



Dynamic Frequency Selection (DFS) Test Report

AIR-AP1800I-x-K9
AIR-AP1800S-x-K9
(x=A,B)

Cisco Aironet 802.11ac Dual Band Access Points

FCC ID: LDK102112
IC: 2461B-102112

5250-5350, 5470-5725 MHz

Against the following Specifications:

CFR47 Part 15.407
RSS247

Cisco Systems
170 West Tasman Drive
San Jose, CA 95134

	
Author: Jose Aguirre Tested By: Jose Aguirre	Approved By: Jim Nicholson Title: Technical Leader, Engineering Revision: 1

This report replaces any previously entered test report under EDCS –11570963. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.



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Section 1: Overview

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

Specifications:
CFR47 Part 15.407 RSS-247

RSS-247 section A9.3a allows the use of applicable FCC KDBs

Measurements were made in accordance with

- KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Section 2: Assessment Information

2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:

Temperature	15°C to 35°C (54°F to 95°F)
Atmospheric Pressure	860mbar to 1060mbar (25.4" to 31.3")
Humidity	10% to 75*%
- e) All AC testing was performed at one or more of the following supply voltages:
110V 60 Hz (+/-20%)

Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

$$\text{Emission level [dBuV]} = \text{Indicated voltage level [dBuV]} + \text{Cable Loss [dB]} + \text{Other correction factors [dB]}$$

The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:-

Antenna Factors, Pre Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss..

Note: to convert the results from dBuV/m to uV/m use the following formula:-

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(X \text{ dBuV/m})/20] = Y \text{ uV/m}$$

Measurement Uncertainty Values

voltage and power measurements	± 2 dB
conducted EIRP measurements	± 1.4 dB
radiated measurements	± 3.2 dB
frequency measurements	± 2.4 10 ⁻⁷
temperature measurements	± 0.54°
humidity measurements	± 2.3%
DC and low frequency measurements	± 2.5%

Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Radiated emissions (expanded uncertainty, confidence interval 95%)

30 MHz - 300 MHz	+/- 3.8 dB
300 MHz - 1000 MHz	+/- 4.3 dB
1 GHz - 10 GHz	+/- 4.0 dB
10 GHz - 18GHz	+/- 8.2 dB
18GHz - 26.5GHz	+/- 4.1 dB
26.5GHz - 40GHz	+/- 3.9 dB

Conducted emissions (expanded uncertainty, confidence interval 95%)

30 MHz – 40GHz	+/- 0.38 dB
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A product is considered to comply with a requirement if the nominal measured value is below the limit line. The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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**2.2 Date of testing**

14-Feb-17 - 14-Feb-17

2.3 Report Issue Date

17-Feb-17

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2.4 Testing facilities

This assessment was performed by:

Testing Laboratory

Cisco Systems, Inc.,
125 West Tasman Drive
San Jose, CA 95134, USA

Registration Numbers for Industry Canada

Cisco System Site	Address	Site Identifier
Building P, 10m Chamber	125 West Tasman Dr San Jose, CA 95134	Company #: 2461N-2
Building P, 5m Chamber	125 West Tasman Dr San Jose, CA 95134	Company #: 2461N-1
Building I, 5m Chamber	285 W. Tasman Drive San Jose, California 95134	Company #: 2461M-1

Test Engineers

Jose Aguirre

2.5 Equipment Assessed (EUT)

AIR-AP1800I-x-K9

**Section 3: Result Summary****3.1 Results Summary Table****Conducted emissions**

Basic Standard	Technical Requirements / Details	Result
FCC 15.407 RSS-247	Dynamic Frequency Selection (DFS) Detection Threshold	Pass
FCC 15.407 RSS-247	Channel Availability Check Time	Pass
FCC 15.407 RSS-247	Channel Move Time	Pass
FCC 15.407 RSS-247	Channel Closing Time	Pass
FCC 15.407 RSS-247	Non-Occupancy Period	Pass
FCC 15.407 RSS-247	U-NII Detection Bandwidth	Pass



Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

4.1 Sample Details

Sample No.	Equipment Details	Manufacturer	Hardware Rev.	Firmware Rev.	Software Rev.	Serial Number
S01	AIR-AP1800I-x-K9	Cisco Systems	P2	6fd6a0ba 74da9f86 659cfcb8 984f36b9	(SOFTWARE)	RFDP3AFA022
S02	AIR-PWR-C	Meanwell	A0	NA	NA	EB46E93226
S03	AIR-CAP3702I-A-K9	Cisco Systems	01	Uboot 2012.07	Linux ver 3.14.33	FCW19448XKK

4.2 System Details

System Number	Description	Samples	System under test	Support equipment
1	AIR-AP1800I-x-K9	S01	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Support Power Supply	S02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Support Client Equipment	S03	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4.3 Mode of Operation Details

Mode#	Description	Comments
1	Continuous Transmitting	Continuous Transmitting

All measurements were made in accordance with

- KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02



Appendix A: Dynamic Frequency Selection (DFS)

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

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

A.1 UNII Device Description

1. The **Error! Reference source not found.** Cisco Aironet 802.11ac Module operates in the following bands:
 - a. 5150-5250 MHz
 - b. 5250-5350 MHz
 - c. 5470-5725 MHz
 - d. 5725-5850 MHz
2. The maximum EIRP of the 5GHz equipment is 29 dBm, and the minimum possible EIRP is 10 dBm.

Below are the available 50 ohm antenna assemblies and their corresponding gains. 0dBi gain was used to set the -63 dBm threshold level (-64dBm +1 dB) during calibration of the test setup.

Frequency	Part Number	Antenna Type	Antenna Gain (dBi)
5GHz	Internal	omnidirectional	5

3. System testing was performed with the designated MPEG test file that streams full motion video at 30 frames per second from the Master to the Client IP based system.
4. The Master requires 143.000000 seconds to complete its power-on cycle.
5. Information regarding the parameters of the detected Radar Waveforms is not available to the end user.
6. For the 5250-5350 MHz and 5470-5725 MHz bands, 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.

A.2 DFS Detection Thresholds

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

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01 v02r01.</p>	

2. DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> 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.</p>	

A.3 Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

1. Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Numbers 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 $\left\{ \begin{array}{l} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec , with a minimum increment of 1 μsec , excluding PRI values selected in Test A			
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 shall only be used for the channel availability and detection bandwidth tests. It should be noted that any of the radar test waveforms 0 – 4 can be used for the channel availability and detection bandwidth 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 μ sec is selected, the number of pulses would be $\text{Roundup}\left\{\left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^6}{3066}\right)\right\} = \text{Roundup}\{17.2\} = 18$

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	1355.0	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	1139.0	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. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%			

2. Long Pulse Radar Test Waveform

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

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

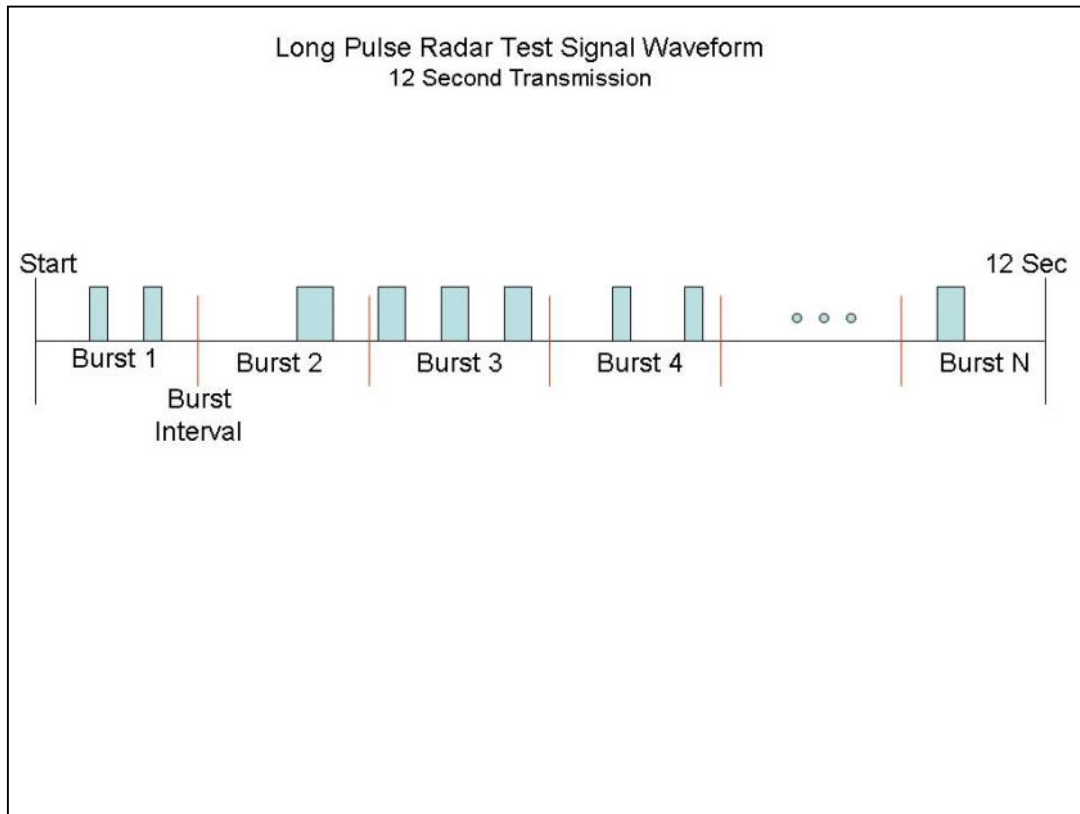
Each waveform is defined as follows:

- 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 FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. 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 time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length $(12,000,000 / \text{Burst Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

A representative example of a Long Pulse radar test waveform:

- 1) The total test signal length is 12 seconds.
- 2) 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 successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Graphical Representation of a Long Pulse radar Test Waveform



3. Long Pulse 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 Trials
6	1	333	9	.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 selected¹ from the hopping sequence defined by the following algorithm:

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



Appendix B: Dynamic Frequency Selection / Test Results

Standards Reference:

FCC 15.407 / RSS-247

Test Procedure

Ref. KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Test parameters
Span = 0 Hz RBW ≥ 3 MHz VBW ≥ 3 MHz Detector = Peak Trace = Single Sweep

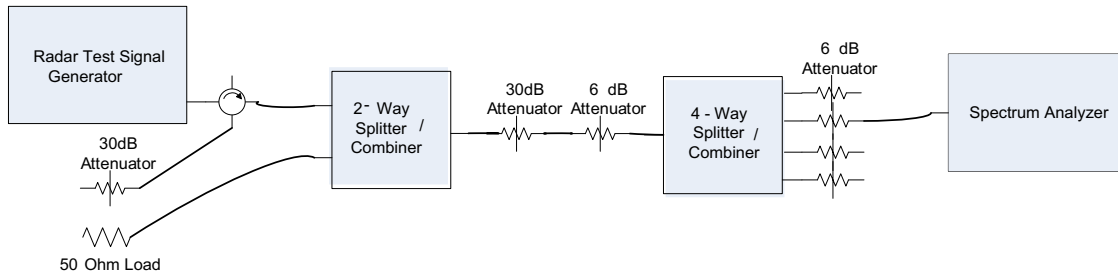
System Number	Description	Samples	System under test	Support equipment
1	AIR-AP1800I-x-K9	S01	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Support Power Supply	S02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Support Client Equipment	S03	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Tested By : Jose Aguirre	Date of testing: 14-Feb-17 - 14-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

The following equipment setup was used to calibrate the conducted Radar Waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) mode at the frequency of the Radar Waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz.

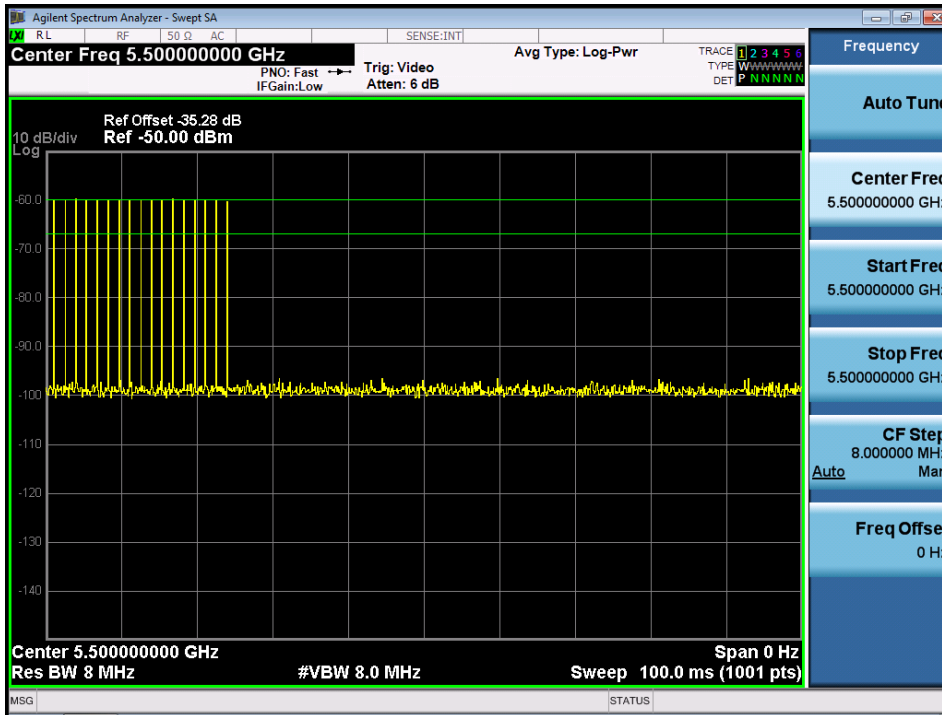
The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -63dBm.



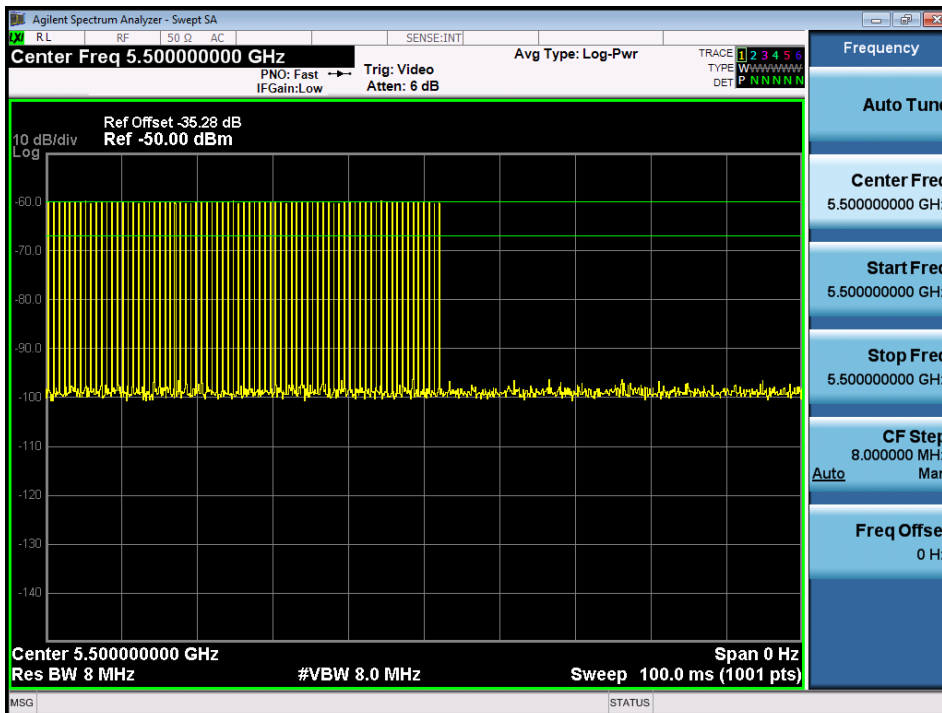
Conducted Calibration Setup



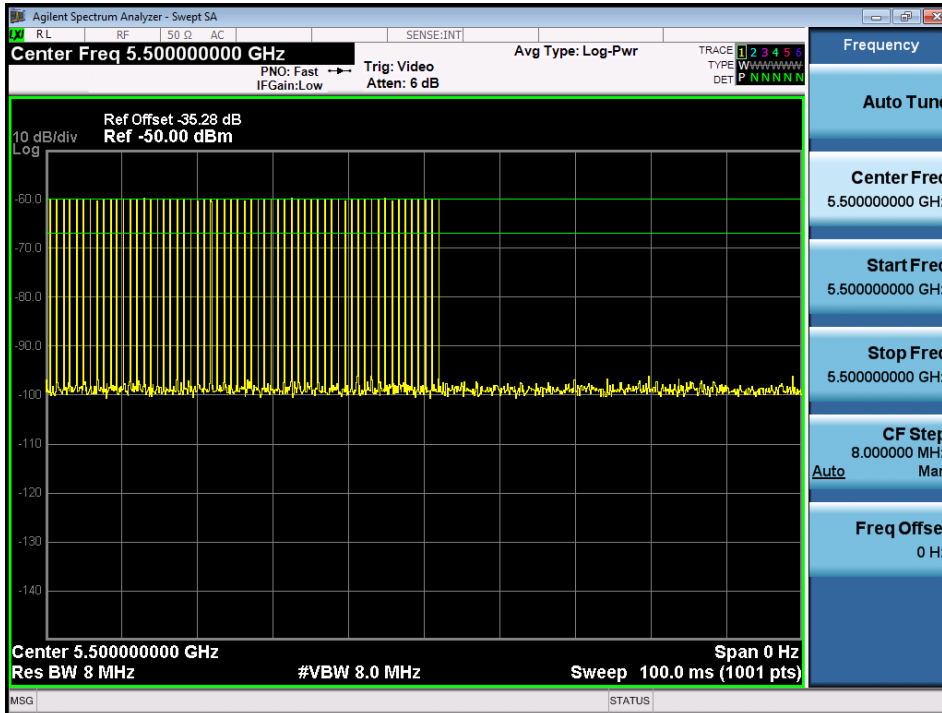
Following are the calibration plots for each of the required radar waveforms.



