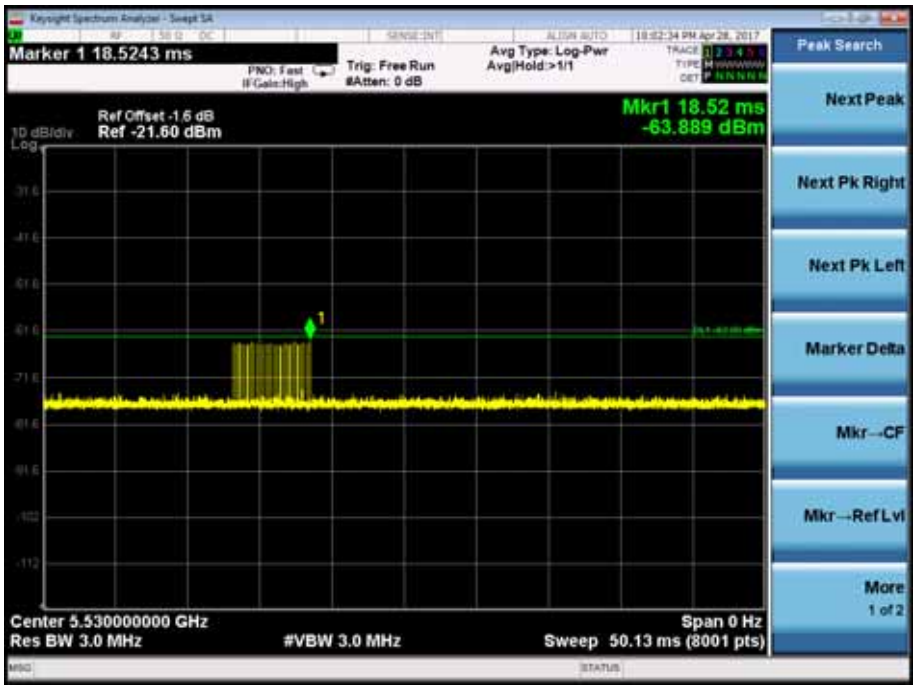
11ac80 CH106 5530MHz Radar Type 1A Calibration Plot



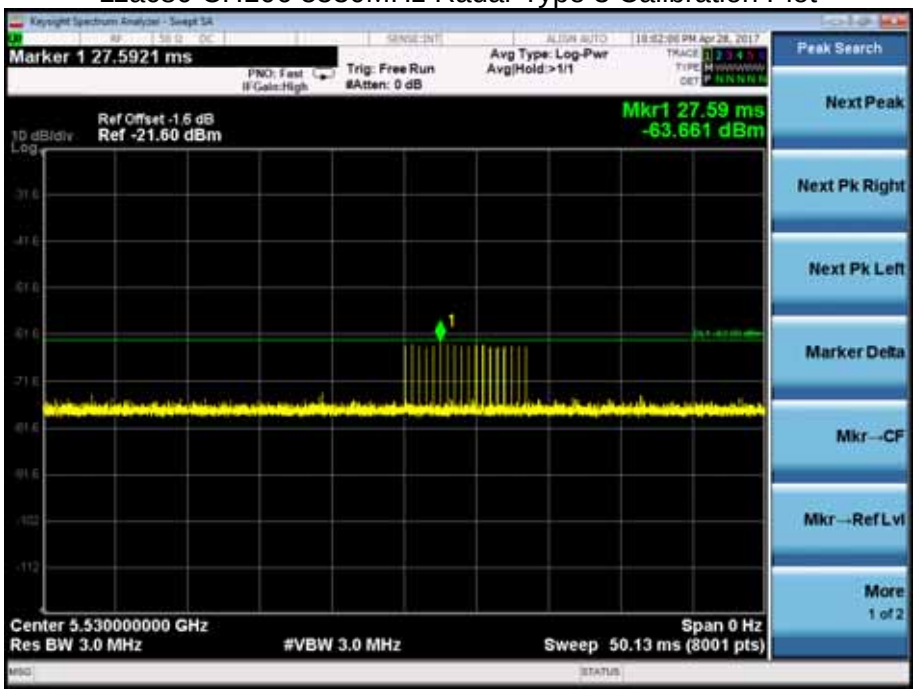
11ac80 CH106 5530MHz Radar Type 1B Calibration Plot



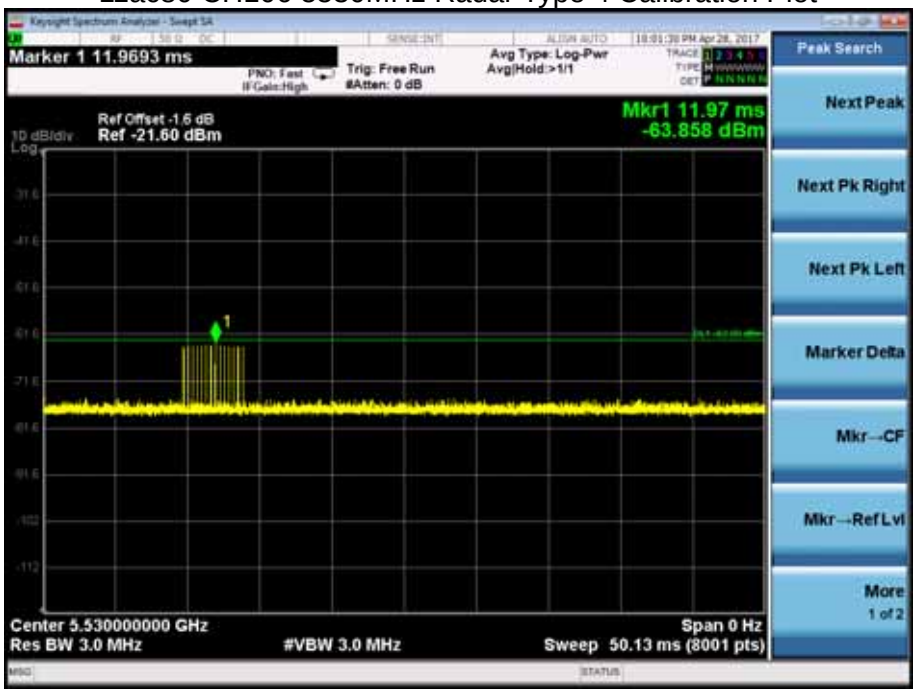
11ac80 CH106 5530MHz Radar Type 2 Calibration Plot



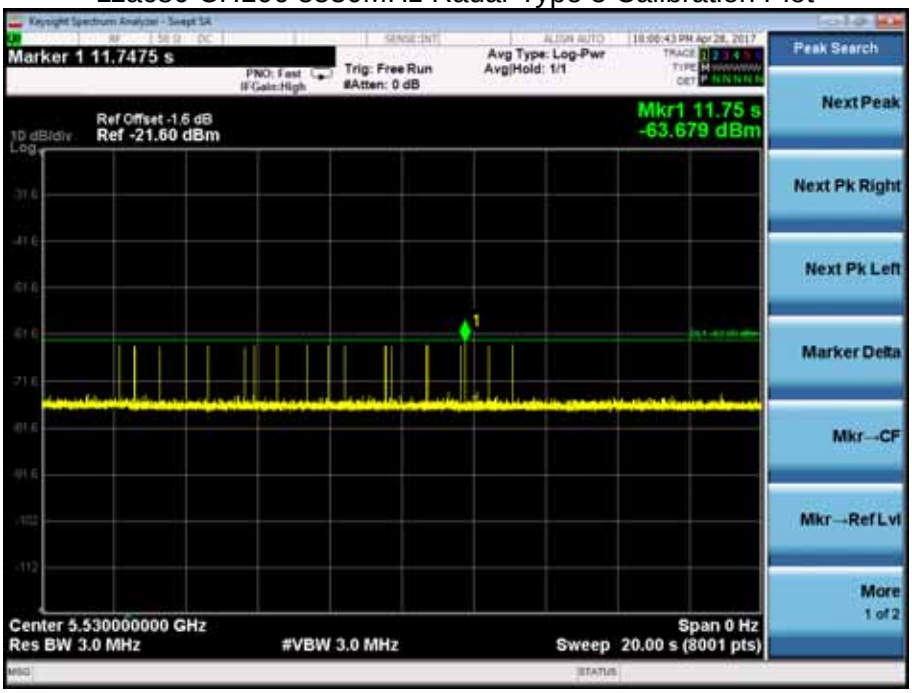
11ac80 CH106 5530MHz Radar Type 3 Calibration Plot



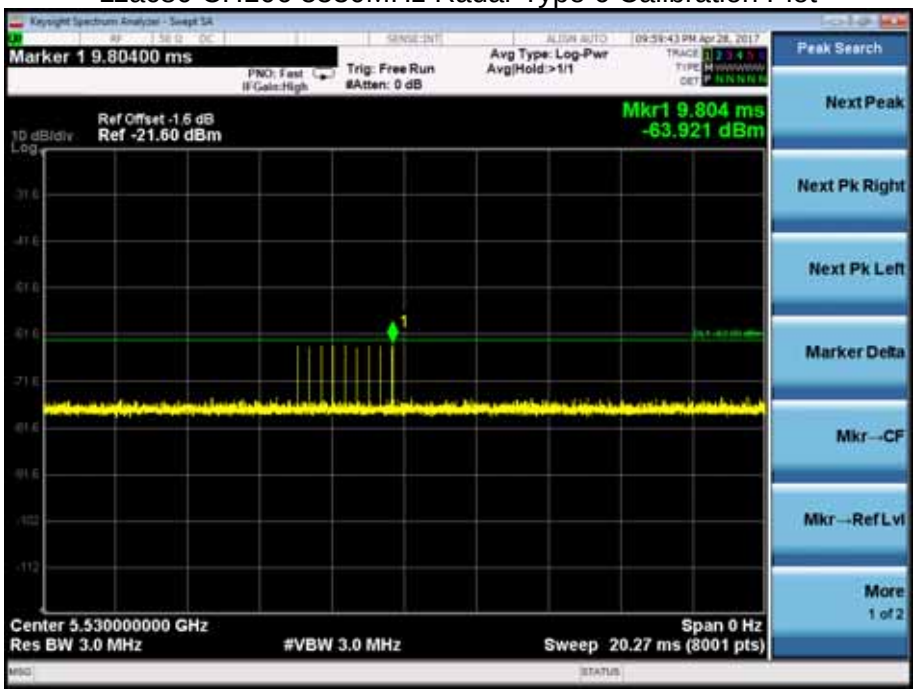
11ac80 CH106 5530MHz Radar Type 4 Calibration Plot



11ac80 CH106 5530MHz Radar Type 5 Calibration Plot



11ac80 CH106 5530MHz Radar Type 6 Calibration Plot



6. Channel Loading

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

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.

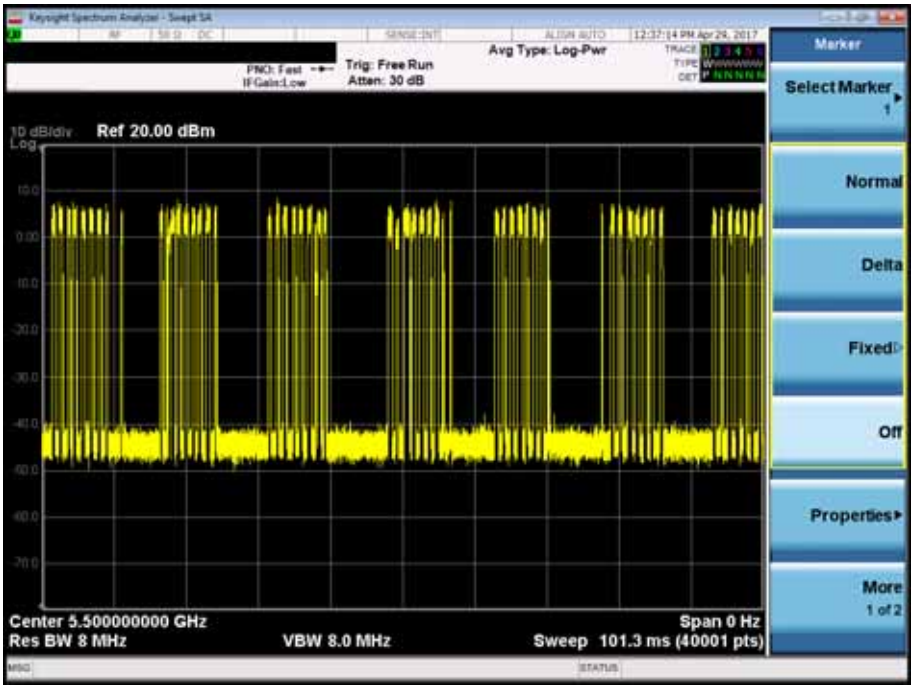
b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.

c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, you can zero span the spectrum analyzer and approximate the transmission time.

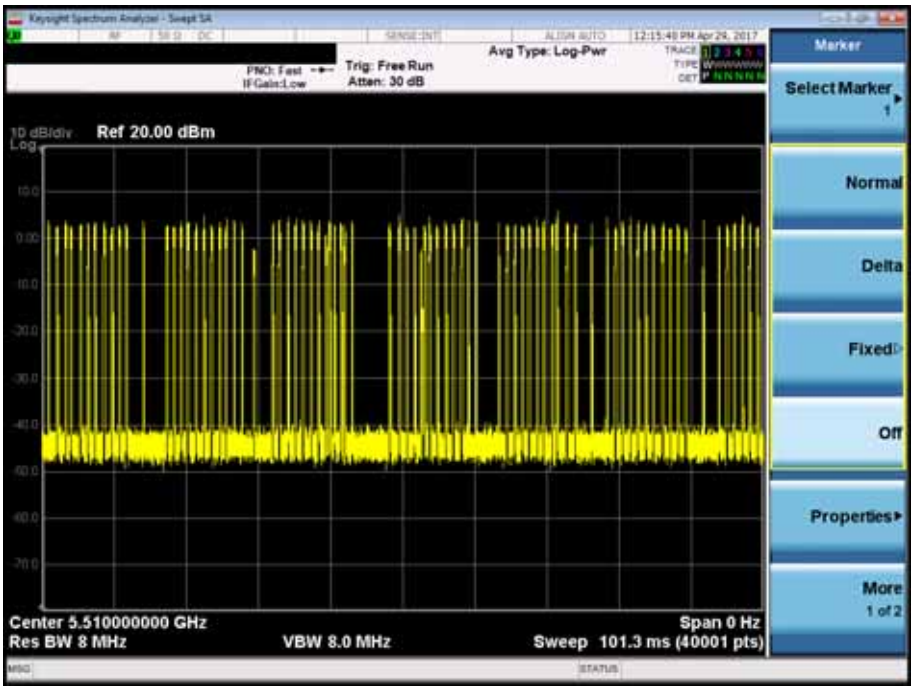
d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

APEX0365

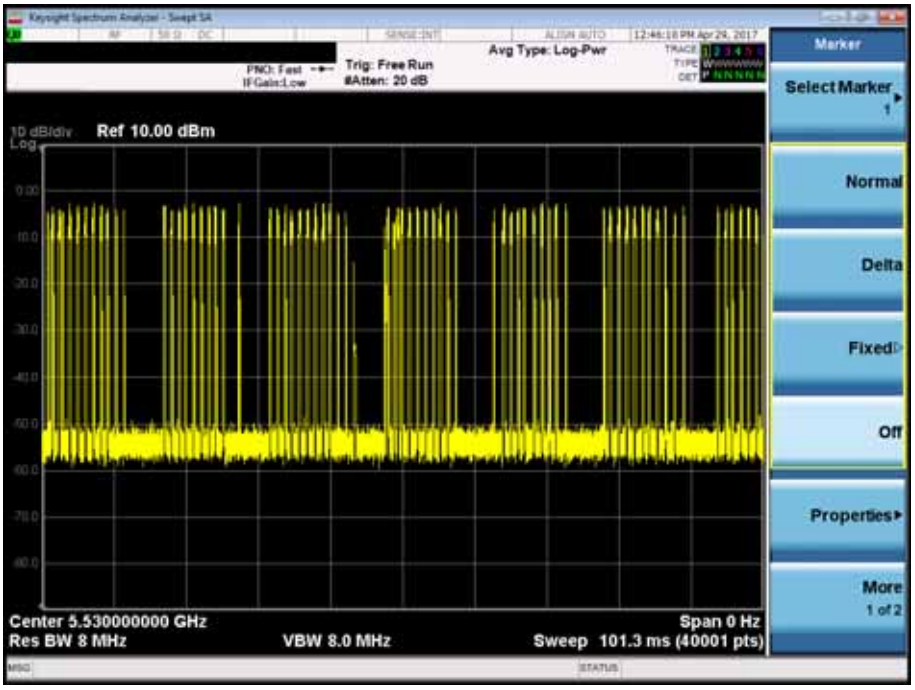
Channel Loading Plot - 802.11a-5500MHz



Channel Loading Plot - 802.11n-HT40 5510MHz



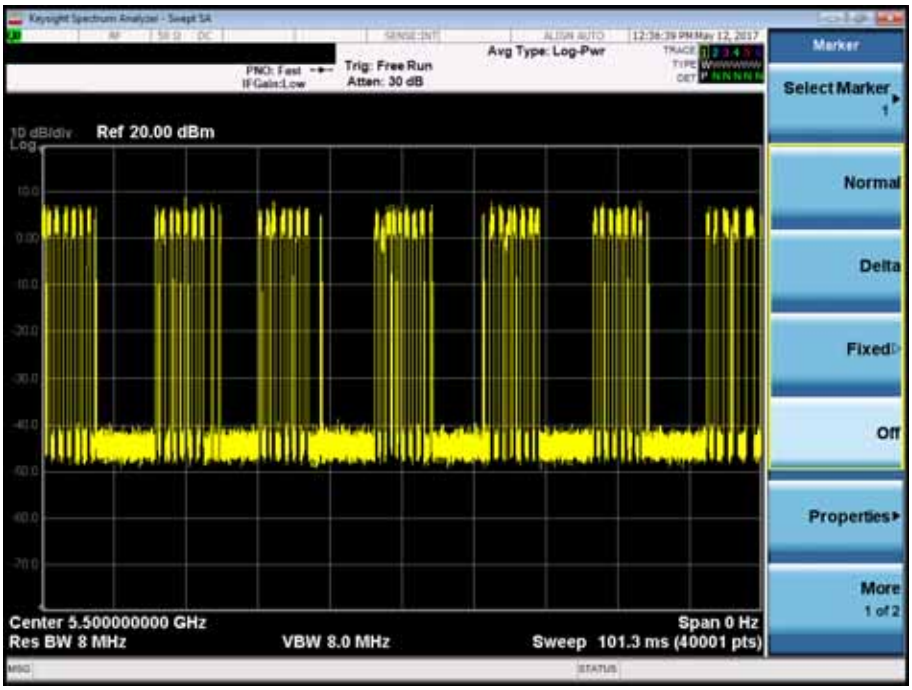
Channel Loading Plot - 802.11ac-VHT80 5530MHz



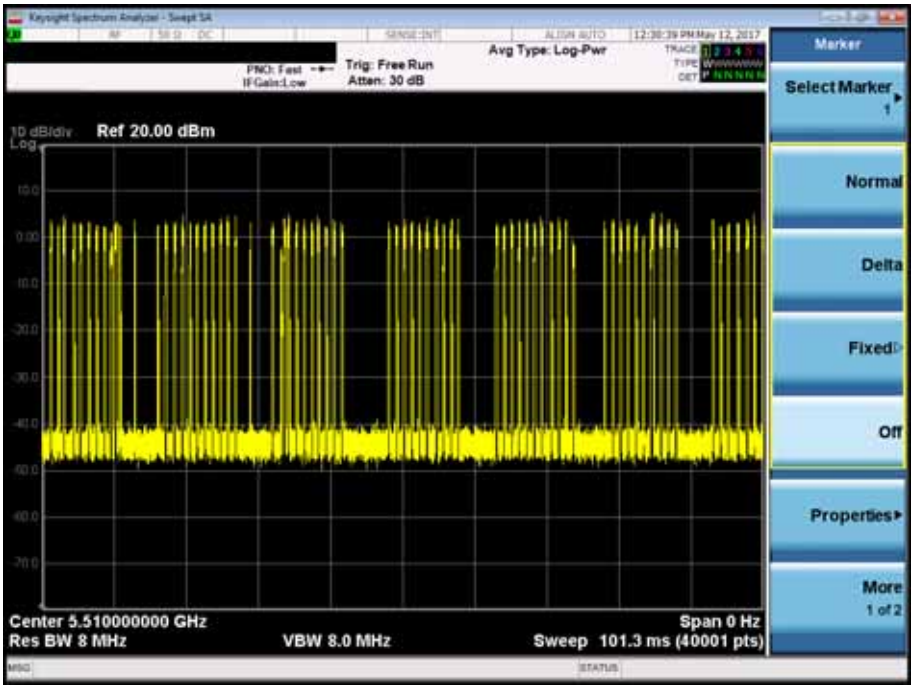
Test Mode	Packet ratio	Requirement ratio	Test Result
802.11a	29.63%	>17%	Pass
802.11n-HT40	22.14%	>17%	Pass
802.11ac-VHT80	19.98%	>17%	Pass

APEX0367

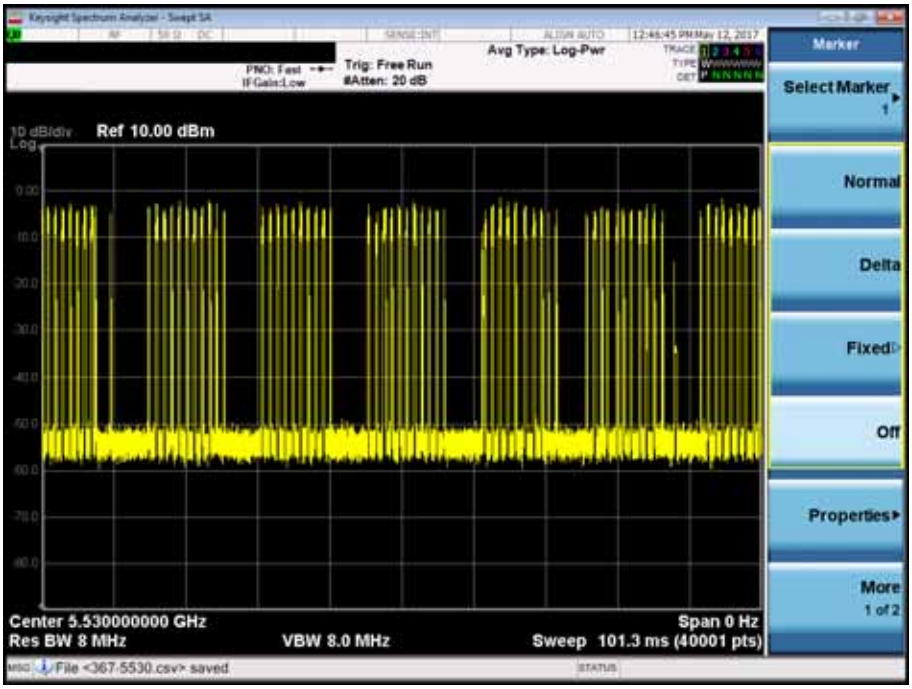
Channel Loading Plot - 802.11a-5500MHz



Channel Loading Plot - 802.11n-HT40 5510MHz



Channel Loading Plot - 802.11ac-VHT80 5530MHz



Test Mode	Packet ratio	Requirement ratio	Test Result
802.11a	28.25%	>17%	Pass
802.11n-HT40	21.22%	>17%	Pass
802.11ac-VHT80	18.85%	>17%	Pass

7. Test Procedures

7.1. U-NII Detection Bandwidth

Set up the generating equipment as shown in Figure 1, or equivalent. Set up the DFS timing monitoring equipment as shown in Figure 1. Set up the overall system for either radiated or conducted coupling to the UUT. Adjust the equipment to produce a single Burst of the Short Pulse Radar Type 1 at the center frequency of the UUT Operating Channel at the specified DFS Detection Threshold level.

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

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

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

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

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

7.2. Channel Availability Check

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

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

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

and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined by comparing the two times.

Radar Burst at the Beginning of the Channel Availability Check Time

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

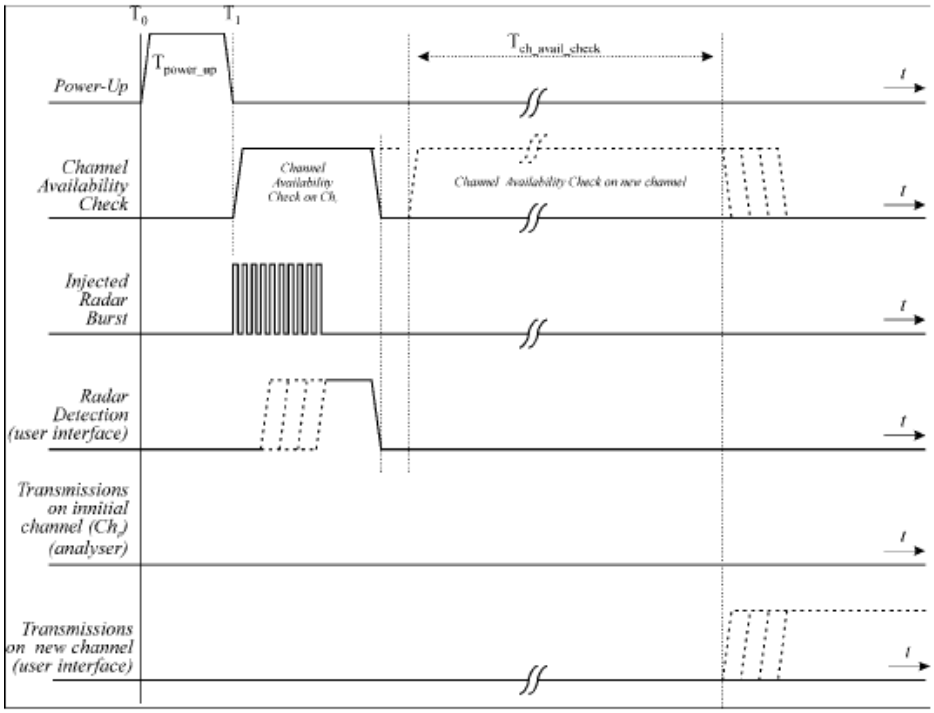
a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.

b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.

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

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

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



Radar Burst at the End of the Channel Availability Check Time

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

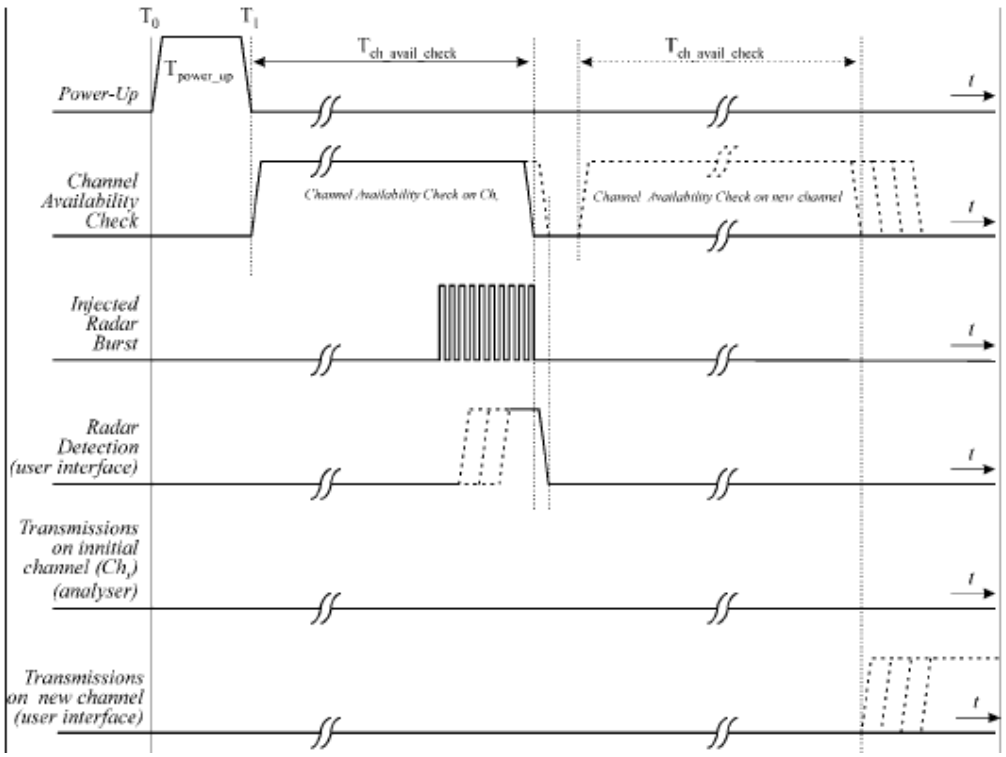
a) The Radar Waveform generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.

b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.

c) A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

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

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



7.3. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

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

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

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

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

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

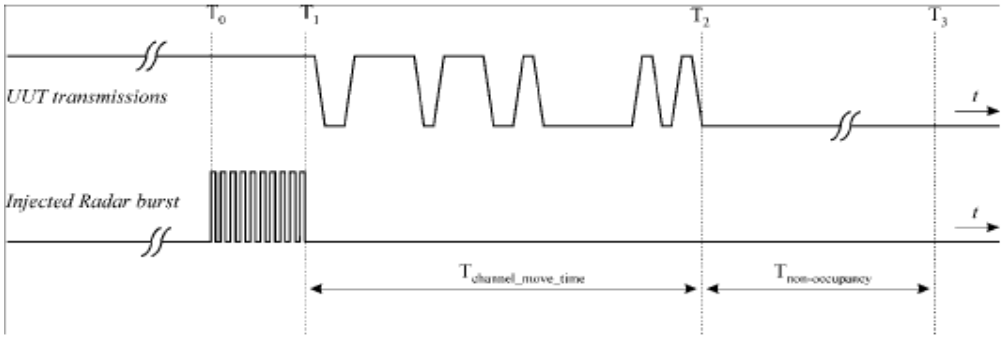
c) Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.

d) At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure shown below illustrates Channel Closing Transmission Time.

f) When operating as a Master Device, monitor the UUT for more than 30 minutes following instant T2 to verify that the UUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

g) In case the UUT is U-NII device operating as Client Device with In-Service Monitoring, perform steps a) to f).



7.4. Statistical Performance Check

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

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

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

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

d) At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels defined shown above, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs.

f) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

8. Test Result

8.1. Detection Bandwidth

APEX0365

20 MHz Signal Bandwidth											
EUT Frequency = 5500MHz											
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, Blank= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510 Fh	1	1	1	1	1	1	1	1	1	1	100%
5511	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5510MHz - 5490MHz = 20MHz											
EUT 99% Bandwidth = 16.453MHz											
16.453MHz × 80% =13.1624MHz											

40 MHz Signal Bandwidth											
EUT Frequency = 5510MHz											
Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%

5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530 Fh	1	1	1	1	1	1	1	1	1	1	100%
5531	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5530MHz - 5490MHz = 40MHz											
EUT 99% Bandwidth = 36.045MHz											
36.045MHz × 80% =28.836MHz											

80 MHz Signal Bandwidth											
EUT Frequency = 5530MHz											
Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%

5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5531	1	1	1	1	1	1	1	1	1	1	100%
5532	1	1	1	1	1	1	1	1	1	1	100%
5533	1	1	1	1	1	1	1	1	1	1	100%
5534	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5536	1	1	1	1	1	1	1	1	1	1	100%
5537	1	1	1	1	1	1	1	1	1	1	100%
5538	1	1	1	1	1	1	1	1	1	1	100%
5539	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5541	1	1	1	1	1	1	1	1	1	1	100%
5542	1	1	1	1	1	1	1	1	1	1	100%
5543	1	1	1	1	1	1	1	1	1	1	100%
5544	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5546	1	1	1	1	1	1	1	1	1	1	100%
5547	1	1	1	1	1	1	1	1	1	1	100%
5548	1	1	1	1	1	1	1	1	1	1	100%
5549	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5552	1	1	1	1	1	1	1	1	1	1	100%
5553	1	1	1	1	1	1	1	1	1	1	100%
5554	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5556	1	1	1	1	1	1	1	1	1	1	100%
5557	1	1	1	1	1	1	1	1	1	1	100%
5558	1	1	1	1	1	1	1	1	1	1	100%

5559	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5561	1	1	1	1	1	1	1	1	1	1	100%
5562	1	1	1	1	1	1	1	1	1	1	100%
5563	1	1	1	1	1	1	1	1	1	1	100%
5564	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5566	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569	1	1	1	1	1	1	1	1	1	1	100%
5570 Fh	1	1	1	1	1	1	1	1	1	1	100%
5571	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5570MHz - 5490MHz = 80MHz											
EUT 99% Bandwidth =75.878MHz											
75.878MHz × 80% =60.7024MHz											

APEX0367

20 MHz Signal Bandwidth											
EUT Frequency = 5500MHz											
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, Blank= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510 Fh	1	1	1	1	1	1	1	1	1	1	100%
5511	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5510MHz - 5490MHz = 20MHz											
EUT 99% Bandwidth = 16.483MHz											
16.483MHz × 80% =13.1864MHz											

40 MHz Signal Bandwidth											
EUT Frequency = 5510MHz											
Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%

5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530 Fh	1	1	1	1	1	1	1	1	1	1	100%
5531	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5530MHz - 5490MHz = 40MHz											
EUT 99% Bandwidth = 35.985MHz											
35.985MHz × 80% = 28.788MHz											

80 MHz Signal Bandwidth											
EUT Frequency = 5530MHz											
Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 Fl	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%

5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5531	1	1	1	1	1	1	1	1	1	1	100%
5532	1	1	1	1	1	1	1	1	1	1	100%
5533	1	1	1	1	1	1	1	1	1	1	100%
5534	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5536	1	1	1	1	1	1	1	1	1	1	100%
5537	1	1	1	1	1	1	1	1	1	1	100%
5538	1	1	1	1	1	1	1	1	1	1	100%
5539	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5541	1	1	1	1	1	1	1	1	1	1	100%
5542	1	1	1	1	1	1	1	1	1	1	100%
5543	1	1	1	1	1	1	1	1	1	1	100%
5544	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5546	1	1	1	1	1	1	1	1	1	1	100%
5547	1	1	1	1	1	1	1	1	1	1	100%
5548	1	1	1	1	1	1	1	1	1	1	100%
5549	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5552	1	1	1	1	1	1	1	1	1	1	100%
5553	1	1	1	1	1	1	1	1	1	1	100%
5554	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5556	1	1	1	1	1	1	1	1	1	1	100%
5557	1	1	1	1	1	1	1	1	1	1	100%
5558	1	1	1	1	1	1	1	1	1	1	100%

5559	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5561	1	1	1	1	1	1	1	1	1	1	100%
5562	1	1	1	1	1	1	1	1	1	1	100%
5563	1	1	1	1	1	1	1	1	1	1	100%
5564	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5566	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569	1	1	1	1	1	1	1	1	1	1	100%
5570 Fh	1	1	1	1	1	1	1	1	1	1	100%
5571	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = Fh-Fl = 5570MHz - 5490MHz = 80MHz											
EUT 99% Bandwidth = 75.800MHz											
75.800MHz × 80% = 60.64MHz											

8.2. Channel Available Check

The following results reflect both 20 MHz, 40 MHz and 80 MHz Channel Bandwidth operation.

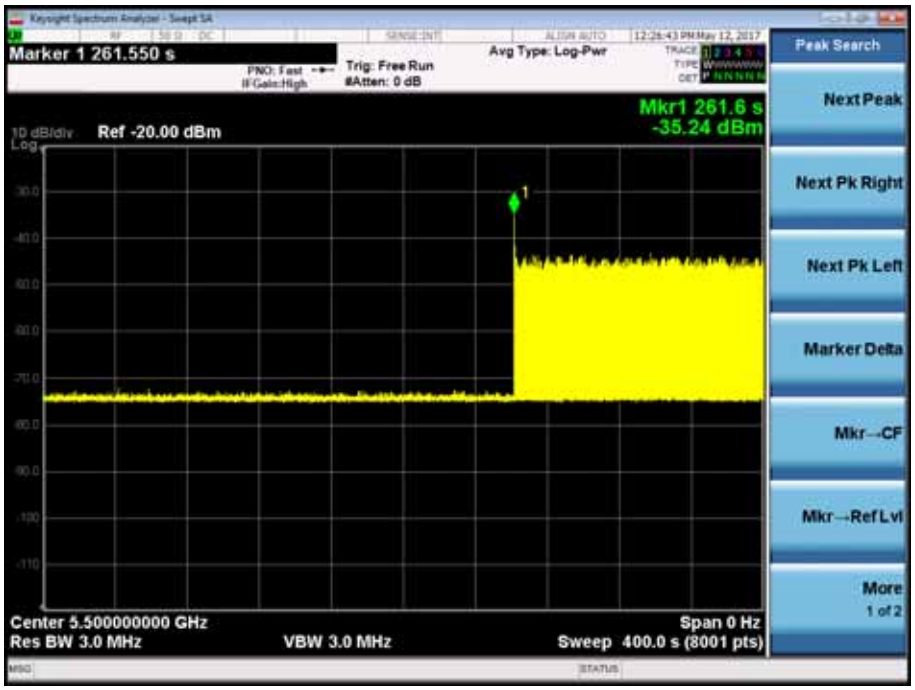
Initial Channel Availability Check Time

APEX0365

11a CH100 5500MHz

APEX0367

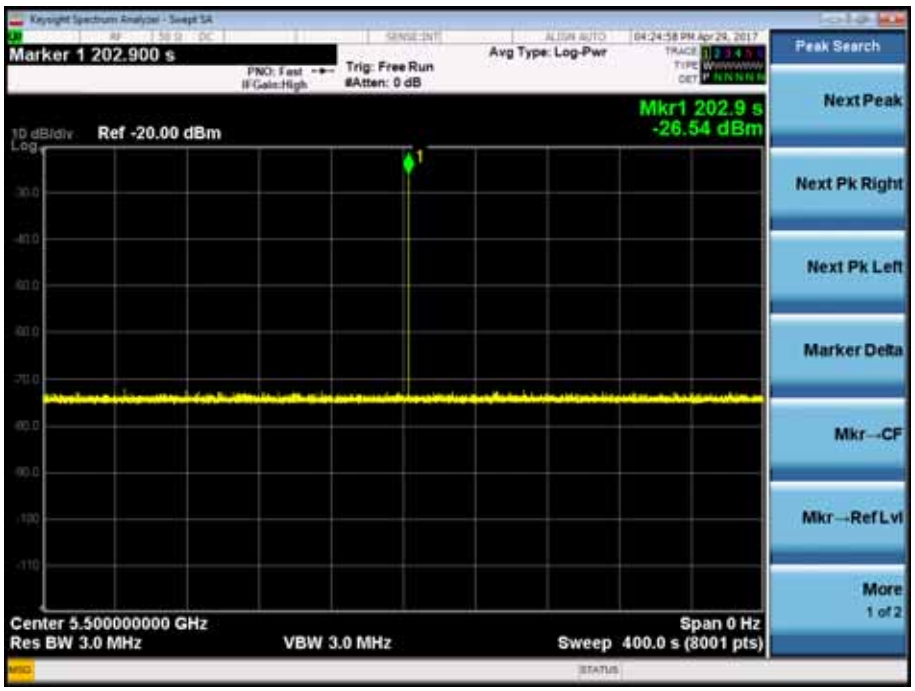
11a CH100 5500MHz



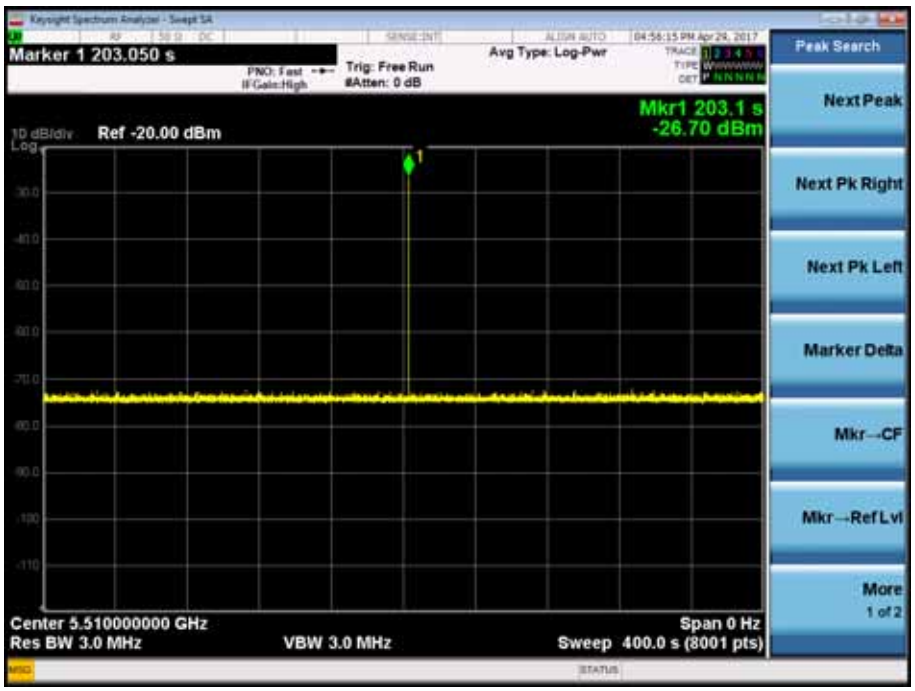
8.2.1. Test result with a radar burst at the beginning of the Channel Availability Check Time

APEX0365

11a CH 100 5500MHz



11n40MHz CH 102 5510MHz



11ac80MHz CH 106 5530MHz

APEX0367

11a CH 100 5500MHz

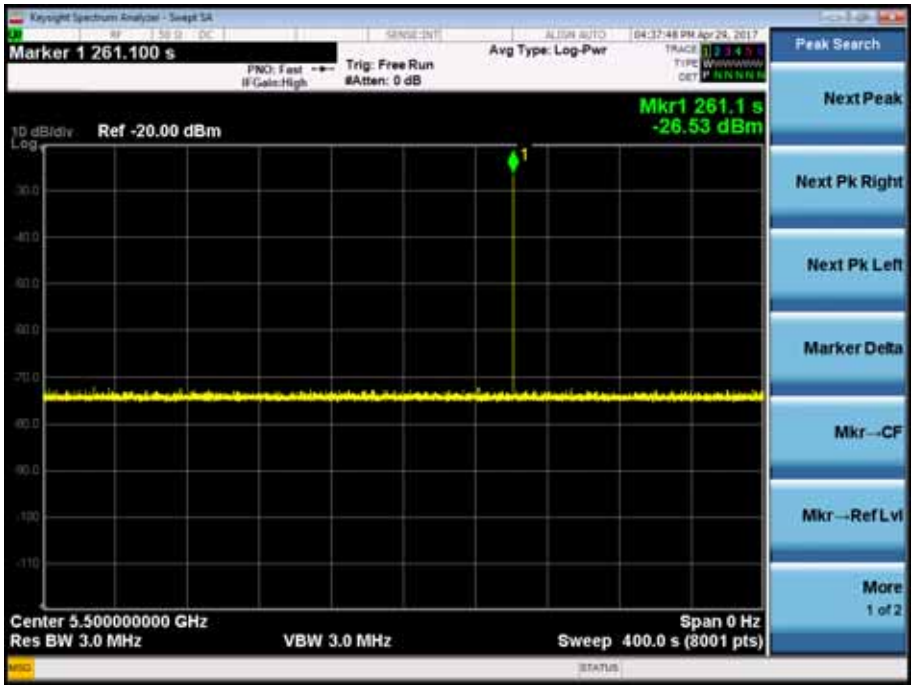
11n40MHz CH 102 5510MHz

11ac80MHz CH 106 5530MHz

8.2.2. Test result with radar burst at the end of the Channel Availability Check Time

APEX0365

11a CH 100 5500MHz

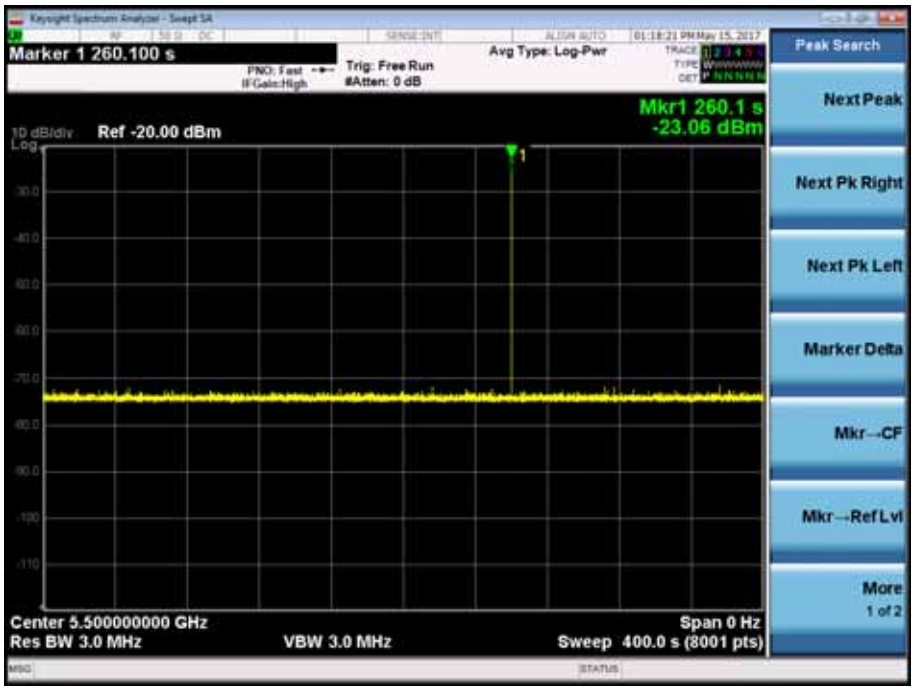


11n40MHz CH 102 5510MHz

11ac80MHz CH 106 5530MHz

APEX0367

11a CH 100 5500MHz



11n40MHz CH 102 5510MHz

11ac80MHz CH 106 5530MHz

Test Item	Limit	Results
Channel Availability Check Time	60 s	Pass

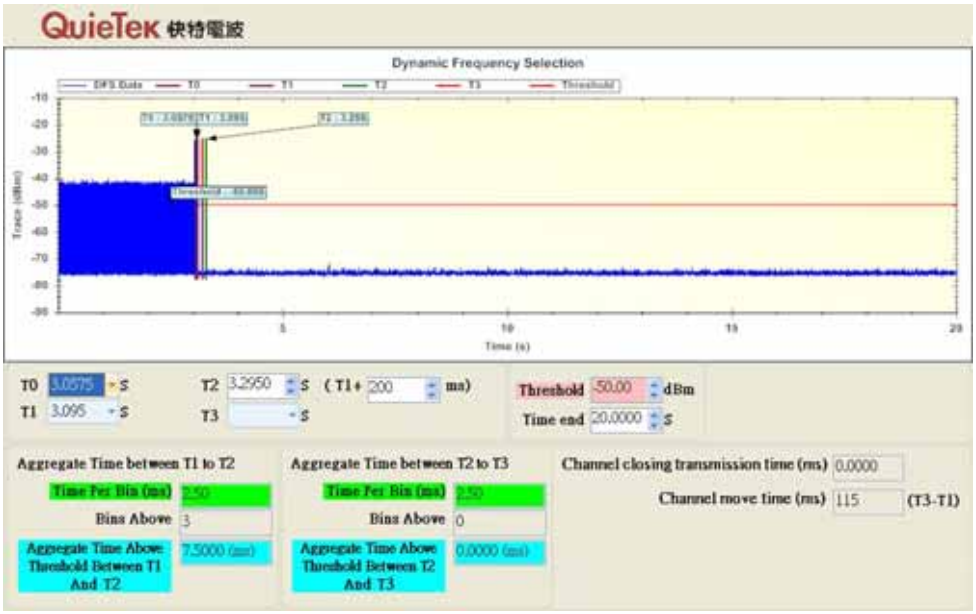
8.3. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

The following results reflect both 20 MHz, 40 MHz and 80 MHz Channel Bandwidth operation.

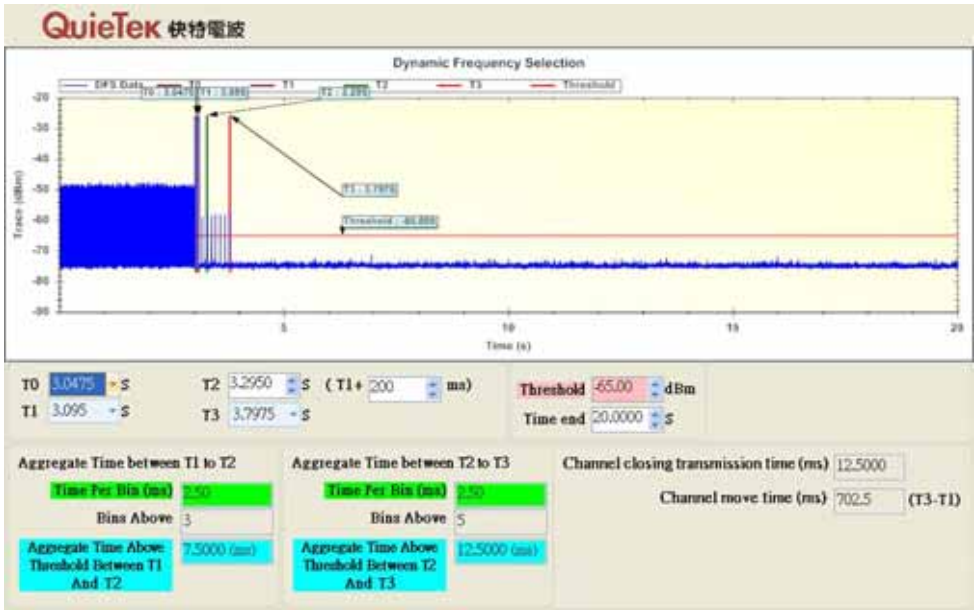
8.3.1. Channel Move Time and Closing Transmission Time

APEX0365

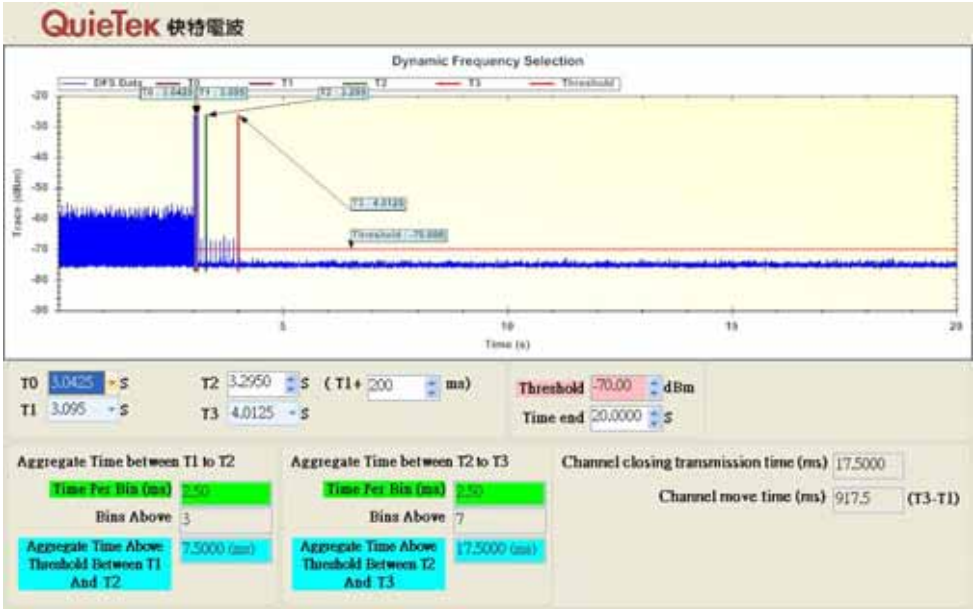
11a CH 100 5500MHz



11n40MHz CH102 5510MHz

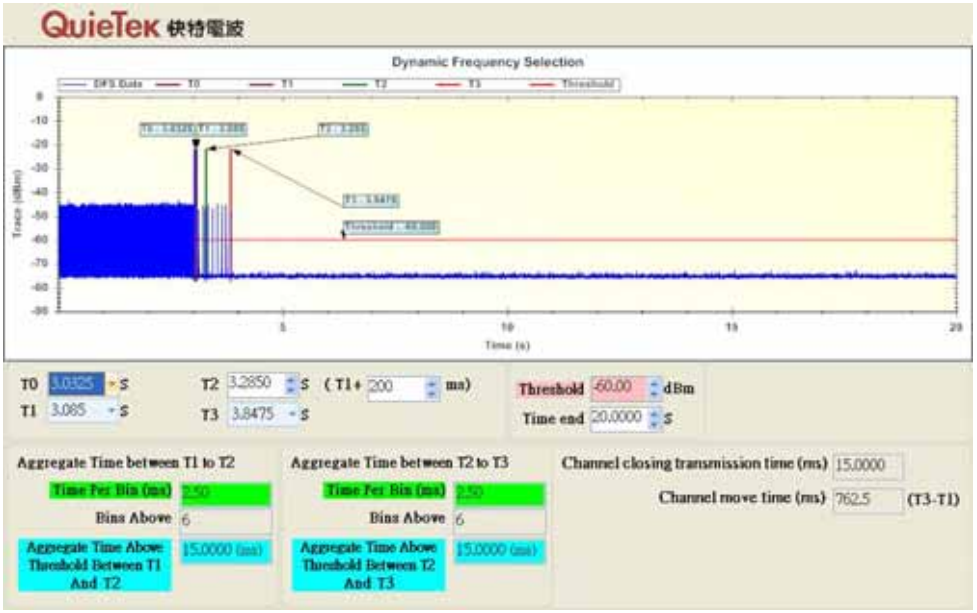


11n80MHz CH106 5530MHz

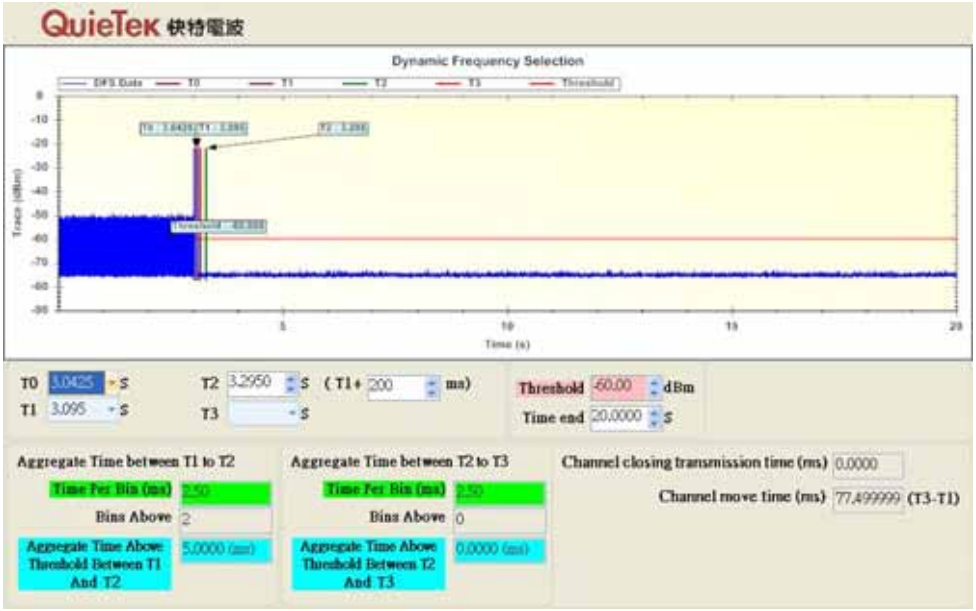


APEX0367

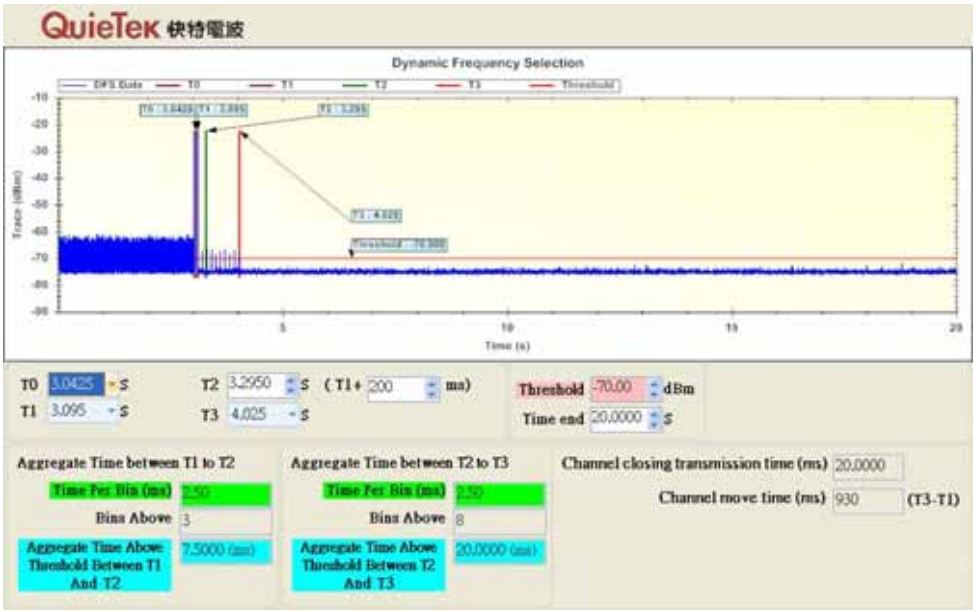
11a CH 100 5500MHz



11n40MHz CH102 5510MHz



11n80MHz CH106 5530MHz



Test Item	Limit	Results
Channel Move Time	10 s	Pass
Channel Closing Transmission Time	200ms + an aggregate of 60ms over remaining 10 second period.	Pass

8.3.2. Non-Occupancy Period

30 Minute Non-Occupancy Period

APEX0365

11a CH100 5500MHz

11n40MHz CH102 5510MHz

11n80MHz CH106 5530MHz

APEX0367

11a CH100 5500MHz

11n40MHz CH102 5510MHz

11n80MHz CH106 5530MHz

Test Item	Limit	Results
Non-Occupancy Period	30 minutes	Pass

8.4. Statistical Performance Check

A U-NII device operating as a Client Device associates with the UUT (Master) at 5500 MHz&5510MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. The device can also utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

The Radar Waveform generator sends the individual waveform for each of radar type 1~6 with a level equal to the DFS detection threshold level + 1dB (-63dBm).