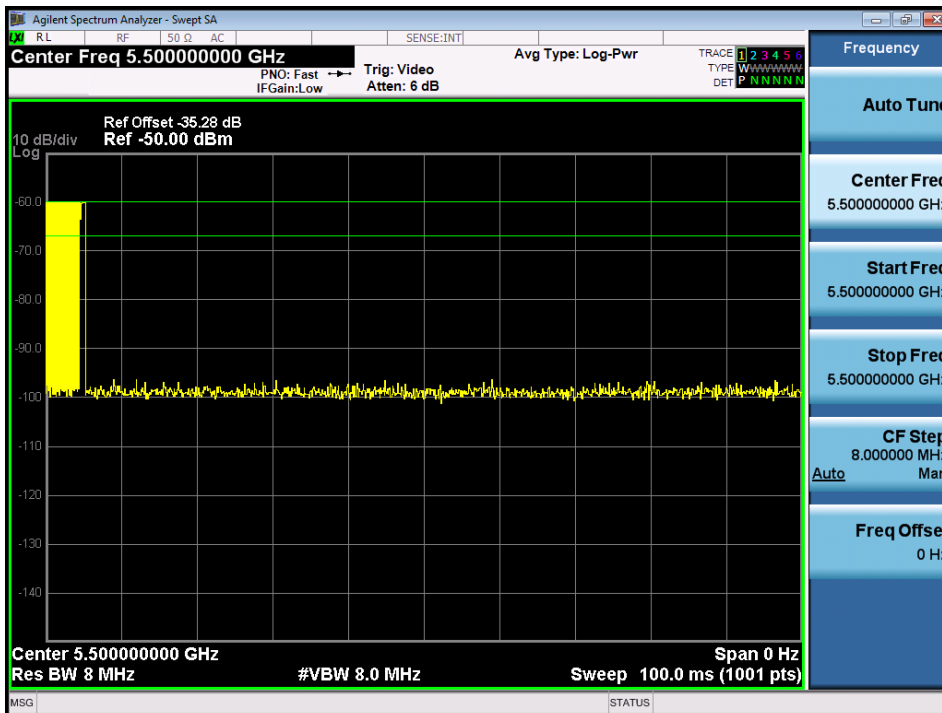
USA Bin 0 Radar Calibration



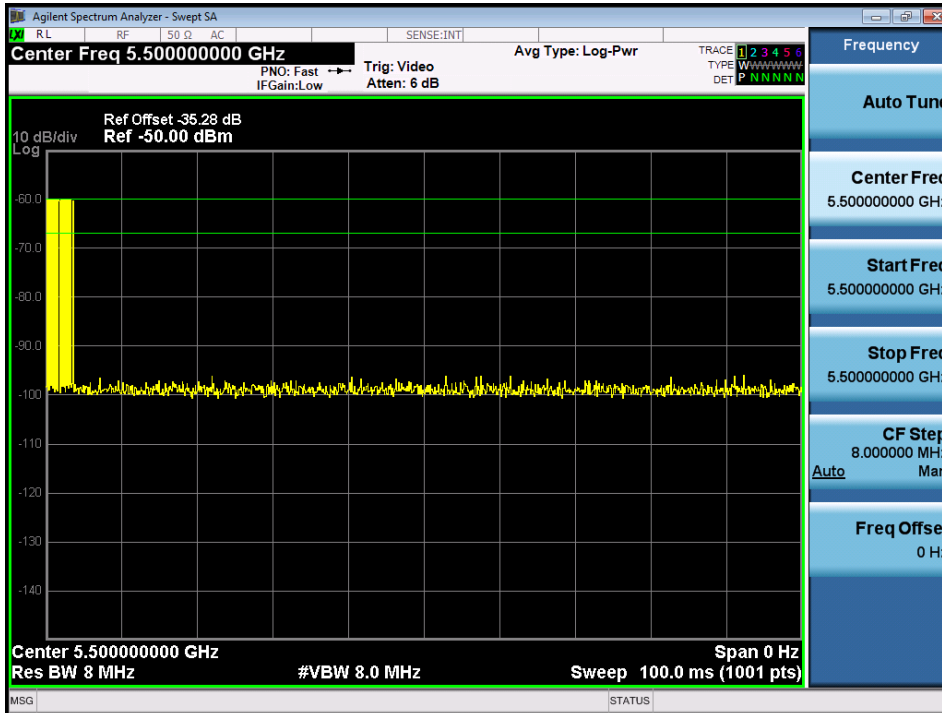
USA Bin 1A Radar Calibration



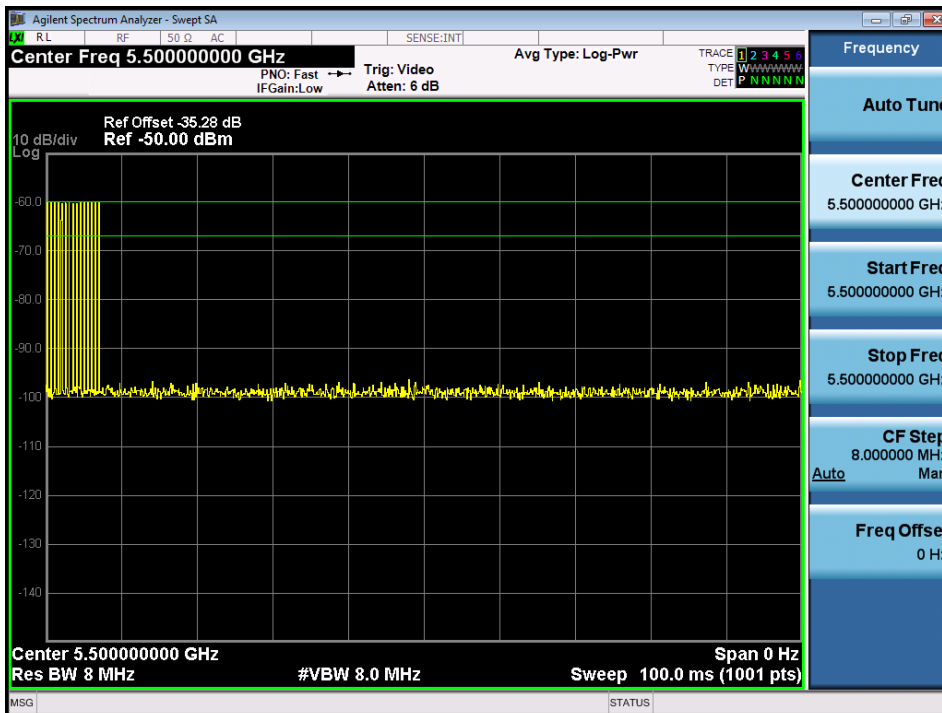
USA Bin 1B Radar Calibration



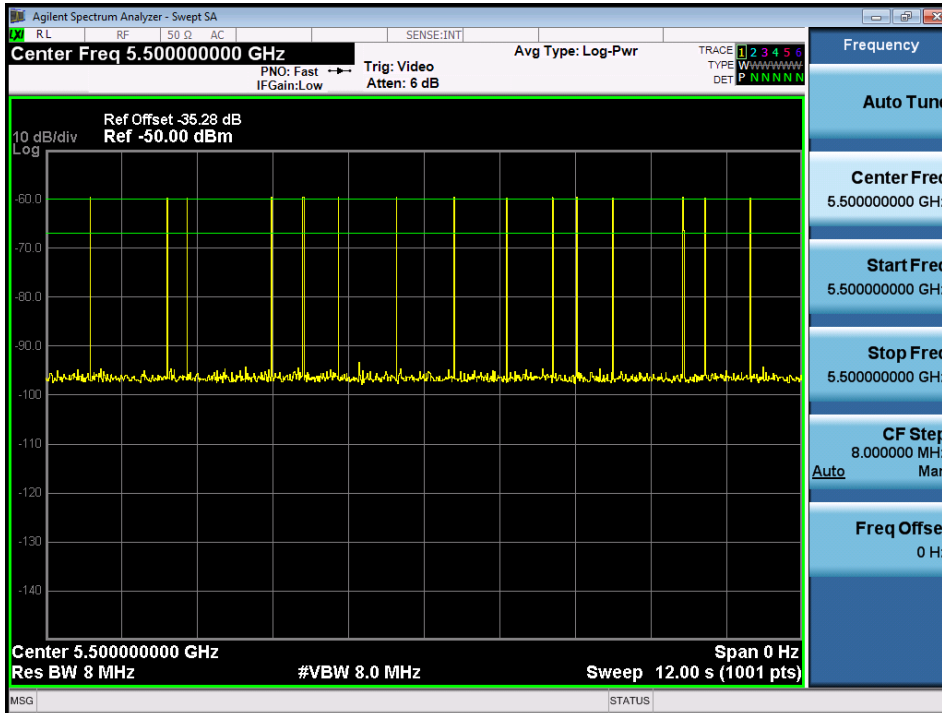
USA Bin 2 Radar Calibration



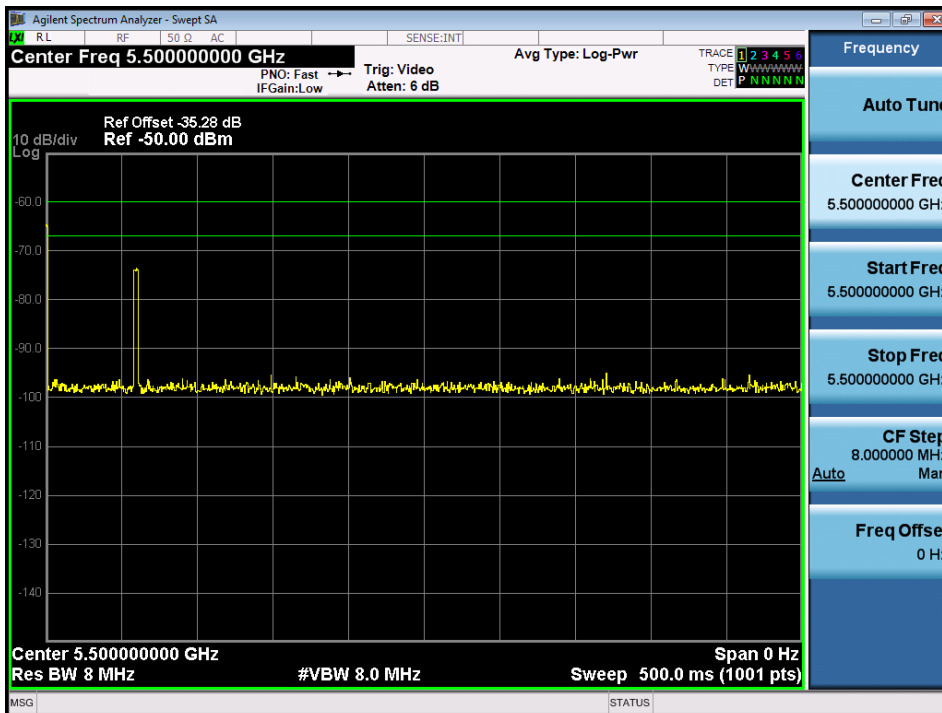
USA Bin 3 Radar Calibration



USA Bin 4 Radar Calibration



USA Bin 5 Radar Calibration

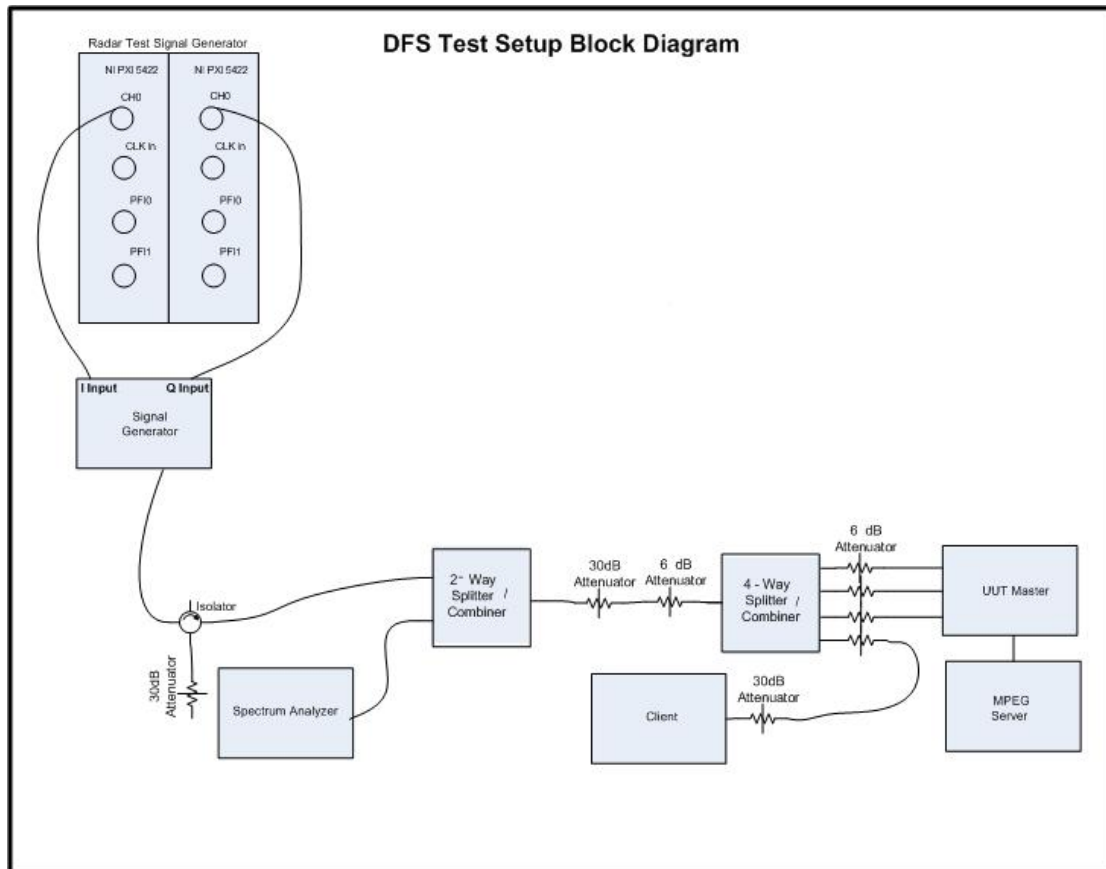


USA Frequency Hopping Radar Calibration

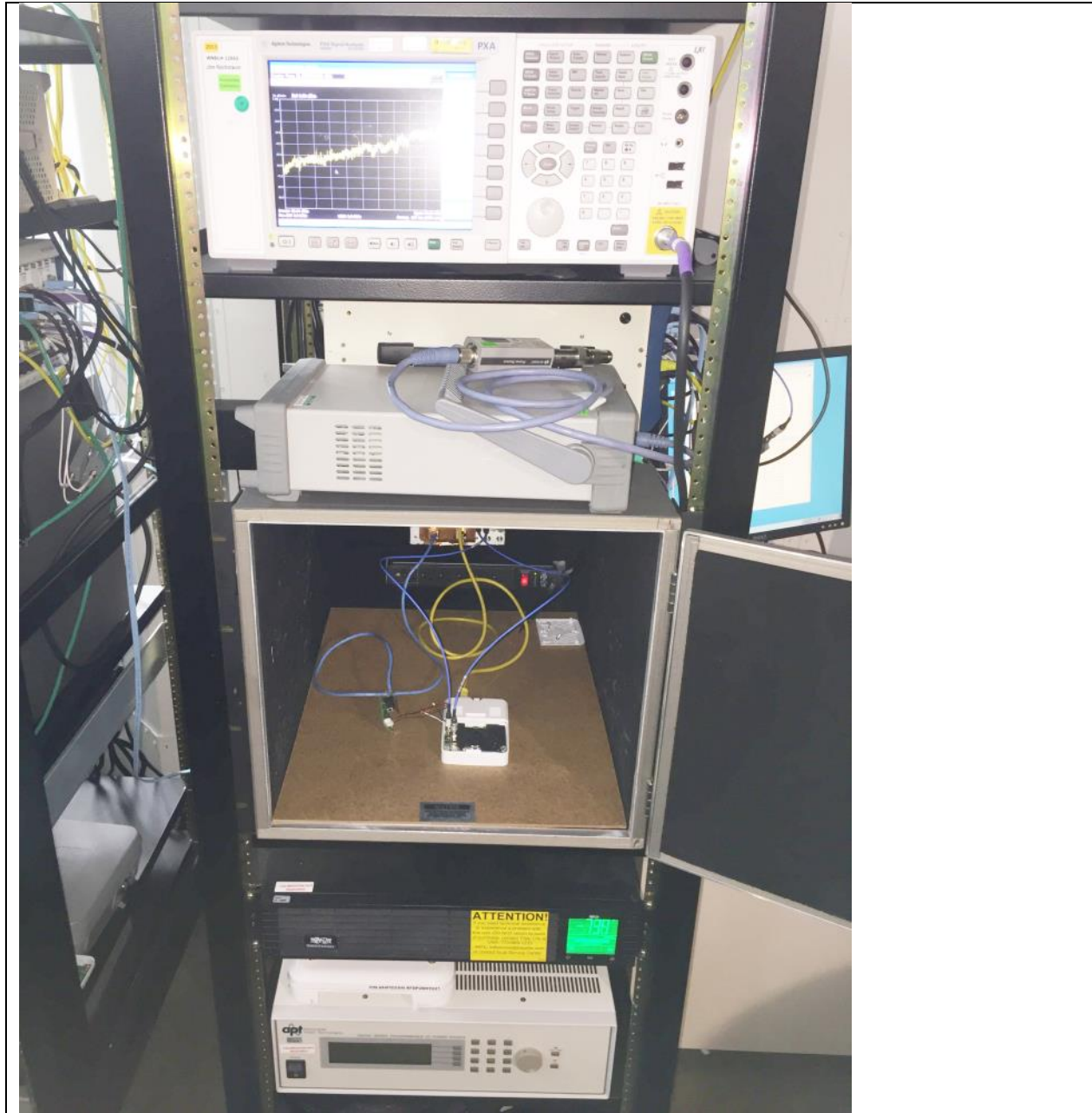
B.1 Test Procedure/Results

A spectrum analyzer is used as a monitor to verify that the UUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time) and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor UUT transmissions during the Channel Availability Check Time.

Following is the test setup used to generate the Radar Waveforms, and for all DFS tests described herein.



Conducted Setup: Radar Test Waveforms are injected into the Master



Title: DFS Setup

B.2 UNII Detection Bandwidth

Test Procedure

Ref. KDB 905462 D02 UNII section 7.8.1

All UNII 20 MHz channels for this device have identical Channel bandwidths, all 40 MHz channels have identical Channel bandwidths, and all 80 MHz channels have identical Channel bandwidths. Therefore, all DFS testing was done at 5500 MHz. The 99% channel bandwidth for 20MHz signals is 18 MHz, the the 99% channel bandwidth for 40MHz signals is 36 MHz, and the 99% channel bandwidth for 80MHz signals is 76. (See the 26dB BW section of the RF report for further measurement details).

The generating equipment is configured as shown in the Conducted Test Setup above. A single *Burst* of the desired radar profile is produced at 5500MHz at a -63dBm level. The UUT is set up as a standalone device (no associated Client and no traffic).

A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H .

The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L .

The U-NII Detection Bandwidth is calculated as follows:

$$\text{U-NII Detection Bandwidth} = F_H - F_L$$

The U-NII Detection Bandwidth must be at least 100% of the UUT transmitter 99% power bandwidth (18 MHz for 20MHz signals, 36 MHz for 40 MHz signals, and 76 MHz for 80 MHz signals); otherwise, the UUT does not comply with DFS requirements.

For the chirped Bin 5 radar, the U-NII Detection Bandwidth must be at least 80% of the UUT transmitter 99% power bandwidth (14 MHz for 20MHz signals, 28 MHz for 40 MHz signals, and 60 MHz for 80 MHz signals); otherwise, the UUT does not comply with DFS requirements.



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 0 Radar



Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 1A Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 1B Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 2 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 3 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Bin 4 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5493	1	1	1	1	1	1	1	1	1	1	100	20	18
5493	1	1	1	1	1	1	1	1	1	1	100		
5493	1	1	1	1	1	1	1	1	1	1	100		
5493	1	1	1	1	1	1	1	1	1	1	100		
5493.8	1	1	1	1	1	1	1	1	1	1	100		
5495	1	1	1	1	1	1	1	1	1	1	100		
5495.8	1	1	1	1	1	1	1	1	1	1	100		
5497	1	1	1	1	1	1	1	1	1	1	100		
5497.8	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		
5502.2	1	1	1	1	1	1	1	1	1	1	100		
5503	1	1	1	1	1	1	1	1	1	1	100		
5504.2	1	1	1	1	1	1	1	1	1	1	100		
5505	1	1	1	1	1	1	1	1	1	1	100		
5506.2	1	1	1	1	1	1	1	1	1	1	100		
5507	1	1	1	1	1	1	1	1	1	1	100		
5507	1	1	1	1	1	1	1	1	1	1	100		
5507	1	1	1	1	1	1	1	1	1	1	100		
5507	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 5 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	20	18
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		

USA Frequency Hopping Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Bin 0 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Bin 1A Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	0	1	1	1	1	1	1	1	1	1	90	40	36
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		

USA Bin 1B Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Bin 2 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Bin 3 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Bin 4 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5494	1	1	1	1	1	1	1	1	1	1	100	40	36
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494.8	1	1	1	1	1	1	1	1	1	1	100		
5496	1	1	1	1	1	1	1	1	1	1	100		
5496.8	1	1	1	1	1	1	1	1	1	1	100		
5498	1	1	1	1	1	1	1	1	1	1	100		
5498.8	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		
5521.2	1	1	1	1	1	1	1	1	1	1	100		
5522	1	1	1	1	1	1	1	1	1	1	100		
5523.2	1	1	1	1	1	1	1	1	1	1	100		
5524	1	1	1	1	1	1	1	1	1	1	100		
5525.2	1	1	1	1	1	1	1	1	1	1	100		
5526	1	1	1	1	1	1	1	1	1	1	100		
5526	1	1	1	1	1	1	1	1	1	1	100		
5526	1	1	1	1	1	1	1	1	1	1	100		
5526	1	1	1	1	1	1	1	1	1	1	100		
5526	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 5 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	40	36
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		

USA Frequency Hopping Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Bin 0 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 0 Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Bin 1A Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 1A Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	0	0	0	1	1	1	1	1	1	1	70	78	76
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		

USA Bin 1B Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	78	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 1B Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Bin 2 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 2 Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Bin 3 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 3 Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Bin 4 Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 4 Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5494	1	1	1	1	1	1	1	1	1	1	100	80	76
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494	1	1	1	1	1	1	1	1	1	1	100		
5494.8	1	1	1	1	1	1	1	1	1	1	100		
5496	1	1	1	1	1	1	1	1	1	1	100		
5496.8	1	1	1	1	1	1	1	1	1	1	100		
5498	1	1	1	1	1	1	1	1	1	1	100		
5498.8	1	0	1	1	1	1	1	1	1	1	90		
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		

USA Bin 5 Radar



Radar Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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		
5561.2	1	1	1	1	1	1	1	1	1	1	100		
5562	1	1	1	1	1	1	1	1	1	1	100		
5563.2	1	1	1	1	1	1	1	1	1	1	100		
5564	1	1	1	1	1	1	1	1	1	1	100		
5565.2	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		
5566	1	1	1	1	1	1	1	1	1	1	100		

USA Bin 5 Radar (cont)



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5490	1	1	1	1	1	1	1	1	1	1	100	80	76
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		

USA Frequency Hopping Radar



Radars Frequency	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)	Detection Bandwidth (MHz)	Limit (MHz)
	1	2	3	4	5	6	7	8	9	10			
5530	1	1	1	1	1	1	1	1	1	1	100	80	76
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		
5551	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	1	1	1	1	1	1	1	1	1	1	100		

USA Frequency Hopping Radar (cont)



B.3 Initial Channel Availability Check Time

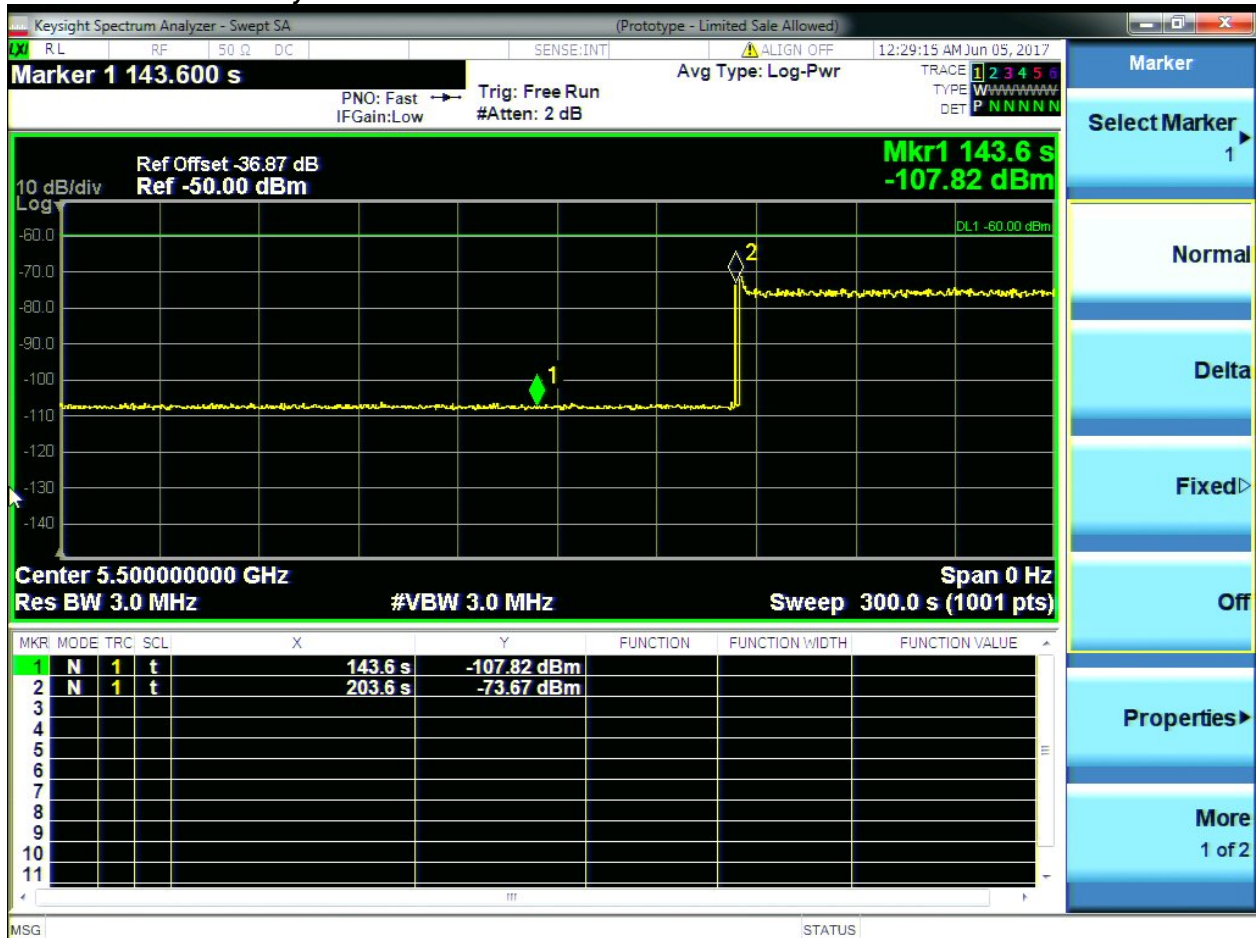
The tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

The U-NII device is powered on and instructed to operate at 5500 MHz. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at 5500MHz with a 2.5 minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

The initial power up time of the UUT is indicated by marker 1 in the plot. Initial beacons/data transmissions are indicated by marker 2.

Initial Channel Availability Check Time





B.4 Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the selected 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 (-63dBm) occurs at the beginning of the Channel Availability Check Time.

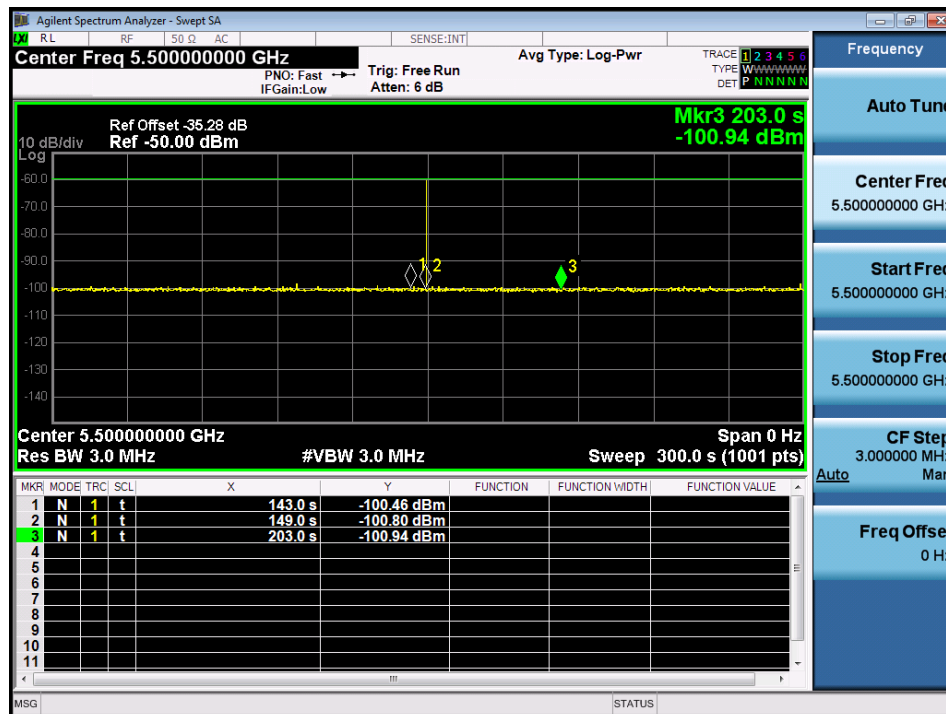
The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T_1 and will end no sooner than $T_1 + 60$ seconds.

A single Burst of short pulse of radar type 0 at -63 dBm will commence within a 6 second window starting at T_1 .

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5500MHz will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5500MHz.

Radar Burst at the Beginning of the Channel Availability Check Time





B.5 Radar Burst at the End of the Channel Availability Check Time

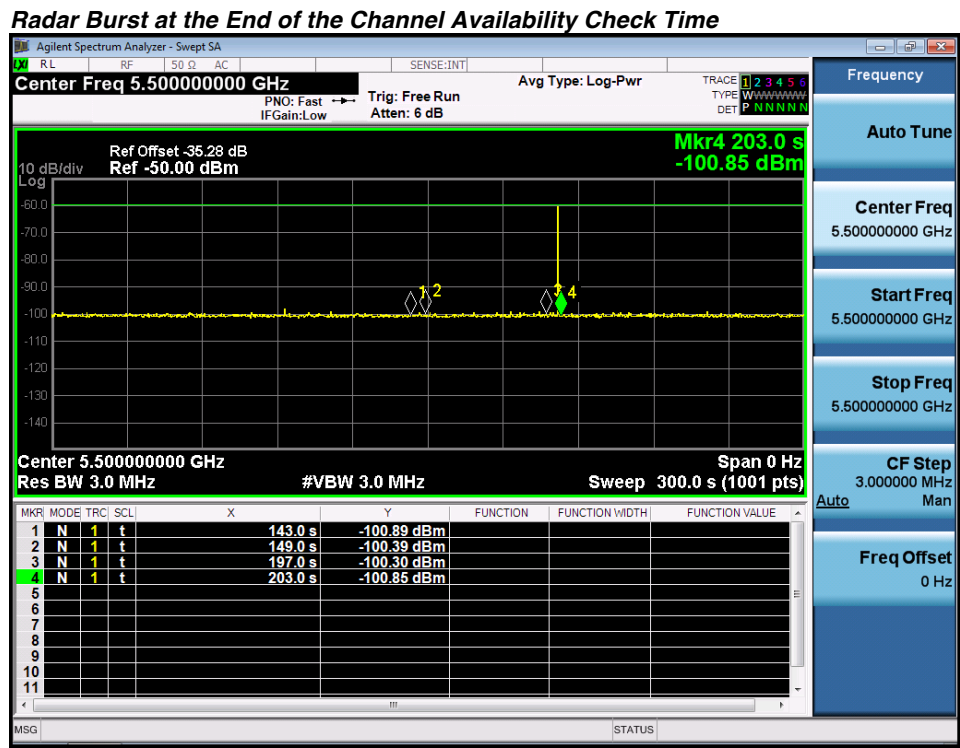
The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T_1 and will end no sooner than $T_1 + 60$ seconds.