The following results reflect both 20 MHz, 40 MHz and 80MH Channel Bandwidth operation.

APEX0365

11a CH100 5500MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	1	758	70	1
2	5501	1	878	61	1
3	5502	1	578	92	1
4	5503	1	778	68	1
5	5504	1	638	83	1
6	5505	1	658	81	1
7	5506	1	558	95	1
8	5507	1	598	89	1
9	5508	1	838	63	1
10	5509	1	518	102	1
11	5490	1	718	74	1
12	5492	1	818	65	1
13	5493	1	738	72	1
14	5494	1	678	78	1
15	5495	1	698	76	1
16	5496	1	1394	38	1
17	5497	1	2807	19	1
18	5498	1	1711	31	1
19	5499	1	2281	24	1
20	5500	1	2398	23	1
21	5501	1	3064	18	1
22	5502	1	1329	40	1
23	5503	1	2455	22	1
24	5504	1	2420	22	
25	5505	1	1431	37	1
26	5506	1	807	66	1
27	5507	1	766	69	1
28	5508	1	2093	26	1
29	5509	1	1235	43	1
30	5500	1	917	58	1
	Detection Percentage				96.67% (>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	3.700000048	206	29	1
2	5501	4.5	167	28	1
3	5502	2.900000095	202	28	1
4	5503	2.900000095	224	26	1
5	5504	2.400000095	209	24	1
6	5505	2.200000048	181	27	1
7	5506	3	164	23	1
8	5507	1.899999976	215	29	1
9	5508	2.100000143	188	23	1
10	5509	1.5	203	25	1
11	5491	2.799999952	195	23	1
12	5492	2.900000095	219	24	1
13	5493	3.600000143	227	27	1
14	5494	2.700000048	174	25	1
15	5495	1.200000048	167	25	1
16	5496	4.5	172	29	1
17	5497	1.399999976	209	27	1
18	5498	3.5	180	23	
19	5499	1.800000072	197	27	1
20	5501	2.900000095	204	23	1
21	5502	2	189	26	
22	5503	1.899999976	193	25	1
23	5504	3.299999952	197	23	1
24	5505	1.100000024	225	29	1
25	5506	3.700000048	214	27	1
26	5507	5	230	26	
27	5508	2.700000048	168	25	1
28	5509	1.700000048	216	25	1
29	5500	3.5	154	25	
30	5500	1.200000048	179	25	1
	Detection Percentage				86.67% (>60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	8.5	387	17	1
2	5501	7.800000191	435	17	1
3	5502	9.400000572	422	16	1
4	5503	8.199999809	270	17	1
5	5504	10	409	17	1
6	5505	6.700000286	432	18	1
7	5506	6	326	17	1
8	5507	6.400000095	259	17	1
9	5508	8.300000191	466	17	1
10	5509	9.800000191	371	16	
11	5491	9.400000572	467	17	1
12	5492	9.900000572	499	18	1
13	5493	6.700000286	402	17	1
14	5494	8.5	378	17	1
15	5495	9.900000572	276	18	1
16	5496	6.800000191	495	17	1
17	5497	9.300000191	378	16	1
18	5498	7.300000191	264	18	1
19	5499	6	392	16	1
20	5501	9.800000191	333	17	1
21	5502	10	374	17	1
22	5503	7.800000191	478	16	
23	5504	9.900000572	472	17	1
24	5505	8.300000191	258	16	1
25	5506	7.5	381	17	1
26	5507	6.700000286	309	17	1
27	5508	9.900000572	286	18	
28	5509	6.099999905	342	16	
29	5500	9.699999809	490	18	1
30	5500	6.099999905	313	17	1
	Detection Percentage				86.67% (>60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	11.69999981	470	12	1
2	5501	17.10000038	483	14	
3	5502	11.60000038	401	13	1
4	5503	18.5	261	13	1
5	5504	11.30000019	412	15	1
6	5505	18.5	439	16	1
7	5506	14.19999981	405	13	1
8	5507	18.60000038	433	16	1
9	5508	12.69999981	290	16	1
10	5509	11.40000057	253	12	
11	5491	17.20000076	403	12	1
12	5492	18.89999962	292	15	1
13	5493	11.5	455	16	
14	5494	11.30000019	429	16	1
15	5495	12.80000019	286	12	1
16	5496	16.60000038	307	13	1
17	5497	16.60000038	301	13	1
18	5498	14.40000057	430	14	1
19	5499	18.5	382	13	1
20	5501	17.39999962	265	12	1
21	5502	16	368	12	1
22	5503	16.20000076	446	13	1
23	5504	19.60000038	345	16	1
24	5505	14.90000057	268	13	1
25	5506	16.30000114	447	15	1
26	5507	12	343	15	1
27	5508	15.80000019	422	15	1
28	5509	19.89999962	494	15	1
29	5500	12.10000038	261	12	
30	5500	14.10000038	439	12	1
	Detection Percentage				86.67% (>60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$ = (96.67%+86.67%+86.67%+86.67%)/4 = 89.17% (>80%)

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8000000	12.0000000	5.500000000	1
1	Type 5	8	1.5000000	12.0000000	5.500000000	1
2	Type 5	11	1.0909091	12.0000000	5.500000000	1
3	Type 5	20	0.6000000	12.0000000	5.500000000	1
4	Type 5	17	0.7058824	12.0000000	5.500000000	1
5	Type 5	14	0.8571429	12.0000000	5.500000000	1
6	Type 5	15	0.8000000	12.0000000	5.500000000	1
7	Type 5	12	1.0000000	12.0000000	5.500000000	1
8	Type 5	14	0.8571429	12.0000000	5.500000000	1
9	Type 5	8	1.5000000	12.0000000	5.500000000	1
10	Type 5	17	0.7058824	12.0000000	5.503900000	1
11	Type 5	19	0.6315789	12.0000000	5.505100000	1
12	Type 5	15	0.8000000	12.0000000	5.502700000	1
13	Type 5	12	1.0000000	12.0000000	5.501500000	1
14	Type 5	19	0.6315789	12.0000000	5.504700000	1
15	Type 5	14	0.8571429	12.0000000	5.502300000	1
16	Type 5	20	0.6000000	12.0000000	5.505500000	1
17	Type 5	12	1.0000000	12.0000000	5.501500000	1
18	Type 5	14	0.8571429	12.0000000	5.502300000	1
19	Type 5	12	1.0000000	12.0000000	5.501500000	1
20	Type 5	16	0.7500000	12.0000000	5.496500000	1
21	Type 5	12	1.0000000	12.0000000	5.498900000	1
22	Type 5	20	0.6000000	12.0000000	5.494500000	1
23	Type 5	14	0.8571429	12.0000000	5.497700000	
24	Type 5	13	0.9230769	12.0000000	5.498100000	1
25	Type 5	8	1.5000000	12.0000000	5.500500000	1
26	Type 5	17	0.7058824	12.0000000	5.496100000	
27	Type 5	19	0.6315789	12.0000000	5.494900000	1
28	Type 5	12	1.0000000	12.0000000	5.498500000	
29	Type 5	18	0.6666667	12.0000000	5.495700000	
		Detection Percentage				86.67% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	1
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	1
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		96.67 % (>70 %)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-03-2017 14:17:28)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	13	5501	***Yes***	0.333	300
1	24	5529	***Yes***	0.333	300
1	29	5509	***Yes***	0.333	300
1	36	5526	***Yes***	0.333	300
1	40	5527	***Yes***	0.333	300
1	59	5471	***Yes***	0.333	300
1	60	5525	***Yes***	0.333	300
1	71	5472	***Yes***	0.333	300
1	72	5504	***Yes***	0.333	300
1	73	5520	***Yes***	0.333	300
1	76	5518	***Yes***	0.333	300
1	91	5475	***Yes***	0.333	300
1	92	5517	***Yes***	0.333	300
1	93	5490	***Yes***	0.333	300
1	99	5523	***Yes***	0.333	300

****

Type 6 Radar Waveform_2.txt

Random DFS waveform parameters (Radar Type 6) in 2 Trail(05-03-2017 14:18:06)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	5	5490	***Yes***	0.333	300
2	8	5484	***Yes***	0.333	300
2	21	5495	***Yes***	0.333	300
2	25	5493	***Yes***	0.333	300
2	26	5508	***Yes***	0.333	300
2	27	5491	***Yes***	0.333	300
2	36	5497	***Yes***	0.333	300
2	38	5473	***Yes***	0.333	300
2	44	5489	***Yes***	0.333	300
2	45	5531	***Yes***	0.333	300
2	51	5504	***Yes***	0.333	300
2	70	5474	***Yes***	0.333	300
2	75	5507	***Yes***	0.333	300
2	76	5492	***Yes***	0.333	300
2	77	5520	***Yes***	0.333	300
2	78	5496	***Yes***	0.333	300
2	80	5499	***Yes***	0.333	300
2	91	5519	***Yes***	0.333	300

****

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-03-2017 14:23:10)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	3	5476	***Yes***	0.333	300
3	23	5474	***Yes***	0.333	300
3	25	5498	***Yes***	0.333	300
3	30	5489	***Yes***	0.333	300
3	33	5509	***Yes***	0.333	300
3	78	5486	***Yes***	0.333	300
3	80	5532	***Yes***	0.333	300
3	89	5504	***Yes***	0.333	300

****

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail(05-03-2017 14:23:35)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
4	4	5509	***Yes***	0.333	300
4	9	5514	***Yes***	0.333	300
4	19	5482	***Yes***	0.333	300
4	33	5506	***Yes***	0.333	300
4	35	5498	***Yes***	0.333	300
4	45	5501	***Yes***	0.333	300
4	48	5494	***Yes***	0.333	300
4	49	5532	***Yes***	0.333	300
4	50	5473	***Yes***	0.333	300
4	65	5516	***Yes***	0.333	300
4	73	5487	***Yes***	0.333	300
4	84	5511	***Yes***	0.333	300

****

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail(05-03-2017 14:23:59)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
5	4	5485	***Yes***	0.333	
300 5	16	5486	***Yes***	0.333	
300 5	17	5519	***Yes***	0.333	
300 5	29	5475	***Yes***	0.333	
300 5	33	5512	***Yes***	0.333	
300 5	42	5500	***Yes***	0.333	
300 5	52	5530	***Yes***	0.333	
300 5	60	5524	***Yes***	0.333	

300**********
****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail(05-03-2017 14:25:13)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
6	1	5531	***Yes***	0.333	300
6	6	5511	***Yes***	0.333	300
6	9	5524	***Yes***	0.333	300
6	47	5488	***Yes***	0.333	300
6	60	5528	***Yes***	0.333	300
6	61	5510	***Yes***	0.333	300
6	66	5533	***Yes***	0.333	300
6	69	5502	***Yes***	0.333	300
6	73	5491	***Yes***	0.333	300
6	78	5534	***Yes***	0.333	300
6	90	5503	***Yes***	0.333	300
6	96	5480	***Yes***	0.333	300

****
****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail (05-03-2017 14:26:36)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
7	5	5516	***Yes***	0.333	300
7	38	5532	***Yes***	0.333	300
7	51	5491	***Yes***	0.333	300
7	52	5496	***Yes***	0.333	300
7	63	5508	***Yes***	0.333	300
7	65	5505	***Yes***	0.333	300
7	67	5533	***Yes***	0.333	300
7	68	5486	***Yes***	0.333	300
7	74	5489	***Yes***	0.333	300
7	75	5476	***Yes***	0.333	300
7	82	5487	***Yes***	0.333	300
7	85	5490	***Yes***	0.333	300
7	93	5515	***Yes***	0.333	300
7	94	5527	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail (05-03-2017 14:28:00)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
8	17	5535	***Yes***	0.333	300
8	27	5504	***Yes***	0.333	300
8	30	5514	***Yes***	0.333	300
8	49	5485	***Yes***	0.333	300
8	58	5520	***Yes***	0.333	300
8	60	5515	***Yes***	0.333	300
8	71	5524	***Yes***	0.333	300
8	72	5498	***Yes***	0.333	300
8	74	5483	***Yes***	0.333	300
8	89	5503	***Yes***	0.333	300
8	90	5494	***Yes***	0.333	300
8	94	5493	***Yes***	0.333	300
8	99	5501	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail (05-03-2017 14:28:33)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
9	3	5497	***Yes***	0.333	300
9	5	5512	***Yes***	0.333	300
9	13	5514	***Yes***	0.333	300
9	16	5509	***Yes***	0.333	300
9	32	5483	***Yes***	0.333	300
9	41	5510	***Yes***	0.333	300
9	49	5536	***Yes***	0.333	300
9	53	5528	***Yes***	0.333	300
9	57	5500	***Yes***	0.333	300
9	58	5516	***Yes***	0.333	300
9	78	5487	***Yes***	0.333	300
9	79	5515	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail (05-03-2017 14:29:35)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
10	4	5519	***Yes***	0.333	300
10	15	5535	***Yes***	0.333	300
10	24	5501	***Yes***	0.333	300
10	46	5492	***Yes***	0.333	300
10	51	5508	***Yes***	0.333	300
10	93	5489	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail (05-03-2017 14:32:35)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
11	9	5483	***Yes***	0.333	300
11	19	5519	***Yes***	0.333	300
11	21	5469	***Yes***	0.333	300
11	32	5466	***Yes***	0.333	300
11	34	5518	***Yes***	0.333	300
11	37	5462	***Yes***	0.333	300
11	40	5461	***Yes***	0.333	300
11	44	5508	***Yes***	0.333	300
11	45	5497	***Yes***	0.333	300
11	54	5510	***Yes***	0.333	300
11	79	5479	***Yes***	0.333	300
11	80	5499	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-03-2017 14:33:06)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	1	5485	***Yes***	0.333	300
12	11	5522	***Yes***	0.333	300
12	13	5516	***Yes***	0.333	300
12	14	5468	***Yes***	0.333	300
12	18	5474	***Yes***	0.333	300
12	21	5499	***Yes***	0.333	300
12	24	5520	***Yes***	0.333	300
12	25	5495	***Yes***	0.333	300
12	38	5501	***Yes***	0.333	300
12	39	5515	***Yes***	0.333	300
12	44	5467	***Yes***	0.333	300
12	49	5510	***Yes***	0.333	300
12	51	5493	***Yes***	0.333	300
12	63	5502	***Yes***	0.333	300
12	79	5492	***Yes***	0.333	300
12	84	5494	***Yes***	0.333	300
12	91	5517	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

Random DFS waveform parameters (Radar Type 6) in 13 Trail(05-03-2017 14:33:31)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
13	2	5484	***Yes***	0.333	300
13	5	5504	***Yes***	0.333	300
13	8	5478	***Yes***	0.333	300
13	16	5498	***Yes***	0.333	300
13	17	5519	***Yes***	0.333	300
13	19	5465	***Yes***	0.333	300
13	28	5522	***Yes***	0.333	300
13	40	5481	***Yes***	0.333	300
13	57	5466	***Yes***	0.333	300
13	73	5474	***Yes***	0.333	300
13	84	5517	***Yes***	0.333	300
13	95	5512	***Yes***	0.333	300

****

Type 6 Radar Waveform_14.txt

Random DFS waveform parameters (Radar Type 6) in 14 Trail(05-03-2017 14:36:26)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
14	11	5486	***Yes***	0.333	300
14	19	5465	***Yes***	0.333	300
14	21	5502	***Yes***	0.333	300
14	41	5468	***Yes***	0.333	300
14	61	5488	***Yes***	0.333	300
14	64	5508	***Yes***	0.333	300
14	69	5467	***Yes***	0.333	300
14	78	5472	***Yes***	0.333	300
14	79	5498	***Yes***	0.333	300
14	89	5507	***Yes***	0.333	300
14	95	5466	***Yes***	0.333	300

****

Type 6 Radar Waveform_15.txt

Random DFS waveform parameters (Radar Type 6) in 15 Trail(05-03-2017 14:38:32)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
15	5	5480	***Yes***	0.333	300
15	6	5506	***Yes***	0.333	300
15	18	5499	***Yes***	0.333	300
15	21	5485	***Yes***	0.333	300
15	34	5482	***Yes***	0.333	300
15	35	5514	***Yes***	0.333	300
15	47	5469	***Yes***	0.333	300
15	48	5493	***Yes***	0.333	300
15	49	5524	***Yes***	0.333	300
15	67	5513	***Yes***	0.333	300
15	69	5519	***Yes***	0.333	300
15	76	5501	***Yes***	0.333	300
15	79	5508	***Yes***	0.333	300
15	81	5476	***Yes***	0.333	300
15	83	5504	***Yes***	0.333	300
15	88	5518	***Yes***	0.333	300
15	93	5473	***Yes***	0.333	300

****

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-03-2017 14:39:37)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	13	5515	***Yes***	0.333	300
16	25	5521	***Yes***	0.333	300
16	26	5470	***Yes***	0.333	300
16	32	5481	***Yes***	0.333	300
16	58	5512	***Yes***	0.333	300
16	70	5485	***Yes***	0.333	300
16	79	5514	***Yes***	0.333	300
16	83	5482	***Yes***	0.333	300
16	94	5502	***Yes***	0.333	300
16	97	5522	***Yes***	0.333	300
16	98	5517	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-03-2017 14:40:18)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
17	0	5521	***Yes***	0.333	300
17	9	5472	***Yes***	0.333	300
17	11	5479	***Yes***	0.333	300
17	13	5506	***Yes***	0.333	300
17	21	5467	***Yes***	0.333	300
17	26	5480	***Yes***	0.333	300
17	27	5523	***Yes***	0.333	300
17	38	5513	***Yes***	0.333	300
17	59	5503	***Yes***	0.333	300
17	83	5491	***Yes***	0.333	300
17	86	5483	***Yes***	0.333	300
17	89	5519	***Yes***	0.333	300

****

Type 6 Radar Waveform_18.txt

Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-03-2017 14:41:50)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
18	0	5521	***Yes***	0.333	300
18	2	5527	***Yes***	0.333	300
18	5	5512	***Yes***	0.333	300
18	12	5523	***Yes***	0.333	300
18	14	5515	***Yes***	0.333	300
18	17	5474	***Yes***	0.333	300
18	22	5499	***Yes***	0.333	300
18	25	5478	***Yes***	0.333	300
18	33	5522	***Yes***	0.333	300
18	36	5495	***Yes***	0.333	300
18	37	5488	***Yes***	0.333	300
18	58	5490	***Yes***	0.333	300
18	64	5503	***Yes***	0.333	300
18	74	5497	***Yes***	0.333	300
18	88	5487	***Yes***	0.333	300
18	90	5473	***Yes***	0.333	300
18	97	5524	***Yes***	0.333	300

****

Type 6 Radar Waveform_19.txt

Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-03-2017 14:42:09)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
19	2	5524	***Yes***	0.333	300
19	8	5521	***Yes***	0.333	300
19	18	5493	***Yes***	0.333	300
19	24	5512	***Yes***	0.333	300
19	26	5484	***Yes***	0.333	300
19	35	5529	***Yes***	0.333	300
19	39	5526	***Yes***	0.333	300
19	42	5519	***Yes***	0.333	300
19	49	5510	***Yes***	0.333	300
19	65	5487	***Yes***	0.333	300
19	73	5478	***Yes***	0.333	300
19	75	5516	***Yes***	0.333	300
19	76	5505	***Yes***	0.333	300
19	86	5489	***Yes***	0.333	300
19	89	5502	***Yes***	0.333	300

****

Type 6 Radar Waveform_20.txt

Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-03-2017 14:52:30)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
20	32	5491	***Yes***	0.333	300
20	38	5512	***Yes***	0.333	300
20	44	5510	***Yes***	0.333	300
20	49	5522	***Yes***	0.333	300
20	67	5523	***Yes***	0.333	300
20	77	5518	***Yes***	0.333	300
20	78	5505	***Yes***	0.333	300
20	80	5497	***Yes***	0.333	300
20	91	5521	***Yes***	0.333	300
20	95	5479	***Yes***	0.333	300
20	97	5513	***Yes***	0.333	300

****

Type 6 Radar Waveform_21.txt

Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-03-2017 14:52:52)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
21	2	5486	***Yes***	0.333	300
21	16	5506	***Yes***	0.333	300
21	26	5504	***Yes***	0.333	300
21	29	5478	***Yes***	0.333	300
21	31	5474	***Yes***	0.333	300
21	40	5493	***Yes***	0.333	300
21	41	5511	***Yes***	0.333	300
21	58	5532	***Yes***	0.333	300
21	64	5528	***Yes***	0.333	300
21	72	5487	***Yes***	0.333	300
21	75	5481	***Yes***	0.333	300
21	84	5476	***Yes***	0.333	300
21	85	5530	***Yes***	0.333	300

****

Type 6 Radar Waveform_22.txt

Random DFS waveform parameters (Radar Type 6) in 22 Trail(05-03-2017 14:53:16)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
22	0	5504	***Yes***	0.333	300
22	13	5514	***Yes***	0.333	300
22	20	5509	***Yes***	0.333	300
22	21	5519	***Yes***	0.333	300
22	23	5475	***Yes***	0.333	300
22	28	5483	***Yes***	0.333	300
22	29	5501	***Yes***	0.333	300
22	30	5505	***Yes***	0.333	300
22	40	5487	***Yes***	0.333	300
22	60	5477	***Yes***	0.333	300
22	74	5497	***Yes***	0.333	300
22	89	5484	***Yes***	0.333	300
22	92	5491	***Yes***	0.333	300
22	94	5489	***Yes***	0.333	300
22	95	5480	***Yes***	0.333	300
22	96	5485	***Yes***	0.333	300
22	99	5533	***Yes***	0.333	300

****

Type 6 Radar Waveform_23.txt

Random DFS waveform parameters (Radar Type 6) in 23 Trail(05-03-2017 14:54:04)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
23	10	5503	***Yes***	0.333	300
23	16	5508	***Yes***	0.333	300
23	19	5476	***Yes***	0.333	300
23	22	5502	***Yes***	0.333	300
23	26	5495	***Yes***	0.333	300
23	34	5529	***Yes***	0.333	300
23	37	5516	***Yes***	0.333	300
23	44	5499	***Yes***	0.333	300
23	45	5501	***Yes***	0.333	300
23	59	5518	***Yes***	0.333	300
23	66	5478	***Yes***	0.333	300
23	74	5524	***Yes***	0.333	300
23	84	5479	***Yes***	0.333	300
23	88	5482	***Yes***	0.333	300
23	89	5490	***Yes***	0.333	300
23	95	5519	***Yes***	0.333	300a

****

Type 6 Radar Waveform_24.txt

Random DFS waveform parameters (Radar Type 6) in 24 Trail(05-03-2017 14:55:04)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
24	8	5492	***Yes***	0.333	300
24	12	5521	***Yes***	0.333	300
24	30	5489	***Yes***	0.333	300
24	31	5506	***Yes***	0.333	300
24	37	5512	***Yes***	0.333	300
24	58	5487	***Yes***	0.333	300
24	66	5501	***Yes***	0.333	300
24	69	5522	***Yes***	0.333	300
24	70	5476	***Yes***	0.333	300
24	71	5478	***Yes***	0.333	300
24	85	5531	***Yes***	0.333	300
24	92	5523	***Yes***	0.333	300

****

Type 6 Radar Waveform_25.txt

Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-03-2017 14:56:32)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
25	22	5491	***Yes***	0.333	300
25	43	5522	***Yes***	0.333	300
25	47	5482	***Yes***	0.333	300
25	80	5505	***Yes***	0.333	300
25	84	5483	***Yes***	0.333	300
25	86	5527	***Yes***	0.333	300
25	90	5519	***Yes***	0.333	300
25	95	5489	***Yes***	0.333	300
25	98	5477	***Yes***	0.333	300
25	99	5486	***Yes***	0.333	300

****

Type 6 Radar Waveform_26.txt

Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-03-2017 15:02:27)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
26	0	5521	***Yes***	0.333	300
26	2	5507	***Yes***	0.333	300
26	8	5526	***Yes***	0.333	300
26	17	5534	***Yes***	0.333	300
26	23	5517	***Yes***	0.333	300
26	28	5484	***Yes***	0.333	300
26	29	5522	***Yes***	0.333	300
26	36	5497	***Yes***	0.333	300
26	45	5511	***Yes***	0.333	300
26	54	5505	***Yes***	0.333	300
26	62	5537	***Yes***	0.333	300
26	64	5501	***Yes***	0.333	300
26	70	5516	***Yes***	0.333	300
26	81	5535	***Yes***	0.333	300
26	83	5506	***Yes***	0.333	300
26	85	5536	***Yes***	0.333	300
26	86	5503	***Yes***	0.333	300
26	91	5528	***Yes***	0.333	300
26	94	5508	***Yes***	0.333	300

****

Type 6 Radar Waveform_27.txt

Random DFS waveform parameters (Radar Type 6) in 27 Trail (05-03-2017 15:02:52)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
27	4	5501	***Yes***	0.333	300
27	10	5528	***Yes***	0.333	300
27	16	5536	***Yes***	0.333	300
27	19	5491	***Yes***	0.333	300
27	47	5523	***Yes***	0.333	300
27	52	5506	***Yes***	0.333	300
27	54	5535	***Yes***	0.333	300
27	57	5520	***Yes***	0.333	300
27	64	5478	***Yes***	0.333	300
27	83	5526	***Yes***	0.333	300
27	94	5538	***Yes***	0.333	300
27	99	5509	***Yes***	0.333	300

****

Type 6 Radar Waveform_28.txt

Random DFS waveform parameters (Radar Type 6) in 28 Trail (05-03-2017 15:03:10)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
28	6	5515	***Yes***	0.333	300
28	35	5482	***Yes***	0.333	300
28	38	5507	***Yes***	0.333	300
28	55	5495	***Yes***	0.333	300
28	62	5504	***Yes***	0.333	300
28	72	5506	***Yes***	0.333	300
28	75	5503	***Yes***	0.333	300
28	86	5525	***Yes***	0.333	300
28	96	5531	***Yes***	0.333	300

****

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail (05-03-2017 15:03:36)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
29	10	5521	***Yes***	0.333	300
29	48	5515	***Yes***	0.333	300
29	49	5482	***Yes***	0.333	300
29	50	5526	***Yes***	0.333	300
29	51	5523	***Yes***	0.333	300
29	66	5514	***Yes***	0.333	300
29	78	5516	***Yes***	0.333	300
29	82	5528	***Yes***	0.333	300
29	88	5502	***Yes***	0.333	300
29	97	5495	***Yes***	0.333	300

****

Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail (05-03-2017 15:03:36)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
29	10	5521	***Yes***	0.333	300
29	48	5515	***Yes***	0.333	300
29	49	5482	***Yes***	0.333	300
29	50	5526	***Yes***	0.333	300
29	51	5523	***Yes***	0.333	300
29	66	5514	***Yes***	0.333	300
29	78	5516	***Yes***	0.333	300
29	82	5528	***Yes***	0.333	300
29	88	5502	***Yes***	0.333	300
29	97	5495	***Yes***	0.333	300

****

11n40 CH102 5510MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	1	878	61	1
2	5497	1	778	68	1
3	5498	1	658	81	1
4	5499	1	3066	18	1
5	5500	1	698	76	1
6	5501	1	858	62	1
7	5502	1	598	89	1
8	5503	0	0	0	1
9	5504	1	798	67	1
10	5505	1	718	74	1
11	5506	1	678	78	1
12	5507	0	0	0	1
13	5508	1	918	58	1
14	5509	1	758	70	1
15	5510	1	518	102	1
16	5511	1	1755	31	1
17	5512	1	2624	21	1
18	5513	1	1776	30	1
19	5514	1	714	74	1
20	5515	1	2825	19	1
21	5516	1	1968	27	1
22	5517	1	1774	30	1
23	5518	1	2066	26	1
24	5519	1	1220	44	1
25	5520	1	2976	18	1
26	5521	1	3007	18	1
27	5522	1	2950	18	1
28	5523	1	1395	38	1
29	5524	1	2804	19	1
30	5525	1	1337	40	1
	Detection Percentage				100% (>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	1.200000048	166	28	1
2	5497	4.200000286	213	29	1
3	5498	4.300000191	205	29	1
4	5499	1.200000048	230	27	1
5	5500	1.200000048	200	29	1
6	5501	2	205	29	1
7	5502	4.099999905	209	27	1
8	5503	3.700000048	160	23	1
9	5504	4.200000286	229	29	1
10	5505	1.300000072	219	24	1
11	5506	3.5	164	23	1
12	5507	1	172	29	1
13	5508	3.700000048	171	23	1
14	5509	4.300000191	163	26	1
15	5510	2.299999952	174	28	1
16	5511	4.599999905	222	23	
17	5512	2.400000095	224	29	1
18	5513	1.100000024	197	29	1
19	5514	1.100000024	170	25	1
20	5515	3	157	29	1
21	5516	1.300000072	164	24	1
22	5517	2.299999952	176	26	1
23	5518	2.100000143	208	24	1
24	5519	5	158	25	1
25	5520	2	228	28	1
26	5521	4.5	182	23	1
27	5522	4.099999905	186	24	1
28	5523	2.900000095	176	25	1
29	5524	1.700000048	176	23	1
30	5525	3.5	176	26	1
	Detection Percentage				96.67% (>60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	18.10000038	417	16	1
2	5497	16.5	446	16	1
3	5498	12.30000019	349	16	
4	5499	11.69999981	360	14	1
5	5500	14.60000038	499	13	1
6	5501	12.10000038	278	14	1
7	5502	19.20000076	269	12	1
8	5503	12.80000019	365	12	1
9	5504	16.10000038	279	16	1
10	5505	12.60000038	417	14	1
11	5506	14.80000019	318	12	1
12	5507	19.60000038	389	14	1
13	5508	18.30000114	270	15	1
14	5509	15.60000038	303	16	1
15	5510	18.89999962	455	14	1
16	5511	15.10000038	326	12	1
17	5512	12.30000019	264	14	1
18	5513	14.40000057	356	14	1
19	5514	17.60000038	347	12	1
20	5515	13.60000038	438	15	1
21	5516	14.5	477	16	1
22	5517	12.40000057	260	14	1
23	5518	15.80000019	298	16	
24	5519	17.39999962	295	12	1
25	5520	18.70000076	460	16	1
26	5521	14.19999981	288	16	1
27	5522	15.5	331	12	1
28	5523	12.90000057	351	12	1
29	5524	14.19999981	330	13	
30	5525	11.80000019	303	15	1
	Detection Percentage				90.00% (>60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	14.30000019	348	14	1
2	5497	19.80000114	436	14	1
3	5498	12.80000019	413	16	1
4	5499	18.20000076	473	12	1
5	5500	18.00000000	347	15	1
6	5501	18.39999962	292	13	1
7	5502	19.10000038	457	13	1
8	5503	13.80000019	251	14	1
9	5504	19.20000076	264	13	1
10	5505	13.40000057	304	15	1
11	5506	19.70000076	427	13	1
12	5507	15.50000000	292	15	1
13	5508	18.30000114	485	14	1
14	5509	16.80000114	311	16	1
15	5510	20.00000000	438	14	1
16	5511	19.39999962	494	15	
17	5512	18.70000076	494	15	1
18	5513	12.90000057	304	15	1
19	5514	19.10000038	483	16	1
20	5515	17.30000114	319	15	
21	5516	11.50000000	343	13	1
22	5517	13.69999981	370	16	1
23	5518	16.20000076	303	16	1
24	5519	13.80000019	275	12	1
25	5520	11.10000038	361	16	1
26	5521	17.89999962	426	13	1
27	5522	12.80000019	353	16	
28	5523	19.20000076	335	16	1
29	5524	12.19999981	426	12	1
30	5525	12.50000000	335	14	1
	Detection Percentage				90.00% (>60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$ = (100%+96.67%+90.00%+90.00%)/4 = 94.1675% (>80%)

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8	12	5.51	1
1	Type 5	8	1.5	12	5.51	1
2	Type 5	11	1.090909	12	5.51	1
3	Type 5	20	0.6	12	5.51	1
4	Type 5	17	0.705882	12	5.51	1
5	Type 5	14	0.857143	12	5.51	1
6	Type 5	15	0.8	12	5.51	1
7	Type 5	12	1	12	5.51	1
8	Type 5	14	0.857143	12	5.51	1
9	Type 5	8	1.5	12	5.51	1
10	Type 5	17	0.705882	12	5.4964	1
11	Type 5	19	0.631579	12	5.4976	1
12	Type 5	15	0.8	12	5.4952	1
13	Type 5	12	1	12	5.494	1
14	Type 5	19	0.631579	12	5.4972	
15	Type 5	14	0.857143	12	5.4948	1
16	Type 5	20	0.6	12	5.498	1
17	Type 5	12	1	12	5.494	1
18	Type 5	14	0.857143	12	5.4948	1
19	Type 5	12	1	12	5.494	
20	Type 5	16	0.75	12	5.524	1
21	Type 5	12	1	12	5.5264	
22	Type 5	20	0.6	12	5.522	1
23	Type 5	14	0.857143	12	5.5252	
24	Type 5	13	0.923077	12	5.5256	1
25	Type 5	8	1.5	12	5.528	1
26	Type 5	17	0.705882	12	5.5236	1
27	Type 5	19	0.631579	12	5.5224	1
28	Type 5	12	1	12	5.526	
29	Type 5	18	0.666667	12	5.5232	1
		Detection Percentage				83.33% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	1
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	1
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	1
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		100 % (>70 %)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-03-2017 15:35:30)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	33	5496	***Yes***	0.333	300
1	40	5485	***Yes***	0.333	300
1	49	5503	***Yes***	0.333	300
1	58	5484	***Yes***	0.333	300
1	63	5486	***Yes***	0.333	300
1	67	5478	***Yes***	0.333	300
1	68	5490	***Yes***	0.333	300
1	78	5525	***Yes***	0.333	300
1	83	5467	***Yes***	0.333	300
1	88	5513	***Yes***	0.333	300
1	94	5479	***Yes***	0.333	300
1	99	5498	***Yes***	0.333	300

****

Type 6 Radar Waveform_2.txt

Random DFS waveform parameters (Radar Type 6) in 2 Trail(05-03-2017 15:38:36)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	8	5524	***Yes***	0.333	300
2	11	5488	***Yes***	0.333	300
2	21	5483	***Yes***	0.333	300
2	35	5490	***Yes***	0.333	300
2	40	5522	***Yes***	0.333	300
2	41	5519	***Yes***	0.333	300
2	75	5499	***Yes***	0.333	300
2	78	5509	***Yes***	0.333	300
2	94	5505	***Yes***	0.333	300

****

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-03-2017 15:39:26)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	5	5483	***Yes***	0.333	300
3	29	5519	***Yes***	0.333	300
3	41	5511	***Yes***	0.333	300
3	43	5515	***Yes***	0.333	300
3	44	5528	***Yes***	0.333	300
3	45	5474	***Yes***	0.333	300
3	53	5488	***Yes***	0.333	300
3	54	5478	***Yes***	0.333	300
3	64	5512	***Yes***	0.333	300
3	76	5520	***Yes***	0.333	300
3	79	5506	***Yes***	0.333	300
3	81	5471	***Yes***	0.333	300
3	87	5482	***Yes***	0.333	300
3	90	5498	***Yes***	0.333	300
3	98	5499	***Yes***	0.333	300

****

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail (05-03-2017 15:39:46)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
4	6	5495	***Yes***	0.333	300
4	9	5523	***Yes***	0.333	300
4	13	5486	***Yes***	0.333	300
4	35	5513	***Yes***	0.333	300
4	47	5508	***Yes***	0.333	300
4	55	5478	***Yes***	0.333	300
4	80	5492	***Yes***	0.333	300
4	99	5503	***Yes***	0.333	300

****

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail (05-03-2017 15:40:04)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
5	1	5511	***Yes***	0.333	300
5	32	5516	***Yes***	0.333	300
5	41	5515	***Yes***	0.333	300
5	78	5513	***Yes***	0.333	300
5	80	5505	***Yes***	0.333	300
5	90	5527	***Yes***	0.333	300
5	91	5474	***Yes***	0.333	300

****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail (05-03-2017 15:40:21)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
6	12	5526	***Yes***	0.333	300
6	23	5531	***Yes***	0.333	300
6	40	5493	***Yes***	0.333	300
6	41	5506	***Yes***	0.333	300
6	59	5498	***Yes***	0.333	300
6	68	5481	***Yes***	0.333	300
6	78	5480	***Yes***	0.333	300
6	87	5502	***Yes***	0.333	300
6	94	5508	***Yes***	0.333	300
6	97	5474	***Yes***	0.333	300

****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail(05-03-2017 15:42:07)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
7	7	5508	***Yes***	0.333	300
7	32	5493	***Yes***	0.333	300
7	44	5506	***Yes***	0.333	300
7	48	5517	***Yes***	0.333	300
7	56	5481	***Yes***	0.333	300
7	58	5505	***Yes***	0.333	300
7	68	5523	***Yes***	0.333	300
7	78	5498	***Yes***	0.333	300
7	81	5531	***Yes***	0.333	300
7	84	5472	***Yes***	0.333	300
7	87	5487	***Yes***	0.333	300
7	98	5499	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail(05-03-2017 15:43:05)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
8	6	5514	***Yes***	0.333	300
8	9	5487	***Yes***	0.333	300
8	12	5512	***Yes***	0.333	300
8	14	5493	***Yes***	0.333	300
8	24	5528	***Yes***	0.333	300
8	31	5501	***Yes***	0.333	300
8	38	5524	***Yes***	0.333	300
8	41	5516	***Yes***	0.333	300
8	47	5526	***Yes***	0.333	300
8	48	5479	***Yes***	0.333	300
8	77	5506	***Yes***	0.333	300
8	78	5482	***Yes***	0.333	300
8	85	5492	***Yes***	0.333	300
8	96	5519	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail(05-03-2017 15:43:41)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
9	4	5485	***Yes***	0.333	300
9	15	5488	***Yes***	0.333	300
9	16	5516	***Yes***	0.333	300
9	26	5476	***Yes***	0.333	300
9	32	5512	***Yes***	0.333	300
9	44	5490	***Yes***	0.333	300
9	49	5500	***Yes***	0.333	300
9	80	5480	***Yes***	0.333	300
9	81	5499	***Yes***	0.333	300
9	89	5524	***Yes***	0.333	300
9	94	5492	***Yes***	0.333	300
9	96	5503	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail(05-03-2017 15:44:40)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
10	17	5475	***Yes***	0.333	300
10	26	5517	***Yes***	0.333	300
10	42	5525	***Yes***	0.333	300
10	45	5527	***Yes***	0.333	300
10	52	5497	***Yes***	0.333	300
10	54	5486	***Yes***	0.333	300
10	64	5477	***Yes***	0.333	300
10	65	5508	***Yes***	0.333	300
10	66	5518	***Yes***	0.333	300
10	78	5500	***Yes***	0.333	300
10	94	5506	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail(05-03-2017 15:45:26)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
11	3	5502	***Yes***	0.333	300
11	5	5497	***Yes***	0.333	300
11	7	5478	***Yes***	0.333	300
11	9	5521	***Yes***	0.333	300
11	25	5533	***Yes***	0.333	300
11	34	5514	***Yes***	0.333	300
11	44	5490	***Yes***	0.333	300
11	51	5489	***Yes***	0.333	300
11	60	5486	***Yes***	0.333	300
11	63	5530	***Yes***	0.333	300
11	71	5505	***Yes***	0.333	300
11	75	5481	***Yes***	0.333	300
11	78	5493	***Yes***	0.333	300
11	80	5506	***Yes***	0.333	300
11	87	5500	***Yes***	0.333	300
11	92	5531	***Yes***	0.333	300
11	99	5480	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-03-2017 15:45:52)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	4	5499	***Yes***	0.333	300
12	6	5511	***Yes***	0.333	300
12	15	5534	***Yes***	0.333	300
12	16	5517	***Yes***	0.333	300
12	19	5500	***Yes***	0.333	300
12	33	5519	***Yes***	0.333	300
12	36	5485	***Yes***	0.333	300
12	50	5510	***Yes***	0.333	300
12	58	5495	***Yes***	0.333	300
12	60	5490	***Yes***	0.333	300
12	70	5528	***Yes***	0.333	300
12	72	5527	***Yes***	0.333	300
12	74	5532	***Yes***	0.333	300
12	80	5503	***Yes***	0.333	300
12	86	5494	***Yes***	0.333	300
12	89	5507	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

Random DFS waveform parameters (Radar Type 6) in 13 Trail (05-03-2017 15:46:21)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
13	28	5533	***Yes***	0.333	300
13	34	5498	***Yes***	0.333	300
13	37	5489	***Yes***	0.333	300
13	38	5490	***Yes***	0.333	300
13	41	5502	***Yes***	0.333	300
13	54	5514	***Yes***	0.333	300
13	59	5538	***Yes***	0.333	300
13	65	5503	***Yes***	0.333	300
13	77	5525	***Yes***	0.333	300
13	86	5522	***Yes***	0.333	300
13	92	5534	***Yes***	0.333	300
13	93	5487	***Yes***	0.333	300
13	95	5497	***Yes***	0.333	300
13	98	5486	***Yes***	0.333	300

****

Type 6 Radar Waveform_14.txt

Random DFS waveform parameters (Radar Type 6) in 14 Trail (05-03-2017 15:47:43)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
14	19	5502	***Yes***	0.333	300
14	23	5485	***Yes***	0.333	300
14	29	5519	***Yes***	0.333	300
14	58	5521	***Yes***	0.333	300
14	60	5493	***Yes***	0.333	300
14	63	5491	***Yes***	0.333	300
14	70	5507	***Yes***	0.333	300
14	76	5539	***Yes***	0.333	300
14	80	5479	***Yes***	0.333	300
14	86	5512	***Yes***	0.333	300
14	89	5511	***Yes***	0.333	300
14	99	5509	***Yes***	0.333	300

****

Type 6 Radar Waveform_15.txt

Random DFS waveform parameters (Radar Type 6) in 15 Trail (05-03-2017 15:48:23)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
15	5	5519	***Yes***	0.333	300
15	17	5533	***Yes***	0.333	300
15	23	5488	***Yes***	0.333	300
15	25	5510	***Yes***	0.333	300
15	41	5501	***Yes***	0.333	300
15	44	5482	***Yes***	0.333	300
15	45	5494	***Yes***	0.333	300
15	51	5536	***Yes***	0.333	300
15	53	5491	***Yes***	0.333	300
15	54	5518	***Yes***	0.333	300
15	61	5538	***Yes***	0.333	300
15	67	5497	***Yes***	0.333	300
15	88	5505	***Yes***	0.333	300

****

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-03-2017 15:49:02)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	6	5492	***Yes***	0.333	300
16	21	5540	***Yes***	0.333	300
16	28	5485	***Yes***	0.333	300
16	32	5496	***Yes***	0.333	300
16	38	5529	***Yes***	0.333	300
16	45	5489	***Yes***	0.333	300
16	49	5498	***Yes***	0.333	300
16	60	5487	***Yes***	0.333	300
16	68	5510	***Yes***	0.333	300
16	76	5536	***Yes***	0.333	300
16	84	5541	***Yes***	0.333	300
16	98	5524	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-03-2017 15:49:34)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
17	10	5493	***Yes***	0.333	300
17	14	5501	***Yes***	0.333	300
17	37	5499	***Yes***	0.333	300
17	41	5517	***Yes***	0.333	300
17	54	5511	***Yes***	0.333	300
17	56	5491	***Yes***	0.333	300
17	77	5524	***Yes***	0.333	300
17	80	5495	***Yes***	0.333	300
17	81	5531	***Yes***	0.333	300

****

Type 6 Radar Waveform_18.txt

Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-03-2017 15:50:02)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
18	28	5490	***Yes***	0.333	300
18	32	5517	***Yes***	0.333	300
18	47	5516	***Yes***	0.333	300
18	59	5510	***Yes***	0.333	300
18	61	5518	***Yes***	0.333	300
18	66	5538	***Yes***	0.333	300
18	91	5540	***Yes***	0.333	300
18	92	5492	***Yes***	0.333	300

****

Type 6 Radar Waveform_19.txt

Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-03-2017 15:52:09)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
19	5	5512	***Yes***	0.333	300
19	16	5540	***Yes***	0.333	300
19	17	5535	***Yes***	0.333	300
19	18	5484	***Yes***	0.333	300
19	27	5534	***Yes***	0.333	300
19	31	5533	***Yes***	0.333	300
19	44	5510	***Yes***	0.333	300
19	45	5538	***Yes***	0.333	300
19	51	5503	***Yes***	0.333	300
19	54	5486	***Yes***	0.333	300
19	64	5516	***Yes***	0.333	300
19	79	5528	***Yes***	0.333	300
19	82	5500	***Yes***	0.333	300
19	83	5531	***Yes***	0.333	300
19	85	5490	***Yes***	0.333	300
19	92	5520	***Yes***	0.333	300
19	97	5529	***Yes***	0.333	300
19	98	5517	***Yes***	0.333	300

****

Type 6 Radar Waveform_20.txt

Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-03-2017 15:52:40)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
20	2	5533	***Yes***	0.333	300
20	12	5539	***Yes***	0.333	300
20	25	5528	***Yes***	0.333	300
20	33	5543	***Yes***	0.333	300
20	35	5545	***Yes***	0.333	300
20	41	5516	***Yes***	0.333	300
20	42	5487	***Yes***	0.333	300
20	53	5494	***Yes***	0.333	300
20	63	5485	***Yes***	0.333	300
20	78	5495	***Yes***	0.333	300
20	89	5507	***Yes***	0.333	300
20	94	5492	***Yes***	0.333	300

****

Type 6 Radar Waveform_21.txt

Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-03-2017 15:53:14)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
21	32	5540	***Yes***	0.333	300
21	38	5530	***Yes***	0.333	300
21	39	5528	***Yes***	0.333	300
21	54	5536	***Yes***	0.333	300
21	59	5544	***Yes***	0.333	300
21	62	5529	***Yes***	0.333	300
21	63	5503	***Yes***	0.333	300
21	65	5531	***Yes***	0.333	300
21	71	5519	***Yes***	0.333	300
21	79	5527	***Yes***	0.333	300
21	80	5509	***Yes***	0.333	300
21	92	5512	***Yes***	0.333	300

****

Type 6 Radar Waveform_22.txt

Random DFS waveform parameters (Radar Type 6) in 22 Trail (05-03-2017 15:54:02)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
22	1	5521	***Yes***	0.333	300
22	8	5527	***Yes***	0.333	300
22	16	5519	***Yes***	0.333	300
22	17	5540	***Yes***	0.333	300
22	21	5490	***Yes***	0.333	300
22	41	5530	***Yes***	0.333	300
22	42	5511	***Yes***	0.333	300
22	55	5498	***Yes***	0.333	300

****

Type 6 Radar Waveform_23.txt

Random DFS waveform parameters (Radar Type 6) in 23 Trail (05-03-2017 15:55:12)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
23	5	5538	***Yes***	0.333	300
23	53	5506	***Yes***	0.333	300
23	54	5539	***Yes***	0.333	300
23	56	5518	***Yes***	0.333	300
23	61	5522	***Yes***	0.333	300
23	62	5547	***Yes***	0.333	300
23	66	5545	***Yes***	0.333	300
23	71	5510	***Yes***	0.333	300
23	80	5513	***Yes***	0.333	300
23	95	5533	***Yes***	0.333	300
23	99	5489	***Yes***	0.333	300

****

Type 6 Radar Waveform_24.txt

Random DFS waveform parameters (Radar Type 6) in 24 Trail (05-03-2017 15:55:32)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW (80M)	Hopping Rate (kHz)	Hopping Length (ms)
24	5	5522	***Yes***	0.333	300
24	26	5548	***Yes***	0.333	300
24	28	5545	***Yes***	0.333	300
24	31	5538	***Yes***	0.333	300
24	38	5530	***Yes***	0.333	300
24	41	5490	***Yes***	0.333	300
24	47	5526	***Yes***	0.333	300
24	50	5517	***Yes***	0.333	300
24	51	5505	***Yes***	0.333	300
24	63	5521	***Yes***	0.333	300
24	64	5536	***Yes***	0.333	300
24	81	5507	***Yes***	0.333	300

****

Type 6 Radar Waveform_25.txt

Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-03-2017 15:58:13)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
25	2	5524	***Yes***	0.333	300
25	23	5490	***Yes***	0.333	300
25	44	5507	***Yes***	0.333	300
25	56	5494	***Yes***	0.333	300
25	58	5539	***Yes***	0.333	300
25	60	5534	***Yes***	0.333	300
25	68	5511	***Yes***	0.333	300
25	76	5525	***Yes***	0.333	300
25	99	5527	***Yes***	0.333	300

****

Type 6 Radar Waveform_26.txt

Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-03-2017 15:58:31)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
26	11	5502	***Yes***	0.333	300
26	14	5536	***Yes***	0.333	300
26	18	5492	***Yes***	0.333	300
26	19	5543	***Yes***	0.333	300
26	20	5539	***Yes***	0.333	300
26	21	5523	***Yes***	0.333	300
26	23	5518	***Yes***	0.333	300
26	47	5500	***Yes***	0.333	300
26	56	5512	***Yes***	0.333	300
26	58	5513	***Yes***	0.333	300
26	63	5501	***Yes***	0.333	300
26	64	5521	***Yes***	0.333	300
26	76	5494	***Yes***	0.333	300
26	92	5541	***Yes***	0.333	300
26	96	5499	***Yes***	0.333	300
26	97	5520	***Yes***	0.333	300
26	99	5493	***Yes***	0.333	300

****

Type 6 Radar Waveform_27.txt

Random DFS waveform parameters (Radar Type 6) in 27 Trail(05-03-2017 15:58:57)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
27	14	5534	***Yes***	0.333	300
27	20	5517	***Yes***	0.333	300
27	24	5541	***Yes***	0.333	300
27	29	5549	***Yes***	0.333	300
27	37	5508	***Yes***	0.333	300
27	48	5518	***Yes***	0.333	300
27	51	5537	***Yes***	0.333	300
27	68	5499	***Yes***	0.333	300
27	89	5551	***Yes***	0.333	300
27	96	5542	***Yes***	0.333	300

****

Type 6 Radar Waveform_28.txt

Random DFS waveform parameters (Radar Type 6) in 28 Trail(05-03-2017 15:59:14)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
28	1	5522	***Yes***	0.333	300
28	4	5493	***Yes***	0.333	300
28	9	5539	***Yes***	0.333	300
28	11	5508	***Yes***	0.333	300
28	13	5521	***Yes***	0.333	300
28	22	5536	***Yes***	0.333	300
28	31	5551	***Yes***	0.333	300
28	43	5523	***Yes***	0.333	300
28	48	5529	***Yes***	0.333	300
28	55	5527	***Yes***	0.333	300
28	56	5549	***Yes***	0.333	300
28	69	5528	***Yes***	0.333	300
28	73	5547	***Yes***	0.333	300
28	86	5500	***Yes***	0.333	300
28	99	5498	***Yes***	0.333	300

****

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail(05-03-2017 15:59:31)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
29	4	5506	***Yes***	0.333	300
29	6	5554	***Yes***	0.333	300
29	17	5505	***Yes***	0.333	300
29	37	5526	***Yes***	0.333	300
29	43	5507	***Yes***	0.333	300
29	45	5532	***Yes***	0.333	300
29	48	5527	***Yes***	0.333	300
29	54	5520	***Yes***	0.333	300
29	55	5546	***Yes***	0.333	300
29	62	5518	***Yes***	0.333	300
29	64	5542	***Yes***	0.333	300
29	93	5517	***Yes***	0.333	300
29	95	5515	***Yes***	0.333	300

****

Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 30 Trail(05-03-2017 15:59:47)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
30	4	5525	***Yes***	0.333	300
30	14	5508	***Yes***	0.333	300
30	17	5511	***Yes***	0.333	300
30	23	5512	***Yes***	0.333	300
30	37	5554	***Yes***	0.333	300
30	48	5502	***Yes***	0.333	300
30	82	5540	***Yes***	0.333	300
30	91	5533	***Yes***	0.333	300

****

11ac80 CH106 5530MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	1	838	63	1
2	5517	1	578	92	1
3	5518	1	738	72	1
4	5519	1	658	81	1
5	5520	1	818	65	1
6	5521	1	538	99	1
7	5522	1	598	89	1
8	5523	1	618	86	1
9	5524	1	778	68	1
10	5525	1	938	57	1
11	5526	1	858	62	1
12	5527	1	718	74	1
13	5528	1	878	61	1
14	5529	1	918	58	1
15	5530	1	798	67	1
16	5531	1	1725	31	1
17	5532	1	852	62	1
18	5533	1	2356	23	1
19	5534	1	917	58	1
20	5535	1	962	55	1
21	5536	1	2230	24	1
22	5537	1	2709	20	1
23	5538	1	1403	38	1
24	5539	1	1788	30	1
25	5540	1	1099	49	1
26	5541	1	1822	29	1
27	5542	1	2473	22	1
28	5543	1	1398	38	1
29	5544	1	676	79	1
30	5545	1	1310	41	1
	Detection Percentage				100% (>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	4.800000191	161	23	1
2	5517	1.5	185	27	1
3	5518	5	177	28	1
4	5519	4.700000286	168	27	1
5	5520	4.200000286	159	24	1
6	5521	1.200000048	182	25	1
7	5522	2.5	174	25	1
8	5523	2.700000048	219	23	1
9	5524	1.200000048	187	26	1
10	5525	1.399999976	174	23	1
11	5526	2.299999952	197	28	1
12	5527	3.799999952	195	26	1
13	5528	4.400000095	223	25	1
14	5529	1	200	25	1
15	5530	1.5	184	24	1
16	5531	3.100000143	179	23	1
17	5532	2.900000095	222	27	1
18	5533	3.600000143	220	28	1
19	5534	3.700000048	210	23	1
20	5535	1.899999976	221	25	1
21	5536	1.600000024	162	27	1
22	5537	1.300000072	199	23	1
23	5538	4.800000191	206	28	1
24	5539	4.700000286	186	25	1
25	5540	1.100000024	169	29	1
26	5541	3.5	159	23	1
27	5542	4.099999905	171	26	1
28	5543	1.600000024	156	25	1
29	5544	4.5	183	25	1
30	5545	3.299999952	196	25	1
	Detection Percentage				100% (>60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	6.200000286	261	16	1
2	5517	9.600000381	368	16	1
3	5518	6.200000286	449	16	1
4	5519	9.699999809	442	18	1
5	5520	8.199999809	313	16	1
6	5521	6.099999905	463	16	1
7	5522	9.600000381	328	17	1
8	5523	7.300000191	467	17	1
9	5524	9.100000381	401	18	1
10	5525	7	486	18	1
11	5526	7.800000191	332	17	1
12	5527	7.099999905	345	16	1
13	5528	7.099999905	318	18	1
14	5529	6.599999905	341	18	1
15	5530	6	265	17	1
16	5531	6.599999905	350	16	1
17	5532	6.900000095	493	18	1
18	5533	7.400000095	284	16	1
19	5534	6.300000191	445	17	1
20	5535	6.400000095	385	17	1
21	5536	9.5	427	17	1
22	5537	7.5	386	16	1
23	5538	9.100000381	438	16	1
24	5539	7.800000191	319	18	1
25	5540	6.900000095	315	18	1
26	5541	6.200000286	267	18	1
27	5542	8.300000191	308	18	1
28	5543	7.900000095	262	17	1
29	5544	6.900000095	460	16	1
30	5545	6.200000286	469	18	1
	Detection Percentage				100% (>60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	11.60000038	467	13	1
2	5517	19.20000076	459	12	1
3	5518	17.39999962	275	16	1
4	5519	12.19999981	356	16	1
5	5520	17.30000114	433	16	1
6	5521	14.80000019	320	14	1
7	5522	13	397	12	1
8	5523	18.60000038	337	15	
9	5524	18.89999962	470	13	1
10	5525	19.10000038	412	16	1
11	5526	17.39999962	362	13	1
12	5527	15.5	412	15	1
13	5528	18.20000076	408	13	1
14	5529	16.70000076	259	15	1
15	5530	12.19999981	325	15	1
16	5531	11.69999981	391	16	1
17	5532	13.90000057	419	14	1
18	5533	15.30000019	264	15	1
19	5534	14.90000057	448	15	1
20	5535	19.10000038	342	14	1
21	5536	19.5	356	13	1
22	5537	19.60000038	431	13	1
23	5538	17.89999962	332	13	1
24	5539	18.89999962	461	14	1
25	5540	11.30000019	395	13	1
26	5541	13.80000019	445	13	1
27	5542	19.5	342	13	1
28	5543	19.89999962	497	14	1
29	5544	12.30000019	439	16	1
30	5545	17.60000038	428	16	1
	Detection Percentage				96.67% (>60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$ = (100%+100%+100%+96.67%)/4 = 99.1675% (>80%)