A single Burst of short pulse of radar type 0 at -63 dBm will commence within a 6 second window starting at $T_1 + 54$ seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5500MHz will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5500MHz.





B.6 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, and Non-Occupancy Period.

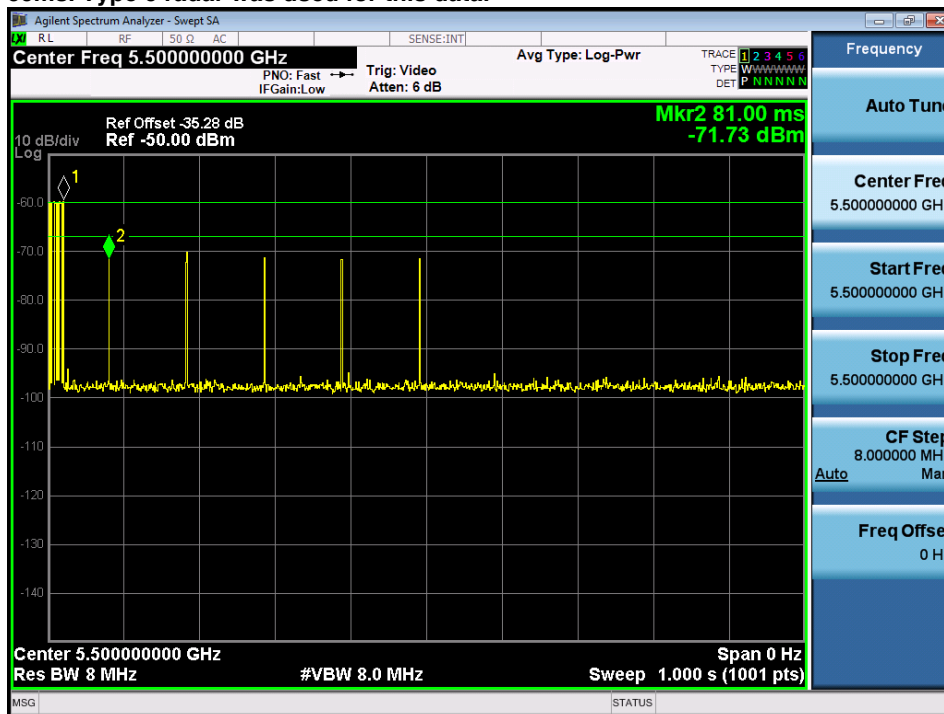
The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5500 MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

At time T_0 the Radar Waveform generator sends a Burst of pulses for radar type 0 at -63dBm.

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). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the *DFS Response requirement values table*.

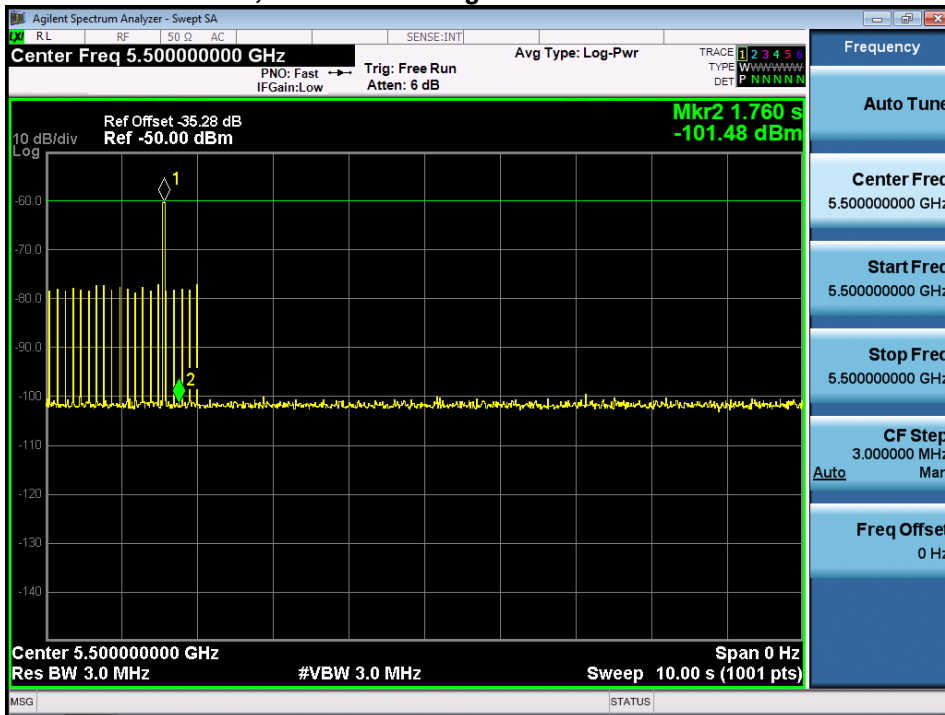
Marker 1 indicates the end of the radar pulse, Marker 2 is equal to marker 1 + 50ms. The plot demonstrates a closing time of 50ms or less. The aggregate beacons are visually verified less than 60ms. Type 0 radar was used for this data.



Channel close time = 50ms



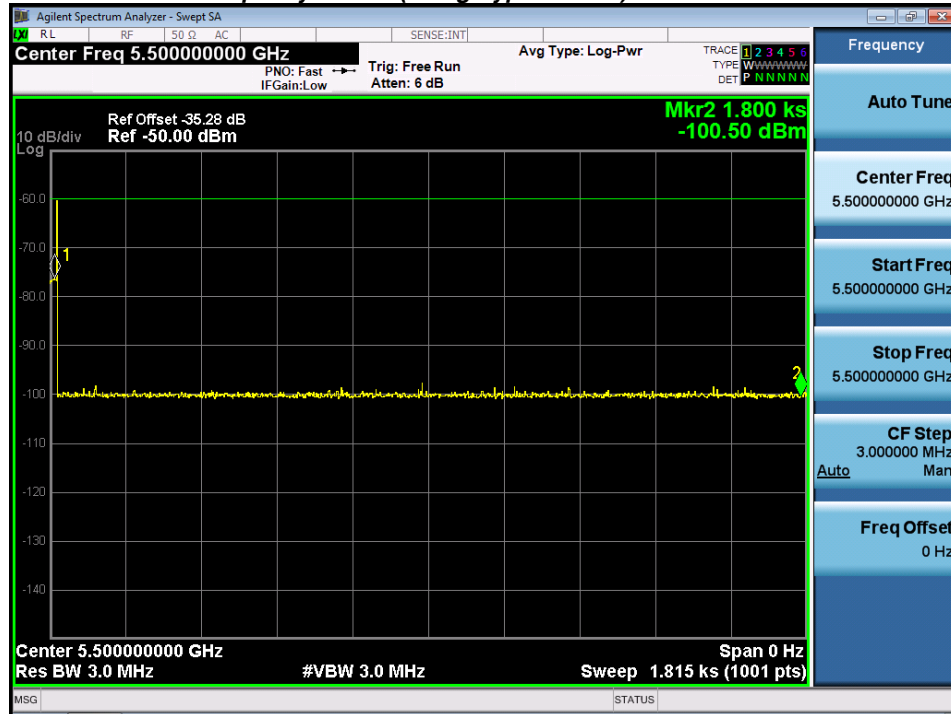
Channel Move Time, Channel Closing Transmission Time for





Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

30 Minute Non-Occupancy Period (using Type 0 radar)



B.7 Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5500 MHz. 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 Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at -63dbm. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the *Radar Test Waveforms* section.

KDB 905462 D02 UNII DFS compliance procedure New Rules v02:

Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Statistical Performance Check

1. One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands
2. 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.
3. Stream the channel loading test file from the *Master Device* to the Client Device on the test *Channel* for the entire period of the test.
4. At time T_0 the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, 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.
5. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
6. 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.

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

Short Radar Pulses Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in Table 5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in Table 5.

Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in Table 6. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

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

- the Channel center frequency (Figure 18);
- tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth (Figure 19); and
- tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth (Figure 20).

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

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by: $FL + (0.4 * \text{Chirp Width [in MHz]})$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT *Occupied Bandwidth*, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by $FH - (0.4 * \text{Chirp Width [in MHz]})$

Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal (radar type 6) found in Table 7. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

**Test Channels:**

Channel 5500MHz 20MHz BW data see page 64
 Channel 5510MHz 40MHz BW data see page 87
 Channel 5530MHz 80MHz BW data see page 114

Channel 5500MHz, 20MHz BW, USA Bin 1A/1B Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	57	1	938	1	96.7%	60.0%
2	5492	81	1	658	1		
3	5492	102	1	518	1		
4	5492	18	1	3066	1		
5	5492	95	1	558	1		
6	5492	61	1	878	0		
7	5495	89	1	598	1		
8	5495	58	1	918	1		
9	5495	102	1	518	1		
10	5495	92	1	578	1		
11	5495	18	1	3066	1		
12	5495	81	1	658	1		
13	5500	62	1	858	1		
14	5500	72	1	738	1		
15	5500	76	1	698	1		
16	5500	22	1	2413	1		
17	5500	76	1	699	1		
18	5500	42	1	1283	1		
19	5505	20	1	2764	1		
20	5505	72	1	735	1		
21	5505	36	1	1505	1		
22	5505	24	1	2221	1		
23	5505	43	1	1254	1		
24	5505	23	1	2363	1		
25	5508	38	1	1403	1		
26	5508	38	1	1408	1		
27	5508	23	1	2394	1		
28	5508	21	1	2578	1		
29	5508	19	1	2886	1		
30	5508	41	1	1303	1		


Channel 5500MHz, 20MHz BW, USA Bin 2 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	27	3.6	162	1	96.7%	60.0%
2	5492	23	2.8	201	1		
3	5492	24	3	159	1		
4	5492	25	3.4	184	1		
5	5492	27	4.3	190	1		
6	5492	29	2.4	154	1		
7	5495	25	1	167	1		
8	5495	28	3.5	172	1		
9	5495	29	4.9	184	1		
10	5495	23	1	228	1		
11	5495	27	3.5	181	1		
12	5495	26	3.8	161	1		
13	5500	23	3.5	176	1		
14	5500	25	1.8	199	1		
15	5500	27	4.9	169	1		
16	5500	27	3.9	182	1		
17	5500	29	2.9	191	1		
18	5500	27	3.8	211	1		
19	5505	23	4	193	1		
20	5505	26	5	223	0		
21	5505	23	3.9	169	1		
22	5505	24	2.6	181	1		
23	5505	24	4.7	166	1		
24	5505	23	2.8	221	1		
25	5508	27	2.4	187	1		
26	5508	29	4.1	159	1		
27	5508	29	4.7	165	1		
28	5508	25	2.7	150	1		
29	5508	23	1	188	1		
30	5508	26	1.5	190	1		



Channel 5500MHz, 20MHz BW, USA Bin 3 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	18	7.1	427	0	96.7%	60.0%
2	5492	17	7.5	348	1		
3	5492	16	8.9	417	1		
4	5492	18	6.5	229	1		
5	5492	16	6.9	349	1		
6	5492	16	7.2	330	1		
7	5495	18	9.8	216	1		
8	5495	17	8.7	304	1		
9	5495	17	10	439	1		
10	5495	18	8.8	383	1		
11	5495	17	9	353	1		
12	5495	18	7.1	204	1		
13	5500	18	6.3	272	1		
14	5500	16	8.3	437	1		
15	5500	17	9.4	214	1		
16	5500	18	8.2	444	1		
17	5500	16	8.1	406	1		
18	5500	17	7.6	327	1		
19	5505	17	7.5	458	1		
20	5505	17	9.4	311	1		
21	5505	18	6.8	498	1		
22	5505	18	9.4	467	1		
23	5505	16	7.5	301	1		
24	5505	17	6.6	476	1		
25	5508	18	8.2	413	1		
26	5508	16	6	361	1		
27	5508	17	9.1	345	1		
28	5508	16	6.6	385	1		
29	5508	17	6.2	452	1		
30	5508	17	8.2	272	1		



Channel 5500MHz, 20MHz BW, USA Bin 4 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	13	14.8	422	1	83.3%	60.0%
2	5492	14	15.7	482	1		
3	5492	16	16.2	310	1		
4	5492	15	12.1	225	0		
5	5492	13	15.4	216	1		
6	5492	13	14	253	1		
7	5495	13	11.6	268	1		
8	5495	16	12.9	314	1		
9	5495	16	15.4	345	1		
10	5495	13	18.3	289	1		
11	5495	16	18.6	216	0		
12	5495	14	11.5	443	1		
13	5500	13	13.7	203	1		
14	5500	12	18.2	336	1		
15	5500	16	19.8	422	1		
16	5500	12	17.7	399	1		
17	5500	13	14.3	220	0		
18	5500	16	13.4	473	1		
19	5505	15	13.2	405	1		
20	5505	13	13	425	1		
21	5505	15	11.6	226	1		
22	5505	12	15.6	393	1		
23	5505	14	19.7	316	1		
24	5505	13	15.9	295	1		
25	5508	13	12.3	386	1		
26	5508	14	13.8	253	1		
27	5508	15	15.7	473	0		
28	5508	16	18.4	312	1		
29	5508	12	17.3	215	1		
30	5508	13	18.9	348	0		

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (96.7\% + 96.7\% + 96.7\% + 83.3\%) / 4 = 93.3\% > 80\%$$



*See the Bin5 Radar Characteristics at the end of this report.

Channel 5500MHz, 20MHz BW, USA Bin 5 Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 5 Radar Test 1	1	83.3%	80.0%
2	USA Bin 5 Radar Test 2	1		
3	USA Bin 5 Radar Test 3	1		
4	USA Bin 5 Radar Test 4	1		
5	USA Bin 5 Radar Test 5	0		
6	USA Bin 5 Radar Test 6	0		
7	USA Bin 5 Radar Test 7	0		
8	USA Bin 5 Radar Test 8	0		
9	USA Bin 5 Radar Test 9	1		
10	USA Bin 5 Radar Test 10	0		
11	USA Bin 5 Radar Test 11	1		
12	USA Bin 5 Radar Test 12	1		
13	USA Bin 5 Radar Test 13	1		
14	USA Bin 5 Radar Test 14	1		
15	USA Bin 5 Radar Test 15	1		
16	USA Bin 5 Radar Test 16	1		
17	USA Bin 5 Radar Test 17	1		
18	USA Bin 5 Radar Test 18	1		
19	USA Bin 5 Radar Test 19	1		
20	USA Bin 5 Radar Test 20	1		
21	USA Bin 5 Radar Test 21	1		
22	USA Bin 5 Radar Test 22	1		
23	USA Bin 5 Radar Test 23	1		
24	USA Bin 5 Radar Test 24	1		
25	USA Bin 5 Radar Test 25	1		
26	USA Bin 5 Radar Test 26	1		
27	USA Bin 5 Radar Test 27	1		
28	USA Bin 5 Radar Test 28	1		
29	USA Bin 5 Radar Test 29	1		
30	USA Bin 5 Radar Test 30	1		



USA Bin 5 Trial #1

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5493.4	6	55	1131	1725	0.026532
2	2	5493.4	6	80	1812		0.933064
3	1	5493.4	6	55			1.830253
4	1	5493.4	6	75			3.092438
5	2	5493.4	6	90	1485		4.222108
6	2	5493.4	6	50	1148		4.93751
7	2	5493.4	6	55	1673		5.538252
8	2	5493.4	6	50	1183		6.433435
9	2	5493.4	6	75	1305		7.212096
10	2	5493.4	6	60	1720		8.258374
11	1	5493.4	6	100			9.073082
12	1	5493.4	6	75			10.193014
13	1	5493.4	6	80			11.100373
14	2	5493.4	6	60	1923		11.340059

USA Bin 5 Trial #2

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5498.2	18	75	1558		0.734392
2	3	5498.2	18	70	1908	1084	1.121039
3	3	5498.2	18	85	1038	1277	2.326084
4	2	5498.2	18	95	1202		2.881871
5	1	5498.2	18	50			3.254828
6	1	5498.2	18	80			4.691345
7	2	5498.2	18	65	1372		5.453018
8	2	5498.2	18	100	1691		5.941623
9	3	5498.2	18	95	1643	1635	6.512773
10	2	5498.2	18	60	1856		7.533884
11	2	5498.2	18	80	1588		8.405801
12	2	5498.2	18	60	1039		9.449977
13	3	5498.2	18	70	1619	1431	10.024465
14	2	5498.2	18	70	1780		11.025415
15	3	5498.2	18	100	1808	1543	11.379225

USA Bin 5 Trial #3

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5493.8	7	70	1182		0.676336
2	1	5493.8	7	65			1.881063
3	3	5493.8	7	55	1645	1117	3.618873
4	2	5493.8	7	70	1972		5.111657



5	1	5493.8	7	50		6.55454
6	1	5493.8	7	75		6.715352
7	1	5493.8	7	75		8.642821
8	2	5493.8	7	65	1548	9.993257
9	2	5493.8	7	100	1231	11.301367

USA Bin 5 Trial #4

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5495.4	11	95	1425	1968	0.912937
2	3	5495.4	11	100	1239	1282	2.312439
3	2	5495.4	11	80	1909		3.049405
4	3	5495.4	11	75	1789	1199	4.492414
5	3	5495.4	11	65	1502	1686	5.558532
6	2	5495.4	11	55	1648		7.03527
7	1	5495.4	11	75			8.512928
8	2	5495.4	11	65	1637		10.381945
9	2	5495.4	11	50	1384		11.859575

USA Bin 5 Trial #5

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5499	20	100	1545		0.131974
2	2	5499	20	50	1152		0.934747
3	3	5499	20	60	1608	1883	1.379305
4	3	5499	20	95	1324	1520	1.868673
5	1	5499	20	85			2.674271
6	3	5499	20	50	1253	1899	3.036912
7	1	5499	20	70			3.993214
8	3	5499	20	95	1264	1290	4.751092
9	2	5499	20	95	1029		4.802973
10	1	5499	20	95			5.412754
11	3	5499	20	60	1376	1789	6.247538
12	3	5499	20	100	1640	1698	6.88423
13	2	5499	20	100	1823		7.549139
14	2	5499	20	75	1917		8.290056
15	1	5499	20	75			8.602584
16	1	5499	20	90			9.552652
17	2	5499	20	60	1202		9.950228
18	3	5499	20	85	1439	1266	10.386638
19	1	5499	20	50			11.211337
20	2	5499	20	75	1597		11.750883

USA Bin 5 Trial #6



Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5497.4	16	55	1784		0.95853
2	1	5497.4	16	85			2.08584
3	1	5497.4	16	55			3.575034
4	1	5497.4	16	70			4.573777
5	3	5497.4	16	50	1660	1487	5.582693
6	1	5497.4	16	65			6.959249
7	3	5497.4	16	95	1716	1350	8.394816
8	3	5497.4	16	100	1882	1445	9.204767
9	2	5497.4	16	80	1659		9.665413
10	3	5497.4	16	80	1348	1380	11.187567

USA Bin 5 Trial #7

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5496.2	13	55	1934		0.686247
2	3	5496.2	13	80	1333	1180	1.192779
3	2	5496.2	13	65	1668		1.560391
4	3	5496.2	13	70	1251	1291	2.397134
5	3	5496.2	13	75	1746	1903	3.271898
6	1	5496.2	13	100			4.172922
7	2	5496.2	13	90	1739		4.594661
8	2	5496.2	13	55	1082		5.372672
9	1	5496.2	13	50			6.294936
10	2	5496.2	13	75	1357		6.675519
11	1	5496.2	13	65			7.657202
12	3	5496.2	13	90	1207	1769	8.395541
13	3	5496.2	13	90	1253	1191	9.109405
14	2	5496.2	13	50	1512		9.568192
15	3	5496.2	13	95	1577	1771	10.169171
16	3	5496.2	13	55	1515	1692	10.699608
17	1	5496.2	13	90			11.325175

USA Bin 5 Trial #8

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5497.4	16	55			0.377632
2	1	5497.4	16	85			1.220487
3	1	5497.4	16	60			2.818943
4	2	5497.4	16	50	1813		3.483971
5	1	5497.4	16	100			4.198742
6	1	5497.4	16	85			5.236502
7	1	5497.4	16	50			6.387081



8	1	5497.4	16	55			7.93429
9	1	5497.4	16	65			8.822774
10	2	5497.4	16	60	1213		9.733415
11	3	5497.4	16	100	1443	1221	10.890048
12	2	5497.4	16	55	1400		11.000725

USA Bin 5 Trial #9

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5494.2	8	90	1318	1009	0.376281
2	1	5494.2	8	65			2.929856
3	3	5494.2	8	60	1790	1615	3.542874
4	2	5494.2	8	65	1966		5.678291
5	1	5494.2	8	70			6.988875
6	1	5494.2	8	50			7.902979
7	1	5494.2	8	65			9.668667
8	1	5494.2	8	85			11.038325

USA Bin 5 Trial #10

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5497.8	17	50	1368	1383	0.36227
2	2	5497.8	17	100	1197		0.691155
3	2	5497.8	17	70	1627		1.58423
4	1	5497.8	17	85			2.498463
5	2	5497.8	17	90	1025		2.919954
6	2	5497.8	17	70	1972		3.832765
7	1	5497.8	17	80			4.026832
8	1	5497.8	17	80			4.823263
9	2	5497.8	17	75	1110		5.815539
10	1	5497.8	17	85			6.027312
11	1	5497.8	17	80			6.761659
12	2	5497.8	17	50	1167		7.729744
13	2	5497.8	17	95	1044		8.407733
14	3	5497.8	17	60	1656	1194	9.25993
15	3	5497.8	17	95	1567	1690	9.357161
16	2	5497.8	17	60	1916		10.196728
17	3	5497.8	17	90	1832	1020	10.807549
18	3	5497.8	17	100	1437	1542	11.476008

USA Bin 5 Trial #11

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5500	5	100			0.420929
2	3	5500	5	85	1181	1834	0.864858



3	1	5500	5	55			1.941823
4	1	5500	5	75			2.349341
5	1	5500	5	65			3.462498
6	1	5500	5	70			4.106039
7	3	5500	5	65	1188	1028	4.839558
8	1	5500	5	65			5.891127
9	1	5500	5	80			6.603221
10	3	5500	5	85	1438	1231	7.296239
11	3	5500	5	60	1757	1080	8.052206
12	3	5500	5	100	1426	1390	8.699375
13	2	5500	5	95	1290		9.668943
14	1	5500	5	100			10.291355
15	3	5500	5	55	1886	1651	11.16281
16	1	5500	5	95			11.770546

USA Bin 5 Trial #12

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	18	50	1872		0.423182
2	3	5500	18	55	1857	1812	2.152488
3	2	5500	18	55	1666		3.701406
4	1	5500	18	100			4.189735
5	1	5500	18	95			6.587685
6	1	5500	18	60			7.527358
7	1	5500	18	80			9.027462
8	1	5500	18	50			9.567219
9	3	5500	18	80	1030	1088	10.979296

USA Bin 5 Trial #13

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	18	100	1638		0.003525
2	1	5500	18	100			1.467455
3	1	5500	18	100			2.383305
4	1	5500	18	80			3.139331
5	1	5500	18	55			3.661308
6	1	5500	18	55			4.493524
7	3	5500	18	80	1909	1420	5.548331
8	1	5500	18	65			6.139185
9	2	5500	18	65	1600		7.692852
10	3	5500	18	65	1251	1729	7.932077
11	1	5500	18	90			8.978054
12	2	5500	18	90	1283		9.54749
13	2	5500	18	50	1085		10.561325
14	3	5500	18	90	1564	1440	11.976313



USA Bin 5 Trial #14

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5500	11	55			1.100681
2	3	5500	11	90	1750	1233	1.93708
3	2	5500	11	75	1606		3.582265
4	3	5500	11	75	1138	1476	4.441078
5	3	5500	11	90	1179	1246	6.336118
6	2	5500	11	60	1685		7.683996
7	2	5500	11	95	1862		8.850846
8	2	5500	11	100	1142		10.291816
9	1	5500	11	55			10.889908

USA Bin 5 Trial #15

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	6	90	1319		0.916226
2	2	5500	6	90	1960		2.56648
3	2	5500	6	65	1048		3.547171
4	3	5500	6	60	1116	1855	4.579378
5	2	5500	6	85	1896		6.126367
6	2	5500	6	85	1394		6.753605
7	3	5500	6	65	1616	1885	8.788246
8	3	5500	6	65	1906	1562	9.61604
9	1	5500	6	70			11.703737

USA Bin 5 Trial #16

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5500	9	80			0.279175
2	3	5500	9	95	1525	1935	0.919196
3	3	5500	9	80	1881	1842	1.717695
4	3	5500	9	85	1385	1555	2.108793
5	2	5500	9	70	1306		2.51087
6	2	5500	9	75	1894		3.149404
7	1	5500	9	55			4.05822
8	2	5500	9	90	1232		4.390391
9	3	5500	9	60	1230	1469	5.37376
10	1	5500	9	100			5.514214
11	1	5500	9	100			6.21762
12	1	5500	9	65			6.879563
13	2	5500	9	50	1559		7.747912
14	1	5500	9	90			8.256638
15	3	5500	9	60	1783	1840	8.669596



16	2	5500	9	90	1862		9.542498
17	1	5500	9	75			10.021251
18	2	5500	9	90	1192		10.409404
19	2	5500	9	75	1278		11.331077
20	3	5500	9	60	1777	1588	11.819444

USA Bin 5 Trial #17

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	11	60	1836		0.7645
2	1	5500	11	85			1.553967
3	3	5500	11	95	1757	1021	1.899021
4	1	5500	11	75			3.35667
5	3	5500	11	55	1707	1295	4.492314
6	3	5500	11	85	1247	1643	5.007202
7	2	5500	11	50	1302		6.450279
8	1	5500	11	100			7.138321
9	3	5500	11	100	1809	1925	7.921802
10	1	5500	11	80			8.840562
11	3	5500	11	85	1214	1727	9.713323
12	1	5500	11	75			10.678733
13	2	5500	11	75	1520		11.866127

USA Bin 5 Trial #18

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5500	13	60	1822	1900	0.220701
2	3	5500	13	80	1279	1061	2.925125
3	2	5500	13	55	1811		3.83381
4	3	5500	13	80	1015	1698	5.231187
5	1	5500	13	50			6.904477
6	2	5500	13	85	1385		8.802293
7	2	5500	13	85	1803		10.493438
8	1	5500	13	65			10.684951

USA Bin 5 Trial #19

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5500	19	50			0.024085
2	1	5500	19	60			0.859243
3	1	5500	19	85			2.042576
4	3	5500	19	100	1231	1861	2.454092
5	3	5500	19	50	1322	1481	3.533577
6	3	5500	19	90	1025	1691	4.213746
7	2	5500	19	80	1736		4.509542



8	2	5500	19	85	1741		5.382858
9	3	5500	19	95	1460	1076	6.51817
10	3	5500	19	55	1871	1796	7.105597
11	1	5500	19	75			7.8135
12	2	5500	19	80	1600		8.294202
13	3	5500	19	85	1572	1592	9.438659
14	2	5500	19	80	1775		10.370369
15	1	5500	19	55			11.223824
16	3	5500	19	75	1255	1413	11.478338

USA Bin 5 Trial #20

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	18	100	1217		1.112418
2	3	5500	18	75	1909	1434	1.721142
3	3	5500	18	90	1848	1671	3.318906
4	3	5500	18	50	1674	1356	4.836344
5	2	5500	18	55	1602		6.631998
6	1	5500	18	90			7.128156
7	2	5500	18	50	1276		9.205315
8	3	5500	18	75	1095	1083	9.672204
9	2	5500	18	55	1857		11.16979

USA Bin 5 Trial #21

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5506.6	6	75			0.615776
2	3	5506.6	6	85	1229	1212	1.283913
3	1	5506.6	6	50			2.375161
4	3	5506.6	6	70	1374	1287	3.230484
5	2	5506.6	6	65	1480		3.947855
6	2	5506.6	6	55	1165		5.026879
7	2	5506.6	6	80	1446		5.333733
8	1	5506.6	6	65			6.52837
9	2	5506.6	6	100	1909		7.121115
10	2	5506.6	6	50	1220		8.082435
11	1	5506.6	6	100			9.11469
12	2	5506.6	6	70	1426		10.145845
13	1	5506.6	6	80			10.672598
14	1	5506.6	6	80			11.854829

USA Bin 5 Trial #22

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5507	5	55			0.331789



2	1	5507	5	80			0.95925
3	2	5507	5	85	1473		1.773319
4	3	5507	5	70	1693	1552	2.346204
5	1	5507	5	60			3.117124
6	1	5507	5	65			3.716241
7	1	5507	5	100			3.957657
8	1	5507	5	65			4.93847
9	1	5507	5	60			5.471161
10	3	5507	5	95	1387	1040	5.764732
11	2	5507	5	65	1302		6.451167
12	1	5507	5	95			7.298189
13	1	5507	5	75			7.687157
14	2	5507	5	55	1494		8.237943
15	3	5507	5	90	1906	1949	9.006574
16	2	5507	5	55	1473		9.678186
17	3	5507	5	85	1845	1262	10.499074
18	2	5507	5	85	1887		11.287144
19	3	5507	5	95	1408	1273	11.676983

USA Bin 5 Trial #23

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5501.8	18	95	1865	1802	0.52336
2	1	5501.8	18	55			2.197755
3	2	5501.8	18	60	1768		2.647697
4	3	5501.8	18	95	1453	1104	4.405447
5	3	5501.8	18	75	1337	1576	5.498154
6	2	5501.8	18	85	1755		6.812482
7	3	5501.8	18	80	1591	1506	7.507839
8	1	5501.8	18	85			8.997362
9	1	5501.8	18	80			10.051943
10	3	5501.8	18	50	1004	1139	11.661035

USA Bin 5 Trial #24

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5503.8	13	55			0.826264
2	3	5503.8	13	70	1466	1705	2.846632
3	1	5503.8	13	65			4.243385
4	1	5503.8	13	85			4.851741
5	3	5503.8	13	55	1564	1537	6.705223
6	1	5503.8	13	85			8.544113
7	3	5503.8	13	65	1655	1624	9.156461
8	3	5503.8	13	50	1080	1428	11.420088

USA Bin 5 Trial #25



Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5502.6	16	90			0.825811
2	3	5502.6	16	85	1488	1684	1.492116
3	2	5502.6	16	60	1891		3.989887
4	2	5502.6	16	75	1743		4.699404
5	3	5502.6	16	55	1268	1551	6.017811
6	1	5502.6	16	80			6.706037
7	2	5502.6	16	55	1752		8.817579
8	2	5502.6	16	80	1970		10.19481
9	3	5502.6	16	65	1712	1205	11.041405

USA Bin 5 Trial #26

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5501.4	19	100	1025		0.334283
2	2	5501.4	19	75	1383		1.007359
3	1	5501.4	19	60			2.586062
4	1	5501.4	19	85			3.687447
5	3	5501.4	19	75	1042	1244	4.487799
6	3	5501.4	19	90	1754	1068	4.749831
7	2	5501.4	19	50	1653		6.435254
8	3	5501.4	19	85	1562	1911	7.241891
9	2	5501.4	19	95	1713		8.062208
10	1	5501.4	19	80			9.075805
11	1	5501.4	19	50			10.150764
12	3	5501.4	19	90	1702	1833	10.375217
13	2	5501.4	19	90	1308		11.34286

USA Bin 5 Trial #27

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5501.4	19	60			0.061322
2	1	5501.4	19	70			0.918226
3	2	5501.4	19	55	1133		1.986963
4	1	5501.4	19	60			3.131026
5	3	5501.4	19	85	1687	1271	3.59399
6	2	5501.4	19	75	1270		4.1603
7	3	5501.4	19	70	1003	1260	5.485248
8	2	5501.4	19	75	1120		5.871843
9	2	5501.4	19	50	1452		6.81887
10	3	5501.4	19	65	1045	1022	7.811794
11	3	5501.4	19	55	1535	1818	8.303673
12	3	5501.4	19	50	1090	1140	9.06071



13	1	5501.4	19	70			10.364535
14	3	5501.4	19	65	1079	1248	10.570609
15	2	5501.4	19	65	1943		11.371516

USA Bin 5 Trial #28

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5501	20	65			0.588839
2	3	5501	20	70	1558	1503	2.242031
3	1	5501	20	85			3.926101
4	2	5501	20	70	1867		5.722136
5	3	5501	20	95	1234	1142	7.302345
6	3	5501	20	65	1832	1908	8.390952
7	3	5501	20	100	1070	1276	9.893702
8	3	5501	20	60	1870	1290	11.063657

USA Bin 5 Trial #29

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5506.6	6	80	1489	1139	0.067725
2	1	5506.6	6	95			1.222311
3	2	5506.6	6	55	1123		1.6124
4	1	5506.6	6	70			2.401094
5	2	5506.6	6	65	1790		3.302582
6	3	5506.6	6	85	1081	1059	4.202867
7	1	5506.6	6	60			4.866515
8	3	5506.6	6	50	1531	1223	5.520883
9	2	5506.6	6	50	1654		6.502951
10	1	5506.6	6	95			6.984696
11	2	5506.6	6	80	1375		7.881818
12	2	5506.6	6	90	1739		8.960883
13	3	5506.6	6	60	1880	1493	9.445468
14	2	5506.6	6	100	1207		10.333833
15	3	5506.6	6	100	1996	1127	10.627195
16	2	5506.6	6	50	1231		11.662775

USA Bin 5 Trial #30

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5506.6	6	90	1273		0.128597
2	3	5506.6	6	100	1251	1904	1.028472
3	3	5506.6	6	100	1435	1291	1.602008
4	1	5506.6	6	50			2.336004
5	2	5506.6	6	80	1500		2.858578
6	3	5506.6	6	80	1874	1264	3.671894



7	3	5506.6	6	55	1886	1868	4.066985
8	2	5506.6	6	100	1032		4.610543
9	3	5506.6	6	70	1069	1658	5.347757
10	3	5506.6	6	95	1107	1483	6.074402
11	3	5506.6	6	55	1029	1529	6.53927
12	2	5506.6	6	100	1456		7.304612
13	2	5506.6	6	65	1614		7.864174
14	2	5506.6	6	50	1188		8.826077
15	2	5506.6	6	70	1641		9.405364
16	2	5506.6	6	65	1031		9.64908
17	1	5506.6	6	55			10.5744
18	3	5506.6	6	80	1487	1955	11.076491
19	3	5506.6	6	65	1165	1589	11.645677



*See the Bin6 Radar Characteristics at the end of this report.