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8	12	5.53	1
1	Type 5	8	1.5	12	5.53	1
2	Type 5	11	1.090909	12	5.53	1
3	Type 5	20	0.6	12	5.53	1
4	Type 5	17	0.705882	12	5.53	1
5	Type 5	14	0.857143	12	5.53	1
6	Type 5	15	0.8	12	5.53	1
7	Type 5	12	1	12	5.53	1
8	Type 5	14	0.857143	12	5.53	1
9	Type 5	8	1.5	12	5.53	1
10	Type 5	17	0.705882	12	5.4964	1
11	Type 5	19	0.631579	12	5.4976	1
12	Type 5	15	0.8	12	5.4952	1
13	Type 5	12	1	12	5.494	1
14	Type 5	19	0.631579	12	5.4972	
15	Type 5	14	0.857143	12	5.4948	1
16	Type 5	20	0.6	12	5.498	1
17	Type 5	12	1	12	5.494	1
18	Type 5	14	0.857143	12	5.4948	1
19	Type 5	12	1	12	5.494	
20	Type 5	16	0.75	12	5.564	1
21	Type 5	12	1	12	5.5664	1
22	Type 5	20	0.6	12	5.562	1
23	Type 5	14	0.857143	12	5.5652	
24	Type 5	13	0.923077	12	5.5656	1
25	Type 5	8	1.5	12	5.568	1
26	Type 5	17	0.705882	12	5.5636	
27	Type 5	19	0.631579	12	5.5624	1
28	Type 5	12	1	12	5.566	1
29	Type 5	18	0.666667	12	5.5632	1
		Detection Percentage				86.67% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	1
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	1
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	1
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		100 % (>70 %)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-03-2017 19:43:01)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	27	5536	***Yes***	0.333	300
1	40	5515	***Yes***	0.333	300
1	41	5543	***Yes***	0.333	300
1	50	5539	***Yes***	0.333	300
1	53	5519	***Yes***	0.333	300
1	64	5518	***Yes***	0.333	300
1	75	5493	***Yes***	0.333	300
1	85	5499	***Yes***	0.333	300
1	88	5494	***Yes***	0.333	300

****

Type 6 Radar Waveform_2.txt

Random DFS waveform parameters (Radar Type 6) in 2 Trail(05-03-2017 19:43:20)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	4	5488	***Yes***	0.333	300
2	16	5526	***Yes***	0.333	300
2	23	5528	***Yes***	0.333	300
2	27	5529	***Yes***	0.333	300
2	38	5499	***Yes***	0.333	300
2	55	5506	***Yes***	0.333	300
2	73	5512	***Yes***	0.333	300
2	86	5537	***Yes***	0.333	300
2	88	5546	***Yes***	0.333	300
2	92	5547	***Yes***	0.333	300
2	98	5503	***Yes***	0.333	300

****

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-03-2017 19:43:39)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	3	5529	***Yes***	0.333	300
3	12	5511	***Yes***	0.333	300
3	29	5546	***Yes***	0.333	300
3	30	5512	***Yes***	0.333	300
3	54	5490	***Yes***	0.333	300
3	85	5506	***Yes***	0.333	300
3	94	5525	***Yes***	0.333	300
3	96	5532	***Yes***	0.333	300
3	99	5543	***Yes***	0.333	300

****

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail(05-03-2017 19:43:59)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
4	3	5522	***Yes***	0.333	300
4	8	5526	***Yes***	0.333	300
4	16	5534	***Yes***	0.333	300
4	23	5518	***Yes***	0.333	300
4	41	5516	***Yes***	0.333	300
4	43	5508	***Yes***	0.333	300
4	44	5499	***Yes***	0.333	300
4	51	5548	***Yes***	0.333	300
4	56	5510	***Yes***	0.333	300
4	59	5498	***Yes***	0.333	300
4	61	5546	***Yes***	0.333	300
4	62	5537	***Yes***	0.333	300
4	81	5503	***Yes***	0.333	300
4	83	5543	***Yes***	0.333	300
4	88	5490	***Yes***	0.333	300
4	98	5542	***Yes***	0.333	300
4	99	5531	***Yes***	0.333	300

****

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail(05-03-2017 19:44:25)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
5	7	5494	***Yes***	0.333	300
5	12	5535	***Yes***	0.333	300
5	21	5530	***Yes***	0.333	300
5	24	5516	***Yes***	0.333	300
5	25	5521	***Yes***	0.333	300
5	28	5515	***Yes***	0.333	300
5	29	5523	***Yes***	0.333	300
5	30	5509	***Yes***	0.333	300
5	36	5532	***Yes***	0.333	300
5	41	5541	***Yes***	0.333	300
5	44	5531	***Yes***	0.333	300
5	47	5545	***Yes***	0.333	300
5	60	5507	***Yes***	0.333	300
5	62	5491	***Yes***	0.333	300
5	90	5533	***Yes***	0.333	300
5	93	5546	***Yes***	0.333	300

****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail(05-03-2017 19:44:41)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
6	1	5550	***Yes***	0.333	300
6	45	5551	***Yes***	0.333	300
6	47	5531	***Yes***	0.333	300
6	52	5539	***Yes***	0.333	300
6	58	5525	***Yes***	0.333	300
6	74	5518	***Yes***	0.333	300
6	81	5535	***Yes***	0.333	300
6	89	5544	***Yes***	0.333	300
6	91	5546	***Yes***	0.333	300
6	93	5500	***Yes***	0.333	300
6	95	5527	***Yes***	0.333	300

****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail(05-03-2017 19:45:04)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
7	0	5514	***Yes***	0.333	300
7	20	5515	***Yes***	0.333	300
7	25	5524	***Yes***	0.333	300
7	33	5505	***Yes***	0.333	300
7	40	5525	***Yes***	0.333	300
7	59	5535	***Yes***	0.333	300
7	69	5521	***Yes***	0.333	300
7	71	5494	***Yes***	0.333	300
7	76	5536	***Yes***	0.333	300
7	82	5551	***Yes***	0.333	300
7	87	5504	***Yes***	0.333	300
7	95	5508	***Yes***	0.333	300
7	97	5497	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail(05-03-2017 19:45:23)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
8	0	5541	***Yes***	0.333	300
8	2	5509	***Yes***	0.333	300
8	7	5544	***Yes***	0.333	300
8	9	5548	***Yes***	0.333	300
8	11	5511	***Yes***	0.333	300
8	18	5535	***Yes***	0.333	300
8	28	5531	***Yes***	0.333	300
8	29	5510	***Yes***	0.333	300
8	46	5512	***Yes***	0.333	300
8	49	5518	***Yes***	0.333	300
8	70	5551	***Yes***	0.333	300
8	71	5530	***Yes***	0.333	300
8	73	5522	***Yes***	0.333	300
8	80	5536	***Yes***	0.333	300
8	82	5495	***Yes***	0.333	300
8	91	5515	***Yes***	0.333	300
8	96	5533	***Yes***	0.333	300
8	97	5504	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail(05-03-2017 19:45:43)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
9	13	5502	***Yes***	0.333	300
9	19	5498	***Yes***	0.333	300
9	31	5516	***Yes***	0.333	300
9	47	5548	***Yes***	0.333	300
9	49	5531	***Yes***	0.333	300
9	74	5522	***Yes***	0.333	300
9	76	5515	***Yes***	0.333	300
9	77	5495	***Yes***	0.333	300
9	84	5534	***Yes***	0.333	300
9	94	5546	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail(05-03-2017 19:46:09)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
10	1	5516	***Yes***	0.333	300
10	8	5543	***Yes***	0.333	300
10	21	5522	***Yes***	0.333	300
10	26	5525	***Yes***	0.333	300
10	35	5511	***Yes***	0.333	300
10	38	5548	***Yes***	0.333	300
10	39	5498	***Yes***	0.333	300
10	40	5504	***Yes***	0.333	300
10	42	5519	***Yes***	0.333	300
10	46	5500	***Yes***	0.333	300
10	59	5526	***Yes***	0.333	300
10	67	5502	***Yes***	0.333	300
10	77	5523	***Yes***	0.333	300
10	92	5514	***Yes***	0.333	300
10	99	5555	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail(05-03-2017 19:46:26)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
11	2	5537	***Yes***	0.333	300
11	8	5520	***Yes***	0.333	300
11	10	5550	***Yes***	0.333	300
11	16	5501	***Yes***	0.333	300
11	19	5519	***Yes***	0.333	300
11	27	5513	***Yes***	0.333	300
11	30	5554	***Yes***	0.333	300
11	35	5556	***Yes***	0.333	300
11	44	5522	***Yes***	0.333	300
11	49	5516	***Yes***	0.333	300
11	51	5540	***Yes***	0.333	300
11	53	5515	***Yes***	0.333	300
11	63	5542	***Yes***	0.333	300
11	69	5532	***Yes***	0.333	300
11	71	5538	***Yes***	0.333	300
11	75	5496	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-03-2017 19:46:42)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	3	5510	***Yes***	0.333	300
12	10	5498	***Yes***	0.333	300
12	28	5540	***Yes***	0.333	300
12	32	5516	***Yes***	0.333	300
12	46	5539	***Yes***	0.333	300
12	48	5531	***Yes***	0.333	300
12	54	5543	***Yes***	0.333	300
12	57	5542	***Yes***	0.333	300
12	59	5530	***Yes***	0.333	300
12	63	5507	***Yes***	0.333	300
12	69	5502	***Yes***	0.333	300
12	72	5514	***Yes***	0.333	300
12	74	5508	***Yes***	0.333	300
12	75	5524	***Yes***	0.333	300
12	79	5518	***Yes***	0.333	300
12	86	5536	***Yes***	0.333	300
12	90	5511	***Yes***	0.333	300
12	95	5523	***Yes***	0.333	300
12	99	5500	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

Random DFS waveform parameters (Radar Type 6) in 13 Trail(05-03-2017 19:46:58)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
13	1	5552	***Yes***	0.333	300
13	6	5539	***Yes***	0.333	300
13	13	5544	***Yes***	0.333	300
13	14	5499	***Yes***	0.333	300
13	32	5550	***Yes***	0.333	300
13	50	5525	***Yes***	0.333	300
13	54	5553	***Yes***	0.333	300
13	61	5541	***Yes***	0.333	300
13	73	5502	***Yes***	0.333	300
13	76	5533	***Yes***	0.333	300
13	83	5518	***Yes***	0.333	300
13	86	5534	***Yes***	0.333	300
13	95	5537	***Yes***	0.333	300

****

Type 6 Radar Waveform_14.txt

Random DFS waveform parameters (Radar Type 6) in 14 Trail(05-03-2017 19:47:15)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
14	2	5549	***Yes***	0.333	300
14	22	5540	***Yes***	0.333	300
14	50	5518	***Yes***	0.333	300
14	51	5536	***Yes***	0.333	300
14	60	5523	***Yes***	0.333	300
14	61	5547	***Yes***	0.333	300
14	69	5546	***Yes***	0.333	300
14	77	5514	***Yes***	0.333	300

****

Type 6 Radar Waveform_15.txt

Random DFS waveform parameters (Radar Type 6) in 15 Trail(05-03-2017 19:47:45)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
15	5	5500	***Yes***	0.333	300
15	20	5543	***Yes***	0.333	300
15	25	5520	***Yes***	0.333	300
15	32	5513	***Yes***	0.333	300
15	45	5545	***Yes***	0.333	300
15	48	5539	***Yes***	0.333	300
15	61	5511	***Yes***	0.333	300
15	62	5534	***Yes***	0.333	300
15	63	5506	***Yes***	0.333	300
15	69	5514	***Yes***	0.333	300
15	78	5532	***Yes***	0.333	300
15	95	5551	***Yes***	0.333	300
15	97	5518	***Yes***	0.333	300

****

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-03-2017 19:48:01)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	0	5525	***Yes***	0.333	300
16	1	5544	***Yes***	0.333	300
16	13	5517	***Yes***	0.333	300
16	18	5509	***Yes***	0.333	300
16	23	5549	***Yes***	0.333	300
16	27	5543	***Yes***	0.333	300
16	31	5546	***Yes***	0.333	300
16	36	5520	***Yes***	0.333	300
16	44	5552	***Yes***	0.333	300
16	51	5516	***Yes***	0.333	300
16	58	5524	***Yes***	0.333	300
16	73	5502	***Yes***	0.333	300
16	76	5554	***Yes***	0.333	300
16	78	5545	***Yes***	0.333	300
16	90	5558	***Yes***	0.333	300
16	94	5529	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-03-2017 19:48:16)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
17	1	5548	***Yes***	0.333	300
17	2	5518	***Yes***	0.333	300
17	8	5511	***Yes***	0.333	300
17	12	5556	***Yes***	0.333	300
17	15	5559	***Yes***	0.333	300
17	20	5509	***Yes***	0.333	300
17	34	5512	***Yes***	0.333	300
17	44	5553	***Yes***	0.333	300
17	52	5536	***Yes***	0.333	300
17	55	5514	***Yes***	0.333	300
17	56	5542	***Yes***	0.333	300
17	61	5519	***Yes***	0.333	300
17	62	5540	***Yes***	0.333	300
17	65	5508	***Yes***	0.333	300
17	66	5561	***Yes***	0.333	300
17	69	5502	***Yes***	0.333	300
17	87	5510	***Yes***	0.333	300

****

Type 6 Radar Waveform_18.txt

Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-03-2017 19:48:32)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
18	5	5511	***Yes***	0.333	300
18	10	5557	***Yes***	0.333	300
18	13	5536	***Yes***	0.333	300
18	27	5563	***Yes***	0.333	300
18	35	5530	***Yes***	0.333	300
18	39	5541	***Yes***	0.333	300
18	54	5528	***Yes***	0.333	300
18	62	5553	***Yes***	0.333	300
18	66	5508	***Yes***	0.333	300
18	75	5560	***Yes***	0.333	300
18	99	5548	***Yes***	0.333	300

****

Type 6 Radar Waveform_19.txt

Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-03-2017 19:48:48)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
19	5	5529	***Yes***	0.333	300
19	21	5559	***Yes***	0.333	300
19	26	5537	***Yes***	0.333	300
19	28	5523	***Yes***	0.333	300
19	33	5526	***Yes***	0.333	300
19	38	5561	***Yes***	0.333	300
19	43	5506	***Yes***	0.333	300
19	46	5516	***Yes***	0.333	300
19	51	5553	***Yes***	0.333	300
19	59	5508	***Yes***	0.333	300
19	63	5515	***Yes***	0.333	300
19	66	5544	***Yes***	0.333	300
19	80	5504	***Yes***	0.333	300

****

Type 6 Radar Waveform_20.txt

Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-03-2017 19:49:19)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
20	12	5553	***Yes***	0.333	300
20	14	5505	***Yes***	0.333	300
20	19	5558	***Yes***	0.333	300
20	20	5518	***Yes***	0.333	300
20	29	5513	***Yes***	0.333	300
20	33	5506	***Yes***	0.333	300
20	36	5525	***Yes***	0.333	300
20	44	5514	***Yes***	0.333	300
20	65	5565	***Yes***	0.333	300
20	73	5544	***Yes***	0.333	300
20	76	5562	***Yes***	0.333	300
20	81	5549	***Yes***	0.333	300
20	91	5510	***Yes***	0.333	300
20	99	5554	***Yes***	0.333	300

****

Type 6 Radar Waveform_21.txt

Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-03-2017 19:49:39)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
21	6	5552	***Yes***	0.333	300
21	12	5545	***Yes***	0.333	300
21	14	5564	***Yes***	0.333	300
21	16	5522	***Yes***	0.333	300
21	23	5534	***Yes***	0.333	300
21	38	5553	***Yes***	0.333	300
21	56	5535	***Yes***	0.333	300
21	58	5511	***Yes***	0.333	300
21	68	5526	***Yes***	0.333	300
21	78	5548	***Yes***	0.333	300
21	83	5532	***Yes***	0.333	300
21	90	5544	***Yes***	0.333	300
21	94	5566	***Yes***	0.333	300
21	97	5507	***Yes***	0.333	300
21	98	5506	***Yes***	0.333	300

****

Type 6 Radar Waveform_22.txt

Random DFS waveform parameters (Radar Type 6) in 22 Trail(05-03-2017 19:49:57)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
22	4	5566	***Yes***	0.333	300
22	6	5552	***Yes***	0.333	300
22	25	5537	***Yes***	0.333	300
22	34	5518	***Yes***	0.333	300
22	46	5516	***Yes***	0.333	300
22	59	5510	***Yes***	0.333	300
22	65	5556	***Yes***	0.333	300
22	67	5535	***Yes***	0.333	300
22	77	5559	***Yes***	0.333	300
22	81	5528	***Yes***	0.333	300
22	84	5567	***Yes***	0.333	300
22	93	5513	***Yes***	0.333	300

Type 6 Radar Waveform_23.txt

Random DFS waveform parameters (Radar Type 6) in 23 Trail(05-03-2017 19:50:14)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
23	0	5526	***Yes***	0.333	300
23	7	5567	***Yes***	0.333	300
23	10	5551	***Yes***	0.333	300
23	13	5512	***Yes***	0.333	300
23	21	5545	***Yes***	0.333	300
23	27	5562	***Yes***	0.333	300
23	32	5565	***Yes***	0.333	300
23	42	5508	***Yes***	0.333	300
23	43	5509	***Yes***	0.333	300
23	63	5554	***Yes***	0.333	300
23	82	5510	***Yes***	0.333	300
23	84	5535	***Yes***	0.333	300
23	98	5563	***Yes***	0.333	300

Type 6 Radar Waveform_24.txt

Random DFS waveform parameters (Radar Type 6) in 24 Trail(05-03-2017 19:50:30)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
24	6	5549	***Yes***	0.333	300
24	11	5513	***Yes***	0.333	300
24	21	5566	***Yes***	0.333	300
24	30	5532	***Yes***	0.333	300
24	34	5530	***Yes***	0.333	300
24	39	5560	***Yes***	0.333	300
24	47	5547	***Yes***	0.333	300
24	49	5516	***Yes***	0.333	300
24	50	5558	***Yes***	0.333	300
24	66	5529	***Yes***	0.333	300
24	67	5509	***Yes***	0.333	300
24	71	5522	***Yes***	0.333	300
24	77	5540	***Yes***	0.333	300
24	78	5528	***Yes***	0.333	300
24	80	5524	***Yes***	0.333	300
24	84	5550	***Yes***	0.333	300
24	97	5567	***Yes***	0.333	300

Type 6 Radar Waveform_25.txt

Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-03-2017 19:50:52)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
25	7	5566	***Yes***	0.333	300
25	8	5512	***Yes***	0.333	300
25	14	5537	***Yes***	0.333	300
25	16	5522	***Yes***	0.333	300
25	19	5515	***Yes***	0.333	300
25	26	5534	***Yes***	0.333	300
25	27	5570	***Yes***	0.333	300
25	38	5514	***Yes***	0.333	300
25	42	5519	***Yes***	0.333	300
25	44	5544	***Yes***	0.333	300
25	54	5536	***Yes***	0.333	300
25	58	5527	***Yes***	0.333	300
25	72	5550	***Yes***	0.333	300
25	76	5569	***Yes***	0.333	300
25	78	5549	***Yes***	0.333	300
25	82	5546	***Yes***	0.333	300
25	89	5548	***Yes***	0.333	300
25	96	5568	***Yes***	0.333	300

****

Type 6 Radar Waveform_26.txt

Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-03-2017 19:51:08)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
26	0	5560	***Yes***	0.333	300
26	17	5521	***Yes***	0.333	300
26	21	5525	***Yes***	0.333	300
26	29	5520	***Yes***	0.333	300
26	57	5558	***Yes***	0.333	300
26	58	5567	***Yes***	0.333	300
26	62	5566	***Yes***	0.333	300
26	72	5546	***Yes***	0.333	300
26	73	5518	***Yes***	0.333	300
26	75	5556	***Yes***	0.333	300
26	76	5559	***Yes***	0.333	300
26	78	5544	***Yes***	0.333	300
26	99	5523	***Yes***	0.333	300

****

Type 6 Radar Waveform_27.txt

Random DFS waveform parameters (Radar Type 6) in 27 Trail(05-03-2017 19:51:31)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
27	6	5550	***Yes***	0.333	300
27	13	5545	***Yes***	0.333	300
27	15	5520	***Yes***	0.333	300
27	20	5560	***Yes***	0.333	300
27	28	5533	***Yes***	0.333	300
27	54	5535	***Yes***	0.333	300
27	69	5530	***Yes***	0.333	300
27	70	5567	***Yes***	0.333	300
27	71	5526	***Yes***	0.333	300
27	75	5542	***Yes***	0.333	300
27	76	5524	***Yes***	0.333	300
27	80	5558	***Yes***	0.333	300
27	86	5521	***Yes***	0.333	300

****

Type 6 Radar Waveform_28.txt

Random DFS waveform parameters (Radar Type 6) in 28 Trail(05-03-2017 19:51:47)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
28	2	5514	***Yes***	0.333	300
28	4	5572	***Yes***	0.333	300
28	6	5513	***Yes***	0.333	300
28	10	5559	***Yes***	0.333	300
28	15	5557	***Yes***	0.333	300
28	16	5562	***Yes***	0.333	300
28	19	5563	***Yes***	0.333	300
28	20	5552	***Yes***	0.333	300
28	23	5529	***Yes***	0.333	300
28	25	5539	***Yes***	0.333	300
28	34	5568	***Yes***	0.333	300
28	44	5523	***Yes***	0.333	300
28	48	5527	***Yes***	0.333	300
28	51	5550	***Yes***	0.333	300
28	55	5531	***Yes***	0.333	300
28	58	5566	***Yes***	0.333	300
28	65	5518	***Yes***	0.333	300
28	69	5548	***Yes***	0.333	300
28	74	5544	***Yes***	0.333	300
28	76	5565	***Yes***	0.333	300

****

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail(05-03-2017 19:52:03)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
29	17	5519	***Yes***	0.333	300
29	21	5540	***Yes***	0.333	300
29	36	5564	***Yes***	0.333	300
29	37	5543	***Yes***	0.333	300
29	39	5535	***Yes***	0.333	300
29	40	5551	***Yes***	0.333	300
29	52	5552	***Yes***	0.333	300
29	54	5549	***Yes***	0.333	300
29	55	5554	***Yes***	0.333	300
29	76	5526	***Yes***	0.333	300
29	84	5539	***Yes***	0.333	300
29	91	5558	***Yes***	0.333	300
29	98	5542	***Yes***	0.333	300

****

Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 30 Trail(05-03-2017 19:52:19)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
30	2	5545	***Yes***	0.333	300
30	17	5559	***Yes***	0.333	300
30	20	5530	***Yes***	0.333	300
30	24	5515	***Yes***	0.333	300
30	30	5561	***Yes***	0.333	300
30	48	5552	***Yes***	0.333	300
30	49	5522	***Yes***	0.333	300
30	50	5548	***Yes***	0.333	300
30	51	5541	***Yes***	0.333	300
30	72	5540	***Yes***	0.333	300

****

APEX0367

11a CH100 5500MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	1	918	58	1
2	5505	1	578	92	1
3	5506	1	818	65	1
4	5507	1	558	95	1
5	5508	1	678	78	1
6	5509	1	598	89	1
7	5508	1	518	102	1
8	5507	1	738	72	1
9	5506	1	538	99	1
10	5505	1	778	68	1
11	5504	1	858	62	1
12	5503	1	658	81	1
13	5502	1	898	59	1
14	5501	1	758	70	1
15	5500	1	938	57	1
16	5499	1	710	75	1
17	5498	1	1843	29	
18	5497	1	1520	35	1
19	5496	1	1400	38	1
20	5495	1	2464	22	1
21	5494	1	548	97	1
22	5493	1	1045	51	1
23	5492	1	896	59	1
24	5491	1	2906	19	
25	5500	1	2179	25	1
26	5501	1	1038	51	1
27	5502	1	2592	21	1
28	5503	1	930	57	1
29	5504	1	2502	22	1
30	5505	1	2116	25	1
	Detection Percentage				93.33%(>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	3.400000095	199	24	1
2	5505	3	156	23	1
3	5506	1.899999976	184	27	1
4	5507	2.799999952	155	23	1
5	5508	3.100000143	193	24	1
6	5509	2.100000143	197	28	1
7	5508	2.400000095	159	23	1
8	5507	4.300000191	156	25	1
9	5506	3.5	158	26	1
10	5505	2.900000095	192	24	1
11	5504	3.900000095	203	25	1
12	5503	3.700000048	193	27	1
13	5502	2.299999952	179	26	1
14	5501	3	207	28	1
15	5500	3.700000048	207	29	1
16	5499	1.100000024	200	29	1
17	5498	1	158	27	1
18	5497	4.5	179	27	1
19	5496	1.600000024	156	23	1
20	5495	1.300000072	201	25	
21	5494	4.700000286	192	27	1
22	5493	1.5	163	29	1
23	5492	4.5	164	29	1
24	5491	1.399999976	171	23	1
25	5500	3.5	170	27	1
26	5501	1.899999976	158	24	1
27	5502	4.800000191	189	24	1
28	5503	1.300000072	161	28	1
29	5504	1.800000072	223	23	1
30	5505	3.600000143	182	26	1
	Detection Percentage				96.67%>(60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	7.900000095	372	16	1
2	5505	6.599999905	379	17	1
3	5506	6.200000286	354	16	1
4	5507	7.5	395	18	1
5	5508	7.400000095	395	16	1
6	5509	8.800000191	399	16	1
7	5508	8.400000572	284	16	1
8	5507	6.400000095	475	17	1
9	5506	8.5	487	17	1
10	5505	6.099999905	284	17	1
11	5504	8.199999809	495	16	1
12	5503	6	312	18	1
13	5502	8.5	427	17	1
14	5501	9.800000191	290	16	1
15	5500	9.5	274	17	1
16	5499	9.900000572	378	17	1
17	5498	7.700000286	339	16	1
18	5497	7	301	18	1
19	5496	7.900000095	464	18	1
20	5495	8.900000572	477	16	1
21	5494	6.599999905	328	17	1
22	5493	7.700000286	489	17	1
23	5492	7.900000095	393	17	1
24	5491	9.800000191	474	18	1
25	5500	9.199999809	468	16	1
26	5501	9.400000572	456	16	
27	5502	6.400000095	459	18	1
28	5503	6.700000286	306	17	
29	5504	9.600000381	325	17	1
30	5505	8.300000191	409	17	1
	Detection Percentage				93.33%>(60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5500	18.70000076	420	16	1
2	5505	12.60000038	388	14	1
3	5506	18.80000114	369	14	1
4	5507	17.39999962	353	13	1
5	5508	14	334	14	1
6	5509	14.19999981	364	12	
7	5508	15.40000057	431	12	1
8	5507	16	368	12	1
9	5506	12.60000038	364	16	1
10	5505	17.89999962	484	13	1
11	5504	19.39999962	404	15	1
12	5503	13	392	13	1
13	5502	14.19999981	411	16	1
14	5501	15	486	16	1
15	5500	15.69999981	467	14	1
16	5499	14.80000019	284	15	1
17	5498	18.60000038	438	15	1
18	5497	16.10000038	467	16	1
19	5496	18.10000038	282	13	1
20	5495	15.69999981	397	12	1
21	5494	14.5	308	15	1
22	5493	13.40000057	299	14	1
23	5492	12.5	427	12	1
24	5491	11.69999981	251	14	1
25	5500	17.39999962	400	16	1
26	5501	13.60000038	363	13	1
27	5502	18.20000076	359	16	1
28	5503	19	349	15	1
29	5504	12.60000038	300	15	1
30	5505	17.10000038	331	13	1
	Detection Percentage				96.67%>(60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1+P_d2+P_d3+P_d4}{4}$ =(93.33%+96.67%+93.33%+96.67%)/4=95%>80%