Channel 5500MHz, 20MHz BW, USA Frequency Hopping Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 6 Radar Test 1	1	93.3%	70.0%
2	USA Bin 6 Radar Test 2	1		
3	USA Bin 6 Radar Test 3	1		
4	USA Bin 6 Radar Test 4	1		
5	USA Bin 6 Radar Test 5	1		
6	USA Bin 6 Radar Test 6	1		
7	USA Bin 6 Radar Test 7	1		
8	USA Bin 6 Radar Test 8	1		
9	USA Bin 6 Radar Test 9	0		
10	USA Bin 6 Radar Test 10	1		
11	USA Bin 6 Radar Test 11	1		
12	USA Bin 6 Radar Test 12	1		
13	USA Bin 6 Radar Test 13	1		
14	USA Bin 6 Radar Test 14	1		
15	USA Bin 6 Radar Test 15	1		
16	USA Bin 6 Radar Test 16	1		
17	USA Bin 6 Radar Test 17	1		
18	USA Bin 6 Radar Test 18	1		
19	USA Bin 6 Radar Test 19	1		
20	USA Bin 6 Radar Test 20	1		
21	USA Bin 6 Radar Test 21	1		
22	USA Bin 6 Radar Test 22	1		
23	USA Bin 6 Radar Test 23	1		
24	USA Bin 6 Radar Test 24	1		
25	USA Bin 6 Radar Test 25	1		
26	USA Bin 6 Radar Test 26	1		
27	USA Bin 6 Radar Test 27	1		
28	USA Bin 6 Radar Test 28	0		
29	USA Bin 6 Radar Test 29	1		
30	USA Bin 6 Radar Test 30	1		



USA Frequency Hopping Trial #1

Hop #	Freq (GHz)	Pulse Start (mS)
32	5499	96
46	5493	138
50	5497	150
66	5504	198

USA Frequency Hopping Trial #2

Hop #	Freq (GHz)	Pulse Start (mS)
58	5508	174
77	5501	231

USA Frequency Hopping Trial #3

Hop #	Freq (GHz)	Pulse Start (mS)
27	5493	81
32	5509	96
59	5501	177
62	5506	186
75	5491	225
99	5500	297

USA Frequency Hopping Trial #4

Hop #	Freq (GHz)	Pulse Start (mS)
13	5508	39
14	5504	42
71	5494	213

USA Frequency Hopping Trial #5

Hop #	Freq (GHz)	Pulse Start (mS)
5	5503	15
19	5500	57
35	5501	105
61	5504	183
62	5502	186
65	5507	195
82	5498	246

USA Frequency Hopping Trial #6

Hop #	Freq (GHz)	Pulse Start (mS)
79	5502	237

USA Frequency Hopping Trial #7

Hop #	Freq (GHz)	Pulse Start (mS)
36	5504	108



73	5493	219
84	5507	252
89	5497	267

USA Frequency Hopping Trial #8

Hop #	Freq (GHz)	Pulse Start (mS)
11	5509	33
32	5507	96

USA Frequency Hopping Trial #9

Hop #	Freq (GHz)	Pulse Start (mS)
62	5506	186

USA Frequency Hopping Trial #10

Hop #	Freq (GHz)	Pulse Start (mS)
0	5509	0
15	5501	45
36	5491	108
47	5492	141
56	5506	168
66	5504	198

USA Frequency Hopping Trial #11

Hop #	Freq (GHz)	Pulse Start (mS)
2	5505	6
44	5495	132
62	5498	186
77	5504	231
91	5492	273

USA Frequency Hopping Trial #12

Hop #	Freq (GHz)	Pulse Start (mS)
21	5497	63
35	5500	105
41	5491	123
49	5509	147
97	5505	291

USA Frequency Hopping Trial #13

Hop #	Freq (GHz)	Pulse Start (mS)
2	5496	6
12	5509	36

USA Frequency Hopping Trial #14

Hop #	Freq (GHz)	Pulse Start (mS)
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15	5494	45
75	5502	225

USA Frequency Hopping Trial #15

Hop #	Freq (GHz)	Pulse Start (mS)
1	5491	3
52	5501	156
53	5499	159
61	5509	183
81	5495	243

USA Frequency Hopping Trial #16

Hop #	Freq (GHz)	Pulse Start (mS)
6	5509	18
18	5502	54
24	5495	72
35	5505	105
41	5501	123
45	5506	135
78	5499	234

USA Frequency Hopping Trial #17

Hop #	Freq (GHz)	Pulse Start (mS)
14	5505	42
64	5496	192

USA Frequency Hopping Trial #18

Hop #	Freq (GHz)	Pulse Start (mS)
8	5503	24
66	5493	198
78	5498	234

USA Frequency Hopping Trial #19

Hop #	Freq (GHz)	Pulse Start (mS)
2	5493	6
29	5502	87
49	5507	147
66	5494	198
81	5500	243
97	5497	291

USA Frequency Hopping Trial #20

Hop #	Freq (GHz)	Pulse Start (mS)
39	5494	117
87	5504	261



USA Frequency Hopping Trial #21

Hop #	Freq (GHz)	Pulse Start (mS)
2	5501	6
54	5493	162
93	5504	279
96	5507	288

USA Frequency Hopping Trial #22

Hop #	Freq (GHz)	Pulse Start (mS)
51	5506	153

USA Frequency Hopping Trial #23

Hop #	Freq (GHz)	Pulse Start (mS)
37	5504	111
38	5503	114
42	5491	126
48	5496	144
76	5508	228
80	5495	240

USA Frequency Hopping Trial #24

Hop #	Freq (GHz)	Pulse Start (mS)
30	5491	90
31	5500	93
34	5493	102
38	5496	114
41	5504	123
48	5502	144
52	5495	156
58	5497	174
79	5501	237

USA Frequency Hopping Trial #25

Hop #	Freq (GHz)	Pulse Start (mS)
6	5503	18
8	5509	24
9	5507	27
49	5502	147
69	5493	207
85	5497	255

USA Frequency Hopping Trial #26

Hop #	Freq (GHz)	Pulse Start (mS)
24	5508	72



32	5499	96
59	5500	177
62	5495	186
64	5507	192
89	5504	267
96	5498	288

USA Frequency Hopping Trial #27

Hop #	Freq (GHz)	Pulse Start (mS)
4	5492	12
23	5505	69
27	5499	81
53	5504	159
60	5495	180

USA Frequency Hopping Trial #28

Hop #	Freq (GHz)	Pulse Start (mS)
67	5500	201

USA Frequency Hopping Trial #29

Hop #	Freq (GHz)	Pulse Start (mS)
2	5505	6
19	5506	57
59	5497	177

USA Frequency Hopping Trial #30

Hop #	Freq (GHz)	Pulse Start (mS)
45	5501	135
54	5502	162
84	5492	252
86	5504	258



Channel 5510MHz, 40MHz BW, USA Bin 1A/1B Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	59	1	898	1	100.0%	60.0%
2	5492	72	1	738	1		
3	5492	95	1	558	1		
4	5492	76	1	698	1		
5	5492	61	1	878	1		
6	5492	72	1	738	1		
7	5500	72	1	738	1		
8	5500	92	1	578	1		
9	5500	67	1	798	1		
10	5500	92	1	578	1		
11	5500	63	1	838	1		
12	5500	81	1	658	1		
13	5510	68	1	778	1		
14	5510	83	1	638	1		
15	5510	61	1	878	1		
16	5510	36	1	1475	1		
17	5510	27	1	1980	1		
18	5510	26	1	2040	1		
19	5520	46	1	1169	1		
20	5520	21	1	2548	1		
21	5520	26	1	2060	1		
22	5520	41	1	1307	1		
23	5520	33	1	1610	1		
24	5520	24	1	2253	1		
25	5528	62	1	862	1		
26	5528	46	1	1150	1		
27	5528	29	1	1826	1		
28	5528	19	1	2815	1		
29	5528	30	1	1808	1		
30	5528	24	1	2264	1		



Channel 5510MHz, 40MHz BW, USA Bin 2 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	26	3	202	1	86.7%	60.0%
2	5492	25	3.1	160	0		
3	5492	26	4.7	194	1		
4	5492	23	2.5	159	1		
5	5492	24	1.2	216	1		
6	5492	24	4.4	211	1		
7	5500	29	1.1	159	1		
8	5500	23	4.9	201	1		
9	5500	28	3.5	201	0		
10	5500	29	2.6	204	1		
11	5500	27	2.7	169	1		
12	5500	26	1.9	228	1		
13	5510	27	4.5	191	0		
14	5510	28	2.8	205	1		
15	5510	29	1.6	207	1		
16	5510	26	3.8	217	1		
17	5510	28	4.1	184	1		
18	5510	25	4.9	199	1		
19	5520	29	4.8	171	1		
20	5520	29	2.3	201	1		
21	5520	26	2.6	188	0		
22	5520	25	2.9	206	1		
23	5520	24	2.3	213	1		
24	5520	28	3.8	223	1		
25	5528	26	4.7	173	1		
26	5528	23	4.7	174	1		
27	5528	28	1.1	212	1		
28	5528	27	2.6	158	1		
29	5528	24	4.8	200	1		
30	5528	25	4	228	1		



Channel 5510MHz, 40MHz BW, USA Bin 3 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	16	9.1	239	1	100.0%	60.0%
2	5492	18	7.1	331	1		
3	5492	16	10	311	1		
4	5492	16	9.6	461	1		
5	5492	18	7.8	454	1		
6	5492	17	8.8	302	1		
7	5500	17	9.6	495	1		
8	5500	16	7.6	207	1		
9	5500	16	9	390	1		
10	5500	17	6	453	1		
11	5500	17	9	398	1		
12	5500	17	8.7	383	1		
13	5510	16	6.8	232	1		
14	5510	17	9	234	1		
15	5510	18	9.9	469	1		
16	5510	17	7.6	253	1		
17	5510	17	8.3	233	1		
18	5510	18	8.8	367	1		
19	5520	18	6.9	494	1		
20	5520	16	6.7	353	1		
21	5520	16	8.3	292	1		
22	5520	18	7.7	488	1		
23	5520	17	10	352	1		
24	5520	16	6.5	475	1		
25	5528	17	8.6	450	1		
26	5528	17	8	381	1		
27	5528	18	9.8	436	1		
28	5528	16	7.3	222	1		
29	5528	18	7.8	337	1		
30	5528	17	6.1	384	1		



Channel 5510MHz, 40MHz BW, USA Bin 4 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	13	14.4	308	1	80.0%	60.0%
2	5492	16	12.7	452	1		
3	5492	13	16.1	484	1		
4	5492	16	13.7	372	1		
5	5492	15	13.6	209	1		
6	5492	13	15.2	491	1		
7	5500	16	18.4	389	0		
8	5500	15	18.8	261	1		
9	5500	12	18.9	302	1		
10	5500	16	12.1	214	1		
11	5500	13	11.7	345	1		
12	5500	16	11.2	448	1		
13	5510	14	16.2	333	1		
14	5510	13	13.1	283	0		
15	5510	14	14.5	324	1		
16	5510	13	14.7	352	1		
17	5510	13	11.7	391	0		
18	5510	15	17.1	487	1		
19	5520	16	19.4	436	0		
20	5520	16	14.8	363	1		
21	5520	14	13.9	255	1		
22	5520	12	14.2	347	1		
23	5520	16	11.8	286	1		
24	5520	16	13.3	442	1		
25	5528	12	14.8	408	0		
26	5528	13	13.3	376	1		
27	5528	12	13.5	466	0		
28	5528	13	14.1	375	1		
29	5528	15	11.9	265	1		
30	5528	12	11.4	222	1		

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100.0\% + 86.7\% + 100.0\% + 80.0\%) / 4 = 91.7\% > 80\%$$



*See the Bin5 Radar Characteristics at the end of this report.

Channel 5510MHz, 40MHz BW, USA Bin 5 Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 5 Radar Test 1	1	100.0%	80.0%
2	USA Bin 5 Radar Test 2	1		
3	USA Bin 5 Radar Test 3	1		
4	USA Bin 5 Radar Test 4	1		
5	USA Bin 5 Radar Test 5	1		
6	USA Bin 5 Radar Test 6	1		
7	USA Bin 5 Radar Test 7	1		
8	USA Bin 5 Radar Test 8	1		
9	USA Bin 5 Radar Test 9	1		
10	USA Bin 5 Radar Test 10	1		
11	USA Bin 5 Radar Test 11	1		
12	USA Bin 5 Radar Test 12	1		
13	USA Bin 5 Radar Test 13	1		
14	USA Bin 5 Radar Test 14	1		
15	USA Bin 5 Radar Test 15	1		
16	USA Bin 5 Radar Test 16	1		
17	USA Bin 5 Radar Test 17	1		
18	USA Bin 5 Radar Test 18	1		
19	USA Bin 5 Radar Test 19	1		
20	USA Bin 5 Radar Test 20	1		
21	USA Bin 5 Radar Test 21	1		
22	USA Bin 5 Radar Test 22	1		
23	USA Bin 5 Radar Test 23	1		
24	USA Bin 5 Radar Test 24	1		
25	USA Bin 5 Radar Test 25	1		
26	USA Bin 5 Radar Test 26	1		
27	USA Bin 5 Radar Test 27	1		
28	USA Bin 5 Radar Test 28	1		
29	USA Bin 5 Radar Test 29	1		
30	USA Bin 5 Radar Test 30	1		



USA Bin 5 Trial #1

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5494	5	95	1478	1942	0.3509
2	3	5494	5	95	1555	1926	0.85292
3	2	5494	5	100	1867		1.612488
4	3	5494	5	65	1790	1768	3.111532
5	3	5494	5	100	1372	1487	3.913629
6	1	5494	5	80			4.76116
7	1	5494	5	90			5.060075
8	2	5494	5	90	1954		5.866352
9	3	5494	5	55	1544	1555	6.484704
10	3	5494	5	60	1167	1219	7.443735
11	2	5494	5	50	1769		8.287559
12	3	5494	5	95	1665	1469	8.816703
13	1	5494	5	55			10.347228
14	2	5494	5	100	1959		10.58778
15	3	5494	5	95	1422	1402	11.803425

USA Bin 5 Trial #2

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5496.8	12	50			0.699964
2	2	5496.8	12	75	1410		1.245683
3	2	5496.8	12	80	1316		1.429973
4	1	5496.8	12	65			2.717232
5	3	5496.8	12	50	1926	1781	3.336732
6	3	5496.8	12	50	1655	1697	3.54747
7	2	5496.8	12	85	1375		4.835035
8	2	5496.8	12	65	1266		5.34259
9	2	5496.8	12	75	1016		6.315962
10	2	5496.8	12	100	1739		6.85792
11	1	5496.8	12	100			7.427716
12	2	5496.8	12	100	1067		7.809428
13	1	5496.8	12	60			9.173063
14	1	5496.8	12	85			9.179459
15	2	5496.8	12	85	1776		10.482035
16	1	5496.8	12	50			11.132585
17	2	5496.8	12	75	1686		11.813839

USA Bin 5 Trial #3

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5497.2	13	85	1303		0.279103



2	3	5497.2	13	70	1379	1060	1.676653
3	2	5497.2	13	65	1838		2.361665
4	2	5497.2	13	50	1627		3.289883
5	1	5497.2	13	100			3.683158
6	3	5497.2	13	70	1426	1340	5.044723
7	3	5497.2	13	70	1357	1530	5.40004
8	3	5497.2	13	60	1830	1580	6.134452
9	1	5497.2	13	95			7.035471
10	3	5497.2	13	80	1525	1757	8.31646
11	3	5497.2	13	75	1339	1906	8.873305
12	2	5497.2	13	50	1140		9.977951
13	1	5497.2	13	75			10.716319
14	3	5497.2	13	50	1207	1499	11.973535

USA Bin 5 Trial #4

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5494.8	7	95	1015		0.342079
2	3	5494.8	7	60	1312	1741	0.941652
3	2	5494.8	7	80	1289		2.329496
4	3	5494.8	7	65	1527	1801	2.404665
5	1	5494.8	7	75			3.551134
6	2	5494.8	7	50	1135		4.358582
7	1	5494.8	7	65			5.194245
8	1	5494.8	7	65			6.026278
9	3	5494.8	7	65	1337	1474	6.661706
10	1	5494.8	7	80			7.250875
11	1	5494.8	7	100			8.423755
12	3	5494.8	7	75	1089	1299	9.000291
13	3	5494.8	7	85	1018	1790	10.030315
14	3	5494.8	7	90	1265	1554	11.192107
15	2	5494.8	7	90	1143		11.97403