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8000000	12.0000000	5.500000000	1
1	Type 5	8	1.5000000	12.0000000	5.500000000	1
2	Type 5	11	1.0909091	12.0000000	5.500000000	1
3	Type 5	20	0.6000000	12.0000000	5.500000000	1
4	Type 5	17	0.7058824	12.0000000	5.500000000	1
5	Type 5	14	0.8571429	12.0000000	5.500000000	1
6	Type 5	15	0.8000000	12.0000000	5.500000000	1
7	Type 5	12	1.0000000	12.0000000	5.500000000	1
8	Type 5	14	0.8571429	12.0000000	5.500000000	1
9	Type 5	8	1.5000000	12.0000000	5.500000000	1
10	Type 5	17	0.7058824	12.0000000	5.503900000	
11	Type 5	19	0.6315789	12.0000000	5.505100000	1
12	Type 5	15	0.8000000	12.0000000	5.502700000	1
13	Type 5	12	1.0000000	12.0000000	5.501500000	1
14	Type 5	19	0.6315789	12.0000000	5.504700000	1
15	Type 5	14	0.8571429	12.0000000	5.502300000	1
16	Type 5	20	0.6000000	12.0000000	5.505500000	1
17	Type 5	12	1.0000000	12.0000000	5.501500000	1
18	Type 5	14	0.8571429	12.0000000	5.502300000	1
19	Type 5	12	1.0000000	12.0000000	5.501500000	1
20	Type 5	16	0.7500000	12.0000000	5.496500000	
21	Type 5	12	1.0000000	12.0000000	5.498900000	1
22	Type 5	20	0.6000000	12.0000000	5.494500000	1
23	Type 5	14	0.8571429	12.0000000	5.497700000	1
24	Type 5	13	0.9230769	12.0000000	5.498100000	1
25	Type 5	8	1.5000000	12.0000000	5.500500000	1
26	Type 5	17	0.7058824	12.0000000	5.496100000	1
27	Type 5	19	0.6315789	12.0000000	5.494900000	1
28	Type 5	12	1.0000000	12.0000000	5.498500000	1
29	Type 5	18	0.6666667	12.0000000	5.495700000	1
		Detection Percentage				93.33% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	1
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		93.33%>(70%)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-10-2017 15:53:10)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	2	5500	***Yes***	0.333	300
1	10	5490	***Yes***	0.333	300
1	26	5509	***Yes***	0.333	300
1	29	5513	***Yes***	0.333	300
1	37	5499	***Yes***	0.333	300
1	43	5512	***Yes***	0.333	300
1	47	5495	***Yes***	0.333	300
1	48	5481	***Yes***	0.333	300
1	50	5526	***Yes***	0.333	300
1	56	5488	***Yes***	0.333	300
1	57	5494	***Yes***	0.333	300
1	71	5486	***Yes***	0.333	300
1	73	5501	***Yes***	0.333	300
1	76	5471	***Yes***	0.333	300
1	89	5521	***Yes***	0.333	300

****

Type 6 Radar Waveform_2.txt

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	0	5622	No	0.333	300
2	1	5471	***Yes***	0.333	300
2	2	5510	***Yes***	0.333	300
2	19	5475	***Yes***	0.333	300
2	23	5497	***Yes***	0.333	300
2	24	5476	***Yes***	0.333	300
2	29	5478	***Yes***	0.333	300
2	32	5491	***Yes***	0.333	300
2	53	5468	***Yes***	0.333	300
2	56	5496	***Yes***	0.333	300
2	61	5483	***Yes***	0.333	300
2	72	5479	***Yes***	0.333	300
2	74	5513	***Yes***	0.333	300
2	75	5489	***Yes***	0.333	300
2	85	5507	***Yes***	0.333	300
2	96	5486	***Yes***	0.333	300

****

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-10-2017 15:54:44)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	7	5500	***Yes***	0.333	300
3	10	5477	***Yes***	0.333	300
3	16	5468	***Yes***	0.333	300
3	34	5473	***Yes***	0.333	300
3	42	5483	***Yes***	0.333	300
3	44	5492	***Yes***	0.333	300
3	66	5517	***Yes***	0.333	300
3	70	5485	***Yes***	0.333	300
3	79	5472	***Yes***	0.333	300
3	90	5523	***Yes***	0.333	300
3	92	5482	***Yes***	0.333	300
3	96	5514	***Yes***	0.333	300
3	99	5518	***Yes***	0.333	300

****

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail(05-10-2017 15:55:33)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
4	0	5338		0.333	300
4	10	5480	***Yes***	0.333	300
4	12	5466	***Yes***	0.333	300
4	20	5522	***Yes***	0.333	300
4	25	5520	***Yes***	0.333	300
4	31	5507	***Yes***	0.333	300
4	34	5512	***Yes***	0.333	300
4	41	5471	***Yes***	0.333	300
4	54	5504	***Yes***	0.333	300
4	57	5514	***Yes***	0.333	300
4	65	5499	***Yes***	0.333	300
4	79	5467	***Yes***	0.333	300
4	97	5483	***Yes***	0.333	300
4	98	5464	***Yes***	0.333	300

****

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail(05-10-2017 16:00:48)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
5	10	5510	***Yes***	0.333	300
5	24	5494	***Yes***	0.333	300
5	26	5493	***Yes***	0.333	300
5	29	5525	***Yes***	0.333	300
5	41	5516	***Yes***	0.333	300
5	44	5487	***Yes***	0.333	300
5	52	5503	***Yes***	0.333	300
5	54	5504	***Yes***	0.333	300
5	61	5523	***Yes***	0.333	300
5	62	5476	***Yes***	0.333	300
5	68	5473	***Yes***	0.333	300
5	70	5470	***Yes***	0.333	300
5	76	5471	***Yes***	0.333	300
5	80	5478	***Yes***	0.333	300
5	91	5489	***Yes***	0.333	300
5	93	5488	***Yes***	0.333	300
5	98	5520	***Yes***	0.333	300

****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail(05-10-2017 16:01:10)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
6	0	5336	No	0.333	300
6	1	5525	***Yes***	0.333	300
6	5	5494	***Yes***	0.333	300
6	9	5498	***Yes***	0.333	300
6	12	5522	***Yes***	0.333	300
6	17	5467	***Yes***	0.333	300
6	18	5519	***Yes***	0.333	300
6	31	5473	***Yes***	0.333	300
6	51	5481	***Yes***	0.333	300
6	52	5515	***Yes***	0.333	300
6	60	5504	***Yes***	0.333	300
6	65	5476	***Yes***	0.333	300
6	72	5469	***Yes***	0.333	300

****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail(05-10-2017 16:01:44)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
7	9	5480	***Yes***	0.333	300
7	13	5467	***Yes***	0.333	300
7	19	5525	***Yes***	0.333	300
7	34	5478	***Yes***	0.333	300
7	37	5523	***Yes***	0.333	300
7	46	5479	***Yes***	0.333	300
7	55	5501	***Yes***	0.333	300
7	76	5470	***Yes***	0.333	300
7	77	5511	***Yes***	0.333	300
7	82	5469	***Yes***	0.333	300
7	86	5515	***Yes***	0.333	300
7	90	5522	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail(05-10-2017 16:02:04)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
8	0	5469	***Yes***	0.333	300
8	14	5481	***Yes***	0.333	300
8	15	5502	***Yes***	0.333	300
8	21	5477	***Yes***	0.333	300
8	24	5525	***Yes***	0.333	300
8	27	5466	***Yes***	0.333	300
8	28	5519	***Yes***	0.333	300
8	29	5494	***Yes***	0.333	300
8	43	5515	***Yes***	0.333	300
8	46	5489	***Yes***	0.333	300
8	63	5495	***Yes***	0.333	300
8	67	5518	***Yes***	0.333	300
8	70	5496	***Yes***	0.333	300
8	84	5482	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail(05-10-2017 16:02:24)

RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
9	8	5484	***Yes***	0.333	300
9	11	5476	***Yes***	0.333	300
9	16	5474	***Yes***	0.333	300
9	20	5494	***Yes***	0.333	300
9	30	5495	***Yes***	0.333	300
9	40	5503	***Yes***	0.333	300
9	41	5506	***Yes***	0.333	300
9	49	5515	***Yes***	0.333	30
9	51	5507	***Yes***	0.333	300
9	58	5500	***Yes***	0.333	300
9	67	5469	***Yes***	0.333	300
9	72	5524	***Yes***	0.333	300
9	74	5522	***Yes***	0.333	300
9	85	5510	***Yes***	0.333	300
9	93	5517	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail(05-10-2017 16:03:12)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
10	3	5467	***Yes***	0.333	300
10	5	5511	***Yes***	0.333	300
10	20	5482	***Yes***	0.333	300
10	22	5498	***Yes***	0.333	300
10	28	5523	***Yes***	0.333	300
10	31	5522	***Yes***	0.333	300
10	45	5470	***Yes***	0.333	300
10	55	5521	***Yes***	0.333	300
10	76	5486	***Yes***	0.333	300
10	77	5489	***Yes***	0.333	300
10	85	5493	***Yes***	0.333	300
10	86	5488	***Yes***	0.333	300
10	88	5471	***Yes***	0.333	300
10	91	5477	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail(05-10-2017 16:03:40)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
11	5	5496	***Yes***	0.333	300
11	7	5478	***Yes***	0.333	300
11	14	5489	***Yes***	0.333	300
11	18	5524	***Yes***	0.333	300
11	22	5508	***Yes***	0.333	300
11	27	5471	***Yes***	0.333	300
11	32	5512	***Yes***	0.333	300
11	47	5511	***Yes***	0.333	300
11	50	5504	***Yes***	0.333	300
11	58	5525	***Yes***	0.333	300
11	61	5490	***Yes***	0.333	300
11	62	5498	***Yes***	0.333	300
11	68	5506	***Yes***	0.333	300
11	72	5480	***Yes***	0.333	300
11	76	5500	***Yes***	0.333	300
11	96	5507	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-10-2017 16:04:13)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	10	5493	***Yes***	0.333	300
12	16	5482	***Yes***	0.333	300
12	17	5484	***Yes***	0.333	300
12	22	5472	***Yes***	0.333	300
12	29	5478	***Yes***	0.333	300
12	31	5509	***Yes***	0.333	300
12	34	5518	***Yes***	0.333	300
12	41	5511	***Yes***	0.333	300
12	42	5515	***Yes***	0.333	300
12	52	5475	***Yes***	0.333	300
12	63	5469	***Yes***	0.333	300
12	72	5521	***Yes***	0.333	300
12	83	5491	***Yes***	0.333	300
12	86	5525	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

```
Random DFS waveform parameters (Radar Type 6) in 13 Trail(05-10-2017 16:04:29)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 13            1             5512         ***Yes***                  0.333         300
 13            15            5529         ***Yes***                  0.333         300
 13            16            5525         ***Yes***                  0.333         300
 13            19            5490         ***Yes***                  0.333         300
 13            22            5487         ***Yes***                  0.333         300
 13            24            5502         ***Yes***                  0.333         300
 13            33            5509         ***Yes***                  0.333         300
 13            34            5516         ***Yes***                  0.333         300
 13            45            5479         ***Yes***                  0.333         300
 13            58            5500         ***Yes***                  0.333         300
 13            60            5476         ***Yes***                  0.333         300
 13            63            5510         ***Yes***                  0.333         300
 13            64            5470         ***Yes***                  0.333         300
 13            66            5489         ***Yes***                  0.333         300
 13            68            5523         ***Yes***                  0.333         300
 13            72            5471         ***Yes***                  0.333         300
 13            75            5518         ***Yes***                  0.333         300
 13            76            5475         ***Yes***                  0.333         300
 13            78            5511         ***Yes***                  0.333         300
 13            90            5517         ***Yes***                  0.333         300
************************************************************************************************************************
```

Type 6 Radar Waveform_14.txt

```
Random DFS waveform parameters (Radar Type 6) in 14 Trail(05-10-2017 16:04:50)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 14            3             5469         ***Yes***                  0.333         300
 14            4             5472         ***Yes***                  0.333         300
 14            7             5475         ***Yes***                  0.333         300
 14            12            5499         ***Yes***                  0.333         300
 14            13            5494         ***Yes***                  0.333         300
 14            15            5485         ***Yes***                  0.333         300
 14            19            5477         ***Yes***                  0.333         300
 14            26            5504         ***Yes***                  0.333         300
 14            35            5521         ***Yes***                  0.333         300
 14            39            5480         ***Yes***                  0.333         300
 14            40            5497         ***Yes***                  0.333         300
 14            41            5489         ***Yes***                  0.333         300
 14            54            5488         ***Yes***                  0.333         300
 14            61            5487         ***Yes***                  0.333         300
 14            62            5484         ***Yes***                  0.333         300
 14            67            5479         ***Yes***                  0.333         300
 14            69            5500         ***Yes***                  0.333         300
 14            84            5528         ***Yes***                  0.333         300
 14            85            5513         ***Yes***                  0.333         300
 14            86            5514         ***Yes***                  0.333         300
 14            87            5515         ***Yes***                  0.333         300
************************************************************************************************************************
```

Type 6 Radar Waveform_15.txt

```
Random DFS waveform parameters (Radar Type 6) in 15 Trail(05-10-2017 16:05:06)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 15            2             5506         ***Yes***                  0.333         300
 15            10            5514         ***Yes***                  0.333         300
 15            24            5525         ***Yes***                  0.333         300
 15            25            5477         ***Yes***                  0.333         300
 15            36            5483         ***Yes***                  0.333         300
 15            46            5487         ***Yes***                  0.333         300
 15            53            5529         ***Yes***                  0.333         300
 15            57            5526         ***Yes***                  0.333         300
 15            60            5507         ***Yes***                  0.333         300
 15            70            5476         ***Yes***                  0.333         300
 15            72            5473         ***Yes***                  0.333         300
 15            75            5488         ***Yes***                  0.333         300
 15            76            5504         ***Yes***                  0.333         300
 15            81            5517         ***Yes***                  0.333         300
************************************************************************************************************************
```

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-10-2017 16:05:24)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	3	5475	***Yes***	0.333	300
16	7	5514	***Yes***	0.333	300
16	9	5507	***Yes***	0.333	300
16	11	5524	***Yes***	0.333	300
16	20	5483	***Yes***	0.333	300
16	37	5481	***Yes***	0.333	300
16	39	5526	***Yes***	0.333	300
16	43	5509	***Yes***	0.333	300
16	44	5493	***Yes***	0.333	300
16	60	5518	***Yes***	0.333	300
16	64	5482	***Yes***	0.333	300
16	65	5504	***Yes***	0.333	300
16	66	5497	***Yes***	0.333	300
16	70	5529	***Yes***	0.333	300
16	97	5495	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-10-2017 16:06:03)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
17	39	5524	***Yes***	0.333	300
17	43	5486	***Yes***	0.333	300
17	48	5528	***Yes***	0.333	300
17	51	5481	***Yes***	0.333	300
17	72	5522	***Yes***	0.333	300
17	89	5474	***Yes***	0.333	300
17	92	5472	***Yes***	0.333	300
17	95	5495	***Yes***	0.333	300

****

Type 6 Radar Waveform_18.txt

Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-10-2017 16:06:22)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
18	6	5499	***Yes***	0.333	300
18	9	5525	***Yes***	0.333	300
18	22	5496	***Yes***	0.333	300
18	50	5491	***Yes***	0.333	300
18	54	5492	***Yes***	0.333	300
18	61	5481	***Yes***	0.333	300
18	93	5510	***Yes***	0.333	300

****

Type 6 Radar Waveform_19.txt

Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-10-2017 16:06:39)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
19	6	5480	***Yes***	0.333	300
19	7	5515	***Yes***	0.333	300
19	8	5504	***Yes***	0.333	300
19	9	5483	***Yes***	0.333	300
19	15	5476	***Yes***	0.333	300
19	19	5490	***Yes***	0.333	300
19	24	5482	***Yes***	0.333	300
19	25	5524	***Yes***	0.333	300
19	34	5495	***Yes***	0.333	300
19	43	5518	***Yes***	0.333	300
19	55	5517	***Yes***	0.333	300
19	58	5503	***Yes***	0.333	300
19	70	5494	***Yes***	0.333	300
19	72	5521	***Yes***	0.333	300
19	81	5514	***Yes***	0.333	300
19	99	5474	***Yes***	0.333	300

****

Type 6 Radar Waveform_20.txt

```
Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-10-2017 16:07:29)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 20            17            5504         ***Yes***                  0.333          300
 20            23            5495         ***Yes***                  0.333          300
 20            29            5533         ***Yes***                  0.333          300
 20            46            5498         ***Yes***                  0.333          300
 20            49            5485         ***Yes***                  0.333          300
 20            50            5505         ***Yes***                  0.333          300
 20            59            5490         ***Yes***                  0.333          300
 20            69            5528         ***Yes***                  0.333          300
 20            73            5492         ***Yes***                  0.333          300
 20            96            5475         ***Yes***                  0.333          300
**********************************************************************************************************************************
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Type 6 Radar Waveform_21.txt

```
Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-10-2017 16:07:47)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 21            8             5528         ***Yes***                  0.333          300
 21            9             5527         ***Yes***                  0.333          300
 21            19            5508         ***Yes***                  0.333          300
 21            22            5483         ***Yes***                  0.333          300
 21            28            5526         ***Yes***                  0.333          300
 21            34            5481         ***Yes***                  0.333          300
 21            35            5495         ***Yes***                  0.333          300
 21            36            5510         ***Yes***                  0.333          300
 21            44            5517         ***Yes***                  0.333          300
 21            46            5506         ***Yes***                  0.333          300
 21            58            5507         ***Yes***                  0.333          300
 21            63            5522         ***Yes***                  0.333          300
 21            65            5509         ***Yes***                  0.333          300
 21            72            5476         ***Yes***                  0.333          300
 21            74            5499         ***Yes***                  0.333          300
 21            84            5515         ***Yes***                  0.333          300
 21            88            5489         ***Yes***                  0.333          300
 21            94            5477         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_22.txt

```
Random DFS waveform parameters (Radar Type 6) in 22 Trail(05-10-2017 16:08:07)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 22            16            5518         ***Yes***                  0.333          300
 22            18            5534         ***Yes***                  0.333          300
 22            24            5477         ***Yes***                  0.333          300
 22            31            5481         ***Yes***                  0.333          300
 22            32            5476         ***Yes***                  0.333          300
 22            39            5474         ***Yes***                  0.333          300
 22            43            5490         ***Yes***                  0.333          300
 22            48            5511         ***Yes***                  0.333          300
 22            50            5530         ***Yes***                  0.333          300
 22            56            5493         ***Yes***                  0.333          300
 22            67            5502         ***Yes***                  0.333          300
 22            80            5528         ***Yes***                  0.333          300
 22            82            5512         ***Yes***                  0.333          300
 22            86            5478         ***Yes***                  0.333          300
 22            89            5527         ***Yes***                  0.333          300
 22            93            5533         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_23.txt

Random DFS waveform parameters (Radar Type 6) in 23 Trail(05-10-2017 16:08:25)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
23	1	5482	***Yes***	0.333	300
23	13	5498	***Yes***	0.333	300
23	18	5514	***Yes***	0.333	300
23	19	5528	***Yes***	0.333	300
23	29	5527	***Yes***	0.333	300
23	36	5487	***Yes***	0.333	300
23	41	5506	***Yes***	0.333	300
23	53	5521	***Yes***	0.333	300
23	67	5518	***Yes***	0.333	300
23	71	5481	***Yes***	0.333	300
23	82	5491	***Yes***	0.333	300
23	85	5505	***Yes***	0.333	300
23	94	5488	***Yes***	0.333	300
23	98	5484	***Yes***	0.333	300

****

Type 6 Radar Waveform_24.txt

Random DFS waveform parameters (Radar Type 6) in 24 Trail(05-10-2017 16:08:45)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
24	1	5485	***Yes***	0.333	300
24	4	5522	***Yes***	0.333	300
24	11	5496	***Yes***	0.333	300
24	28	5476	***Yes***	0.333	300
24	29	5521	***Yes***	0.333	300
24	55	5503	***Yes***	0.333	300
24	56	5475	***Yes***	0.333	300
24	59	5509	***Yes***	0.333	300
24	80	5523	***Yes***	0.333	300
24	81	5493	***Yes***	0.333	300
24	85	5483	***Yes***	0.333	300
24	98	5507	***Yes***	0.333	300

****

Type 6 Radar Waveform_25.txt

Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-10-2017 16:09:02)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
25	8	5478	***Yes***	0.333	300
25	16	5523	***Yes***	0.333	300
25	25	5525	***Yes***	0.333	300
25	28	5488	***Yes***	0.333	300
25	32	5518	***Yes***	0.333	300
25	37	5475	***Yes***	0.333	300
25	50	5526	***Yes***	0.333	300
25	65	5485	***Yes***	0.333	300
25	72	5482	***Yes***	0.333	300
25	73	5500	***Yes***	0.333	300
25	91	5476	***Yes***	0.333	300
25	97	5522	***Yes***	0.333	300

****

Type 6 Radar Waveform_26.txt

Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-10-2017 16:09:19)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
26	8	5497	***Yes***	0.333	300
26	10	5514	***Yes***	0.333	300
26	11	5529	***Yes***	0.333	300
26	16	5478	***Yes***	0.333	300
26	17	5536	***Yes***	0.333	300
26	21	5513	***Yes***	0.333	300
26	25	5517	***Yes***	0.333	300
26	29	5528	***Yes***	0.333	300
26	32	5526	***Yes***	0.333	300
26	45	5488	***Yes***	0.333	300
26	64	5512	***Yes***	0.333	300
26	66	5489	***Yes***	0.333	300
26	82	5525	***Yes***	0.333	300
26	95	5495	***Yes***	0.333	300

****

Type 6 Radar Waveform_27.txt

Random DFS waveform parameters (Radar Type 6) in 27 Trail(05-10-2017 16:09:41)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
27	1	5493	***Yes***	0.333	300
27	8	5492	***Yes***	0.333	300
27	13	5505	***Yes***	0.333	300
27	27	5527	***Yes***	0.333	300
27	29	5523	***Yes***	0.333	300
27	36	5504	***Yes***	0.333	300
27	38	5516	***Yes***	0.333	300
27	57	5490	***Yes***	0.333	300
27	59	5536	***Yes***	0.333	300
27	66	5481	***Yes***	0.333	300
27	75	5480	***Yes***	0.333	300
27	80	5484	***Yes***	0.333	300
27	81	5508	***Yes***	0.333	300
27	84	5500	***Yes***	0.333	300
27	92	5511	***Yes***	0.333	300
27	98	5525	***Yes***	0.333	300

Type 6 Radar Waveform_28.txt

Random DFS waveform parameters (Radar Type 6) in 28 Trail(05-10-2017 16:10:17)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
28	0	5489	***Yes***	0.333	300
28	3	5513	***Yes***	0.333	300
28	9	5509	***Yes***	0.333	300
28	11	5531	***Yes***	0.333	300
28	15	5488	***Yes***	0.333	300
28	48	5516	***Yes***	0.333	300
28	64	5530	***Yes***	0.333	300
28	66	5514	***Yes***	0.333	300
28	78	5533	***Yes***	0.333	300
28	81	5486	***Yes***	0.333	300
28	83	5507	***Yes***	0.333	300
28	89	5532	***Yes***	0.333	300

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail(05-10-2017 16:10:33)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
29	6	5503	***Yes***	0.333	300
29	11	5521	***Yes***	0.333	300
29	21	5487	***Yes***	0.333	300
29	31	5489	***Yes***	0.333	300
29	49	5492	***Yes***	0.333	300
29	66	5480	***Yes***	0.333	300
29	81	5514	***Yes***	0.333	300
29	88	5509	***Yes***	0.333	300
29	89	5508	***Yes***	0.333	300
29	91	5497	***Yes***	0.333	300
29	92	5481	***Yes***	0.333	300
29	97	5517	***Yes***	0.333	300

Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 30 Trail(05-10-2017 16:10:57)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
30	5	5528	***Yes***	0.333	300
30	18	5529	***Yes***	0.333	300
30	23	5521	***Yes***	0.333	300
30	24	5538	***Yes***	0.333	300
30	25	5520	***Yes***	0.333	300
30	43	5478	***Yes***	0.333	300
30	45	5536	***Yes***	0.333	300
30	50	5515	***Yes***	0.333	300
30	51	5483	***Yes***	0.333	300
30	75	5487	***Yes***	0.333	300
30	87	5512	***Yes***	0.333	300
30	90	5497	***Yes***	0.333	300

11n40 CH102 5510MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	1	838	63	1
2	5497	1	538	99	1
3	5498	1	798	67	1
4	5499	1	598	89	1
5	5500	1	738	72	1
6	5501	1	858	62	1
7	5502	1	698	76	1
8	5503	1	558	95	1
9	5504	1	718	74	1
10	5505	1	578	92	1
11	5506	1	638	83	1
12	5507	1	678	78	1
13	5508	1	758	70	1
14	5509	1	658	81	1
15	5510	1	878	61	1
16	5511	1	1257	42	1
17	5512	1	781	68	1
18	5513	1	2097	26	1
19	5514	1	1405	38	1
20	5515	1	829	64	1
21	5516	1	651	82	1
22	5517	1	1527	35	1
23	5518	1	2395	23	1
24	5519	1	1691	32	1
25	5520	1	2578	21	1
26	5521	1	1889	28	1
27	5522	1	1696	32	1
28	5523	1	2915	19	1
29	5524	1	1022	52	1
30	5525	1	2769	20	1
	Detection Percentage				100% (>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	1.5	192	23	1
2	5497	1.899999976	228	26	1
3	5498	3.100000143	162	24	1
4	5499	4.800000191	168	26	1
5	5500	1.100000024	223	25	1
6	5501	2.900000095	198	25	1
7	5502	4.400000095	228	23	1
8	5503	1.899999976	191	29	1
9	5504	3.799999952	156	24	1
10	5505	1.200000048	158	28	1
11	5506	1.200000048	189	28	1
12	5507	3.299999952	184	23	1
13	5508	4.400000095	216	24	1
14	5509	2	159	27	1
15	5510	3.900000095	189	26	1
16	5511	3.600000143	165	27	1
17	5512	3.5	164	27	1
18	5513	4.200000286	162	24	1
19	5514	3.799999952	164	26	1
20	5515	4.599999905	230	24	1
21	5516	3.100000143	167	24	1
22	5517	4.900000095	161	29	1
23	5518	1.5	188	23	1
24	5519	2.900000095	155	24	1
25	5520	3.900000095	167	24	1
26	5521	2.600000143	228	28	1
27	5522	3.200000048	152	28	
28	5523	4.599999905	196	23	1
29	5524	4	172	25	1
30	5525	3.900000095	213	29	1
	Detection Percentage				96.67% (>60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	8.400000572	457	16	1
2	5497	8	303	17	1
3	5498	6.900000095	316	18	1
4	5499	9	384	18	1
5	5500	6.5	458	16	1
6	5501	9.800000191	491	18	1
7	5502	7	421	18	1
8	5503	6.099999905	310	17	1
9	5504	7	470	17	1
10	5505	9.300000191	326	18	1
11	5506	7.300000191	260	16	1
12	5507	8.900000572	374	17	1
13	5508	7.599999905	303	18	1
14	5509	6.200000286	302	18	1
15	5510	8.699999809	385	18	1
16	5511	7.200000286	495	18	1
17	5512	8.300000191	428	18	1
18	5513	6.5	493	17	1
19	5514	8.699999809	331	18	1
20	5515	8.800000191	481	17	1
21	5516	6.900000095	468	18	1
22	5517	10	279	17	1
23	5518	9.900000572	384	17	1
24	5519	9.699999809	483	17	1
25	5520	8.199999809	250	18	1
26	5521	9.5	258	18	1
27	5522	6.900000095	344	18	1
28	5523	6.800000191	372	18	1
29	5524	9.900000572	294	18	1
30	5525	7.700000286	498	18	1
	Detection Percentage				100% (>60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5496	13	305	13	1
2	5497	15	315	16	1
3	5498	13.40000057	407	13	
4	5499	15.90000057	425	15	1
5	5500	17.30000114	344	15	1
6	5501	14	467	16	1
7	5502	12.69999981	470	13	1
8	5503	15.80000019	465	14	1
9	5504	18.10000038	488	12	1
10	5505	15.60000038	423	12	1
11	5506	12.40000057	338	15	1
12	5507	18.70000076	320	14	1
13	5508	18.30000114	262	12	1
14	5509	16.60000038	375	12	1
15	5510	16.70000076	433	16	1
16	5511	11.5	476	15	1
17	5512	18.10000038	418	13	1
18	5513	14.40000057	348	15	1
19	5514	13.69999981	440	14	1
20	5515	17.39999962	384	15	1
21	5516	13.30000019	461	15	1
22	5517	15.5	434	13	1
23	5518	12.90000057	266	13	1
24	5519	13.19999981	344	14	1
25	5520	11.40000057	270	16	1
26	5521	15.90000057	294	16	1
27	5522	15.69999981	342	13	1
28	5523	12.60000038	446	14	1
29	5524	16.70000076	258	15	1
30	5525	17	363	12	
	Detection Percentage				93.33% (>60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$ = (100%+96.67%+100%+93.33%)/4 = 97.5% (>80%)

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8	12	5.51	1
1	Type 5	8	1.5	12	5.51	1
2	Type 5	11	1.090909	12	5.51	1
3	Type 5	20	0.6	12	5.51	1
4	Type 5	17	0.705882	12	5.51	1
5	Type 5	14	0.857143	12	5.51	1
6	Type 5	15	0.8	12	5.51	1
7	Type 5	12	1	12	5.51	1
8	Type 5	14	0.857143	12	5.51	1
9	Type 5	8	1.5	12	5.51	1
10	Type 5	17	0.705882	12	5.4964	1
11	Type 5	19	0.631579	12	5.4976	
12	Type 5	15	0.8	12	5.4952	1
13	Type 5	12	1	12	5.494	1
14	Type 5	19	0.631579	12	5.4972	
15	Type 5	14	0.857143	12	5.4948	1
16	Type 5	20	0.6	12	5.498	1
17	Type 5	12	1	12	5.494	1
18	Type 5	14	0.857143	12	5.4948	1
19	Type 5	12	1	12	5.494	1
20	Type 5	16	0.75	12	5.524	1
21	Type 5	12	1	12	5.5264	1
22	Type 5	20	0.6	12	5.522	1
23	Type 5	14	0.857143	12	5.5252	
24	Type 5	13	0.923077	12	5.5256	1
25	Type 5	8	1.5	12	5.528	1
26	Type 5	17	0.705882	12	5.5236	1
27	Type 5	19	0.631579	12	5.5224	1
28	Type 5	12	1	12	5.526	
29	Type 5	18	0.666667	12	5.5232	1
		Detection Percentage				86.67% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	1
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	1
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	1
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		100 % (>70 %)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-10-2017 16:24:00)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	14	5501	***Yes***	0.333	300
1	17	5490	***Yes***	0.333	300
1	22	5512	***Yes***	0.333	300
1	29	5517	***Yes***	0.333	300
1	30	5499	***Yes***	0.333	3000
1	37	5500	***Yes***	0.333	300
1	55	5475	***Yes***	0.333	300
1	63	5481	***Yes***	0.333	300
1	65	5515	***Yes***	0.333	300
1	80	5484	***Yes***	0.333	300
1	86	5520	***Yes***	0.333	300

Type 6 Radar Waveform_2.txt

Random DFS waveform parameters (Radar Type 6) in 2 Trail(05-10-2017 16:26:06)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	9	5471	***Yes***	0.333	300
2	35	5481	***Yes***	0.333	300
2	36	5511	***Yes***	0.333	300
2	45	5524	***Yes***	0.333	300
2	50	5520	***Yes***	0.333	300
2	51	5503	***Yes***	0.333	300
2	61	5496	***Yes***	0.333	300
2	71	5479	***Yes***	0.333	300
2	82	5517	***Yes***	0.333	300
2	83	5492	***Yes***	0.333	300
2	88	5518	***Yes***	0.333	300
2	94	5522	***Yes***	0.333	300

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-10-2017 17:06:14)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	1	5470	***Yes***	0.333	300
3	15	5495	***Yes***	0.333	300
3	26	5492	***Yes***	0.333	300
3	37	5527	***Yes***	0.333	300
3	38	5475	***Yes***	0.333	300
3	44	5517	***Yes***	0.333	300
3	48	5509	***Yes***	0.333	300
3	50	5480	***Yes***	0.333	300
3	55	5523	***Yes***	0.333	300
3	58	5486	***Yes***	0.333	300
3	63	5489	***Yes***	0.333	300
3	67	5513	***Yes***	0.333	300
3	72	5493	***Yes***	0.333	300
3	75	5515	***Yes***	0.333	300
3	78	5519	***Yes***	0.333	300
3	81	5488	***Yes***	0.333	300

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail(05-10-2017 17:06:37)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
4	9	5498	***Yes***	0.333	300
4	35	5484	***Yes***	0.333	300
4	41	5470	***Yes***	0.333	300
4	54	5504	***Yes***	0.333	300
4	59	5501	***Yes***	0.333	300
4	62	5511	***Yes***	0.333	300
4	72	5507	***Yes***	0.333	300
4	79	5478	***Yes***	0.333	300
4	85	5518	***Yes***	0.333	300
4	90	5508	***Yes***	0.333	300

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail(05-10-2017 17:06:55)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
5	19	5477	***Yes***	0.333	300
5	26	5515	***Yes***	0.333	300
5	37	5485	***Yes***	0.333	300
5	38	5493	***Yes***	0.333	300
5	43	5527	***Yes***	0.333	300
5	47	5494	***Yes***	0.333	300
5	59	5530	***Yes***	0.333	300
5	63	5476	***Yes***	0.333	300
5	66	5496	***Yes***	0.333	300
5	69	5501	***Yes***	0.333	300
5	79	5484	***Yes***	0.333	300
5	86	5504	***Yes***	0.333	300
5	87	5470	***Yes***	0.333	300
5	89	5474	***Yes***	0.333	300
5	96	5520	***Yes***	0.333	300

****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail(05-10-2017 17:07:15)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
6	8	5524	***Yes***	0.333	300
6	9	5528	***Yes***	0.333	300
6	26	5492	***Yes***	0.333	300
6	36	5505	***Yes***	0.333	300
6	48	5525	***Yes***	0.333	300
6	50	5530	***Yes***	0.333	300
6	55	5519	***Yes***	0.333	300
6	65	5489	***Yes***	0.333	300
6	72	5473	***Yes***	0.333	300
6	78	5512	***Yes***	0.333	300
6	89	5526	***Yes***	0.333	300

****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail(05-10-2017 17:07:39)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
7	8	5502	***Yes***	0.333	300
7	10	5490	***Yes***	0.333	300
7	37	5516	***Yes***	0.333	300
7	63	5497	***Yes***	0.333	300
7	92	5520	***Yes***	0.333	300
7	94	5500	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail(05-10-2017 17:09:01)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
8	7	5514	***Yes***	0.333	300
8	10	5512	***Yes***	0.333	300
8	19	5506	***Yes***	0.333	300
8	28	5510	***Yes***	0.333	300
8	31	5481	***Yes***	0.333	300
8	33	5515	***Yes***	0.333	300
8	41	5505	***Yes***	0.333	300
8	42	5494	***Yes***	0.333	300
8	51	5533	***Yes***	0.333	300
8	61	5487	***Yes***	0.333	300
8	71	5493	***Yes***	0.333	300
8	91	5518	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail(05-10-2017 17:09:56)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
9	25	5529	***Yes***	0.333	300
9	26	5531	***Yes***	0.333	300
9	34	5521	***Yes***	0.333	300
9	77	5507	***Yes***	0.333	300
9	83	5517	***Yes***	0.333	300
9	99	5504	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail(05-10-2017 17:10:14)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
10	3	5486	***Yes***	0.333	300
10	13	5496	***Yes***	0.333	300
10	25	5519	***Yes***	0.333	300
10	85	5499	***Yes***	0.333	300
10	86	5514	***Yes***	0.333	300
10	94	5482	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail(05-10-2017 17:10:30)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
11	1	5514	***Yes***	0.333	300
11	5	5483	***Yes***	0.333	300
11	7	5520	***Yes***	0.333	300
11	13	5533	***Yes***	0.333	300
11	23	5497	***Yes***	0.333	300
11	30	5484	***Yes***	0.333	300
11	44	5524	***Yes***	0.333	300
11	47	5492	***Yes***	0.333	300
11	55	5509	***Yes***	0.333	300
11	63	5532	***Yes***	0.333	300
11	68	5481	***Yes***	0.333	300
11	75	5504	***Yes***	0.333	300
11	83	5511	***Yes***	0.333	300
11	98	5485	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-10-2017 17:11:03)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	12	5525	***Yes***	0.333	300
12	14	5503	***Yes***	0.333	300
12	17	5489	***Yes***	0.333	300
12	24	5482	***Yes***	0.333	300
12	25	5524	***Yes***	0.333	300
12	37	5531	***Yes***	0.333	300
12	38	5520	***Yes***	0.333	300
12	40	5528	***Yes***	0.333	300
12	46	5510	***Yes***	0.333	300
12	50	5496	***Yes***	0.333	300
12	51	5533	***Yes***	0.333	300
12	57	5535	***Yes***	0.333	300
12	59	5485	***Yes***	0.333	300
12	71	5519	***Yes***	0.333	300
12	72	5536	***Yes***	0.333	300
12	83	5512	***Yes***	0.333	300
12	92	5501	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