USA Bin 5 Trial #5

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5494.4	6	100	1272		0.472816
2	3	5494.4	6	90	1676	1463	1.134146
3	2	5494.4	6	70	1998		1.767669
4	3	5494.4	6	75	1716	1209	2.212782
5	1	5494.4	6	100			2.814225
6	2	5494.4	6	65	1437		3.405833
7	2	5494.4	6	70	1268		3.950597
8	1	5494.4	6	50			4.568865
9	3	5494.4	6	65	1951	1869	5.240849



10	2	5494.4	6	90	1140		5.726485
11	1	5494.4	6	85			6.103712
12	2	5494.4	6	55	1325		7.000748
13	3	5494.4	6	80	1156	1470	7.761384
14	2	5494.4	6	100	1675		7.864629
15	2	5494.4	6	85	1717		8.707409
16	1	5494.4	6	50			9.576814
17	2	5494.4	6	90	1383		10.090615
18	1	5494.4	6	90			10.415926
19	3	5494.4	6	70	1910	1644	11.306948
20	2	5494.4	6	60	1574		11.962353

USA Bin 5 Trial #6

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5500	20	80	1102		0.031763
2	1	5500	20	85			1.137331
3	2	5500	20	55	1919		2.065871
4	3	5500	20	95	1480	1742	2.588332
5	2	5500	20	100	1687		3.859848
6	1	5500	20	100			4.414394
7	1	5500	20	55			5.147654
8	3	5500	20	95	1670	1119	6.35441
9	3	5500	20	55	1861	1841	7.625019
10	2	5500	20	65	1682		8.322877
11	2	5500	20	75	1575		9.030461
12	1	5500	20	90			9.970969
13	1	5500	20	95			10.721737
14	2	5500	20	90	1351		11.881669

USA Bin 5 Trial #7

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5496.4	11	70	1905	1224	0.874573
2	2	5496.4	11	70	1698		2.785137
3	1	5496.4	11	85			3.253747
4	3	5496.4	11	65	1198	1954	5.746638
5	3	5496.4	11	75	1718	1765	7.305981
6	2	5496.4	11	50	1658		8.944062
7	2	5496.4	11	70	1832		9.495981
8	1	5496.4	11	55			11.699356

USA Bin 5 Trial #8

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
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1	1	5496	10	100			0.115484
2	2	5496	10	55	1108		1.15488
3	1	5496	10	65			1.693646
4	3	5496	10	70	1912	1567	2.094081
5	1	5496	10	55			2.762285
6	1	5496	10	65			3.33773
7	1	5496	10	90			4.148078
8	1	5496	10	95			4.652508
9	3	5496	10	70	1390	1587	5.0645
10	3	5496	10	60	1922	1252	5.644288
11	1	5496	10	60			6.069096
12	2	5496	10	80	1531		7.118189
13	2	5496	10	50	1339		7.533895
14	2	5496	10	55	1262		7.842252
15	2	5496	10	60	1211		8.893165
16	1	5496	10	50			9.152704
17	2	5496	10	50	1209		9.817957
18	1	5496	10	50			10.557933
19	3	5496	10	90	1998	1167	10.852552
20	3	5496	10	80	1769	1503	11.778347

USA Bin 5 Trial #9

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5494.8	7	100	1638		1.070488
2	2	5494.8	7	80	1845		2.153574
3	2	5494.8	7	55	1852		3.46751
4	2	5494.8	7	80	1803		3.696846
5	2	5494.8	7	90	1277		5.663303
6	1	5494.8	7	70			6.904294
7	1	5494.8	7	65			7.465754
8	3	5494.8	7	65	1281	1177	9.037792
9	2	5494.8	7	55	1321		10.613667
10	3	5494.8	7	100	1314	1958	11.430725

USA Bin 5 Trial #10

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5495.2	8	95	1499		1.007763
2	3	5495.2	8	60	1111	1775	2.459176
3	3	5495.2	8	100	1206	1842	3.337487
4	2	5495.2	8	95	1893		4.184818
5	1	5495.2	8	95			5.55087
6	3	5495.2	8	75	1164	1765	7.832817
7	2	5495.2	8	70	1524		8.123298



8	2	5495.2	8	90	1773	9.891761
9	1	5495.2	8	55		11.601144

USA Bin 5 Trial #11

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	19	90			0.30427
2	2	5510	19	60	1330		0.89616
3	1	5510	19	90			1.859667
4	2	5510	19	75	1476		2.356707
5	3	5510	19	70	1988	1778	2.72814
6	3	5510	19	70	1927	1137	3.957956
7	1	5510	19	60			4.208744
8	3	5510	19	75	1997	1509	5.29218
9	3	5510	19	100	1908	1814	5.906114
10	1	5510	19	100			6.057411
11	2	5510	19	100	1852		6.793609
12	3	5510	19	70	1233	1308	7.417167
13	2	5510	19	60	1056		8.243527
14	2	5510	19	90	1419		8.75112
15	1	5510	19	90			9.447791
16	3	5510	19	80	1067	1119	10.502394
17	3	5510	19	85	1606	1200	10.751081
18	1	5510	19	85			11.381476

USA Bin 5 Trial #12

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5510	14	90	1267	1193	0.621911
2	1	5510	14	100			0.881018
3	1	5510	14	60			2.089384
4	2	5510	14	95	1211		2.803991
5	2	5510	14	55	1770		3.50117
6	1	5510	14	60			4.284557
7	1	5510	14	70			4.757804
8	3	5510	14	60	1919	1981	5.884613
9	1	5510	14	60			6.493329
10	1	5510	14	100			7.141483
11	1	5510	14	55			7.800378
12	1	5510	14	50			8.71826
13	1	5510	14	75			9.668298
14	2	5510	14	95	1655		10.061487
15	3	5510	14	80	1646	1534	11.198394
16	1	5510	14	85			11.716636

USA Bin 5 Trial #13



Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	8	65			0.507122
2	2	5510	8	65	1254		1.29732
3	3	5510	8	95	1169	1504	2.046948
4	1	5510	8	90			2.413455
5	2	5510	8	85	1602		3.853566
6	2	5510	8	75	1866		4.205563
7	2	5510	8	70	1107		5.372391
8	1	5510	8	80			5.911944
9	2	5510	8	95	1502		7.19095
10	3	5510	8	70	1530	1103	7.285963
11	1	5510	8	60			8.205725
12	2	5510	8	65	1342		9.376721
13	2	5510	8	60	1525		10.298322
14	2	5510	8	95	1697		10.869726
15	2	5510	8	75	1991		11.518654

USA Bin 5 Trial #14

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	14	90			0.151901
2	3	5510	14	85	1419	1029	1.175793
3	3	5510	14	70	1592	1101	1.467219
4	2	5510	14	90	1734		2.075792
5	1	5510	14	75			3.035499
6	3	5510	14	80	1564	1701	3.431198
7	2	5510	14	90	1699		4.270206
8	1	5510	14	55			4.978986
9	1	5510	14	60			5.885761
10	3	5510	14	65	1061	1113	6.057249
11	3	5510	14	65	1191	1570	7.174974
12	3	5510	14	65	1577	1293	7.505372
13	2	5510	14	55	1855		8.225934
14	1	5510	14	55			8.699341
15	1	5510	14	95			9.678901
16	2	5510	14	65	1073		10.438144
17	3	5510	14	100	1282	1830	11.236383
18	2	5510	14	70	1849		11.99244

USA Bin 5 Trial #15

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	8	80			0.934614



2	2	5510	8	55	1717		1.640487
3	1	5510	8	90			3.578087
4	3	5510	8	50	1499	1480	4.621967
5	2	5510	8	70	1269		5.29966
6	2	5510	8	65	1960		6.551637
7	1	5510	8	70			7.952472
8	3	5510	8	50	1707	1220	8.625845
9	2	5510	8	95	1611		10.762288
10	2	5510	8	50	1296		11.563729

USA Bin 5 Trial #16

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5510	16	90	1219	1012	0.702818
2	1	5510	16	100			1.171322
3	2	5510	16	85	1544		2.285042
4	2	5510	16	80	1782		2.709895
5	1	5510	16	60			3.224339
6	1	5510	16	65			4.692077
7	1	5510	16	60			5.1447
8	1	5510	16	90			6.112433
9	2	5510	16	95	1070		7.08138
10	2	5510	16	70	1314		7.536692
11	1	5510	16	95			8.69948
12	1	5510	16	80			9.573719
13	3	5510	16	85	1056	1602	9.932787
14	2	5510	16	70	1973		10.78777
15	2	5510	16	70	1874		11.482713

USA Bin 5 Trial #17

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	16	60			1.01384
2	1	5510	16	70			1.678787
3	1	5510	16	80			3.416914
4	1	5510	16	85			5.002878
5	2	5510	16	90	1300		6.452688
6	1	5510	16	90			7.755972
7	1	5510	16	100			9.156594
8	1	5510	16	95			9.960309
9	1	5510	16	60			10.986028

USA Bin 5 Trial #18

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
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1	1	5510	18	95			0.453062
2	3	5510	18	90	1080	1647	1.182738
3	3	5510	18	60	1452	1376	1.49312
4	1	5510	18	50			2.109706
5	3	5510	18	60	1955	1810	3.322027
6	1	5510	18	75			3.878014
7	2	5510	18	65	1909		4.55282
8	3	5510	18	55	1693	1028	5.061995
9	3	5510	18	60	1161	1267	5.503863
10	3	5510	18	60	1778	1922	6.273938
11	2	5510	18	85	1998		7.182432
12	2	5510	18	50	1398		7.832197
13	2	5510	18	75	1784		8.273518
14	2	5510	18	65	1792		9.315509
15	1	5510	18	100			9.396697
16	3	5510	18	60	1236	1906	10.349428
17	1	5510	18	95			11.325715
18	2	5510	18	100	1613		11.415073

USA Bin 5 Trial #19

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5510	10	70	1444	1711	0.362652
2	2	5510	10	50	1968		1.892306
3	1	5510	10	95			2.90607
4	1	5510	10	85			4.298859
5	2	5510	10	100	1562		5.17464
6	1	5510	10	75			5.801089
7	2	5510	10	70	1920		6.853938
8	1	5510	10	65			8.458799
9	1	5510	10	75			9.252976
10	1	5510	10	75			10.11713
11	2	5510	10	70	1555		11.524175

USA Bin 5 Trial #20

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5510	14	65			0.611973
2	2	5510	14	80	1109		0.754875
3	2	5510	14	80	1681		1.332385
4	1	5510	14	85			2.055552
5	3	5510	14	50	1607	1577	2.67191
6	2	5510	14	60	1976		3.713323
7	2	5510	14	65	1436		4.113345
8	3	5510	14	90	1026	1326	4.773182



9	2	5510	14	85	1214		5.354686
10	2	5510	14	80	1857		6.305999
11	3	5510	14	55	1901	1853	6.748684
12	1	5510	14	60			7.454704
13	3	5510	14	90	1626	1357	8.195727
14	3	5510	14	80	1686	1123	8.744016
15	3	5510	14	100	1445	1969	9.341533
16	1	5510	14	60			9.610597
17	3	5510	14	50	1440	1612	10.648085
18	1	5510	14	75			11.008634
19	1	5510	14	85			11.832188

USA Bin 5 Trial #21

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5521.2	17	95	1396	1707	1.182929
2	3	5521.2	17	95	1175	1654	1.970561
3	3	5521.2	17	75	1312	1609	4.288792
4	1	5521.2	17	60			5.52064
5	1	5521.2	17	80			6.997734
6	1	5521.2	17	50			8.578754
7	3	5521.2	17	60	1404	1190	10.058567
8	1	5521.2	17	65			10.708337

USA Bin 5 Trial #22

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5521.6	16	95	1051	1506	0.731832
2	2	5521.6	16	100	1856		1.186604
3	1	5521.6	16	90			1.686671
4	2	5521.6	16	65	1815		2.540057
5	2	5521.6	16	65	1688		3.896356
6	3	5521.6	16	90	1778	1473	4.406337
7	1	5521.6	16	75			4.959968
8	3	5521.6	16	70	1056	1125	6.092734
9	1	5521.6	16	100			6.778563
10	3	5521.6	16	100	1736	1442	7.319283
11	3	5521.6	16	65	1136	1418	8.76988
12	2	5521.6	16	100	1294		8.952195
13	1	5521.6	16	90			10.119982
14	1	5521.6	16	75			10.784214
15	1	5521.6	16	95			11.494593

USA Bin 5 Trial #23



Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5525.2	7	55	1873	1283	0.472783
2	3	5525.2	7	75	1022	1560	1.35321
3	2	5525.2	7	95	1429		2.264272
4	1	5525.2	7	80			3.827081
5	1	5525.2	7	70			4.878595
6	2	5525.2	7	55	1549		6.140766
7	2	5525.2	7	55	1318		7.527251
8	3	5525.2	7	75	1582	1006	8.094742
9	2	5525.2	7	75	1419		8.776852
10	3	5525.2	7	85	1875	1674	10.249957
11	1	5525.2	7	90			11.17827

USA Bin 5 Trial #24

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5521.6	16	95	1556	1169	0.751943
2	3	5521.6	16	80	1568	1267	2.076865
3	1	5521.6	16	70			2.954353
4	1	5521.6	16	85			4.16768
5	3	5521.6	16	80	1788	1183	6.432049
6	2	5521.6	16	65	1664		6.870027
7	1	5521.6	16	80			8.040005
8	1	5521.6	16	50			9.604423
9	2	5521.6	16	85	1977		11.61396

USA Bin 5 Trial #25

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5524	10	60			0.523896
2	1	5524	10	100			0.764968
3	1	5524	10	65			1.542706
4	2	5524	10	85	1083		2.250207
5	3	5524	10	100	1880	1011	2.635375
6	2	5524	10	55	1692		3.354396
7	3	5524	10	100	1407	1042	4.337465
8	1	5524	10	50			4.617113
9	2	5524	10	85	1278		5.482207
10	2	5524	10	80	1139		6.27786
11	3	5524	10	95	1659	1158	6.358358
12	1	5524	10	80			7.464344
13	1	5524	10	80			8.084766
14	2	5524	10	100	1233		8.638911



15	3	5524	10	50	1700	1375	9.025421
16	2	5524	10	95	1518		10.028143
17	2	5524	10	80	1969		10.62049
18	1	5524	10	75			11.238799
19	2	5524	10	90	1179		11.762524

USA Bin 5 Trial #26

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5525.2	7	55			0.312994
2	2	5525.2	7	80	1467		2.170492
3	1	5525.2	7	95			2.624191
4	3	5525.2	7	50	1905	1773	4.156182
5	1	5525.2	7	50			5.321158
6	3	5525.2	7	65	1584	1441	5.897721
7	2	5525.2	7	100	1547		6.690653
8	2	5525.2	7	65	1358		7.715931
9	1	5525.2	7	70			9.693886
10	1	5525.2	7	80			10.690102
11	1	5525.2	7	60			11.594233

USA Bin 5 Trial #27

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5525.6	6	50			0.599494
2	2	5525.6	6	85	1913		1.883466
3	2	5525.6	6	70	1196		3.238094
4	2	5525.6	6	60	1216		4.704648
5	3	5525.6	6	100	1187	1548	5.227292
6	3	5525.6	6	55	1866	1639	6.510087
7	2	5525.6	6	65	1919		7.543755
8	1	5525.6	6	100			9.115656
9	1	5525.6	6	90			10.147173
10	3	5525.6	6	100	1306	1162	11.009256

USA Bin 5 Trial #28

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5522	15	50	1181	1813	0.657379
2	1	5522	15	60			2.879353
3	3	5522	15	80	1216	1588	3.935429
4	1	5522	15	50			5.662087
5	2	5522	15	100	1857		6.123015
6	3	5522	15	80	1612	1801	7.704467
7	3	5522	15	100	1456	1335	9.165359



8 1 5522 15 55 10.741987
 USA Bin 5 Trial #29

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5523.2	12	65			0.237671
2	1	5523.2	12	70			1.223035
3	3	5523.2	12	60	1206	1387	1.276194
4	1	5523.2	12	50			2.122685
5	2	5523.2	12	95	1565		2.763014
6	3	5523.2	12	65	1324	1808	3.603417
7	2	5523.2	12	55	1073		4.164825
8	3	5523.2	12	75	1089	1959	4.526922
9	1	5523.2	12	65			5.205443
10	3	5523.2	12	75	1191	1720	6.054686
11	3	5523.2	12	50	1628	1340	6.770036
12	2	5523.2	12	100	1657		7.298544
13	3	5523.2	12	70	1274	1295	7.595875
14	2	5523.2	12	65	1412		8.527415
15	1	5523.2	12	95			9.118737
16	2	5523.2	12	100	1860		10.045477
17	1	5523.2	12	50			10.117938
18	1	5523.2	12	70			11.286218
19	3	5523.2	12	75	1893	1467	11.837715

USA Bin 5 Trial #30

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5520.8	18	55			0.088109
2	1	5520.8	18	65			0.828876
3	2	5520.8	18	75	1265		1.690292
4	1	5520.8	18	95			2.005423
5	2	5520.8	18	95	1080		3.229485
6	1	5520.8	18	80			3.699564
7	3	5520.8	18	100	1764	1895	4.618655
8	1	5520.8	18	55			4.81008
9	2	5520.8	18	90	1785		5.773164
10	2	5520.8	18	90	1024		6.495706
11	2	5520.8	18	55	1433		7.027773
12	3	5520.8	18	90	1607	1491	7.603014
13	3	5520.8	18	50	1270	1633	8.529561
14	1	5520.8	18	80			9.013003
15	3	5520.8	18	60	1771	1867	9.980349
16	2	5520.8	18	90	1589		10.582278
17	3	5520.8	18	70	1485	1574	11.000777



18 3 5520.8 18 65 1794 1103 11.880397



*See the Bin6 Radar Characteristics at the end of this report.