```
Random DFS waveform parameters (Radar Type 6) in 13 Trail(05-10-2017 17:11:31)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 13            11            5525         ***Yes***                  0.333          300
 13            15            5521         ***Yes***                  0.333          300
 13            20            5534         ***Yes***                  0.333          300
 13            22            5536         ***Yes***                  0.333          300
 13            27            5488         ***Yes***                  0.333          300
 13            31            5512         ***Yes***                  0.333          300
 13            38            5486         ***Yes***                  0.333          300
 13            40            5485         ***Yes***                  0.333          300
 13            42            5538         ***Yes***                  0.333          300
 13            43            5526         ***Yes***                  0.333          300
 13            55            5520         ***Yes***                  0.333          300
 13            58            5519         ***Yes***                  0.333          300
 13            59            5499         ***Yes***                  0.333          300
 13            64            5496         ***Yes***                  0.333          300
 13            67            5507         ***Yes***                  0.333          300
 13            70            5491         ***Yes***                  0.333          300
 13            85            5490         ***Yes***                  0.333          300
 13            89            5478         ***Yes***                  0.333          300
 13            93            5529         ***Yes***                  0.333          300
 13            96            5481         ***Yes***                  0.333          300
 13            99            5531         ***Yes***                  0.333          300
**********************************************************************************************************************
```

Type 6 Radar Waveform_14.txt

```
Random DFS waveform parameters (Radar Type 6) in 14 Trail(05-10-2017 17:11:58)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 14            2             5480         ***Yes***                  0.333          300
 14            6             5481         ***Yes***                  0.333          300
 14            18            5507         ***Yes***                  0.333          300
 14            22            5509         ***Yes***                  0.333          300
 14            26            5485         ***Yes***                  0.333          300
 14            28            5498         ***Yes***                  0.333          300
 14            46            5513         ***Yes***                  0.333          300
 14            61            5521         ***Yes***                  0.333          300
 14            62            5503         ***Yes***                  0.333          300
 14            63            5530         ***Yes***                  0.333          300
 14            65            5517         ***Yes***                  0.333          300
 14            74            5516         ***Yes***                  0.333          300
 14            77            5499         ***Yes***                  0.333          300
 14            81            5490         ***Yes***                  0.333          300
 14            85            5523         ***Yes***                  0.333          300
 14            88            5492         ***Yes***                  0.333          300
 14            97            5512         ***Yes***                  0.333          300
**********************************************************************************************************************
```

Type 6 Radar Waveform_15.txt

```
Random DFS waveform parameters (Radar Type 6) in 15 Trail(05-10-2017 17:12:16)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 15            16            5505         ***Yes***                  0.333          300
 15            29            5497         ***Yes***                  0.333          300
 15            49            5522         ***Yes***                  0.333          300
 15            51            5535         ***Yes***                  0.333          300
 15            57            5521         ***Yes***                  0.333          300
 15            58            5494         ***Yes***                  0.333          300
 15            72            5533         ***Yes***                  0.333          300
 15            73            5513         ***Yes***                  0.333          300
 15            85            5495         ***Yes***                  0.333          300
 15            99            5537         ***Yes***                  0.333          300
**********************************************************************************************************************
```

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-10-2017 17:12:33)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	12	5482	***Yes***	0.333	300
16	25	5521	***Yes***	0.333	300
16	26	5503	***Yes***	0.333	300
16	45	5488	***Yes***	0.333	300
16	63	5507	***Yes***	0.333	300
16	69	5538	***Yes***	0.333	300
16	70	5530	***Yes***	0.333	300
16	79	5523	***Yes***	0.333	300
16	81	5504	***Yes***	0.333	300
16	84	5529	***Yes***	0.333	300
16	85	5513	***Yes***	0.333	300
16	87	5493	***Yes***	0.333	300
16	92	5497	***Yes***	0.333	300
16	95	5486	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-10-2017 17:12:48)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
17	9	5509	***Yes***	0.333	300
17	13	5515	***Yes***	0.333	300
17	27	5529	***Yes***	0.333	300
17	31	5502	***Yes***	0.333	300
17	32	5532	***Yes***	0.333	300
17	54	5523	***Yes***	0.333	300
17	55	5487	***Yes***	0.333	300
17	71	5492	***Yes***	0.333	300
17	73	5525	***Yes***	0.333	300
17	80	5539	***Yes***	0.333	300
17	86	5513	***Yes***	0.333	300
17	89	5506	***Yes***	0.333	300

****

Type 6 Radar Waveform_18.txt

Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-10-2017 17:13:04)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
18	0	5508	***Yes***	0.333	300
18	9	5533	***Yes***	0.333	300
18	11	5505	***Yes***	0.333	300
18	14	5504	***Yes***	0.333	300
18	20	5534	***Yes***	0.333	300
18	27	5530	***Yes***	0.333	300
18	32	5511	***Yes***	0.333	300
18	36	5514	***Yes***	0.333	300
18	57	5529	***Yes***	0.333	300
18	59	5498	***Yes***	0.333	300
18	64	5539	***Yes***	0.333	300
18	66	5510	***Yes***	0.333	300
18	69	5483	***Yes***	0.333	300
18	70	5517	***Yes***	0.333	300
18	74	5500	***Yes***	0.333	300
18	77	5526	***Yes***	0.333	300

****

Type 6 Radar Waveform_19.txt

Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-10-2017 17:14:57)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
19	0	5487	***Yes***	0.333	300
19	18	5501	***Yes***	0.333	300
19	19	5502	***Yes***	0.333	300
19	23	5484	***Yes***	0.333	300
19	28	5526	***Yes***	0.333	300
19	30	5500	***Yes***	0.333	300
19	42	5505	***Yes***	0.333	300
19	49	5493	***Yes***	0.333	300
19	55	5490	***Yes***	0.333	300
19	59	5510	***Yes***	0.333	300
19	63	5516	***Yes***	0.333	300
19	69	5521	***Yes***	0.333	300
19	82	5485	***Yes***	0.333	300
19	86	5531	***Yes***	0.333	300
19	95	5489	***Yes***	0.333	300

****

Type 6 Radar Waveform_20.txt

Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-10-2017 17:15:15)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
20	2	5488	***Yes***	0.333	300
20	8	5536	***Yes***	0.333	300
20	10	5537	***Yes***	0.333	300
20	11	5522	***Yes***	0.333	300
20	13	5521	***Yes***	0.333	300
20	19	5502	***Yes***	0.333	300
20	43	5539	***Yes***	0.333	300
20	44	5534	***Yes***	0.333	300
20	53	5505	***Yes***	0.333	300
20	55	5499	***Yes***	0.333	300
20	62	5523	***Yes***	0.333	300
20	65	5509	***Yes***	0.333	300
20	77	5538	***Yes***	0.333	300
20	89	5516	***Yes***	0.333	300
20	96	5492	***Yes***	0.333	300

****

Type 6 Radar Waveform_21.txt

Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-10-2017 17:15:32)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
21	6	5518	***Yes***	0.333	300
21	26	5533	***Yes***	0.333	300
21	30	5491	***Yes***	0.333	300
21	32	5537	***Yes***	0.333	300
21	34	5509	***Yes***	0.333	300
21	62	5495	***Yes***	0.333	300
21	64	5520	***Yes***	0.333	300
21	65	5487	***Yes***	0.333	300
21	85	5539	***Yes***	0.333	300
21	87	5515	***Yes***	0.333	300
21	89	5486	***Yes***	0.333	300
21	92	5500	***Yes***	0.333	300

****

Type 6 Radar Waveform_22.txt

Random DFS waveform parameters (Radar Type 6) in 22 Trail(05-10-2017 17:15:48)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
22	10	5515	***Yes***	0.333	300
22	12	5508	***Yes***	0.333	300
22	15	5506	***Yes***	0.333	300
22	16	5540	***Yes***	0.333	300
22	19	5538	***Yes***	0.333	300
22	23	5492	***Yes***	0.333	300
22	30	5489	***Yes***	0.333	300
22	34	5502	***Yes***	0.333	300
22	38	5528	***Yes***	0.333	300
22	50	5519	***Yes***	0.333	300
22	60	5495	***Yes***	0.333	300
22	62	5505	***Yes***	0.333	300
22	77	5494	***Yes***	0.333	300
22	92	5532	***Yes***	0.333	300
22	97	5525	***Yes***	0.333	300

****

Type 6 Radar Waveform_23.txt

Random DFS waveform parameters (Radar Type 6) in 23 Trail(05-10-2017 17:16:04)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
23	5	5536	***Yes***	0.333	300
23	8	5534	***Yes***	0.333	300
23	21	5533	***Yes***	0.333	300
23	27	5540	***Yes***	0.333	300
23	28	5497	***Yes***	0.333	300
23	30	5530	***Yes***	0.333	300
23	31	5517	***Yes***	0.333	300
23	34	5544	***Yes***	0.333	300
23	50	5512	***Yes***	0.333	300
23	77	5537	***Yes***	0.333	300
23	80	5521	***Yes***	0.333	300
23	84	5490	***Yes***	0.333	300
23	90	5515	***Yes***	0.333	300
23	94	5494	***Yes***	0.333	300

****

Type 6 Radar Waveform_24.txt

Random DFS waveform parameters (Radar Type 6) in 24 Trail(05-10-2017 17:16:20)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
24	7	5532	***Yes***	0.333	300
24	12	5505	***Yes***	0.333	300
24	14	5526	***Yes***	0.333	300
24	25	5544	***Yes***	0.333	300
24	26	5501	***Yes***	0.333	300
24	47	5542	***Yes***	0.333	300
24	54	5499	***Yes***	0.333	300
24	59	5509	***Yes***	0.333	300
24	62	5539	***Yes***	0.333	300
24	67	5543	***Yes***	0.333	300
24	78	5498	***Yes***	0.333	300
24	82	5538	***Yes***	0.333	300
24	99	5511	***Yes***	0.333	300

****

Type 6 Radar Waveform_25.txt

Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-10-2017 17:16:37)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
25	0	5544	***Yes***	0.333	300
25	1	5510	***Yes***	0.333	300
25	3	5523	***Yes***	0.333	300
25	19	5497	***Yes***	0.333	3000
25	39	5492	***Yes***	0.333	300
25	41	5521	***Yes***	0.333	300
25	45	5512	***Yes***	0.333	300
25	55	5513	***Yes***	0.333	300
25	57	5500	***Yes***	0.333	300
25	58	5549	***Yes***	0.333	300
25	78	5511	***Yes***	0.333	300
25	82	5517	***Yes***	0.333	300
25	86	5499	***Yes***	0.333	300
25	92	5530	***Yes***	0.333	300
25	94	5493	***Yes***	0.333	300
25	96	5545	***Yes***	0.333	300
25	97	5537	***Yes***	0.333	300

****

Type 6 Radar Waveform_26.txt

Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-10-2017 17:16:54)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
26	1	5533	***Yes***	0.333	300
26	23	5498	***Yes***	0.333	300
26	25	5534	***Yes***	0.333	300
26	37	5507	***Yes***	0.333	300
26	39	5544	***Yes***	0.333	300
26	40	5509	***Yes***	0.333	300
26	48	5536	***Yes***	0.333	300
26	49	5522	***Yes***	0.333	300
26	52	5540	***Yes***	0.333	300
26	70	5520	***Yes***	0.333	300
26	72	5547	***Yes***	0.333	300
26	77	5492	***Yes***	0.333	300
26	97	5549	***Yes***	0.333	300

****

Type 6 Radar Waveform_27.txt

Random DFS waveform parameters (Radar Type 6) in 27 Trail(05-10-2017 17:17:10)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
27	18	5524	***Yes***	0.333	300
27	37	5521	***Yes***	0.333	300
27	39	5545	***Yes***	0.333	300
27	45	5498	***Yes***	0.333	300
27	47	5522	***Yes***	0.333	300
27	48	5544	***Yes***	0.333	300
27	56	5549	***Yes***	0.333	300
27	63	5532	***Yes***	0.333	300
27	69	5546	***Yes***	0.333	300
27	81	5551	***Yes***	0.333	300
27	87	5535	***Yes***	0.333	300
27	93	5507	***Yes***	0.333	300
27	98	5493	***Yes***	0.333	300

****

Type 6 Radar Waveform_28.txt

Random DFS waveform parameters (Radar Type 6) in 28 Trail(05-10-2017 17:17:27)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
28	8	5507	***Yes***	0.333	300
28	15	5505	***Yes***	0.333	300
28	30	5525	***Yes***	0.333	300
28	33	5548	***Yes***	0.333	300
28	34	5539	***Yes***	0.333	300
28	41	5509	***Yes***	0.333	300
28	46	5543	***Yes***	0.333	300
28	65	5537	***Yes***	0.333	300
28	67	5545	***Yes***	0.333	300
28	69	5532	***Yes***	0.333	300
28	78	5521	***Yes***	0.333	300
28	87	5510	***Yes***	0.333	300
28	88	5542	***Yes***	0.333	300
28	98	5493	***Yes***	0.333	300

****

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail(05-10-2017 17:17:45)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
29	6	5494	***Yes***	0.333	300
29	9	5497	***Yes***	0.333	300
29	22	5510	***Yes***	0.333	300
29	30	5545	***Yes***	0.333	300
29	31	5531	***Yes***	0.333	300
29	47	5533	***Yes***	0.333	300
29	50	5542	***Yes***	0.333	300
29	52	5552	***Yes***	0.333	300
29	76	5502	***Yes***	0.333	300
29	77	5526	***Yes***	0.333	300
29	81	5529	***Yes***	0.333	300
29	99	5516	***Yes***	0.333	300

****

Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 30 Trail(05-10-2017 17:18:03)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
30	1	5553	***Yes***	0.333	300
30	3	5519	***Yes***	0.333	300
30	5	5545	***Yes***	0.333	300
30	14	5537	***Yes***	0.333	300
30	17	5521	***Yes***	0.333	300
30	23	5546	***Yes***	0.333	300
30	37	5500	***Yes***	0.333	300
30	38	5505	***Yes***	0.333	300
30	40	5502	***Yes***	0.333	300
30	46	5514	***Yes***	0.333	300
30	47	5515	***Yes***	0.333	300
30	75	5507	***Yes***	0.333	300
30	80	5532	***Yes***	0.333	300
30	82	5509	***Yes***	0.333	300
30	88	5540	***Yes***	0.333	300
30	89	5527	***Yes***	0.333	300
30	99	5516	***Yes***	0.333	300

****

11ac80 CH106 5530MHz

Type 1 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	1	598	89	1
2	5517	1	538	99	1
3	5518	1	858	62	1
4	5519	1	778	68	1
5	5520	1	718	74	1
6	5521	1	758	70	1
7	5522	1	658	81	1
8	5523	1	818	65	1
9	5524	1	918	58	1
10	5525	1	878	61	1
11	5526	1	678	78	1
12	5527	1	898	59	1
13	5528	1	3066	18	1
14	5529	1	938	57	1
15	5530	1	618	86	1
16	5531	1	847	63	1
17	5532	1	889	60	1
18	5533	1	2035	26	1
19	5534	1	1020	52	1
20	5535	1	2384	23	1
21	5536	1	1996	27	1
22	5537	1	2327	23	1
23	5538	1	1321	40	1
24	5539	1	2593	21	1
25	5540	1	2105	26	1
26	5541	1	671	79	1
27	5542	1	2824	19	1
28	5543	1	710	75	1
29	5544	1	1779	30	1
30	5545	1	2523	21	1
	Detection Percentage				100% (>60%)

Type 2 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	1.399999976	189	28	1
2	5517	3.799999952	155	27	1
3	5518	4.900000095	199	23	1
4	5519	2.600000143	207	28	1
5	5520	4.400000095	155	25	1
6	5521	2.799999952	208	28	1
7	5522	2.200000048	203	26	1
8	5523	2.5	209	28	1
9	5524	3.200000048	159	26	1
10	5525	1.300000072	225	26	1
11	5526	1.800000072	190	23	1
12	5527	1.800000072	198	28	1
13	5528	3.200000048	215	23	1
14	5529	2	197	27	1
15	5530	1.100000024	220	24	1
16	5531	2.400000095	219	27	1
17	5532	2	152	23	1
18	5533	2.700000048	160	28	1
19	5534	3.400000095	197	25	1
20	5535	4.800000191	201	25	1
21	5536	3.700000048	170	28	1
22	5537	1.200000048	176	27	1
23	5538	4.599999905	189	25	1
24	5539	2.299999952	157	29	1
25	5540	2.400000095	185	24	1
26	5541	1	174	29	1
27	5542	1.600000024	224	29	1
28	5543	3.200000048	223	29	1
29	5544	2.799999952	220	26	1
30	5545	3.799999952	169	29	1
	Detection Percentage				100% (>60%)

Type 3 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	6.5	362	17	1
2	5517	7	474	16	1
3	5518	9.699999809	282	16	1
4	5519	6.599999905	262	17	
5	5520	9.199999809	420	18	1
6	5521	8.699999809	497	17	1
7	5522	6	252	18	1
8	5523	7.400000095	315	16	1
9	5524	7.900000095	313	16	1
10	5525	9.400000572	477	16	1
11	5526	6.800000191	411	16	1
12	5527	8.800000191	307	16	1
13	5528	9.300000191	334	17	1
14	5529	9.400000572	401	18	1
15	5530	6.400000095	500	18	1
16	5531	7.800000191	466	16	1
17	5532	7.300000191	355	18	1
18	5533	8.699999809	297	17	1
19	5534	7.200000286	300	17	1
20	5535	6	320	16	1
21	5536	6.599999905	295	17	1
22	5537	7.599999905	395	16	1
23	5538	8.800000191	424	18	1
24	5539	9.5	414	16	1
25	5540	6.599999905	432	16	1
26	5541	7.400000095	280	17	1
27	5542	9.699999809	368	18	1
28	5543	9.800000191	475	18	1
29	5544	8.199999809	308	17	1
30	5545	9.5	400	17	1
	Detection Percentage				96.67%>(60%)

Type 4 Radar Statistical Performance

Trial Number	Freq(MHz)	Pulse Width (us)	PRI (us)	Pulses/Burst	1=Detection Blank=No Detection
1	5516	13.40000057	268	14	1
2	5517	12.5	445	14	1
3	5518	13.60000038	266	13	1
4	5519	11.30000019	423	15	1
5	5520	15	391	12	1
6	5521	15.80000019	419	12	1
7	5522	11.19999981	418	15	1
8	5523	11.90000057	265	15	1
9	5524	14.69999981	454	15	1
10	5525	18.70000076	432	15	1
11	5526	14.30000019	411	14	1
12	5527	17	379	15	1
13	5528	15.40000057	324	15	1
14	5529	17	254	14	1
15	5530	16.89999962	425	13	1
16	5531	16.39999962	293	12	1
17	5532	17.70000076	400	14	1
18	5533	18.5	484	13	1
19	5534	14	384	16	1
20	5535	14.80000019	431	12	1
21	5536	18	279	16	1
22	5537	17.10000038	260	15	1
23	5538	15.60000038	292	13	1
24	5539	16.80000114	332	12	
25	5540	17.39999962	495	12	1
26	5541	11.10000038	301	14	1
27	5542	13.90000057	474	13	1
28	5543	12.10000038	375	14	1
29	5544	11.60000038	476	16	1
30	5545	11.10000038	316	16	1
	Detection Percentage				96.67% (>60%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$ = (100%+100%+96.67%+96.67%)/4=98.335% (>80%)

Type 5 Radar Statistical Performance

Trial Number	Radar Type	Number of Bursts	Burst Period(s)	Waveform Length(s)	Center Frequency(Ghz)	1=Detection Blank=No Detection
0	Type 5	15	0.8	12	5.53	1
1	Type 5	8	1.5	12	5.53	1
2	Type 5	11	1.090909	12	5.53	1
3	Type 5	20	0.6	12	5.53	1
4	Type 5	17	0.705882	12	5.53	1
5	Type 5	14	0.857143	12	5.53	1
6	Type 5	15	0.8	12	5.53	1
7	Type 5	12	1	12	5.53	1
8	Type 5	14	0.857143	12	5.53	1
9	Type 5	8	1.5	12	5.53	1
10	Type 5	17	0.705882	12	5.4964	1
11	Type 5	19	0.631579	12	5.4976	1
12	Type 5	15	0.8	12	5.4952	1
13	Type 5	12	1	12	5.494	1
14	Type 5	19	0.631579	12	5.4972	1
15	Type 5	14	0.857143	12	5.4948	1
16	Type 5	20	0.6	12	5.498	
17	Type 5	12	1	12	5.494	1
18	Type 5	14	0.857143	12	5.4948	
19	Type 5	12	1	12	5.494	1
20	Type 5	16	0.75	12	5.564	
21	Type 5	12	1	12	5.5664	1
22	Type 5	20	0.6	12	5.562	1
23	Type 5	14	0.857143	12	5.5652	1
24	Type 5	13	0.923077	12	5.5656	
25	Type 5	8	1.5	12	5.568	1
26	Type 5	17	0.705882	12	5.5636	
27	Type 5	19	0.631579	12	5.5624	1
28	Type 5	12	1	12	5.566	1
29	Type 5	18	0.666667	12	5.5632	1
		Detection Percentage				83.33% (>80%)

Type 6 Radar Statistical Performance

Trial Number	File name	1=Detection Blank=No Detection
1	Statistical_Check_RandParm_For_Radar_Type_6_1_trail	1
2	Statistical_Check_RandParm_For_Radar_Type_6_2_trail	1
3	Statistical_Check_RandParm_For_Radar_Type_6_3_trail	1
4	Statistical_Check_RandParm_For_Radar_Type_6_4_trail	1
5	Statistical_Check_RandParm_For_Radar_Type_6_5_trail	1
6	Statistical_Check_RandParm_For_Radar_Type_6_6_trail	1
7	Statistical_Check_RandParm_For_Radar_Type_6_7_trail	1
8	Statistical_Check_RandParm_For_Radar_Type_6_8_trail	1
9	Statistical_Check_RandParm_For_Radar_Type_6_9_trail	1
10	Statistical_Check_RandParm_For_Radar_Type_6_10_trail	1
11	Statistical_Check_RandParm_For_Radar_Type_6_11_trail	1
12	Statistical_Check_RandParm_For_Radar_Type_6_12_trail	1
13	Statistical_Check_RandParm_For_Radar_Type_6_13_trail	1
14	Statistical_Check_RandParm_For_Radar_Type_6_14_trail	1
15	Statistical_Check_RandParm_For_Radar_Type_6_15_trail	1
16	Statistical_Check_RandParm_For_Radar_Type_6_16_trail	1
17	Statistical_Check_RandParm_For_Radar_Type_6_17_trail	1
18	Statistical_Check_RandParm_For_Radar_Type_6_18_trail	1
19	Statistical_Check_RandParm_For_Radar_Type_6_19_trail	1
20	Statistical_Check_RandParm_For_Radar_Type_6_20_trail	1
21	Statistical_Check_RandParm_For_Radar_Type_6_21_trail	1
22	Statistical_Check_RandParm_For_Radar_Type_6_22_trail	1
23	Statistical_Check_RandParm_For_Radar_Type_6_23_trail	1
24	Statistical_Check_RandParm_For_Radar_Type_6_24_trail	1
25	Statistical_Check_RandParm_For_Radar_Type_6_25_trail	1
26	Statistical_Check_RandParm_For_Radar_Type_6_26_trail	1
27	Statistical_Check_RandParm_For_Radar_Type_6_27_trail	1
28	Statistical_Check_RandParm_For_Radar_Type_6_28_trail	1
29	Statistical_Check_RandParm_For_Radar_Type_6_29_trail	1
30	Statistical_Check_RandParm_For_Radar_Type_6_30_trail	1
Detection Percentage		100 % (>70 %)

Appendix for Type 6 radar waveform test characteristic

Type 6 Radar Waveform_1.txt

Random DFS waveform parameters (Radar Type 6) in 1 Trail(05-11-2017 14:16:48)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
1	15	5530	***Yes***	0.333	300
1	16	5509	***Yes***	0.333	300
1	20	5517	***Yes***	0.333	300
1	23	5486	***Yes***	0.333	300
1	24	5503	***Yes***	0.333	300
1	26	5528	***Yes***	0.333	300
1	34	5510	***Yes***	0.333	300
1	47	5534	***Yes***	0.333	300
1	48	5502	***Yes***	0.333	300
1	60	5504	***Yes***	0.333	300
1	65	5515	***Yes***	0.333	300
1	70	5533	***Yes***	0.333	300
1	93	5513	***Yes***	0.333	300

****

Type 6 Radar Waveform_2.txt

Random DFS waveform parameters (Radar Type 6) in 2 Trail(05-11-2017 14:17:21)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
2	3	5511	***Yes***	0.333	300
2	5	5490	***Yes***	0.333	300
2	13	5512	***Yes***	0.333	300
2	16	5495	***Yes***	0.333	300
2	27	5493	***Yes***	0.333	300
2	32	5513	***Yes***	0.333	300
2	42	5538	***Yes***	0.333	300
2	59	5528	***Yes***	0.333	300
2	64	5510	***Yes***	0.333	300
2	80	5539	***Yes***	0.333	300
2	82	5499	***Yes***	0.333	300
2	87	5532	***Yes***	0.333	300

****

Type 6 Radar Waveform_3.txt

Random DFS waveform parameters (Radar Type 6) in 3 Trail(05-11-2017 14:18:21)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
3	1	5541	***Yes***	0.333	300
3	4	5544	***Yes***	0.333	300
3	8	5488	***Yes***	0.333	300
3	9	5505	***Yes***	0.333	300
3	10	5506	***Yes***	0.333	300
3	21	5489	***Yes***	0.333	300
3	36	5536	***Yes***	0.333	300
3	41	5509	***Yes***	0.333	300
3	46	5496	***Yes***	0.333	300
3	47	5497	***Yes***	0.333	300
3	56	5516	***Yes***	0.333	300
3	61	5527	***Yes***	0.333	300
3	68	5534	***Yes***	0.333	300
3	75	5494	***Yes***	0.333	300
3	80	5528	***Yes***	0.333	300
3	85	5529	***Yes***	0.333	300
3	90	5512	***Yes***	0.333	300

****

Type 6 Radar Waveform_4.txt

Random DFS waveform parameters (Radar Type 6) in 4 Trail(05-11-2017 14:19:50)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
4	3	5539	***Yes***	0.333	300
4	15	5530	***Yes***	0.333	300
4	19	5507	***Yes***	0.333	300
4	27	5538	***Yes***	0.333	300
4	28	5520	***Yes***	0.333	300
4	33	5523	***Yes***	0.333	300
4	41	5499	***Yes***	0.333	300
4	43	5493	***Yes***	0.333	300
4	64	5496	***Yes***	0.333	300
4	73	5525	***Yes***	0.333	300
4	85	5490	***Yes***	0.333	300
4	86	5491	***Yes***	0.333	300
4	87	5521	***Yes***	0.333	300
4	96	5548	***Yes***	0.333	300

****

Type 6 Radar Waveform_5.txt

Random DFS waveform parameters (Radar Type 6) in 5 Trail(05-11-2017 14:20:36)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
5	3	5513	***Yes***	0.333	300
5	25	5514	***Yes***	0.333	300
5	30	5499	***Yes***	0.333	300
5	33	5548	***Yes***	0.333	300
5	35	5521	***Yes***	0.333	300
5	40	5492	***Yes***	0.333	300
5	46	5496	***Yes***	0.333	300
5	54	5522	***Yes***	0.333	300
5	61	5543	***Yes***	0.333	300
5	76	5529	***Yes***	0.333	300
5	96	5541	***Yes***	0.333	300

****

Type 6 Radar Waveform_6.txt

Random DFS waveform parameters (Radar Type 6) in 6 Trail(05-11-2017 14:22:11)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
6	2	5518	***Yes***	0.333	300
6	12	5506	***Yes***	0.333	300
6	17	5550	***Yes***	0.333	300
6	18	5519	***Yes***	0.333	300
6	24	5529	***Yes***	0.333	300
6	38	5543	***Yes***	0.333	300
6	43	5499	***Yes***	0.333	300
6	48	5516	***Yes***	0.333	300
6	57	5524	***Yes***	0.333	300
6	58	5508	***Yes***	0.333	300
6	67	5509	***Yes***	0.333	300
6	72	5496	***Yes***	0.333	300
6	74	5498	***Yes***	0.333	300
6	82	5525	***Yes***	0.333	300
6	83	5534	***Yes***	0.333	300
6	87	5517	***Yes***	0.333	300
6	97	5497	***Yes***	0.333	300

****

Type 6 Radar Waveform_7.txt

Random DFS waveform parameters (Radar Type 6) in 7 Trail(05-11-2017 14:22:31)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
7	1	5496	***Yes***	0.333	300
7	5	5540	***Yes***	0.333	300
7	6	5539	***Yes***	0.333	300
7	10	5508	***Yes***	0.333	300
7	11	5520	***Yes***	0.333	300
7	12	5516	***Yes***	0.333	300
7	20	5515	***Yes***	0.333	300
7	26	5543	***Yes***	0.333	300
7	34	5511	***Yes***	0.333	300
7	35	5517	***Yes***	0.333	300
7	36	5519	***Yes***	0.333	300
7	37	5493	***Yes***	0.333	300
7	39	5542	***Yes***	0.333	300
7	52	5499	***Yes***	0.333	300
7	56	5545	***Yes***	0.333	300
7	60	5497	***Yes***	0.333	300
7	74	5522	***Yes***	0.333	300
7	75	5541	***Yes***	0.333	300
7	77	5503	***Yes***	0.333	300
7	85	5533	***Yes***	0.333	300
7	87	5535	***Yes***	0.333	300

****

Type 6 Radar Waveform_8.txt

Random DFS waveform parameters (Radar Type 6) in 8 Trail(05-11-2017 14:23:01)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
8	0	5533	***Yes***	0.333	300
8	6	5502	***Yes***	0.333	300
8	14	5529	***Yes***	0.333	300
8	21	5526	***Yes***	0.333	300
8	26	5551	***Yes***	0.333	300
8	69	5548	***Yes***	0.333	300
8	75	5545	***Yes***	0.333	300
8	82	5532	***Yes***	0.333	300
8	92	5506	***Yes***	0.333	300
8	95	5505	***Yes***	0.333	300

****

Type 6 Radar Waveform_9.txt

Random DFS waveform parameters (Radar Type 6) in 9 Trail(05-11-2017 14:25:02)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
9	1	5554	***Yes***	0.333	300
9	4	5540	***Yes***	0.333	300
9	8	5500	***Yes***	0.333	300
9	13	5504	***Yes***	0.333	300
9	39	5511	***Yes***	0.333	300
9	47	5506	***Yes***	0.333	300
9	59	5495	***Yes***	0.333	300
9	69	5532	***Yes***	0.333	300
9	76	5513	***Yes***	0.333	300
9	78	5510	***Yes***	0.333	300
9	80	5527	***Yes***	0.333	300

****

Type 6 Radar Waveform_10.txt

Random DFS waveform parameters (Radar Type 6) in 10 Trail(05-11-2017 14:26:09)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
10	0	5523	***Yes***	0.333	300
10	7	5507	***Yes***	0.333	300
10	14	5550	***Yes***	0.333	300
10	22	5532	***Yes***	0.333	300
10	34	5516	***Yes***	0.333	300
10	39	5526	***Yes***	0.333	300
10	42	5519	***Yes***	0.333	300
10	43	5518	***Yes***	0.333	300
10	44	5542	***Yes***	0.333	300
10	83	5553	***Yes***	0.333	300
10	95	5498	***Yes***	0.333	300

****

Type 6 Radar Waveform_11.txt

Random DFS waveform parameters (Radar Type 6) in 11 Trail(05-11-2017 14:27:34)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
11	0	5541	***Yes***	0.333	300
11	2	5522	***Yes***	0.333	300
11	6	5504	***Yes***	0.333	300
11	11	5548	***Yes***	0.333	300
11	19	5542	***Yes***	0.333	300
11	23	5554	***Yes***	0.333	300
11	33	5512	***Yes***	0.333	300
11	37	5511	***Yes***	0.333	300
11	41	5552	***Yes***	0.333	300
11	46	5528	***Yes***	0.333	300
11	54	5529	***Yes***	0.333	300
11	76	5500	***Yes***	0.333	300
11	93	5510	***Yes***	0.333	300

****

Type 6 Radar Waveform_12.txt

Random DFS waveform parameters (Radar Type 6) in 12 Trail(05-11-2017 14:27:51)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
12	2	5518	***Yes***	0.333	300
12	8	5539	***Yes***	0.333	300
12	10	5520	***Yes***	0.333	300
12	12	5522	***Yes***	0.333	300
12	13	5512	***Yes***	0.333	300
12	14	5556	***Yes***	0.333	300
12	20	5505	***Yes***	0.333	300
12	33	5509	***Yes***	0.333	300
12	37	5531	***Yes***	0.333	300
12	51	5503	***Yes***	0.333	300
12	83	5548	***Yes***	0.333	300
12	93	5533	***Yes***	0.333	300
12	94	5546	***Yes***	0.333	300
12	95	5542	***Yes***	0.333	300

****

Type 6 Radar Waveform_13.txt

Random DFS waveform parameters (Radar Type 6) in 13 Trail(05-11-2017 14:28:30)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
13	1	5550	***Yes***	0.333	300
13	13	5535	***Yes***	0.333	300
13	15	5538	***Yes***	0.333	300
13	35	5558	***Yes***	0.333	300
13	38	5529	***Yes***	0.333	300
13	41	5554	***Yes***	0.333	300
13	42	5524	***Yes***	0.333	300
13	43	5541	***Yes***	0.333	300
13	54	5518	***Yes***	0.333	300
13	57	5531	***Yes***	0.333	300
13	78	5500	***Yes***	0.333	300
13	93	5523	***Yes***	0.333	300
13	95	5533	***Yes***	0.333	300
13	98	5506	***Yes***	0.333	300

****

Type 6 Radar Waveform_14.txt

Random DFS waveform parameters (Radar Type 6) in 14 Trail(05-11-2017 14:28:48)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
14	6	5540	***Yes***	0.333	300
14	14	5533	***Yes***	0.333	300
14	18	5524	***Yes***	0.333	300
14	24	5532	***Yes***	0.333	300
14	36	5499	***Yes***	0.333	300
14	37	5503	***Yes***	0.333	300
14	38	5549	***Yes***	0.333	300
14	49	5527	***Yes***	0.333	300
14	66	5556	***Yes***	0.333	300
14	70	5525	***Yes***	0.333	300
14	78	5537	***Yes***	0.333	300
14	79	5514	***Yes***	0.333	300
14	85	5548	***Yes***	0.333	300
14	90	5515	***Yes***	0.333	300
14	92	5558	***Yes***	0.333	300
14	96	5511	***Yes***	0.333	300

****

Type 6 Radar Waveform_15.txt

Random DFS waveform parameters (Radar Type 6) in 15 Trail(05-11-2017 14:29:17)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
15	12	5541	***Yes***	0.333	300
15	13	5548	***Yes***	0.333	300
15	26	5531	***Yes***	0.333	300
15	34	5556	***Yes***	0.333	300
15	35	5542	***Yes***	0.333	300
15	56	5516	***Yes***	0.333	300
15	60	5512	***Yes***	0.333	300
15	75	5506	***Yes***	0.333	300
15	86	5524	***Yes***	0.333	300
15	94	5547	***Yes***	0.333	300
15	97	5557	***Yes***	0.333	300

****

Type 6 Radar Waveform_16.txt

Random DFS waveform parameters (Radar Type 6) in 16 Trail(05-11-2017 14:29:33)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
16	6	5504	***Yes***	0.333	300
16	19	5542	***Yes***	0.333	300
16	20	5511	***Yes***	0.333	300
16	21	5518	***Yes***	0.333	300
16	24	5525	***Yes***	0.333	300
16	25	5523	***Yes***	0.333	300
16	27	5509	***Yes***	0.333	300
16	29	5552	***Yes***	0.333	300
16	32	5558	***Yes***	0.333	300
16	53	5544	***Yes***	0.333	300
16	55	5528	***Yes***	0.333	300
16	59	5516	***Yes***	0.333	300
16	63	5508	***Yes***	0.333	300
16	64	5548	***Yes***	0.333	300
16	75	5531	***Yes***	0.333	300
16	89	5543	***Yes***	0.333	300
16	92	5532	***Yes***	0.333	300

****

Type 6 Radar Waveform_17.txt

```
Random DFS waveform parameters (Radar Type 6) in 17 Trail(05-11-2017 14:30:31)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 17            14            5516         ***Yes***                  0.333          300
 17            15            5560         ***Yes***                  0.333          300
 17            30            5562         ***Yes***                  0.333          300
 17            56            5555         ***Yes***                  0.333          300
 17            69            5561         ***Yes***                  0.333          300
 17            83            5503         ***Yes***                  0.333          300
 17            84            5540         ***Yes***                  0.333          300
 17            85            5537         ***Yes***                  0.333          300
 17            86            5524         ***Yes***                  0.333          300
 17            87            5529         ***Yes***                  0.333          300
 17            97            5535         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_18.txt

```
Random DFS waveform parameters (Radar Type 6) in 18 Trail(05-11-2017 14:31:14)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 18            20            5526         ***Yes***                  0.333          300
 18            22            5534         ***Yes***                  0.333          300
 18            23            5560         ***Yes***                  0.333          300
 18            26            5504         ***Yes***                  0.333          300
 18            33            5541         ***Yes***                  0.333          300
 18            50            5532         ***Yes***                  0.333          300
 18            52            5521         ***Yes***                  0.333          300
 18            54            5522         ***Yes***                  0.333          300
 18            74            5551         ***Yes***                  0.333          300
 18            98            5518         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_19.txt

```
Random DFS waveform parameters (Radar Type 6) in 19 Trail(05-11-2017 14:32:33)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 19            1             5544         ***Yes***                  0.333          300
 19            7             5508         ***Yes***                  0.333          300
 19            13            5520         ***Yes***                  0.333          300
 19            32            5558         ***Yes***                  0.333          300
 19            51            5533         ***Yes***                  0.333          300
 19            56            5559         ***Yes***                  0.333          300
 19            61            5507         ***Yes***                  0.333          300
 19            69            5537         ***Yes***                  0.333          300
 19            78            5545         ***Yes***                  0.333          300
 19            83            5514         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_20.txt

```
Random DFS waveform parameters (Radar Type 6) in 20 Trail(05-11-2017 14:34:24)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 20            19            5540         ***Yes***                  0.333          300
 20            24            5549         ***Yes***                  0.333          300
 20            25            5513         ***Yes***                  0.333          300
 20            27            5542         ***Yes***                  0.333          300
 20            29            5526         ***Yes***                  0.333          300
 20            35            5533         ***Yes***                  0.333          300
 20            38            5523         ***Yes***                  0.333          300
 20            39            5510         ***Yes***                  0.333          300
 20            54            5521         ***Yes***                  0.333          300
 20            60            5555         ***Yes***                  0.333          300
 20            79            5554         ***Yes***                  0.333          300
 20            81            5518         ***Yes***                  0.333          300
 20            99            5564         ***Yes***                  0.333          300
**********************************************************************************************************************************
```

Type 6 Radar Waveform_21.txt

```
Random DFS waveform parameters (Radar Type 6) in 21 Trail(05-11-2017 14:35:21)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 21            4             5514         ***Yes***                  0.333          300
 21            19            5558         ***Yes***                  0.333          300
 21            23            5561         ***Yes***                  0.333          300
 21            24            5539         ***Yes***                  0.333          300
 21            36            5528         ***Yes***                  0.333          300
 21            69            5508         ***Yes***                  0.333          300
 21            70            5509         ***Yes***                  0.333          300
 21            75            5547         ***Yes***                  0.333          300
 21            82            5517         ***Yes***                  0.333          300
*************************************************************************************************************************
```

Type 6 Radar Waveform_22.txt

```
Random DFS waveform parameters (Radar Type 6) in 22 Trail(05-11-2017 14:35:40)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 22            6             5545         ***Yes***                  0.333          300
 22            8             5542         ***Yes***                  0.333          300
 22            14            5509         ***Yes***                  0.333          300
 22            19            5549         ***Yes***                  0.333          300
 22            22            5547         ***Yes***                  0.333          300
 22            23            5557         ***Yes***                  0.333          300
 22            24            5566         ***Yes***                  0.333          300
 22            30            5540         ***Yes***                  0.333          300
 22            38            5535         ***Yes***                  0.333          300
 22            51            5513         ***Yes***                  0.333          300
 22            54            5550         ***Yes***                  0.333          300
 22            63            5519         ***Yes***                  0.333          300
 22            67            5552         ***Yes***                  0.333          300
 22            68            5551         ***Yes***                  0.333          300
 22            69            5558         ***Yes***                  0.333          300
 22            70            5523         ***Yes***                  0.333          300
 22            76            5518         ***Yes***                  0.333          300
 22            79            5556         ***Yes***                  0.333          300
 22            93            5544         ***Yes***                  0.333          300
 22            99            5525         ***Yes***                  0.333          300
*************************************************************************************************************************
```

Type 6 Radar Waveform_23.txt

```
Random DFS waveform parameters (Radar Type 6) in 23 Trail(05-11-2017 14:36:27)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 23            12            5521         ***Yes***                  0.333          300
 23            24            5563         ***Yes***                  0.333          300
 23            25            5512         ***Yes***                  0.333          300
 23            35            5542         ***Yes***                  0.333          300
 23            57            5513         ***Yes***                  0.333          300
 23            64            5559         ***Yes***                  0.333          300
 23            68            5553         ***Yes***                  0.333          300
 23            85            5529         ***Yes***                  0.333          300
 23            91            5508         ***Yes***                  0.333          300
 23            95            5536         ***Yes***                  0.333          300
*************************************************************************************************************************
```

Type 6 Radar Waveform_24.txt

```
Random DFS waveform parameters (Radar Type 6) in 24 Trail(05-11-2017 14:37:26)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)    Hopping Rate(kHz)    Hopping Length(ms)
 24            16            5516         ***Yes***                  0.333          300
 24            22            5514         ***Yes***                  0.333          300
 24            25            5540         ***Yes***                  0.333          300
 24            32            5550         ***Yes***                  0.333          300
 24            40            5526         ***Yes***                  0.333          300
 24            42            5519         ***Yes***                  0.333          300
 24            59            5548         ***Yes***                  0.333          300
 24            70            5532         ***Yes***                  0.333          300
 24            72            5560         ***Yes***                  0.333          300
 24            77            5553         ***Yes***                  0.333          300
 24            94            5551         ***Yes***                  0.333          300
 24            97            5536         ***Yes***                  0.333          300
*************************************************************************************************************************
```

Type 6 Radar Waveform_25.txt

```
Random DFS waveform parameters (Radar Type 6) in 25 Trail(05-11-2017 14:37:58)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)   Hopping Rate(kHz)   Hopping Length(ms)
 25            5             5544         ***Yes***                  0.333         300
 25            20            5554         ***Yes***                  0.333         300
 25            26            5540         ***Yes***                  0.333         300
 25            29            5553         ***Yes***                  0.333         300
 25            37            5525         ***Yes***                  0.333         300
 25            45            5538         ***Yes***                  0.333         300
 25            51            5558         ***Yes***                  0.333         300
 25            55            5552         ***Yes***                  0.333         300
 25            57            5513         ***Yes***                  0.333         300
 25            59            5516         ***Yes***                  0.333         300
 25            63            5550         ***Yes***                  0.333         300
 25            75            5529         ***Yes***                  0.333         300
 25            83            5528         ***Yes***                  0.333         300
**********************************************************************************************************************
```

Type 6 Radar Waveform_26.txt

```
Random DFS waveform parameters (Radar Type 6) in 26 Trail(05-11-2017 14:38:25)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)   Hopping Rate(kHz)   Hopping Length(ms)
 26            9             5533         ***Yes***                  0.333         300
 26            14            5546         ***Yes***                  0.333         300
 26            15            5555         ***Yes***                  0.333         300
 26            17            5559         ***Yes***                  0.333         300
 26            18            5513         ***Yes***                  0.333         300
 26            31            5529         ***Yes***                  0.333         300
 26            32            5547         ***Yes***                  0.333         300
 26            38            5537         ***Yes***                  0.333         300
 26            42            5571         ***Yes***                  0.333         300
 26            52            5562         ***Yes***                  0.333         300
 26            61            5521         ***Yes***                  0.333         300
 26            63            5528         ***Yes***                  0.333         300
 26            68            5535         ***Yes***                  0.333         300
 26            69            5545         ***Yes***                  0.333         300
 26            74            5560         ***Yes***                  0.333         300
 26            81            5552         ***Yes***                  0.333         300
 26            83            5514         ***Yes***                  0.333         300
 26            86            5512         ***Yes***                  0.333         300
 26            89            5516         ***Yes***                  0.333         300
 26            93            5565         ***Yes***                  0.333         300
 26            95            5570         ***Yes***                  0.333         300
 26            97            5542         ***Yes***                  0.333         300
**********************************************************************************************************************
```

Type 6 Radar Waveform_27.txt

```
Random DFS waveform parameters (Radar Type 6) in 27 Trail(05-11-2017 14:38:46)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)   Hopping Rate(kHz)   Hopping Length(ms)
 27            0             5528         ***Yes***                  0.333         300
 27            6             5521         ***Yes***                  0.333         300
 27            10            5533         ***Yes***                  0.333         300
 27            19            5514         ***Yes***                  0.333         300
 27            25            5560         ***Yes***                  0.333         300
 27            49            5515         ***Yes***                  0.333         300
 27            81            5523         ***Yes***                  0.333         300
 27            97            5552         ***Yes***                  0.333         300
 27            98            5543         ***Yes***                  0.333         300
 27            99            5549         ***Yes***                  0.333         300
**********************************************************************************************************************
```

Type 6 Radar Waveform_28.txt

```
Random DFS waveform parameters (Radar Type 6) in 28 Trail(05-11-2017 14:39:05)
RLAN Freq Range:
Trail#        HopFreq List# HopFreq       In WLAN BW(80M)   Hopping Rate(kHz)   Hopping Length(ms)
 28            3             5523         ***Yes***                  0.333         300
 28            6             5553         ***Yes***                  0.333         300
 28            23            5561         ***Yes***                  0.333         300
 28            44            5525         ***Yes***                  0.333         300
 28            45            5541         ***Yes***                  0.333         300
 28            55            5549         ***Yes***                  0.333         300
 28            63            5565         ***Yes***                  0.333         300
 28            71            5563         ***Yes***                  0.333         300
 28            87            5570         ***Yes***                  0.333         300
 28            91            5543         ***Yes***                  0.333         300
 28            93            5548         ***Yes***                  0.333         300
**********************************************************************************************************************
```

Type 6 Radar Waveform_29.txt

Random DFS waveform parameters (Radar Type 6) in 29 Trail(05-11-2017 14:39:22)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
29	7	5515	***Yes***	0.333	300
29	10	5547	***Yes***	0.333	300
29	11	5568	***Yes***	0.333	300
29	14	5574	***Yes***	0.333	300
29	24	5570	***Yes***	0.333	300
29	27	5545	***Yes***	0.333	300
29	31	5562	***Yes***	0.333	300
29	41	5527	***Yes***	0.333	300
29	46	5553	***Yes***	0.333	300
29	47	5555	***Yes***	0.333	300
29	52	5541	***Yes***	0.333	300
29	64	5535	***Yes***	0.333	300
29	70	5530	***Yes***	0.333	300
29	84	5519	***Yes***	0.333	300

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Type 6 Radar Waveform_30.txt

Random DFS waveform parameters (Radar Type 6) in 30 Trail(05-11-2017 14:40:41)
RLAN Freq Range:

Trail#	HopFreq List#	HopFreq	In WLAN BW(80M)	Hopping Rate(kHz)	Hopping Length(ms)
30	9	5517	***Yes***	0.333	300
30	25	5551	***Yes***	0.333	300
30	35	5556	***Yes***	0.333	300
30	39	5534	***Yes***	0.333	300
30	42	5550	***Yes***	0.333	300
30	44	5560	***Yes***	0.333	300
30	54	5525	***Yes***	0.333	300
30	62	5528	***Yes***	0.333	300
30	66	5539	***Yes***	0.333	300
30	68	5542	***Yes***	0.333	300
30	69	5552	***Yes***	0.333	300
30	73	5540	***Yes***	0.333	300
30	89	5568	***Yes***	0.333	300
30	90	5558	***Yes***	0.333	300
30	92	5570	***Yes***	0.333	300
30	93	5524	***Yes***	0.333	300
30	97	5516	***Yes***	0.333	300

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