Channel 5510MHz, 40MHz BW, USA Frequency Hopping Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 6 Radar Test 1	1	100.0%	70.0%
2	USA Bin 6 Radar Test 2	1		
3	USA Bin 6 Radar Test 3	1		
4	USA Bin 6 Radar Test 4	1		
5	USA Bin 6 Radar Test 5	1		
6	USA Bin 6 Radar Test 6	1		
7	USA Bin 6 Radar Test 7	1		
8	USA Bin 6 Radar Test 8	1		
9	USA Bin 6 Radar Test 9	1		
10	USA Bin 6 Radar Test 10	1		
11	USA Bin 6 Radar Test 11	1		
12	USA Bin 6 Radar Test 12	1		
13	USA Bin 6 Radar Test 13	1		
14	USA Bin 6 Radar Test 14	1		
15	USA Bin 6 Radar Test 15	1		
16	USA Bin 6 Radar Test 16	1		
17	USA Bin 6 Radar Test 17	1		
18	USA Bin 6 Radar Test 18	1		
19	USA Bin 6 Radar Test 19	1		
20	USA Bin 6 Radar Test 20	1		
21	USA Bin 6 Radar Test 21	1		
22	USA Bin 6 Radar Test 22	1		
23	USA Bin 6 Radar Test 23	1		
24	USA Bin 6 Radar Test 24	1		
25	USA Bin 6 Radar Test 25	1		
26	USA Bin 6 Radar Test 26	1		
27	USA Bin 6 Radar Test 27	1		
28	USA Bin 6 Radar Test 28	1		
29	USA Bin 6 Radar Test 29	1		
30	USA Bin 6 Radar Test 30	1		



USA Frequency Hopping Trial #1

Hop #	Freq (GHz)	Pulse Start (mS)
4	5500	12
18	5498	54
32	5507	96
56	5509	168
68	5527	204
99	5522	297

USA Frequency Hopping Trial #2

Hop #	Freq (GHz)	Pulse Start (mS)
2	5501	6
3	5514	9
13	5528	39
14	5510	42
25	5517	75
43	5520	129
64	5500	192
68	5497	204
87	5506	261

USA Frequency Hopping Trial #3

Hop #	Freq (GHz)	Pulse Start (mS)
19	5496	57
33	5514	99
55	5493	165
59	5494	177
64	5524	192
68	5523	204
73	5512	219
74	5504	222
86	5522	258
93	5503	279
99	5506	297

USA Frequency Hopping Trial #4

Hop #	Freq (GHz)	Pulse Start (mS)
5	5523	15
16	5498	48
36	5495	108
40	5517	120
41	5519	123
67	5528	201
97	5500	291



USA Frequency Hopping Trial #5

Hop #	Freq (GHz)	Pulse Start (mS)
1	5519	3
19	5507	57
52	5514	156
61	5526	183
64	5521	192
69	5516	207
74	5509	222
93	5506	279

USA Frequency Hopping Trial #6

Hop #	Freq (GHz)	Pulse Start (mS)
2	5513	6
33	5504	99
42	5506	126
43	5509	129
52	5523	156
53	5496	159
63	5493	189
95	5498	285

USA Frequency Hopping Trial #7

Hop #	Freq (GHz)	Pulse Start (mS)
5	5517	15
24	5497	72
25	5505	75
32	5515	96
41	5513	123

USA Frequency Hopping Trial #8

Hop #	Freq (GHz)	Pulse Start (mS)
29	5517	87
32	5516	96
57	5514	171
67	5524	201
83	5508	249

USA Frequency Hopping Trial #9

Hop #	Freq (GHz)	Pulse Start (mS)
5	5514	15
8	5518	24
27	5493	81
31	5505	93



49	5513	147
62	5515	186
63	5520	189
74	5507	222
84	5523	252
95	5524	285

USA Frequency Hopping Trial #10

Hop #	Freq (GHz)	Pulse Start (mS)
12	5508	36
16	5496	48
36	5506	108
42	5526	126
51	5525	153
80	5494	240
85	5503	255
99	5518	297

USA Frequency Hopping Trial #11

Hop #	Freq (GHz)	Pulse Start (mS)
7	5503	21
11	5501	33
17	5524	51
31	5516	93
33	5522	99
38	5521	114
47	5525	141
53	5510	159
60	5511	180
90	5500	270

USA Frequency Hopping Trial #12

Hop #	Freq (GHz)	Pulse Start (mS)
9	5506	27
41	5497	123
56	5523	168
61	5516	183
66	5500	198
75	5520	225
78	5525	234
79	5505	237
87	5503	261
90	5517	270
92	5502	276

USA Frequency Hopping Trial #13



Hop #	Freq (GHz)	Pulse Start (mS)
0	5497	0
1	5523	3
4	5502	12
46	5495	138
67	5508	201

USA Frequency Hopping Trial #14

Hop #	Freq (GHz)	Pulse Start (mS)
27	5528	81
37	5521	111
58	5502	174
64	5515	192
77	5492	231
87	5525	261
98	5511	294

USA Frequency Hopping Trial #15

Hop #	Freq (GHz)	Pulse Start (mS)
3	5493	9
7	5502	21
25	5498	75
72	5507	216
77	5518	231
80	5497	240
93	5514	279

USA Frequency Hopping Trial #16

Hop #	Freq (GHz)	Pulse Start (mS)
7	5494	21
10	5522	30
29	5518	87
35	5510	105
43	5495	129
49	5514	147
62	5515	186
69	5519	207
73	5509	219
78	5493	234

USA Frequency Hopping Trial #17

Hop #	Freq (GHz)	Pulse Start (mS)
8	5527	24
50	5520	150



77	5510	231
85	5524	255
90	5519	270
93	5498	279

USA Frequency Hopping Trial #18

Hop #	Freq (GHz)	Pulse Start (mS)
2	5495	6
17	5519	51
21	5526	63
43	5513	129
57	5498	171
58	5496	174
61	5499	183
81	5511	243
90	5521	270
98	5520	294

USA Frequency Hopping Trial #19

Hop #	Freq (GHz)	Pulse Start (mS)
47	5521	141
48	5519	144
52	5523	156
55	5518	165
57	5495	171
64	5508	192
85	5516	255
90	5501	270
96	5525	288

USA Frequency Hopping Trial #20

Hop #	Freq (GHz)	Pulse Start (mS)
26	5515	78
46	5499	138
50	5498	150
51	5493	153
65	5501	195
71	5508	213

USA Frequency Hopping Trial #21

Hop #	Freq (GHz)	Pulse Start (mS)
1	5511	3
8	5518	24
11	5502	33
21	5492	63



29	5493	87
46	5499	138
52	5514	156
58	5523	174
61	5522	183
71	5526	213
96	5506	288

USA Frequency Hopping Trial #22

Hop #	Freq (GHz)	Pulse Start (mS)
2	5520	6
16	5501	48
28	5521	84
76	5497	228
77	5523	231

USA Frequency Hopping Trial #23

Hop #	Freq (GHz)	Pulse Start (mS)
2	5515	6
13	5505	39
20	5512	60
53	5502	159
55	5494	165
62	5517	186
75	5508	225
79	5524	237
92	5503	276
93	5523	279

USA Frequency Hopping Trial #24

Hop #	Freq (GHz)	Pulse Start (mS)
25	5516	75
29	5503	87
46	5510	138
64	5514	192
71	5528	213
74	5526	222
87	5524	261

USA Frequency Hopping Trial #25

Hop #	Freq (GHz)	Pulse Start (mS)
27	5503	81
28	5497	84
32	5513	96
50	5525	150



57	5498	171
60	5499	180
66	5492	198
70	5515	210
82	5522	246
83	5512	249

USA Frequency Hopping Trial #26

Hop #	Freq (GHz)	Pulse Start (mS)
18	5521	54
23	5505	69
38	5528	114
50	5492	150
82	5514	246
88	5526	264

USA Frequency Hopping Trial #27

Hop #	Freq (GHz)	Pulse Start (mS)
11	5493	33
12	5518	36
14	5527	42
59	5505	177
70	5492	210
91	5513	273
98	5512	294

USA Frequency Hopping Trial #28

Hop #	Freq (GHz)	Pulse Start (mS)
23	5517	69
24	5501	72
36	5518	108
51	5515	153
65	5507	195
76	5495	228

USA Frequency Hopping Trial #29

Hop #	Freq (GHz)	Pulse Start (mS)
13	5511	39
23	5507	69
27	5513	81
31	5500	93
59	5520	177
63	5523	189
67	5524	201
74	5493	222



USA Frequency Hopping Trial #30

Hop #	Freq (GHz)	Pulse Start (mS)
5	5518	15
11	5494	33
35	5511	105
48	5495	144
58	5508	174
82	5516	246
87	5514	261
94	5501	282



Channel 5530MHz, 80MHz BW, USA Bin 1A/1B Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	18	1	3066	1	100.0%	60.0%
2	5492	102	1	518	1		
3	5492	62	1	858	1		
4	5492	81	1	658	1		
5	5500	95	1	558	1		
6	5500	62	1	858	1		
7	5500	102	1	518	1		
8	5500	102	1	518	1		
9	5520	59	1	898	1		
10	5520	95	1	558	1		
11	5520	102	1	518	1		
12	5520	76	1	698	1		
13	5530	83	1	638	1		
14	5530	59	1	898	1		
15	5530	63	1	838	1		
16	5530	49	1	1096	1		
17	5530	82	1	646	1		
18	5530	34	1	1582	1		
19	5540	37	1	1429	1		
20	5540	42	1	1279	1		
21	5540	42	1	1265	1		
22	5540	48	1	1101	1		
23	5560	26	1	2091	1		
24	5560	22	1	2489	1		
25	5560	23	1	2360	1		
26	5560	20	1	2686	1		
27	5568	20	1	2744	1		
28	5568	21	1	2577	1		
29	5568	25	1	2116	1		
30	5568	40	1	1349	1		


Channel 5530MHz, 80MHz BW, USA Bin 2 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	24	3.3	204	1	90.0%	60.0%
2	5492	28	2.9	208	0		
3	5492	27	4.2	202	1		
4	5492	28	2.9	161	1		
5	5500	27	4.6	222	1		
6	5500	24	4.4	209	1		
7	5500	29	3	195	1		
8	5500	25	3.7	168	1		
9	5520	28	2.4	199	1		
10	5520	25	1.8	177	1		
11	5520	26	1.2	200	1		
12	5520	24	1.3	186	1		
13	5530	29	3.6	208	1		
14	5530	29	4	192	0		
15	5530	27	3.1	174	1		
16	5530	23	2.2	193	0		
17	5530	23	1.4	176	1		
18	5530	24	3.8	150	1		
19	5540	29	1.3	208	1		
20	5540	27	2.3	154	1		
21	5540	23	2.8	206	1		
22	5540	29	2.6	187	1		
23	5560	24	2.6	197	1		
24	5560	23	2.7	197	1		
25	5560	29	2.2	219	1		
26	5560	28	4.7	162	1		
27	5568	28	4	175	1		
28	5568	29	1.4	151	1		
29	5568	25	2.3	176	1		
30	5568	25	1.1	174	1		



Channel 5530MHz, 80MHz BW, USA Bin 3 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	16	9	445	1	90.0%	60.0%
2	5492	17	7.6	463	0		
3	5492	18	9	406	1		
4	5492	17	6.4	425	0		
5	5500	17	6.2	249	1		
6	5500	18	9.5	263	1		
7	5500	17	6	466	1		
8	5500	18	6.7	469	1		
9	5520	18	7.4	222	0		
10	5520	18	8.3	434	1		
11	5520	16	8.3	256	1		
12	5520	17	6.3	485	1		
13	5530	18	9	325	1		
14	5530	16	6.2	409	1		
15	5530	18	9.7	463	1		
16	5530	17	8.6	432	1		
17	5530	17	9.1	230	1		
18	5530	16	9.8	356	1		
19	5540	16	9.4	481	1		
20	5540	18	6.4	376	1		
21	5540	18	7.5	213	1		
22	5540	18	6.1	405	1		
23	5560	17	7.8	313	1		
24	5560	16	7.2	259	1		
25	5560	16	6.6	230	1		
26	5560	16	6.9	278	1		
27	5568	17	9.9	287	1		
28	5568	18	7.2	318	1		
29	5568	16	8	435	1		
30	5568	17	9	280	1		



Channel 5530MHz, 80MHz BW, USA Bin 4 Radar Statistical Performance

Trial	Radar Frequency	Pulses	PW (uS)	PRI (uS)	1=Detection 0=No Detection	Detection Percentage	Limit
1	5492	13	12.6	338	1	90.0%	60.0%
2	5492	15	11.6	362	1		
3	5492	15	16.5	228	1		
4	5492	13	19.1	381	1		
5	5500	14	11.3	232	1		
6	5500	14	11.1	411	1		
7	5500	13	13.2	417	1		
8	5500	16	11.5	363	1		
9	5520	13	13.2	405	1		
10	5520	13	17.2	306	0		
11	5520	13	16.3	452	1		
12	5520	15	18.4	337	0		
13	5530	16	13.5	237	1		
14	5530	12	14.7	291	1		
15	5530	14	13.5	354	1		
16	5530	14	11.2	460	0		
17	5530	14	14.5	337	1		
18	5530	13	18.7	249	1		
19	5540	16	16.8	440	1		
20	5540	14	18.5	307	1		
21	5540	15	19.2	221	1		
22	5540	13	13.6	283	1		
23	5560	15	15.8	204	1		
24	5560	13	19.7	319	1		
25	5560	16	15.5	368	1		
26	5560	16	11.7	351	1		
27	5568	16	13.6	437	1		
28	5568	15	15.1	284	1		
29	5568	15	13.1	473	1		
30	5568	13	18.8	309	1		

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100.0\% + 90.0\% + 90.0\% + 90.0\%) / 4 = 92.5\% (>80\%)$$



*See the Bin5 Radar Characteristics at the end of this report.

Channel 5530MHz, 80MHz BW, USA Bin 5 Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 5 Radar Test 1	1	100.0%	80.0%
2	USA Bin 5 Radar Test 2	1		
3	USA Bin 5 Radar Test 3	1		
4	USA Bin 5 Radar Test 4	1		
5	USA Bin 5 Radar Test 5	1		
6	USA Bin 5 Radar Test 6	1		
7	USA Bin 5 Radar Test 7	1		
8	USA Bin 5 Radar Test 8	1		
9	USA Bin 5 Radar Test 9	1		
10	USA Bin 5 Radar Test 10	1		
11	USA Bin 5 Radar Test 11	1		
12	USA Bin 5 Radar Test 12	1		
13	USA Bin 5 Radar Test 13	1		
14	USA Bin 5 Radar Test 14	1		
15	USA Bin 5 Radar Test 15	1		
16	USA Bin 5 Radar Test 16	1		
17	USA Bin 5 Radar Test 17	1		
18	USA Bin 5 Radar Test 18	1		
19	USA Bin 5 Radar Test 19	1		
20	USA Bin 5 Radar Test 20	1		
21	USA Bin 5 Radar Test 21	1		
22	USA Bin 5 Radar Test 22	1		
23	USA Bin 5 Radar Test 23	1		
24	USA Bin 5 Radar Test 24	1		
25	USA Bin 5 Radar Test 25	1		
26	USA Bin 5 Radar Test 26	1		
27	USA Bin 5 Radar Test 27	1		
28	USA Bin 5 Radar Test 28	1		
29	USA Bin 5 Radar Test 29	1		
30	USA Bin 5 Radar Test 30	1		



USA Bin 5 Trial #1

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5497.2	13	75	1611	1929	0.15871
2	3	5497.2	13	100	1058	1076	1.320569
3	1	5497.2	13	85			1.422798
4	3	5497.2	13	80	1272	1885	2.39197
5	2	5497.2	13	75	1071		3.461913
6	3	5497.2	13	75	1710	1879	3.855313
7	2	5497.2	13	50	1112		4.769496
8	1	5497.2	13	75			5.416534
9	3	5497.2	13	50	1953	1389	6.18814
10	3	5497.2	13	60	1023	1800	6.438221
11	1	5497.2	13	90			7.31854
12	3	5497.2	13	80	1207	1997	8.458584
13	1	5497.2	13	50			8.633177
14	3	5497.2	13	90	1163	1165	9.387129
15	1	5497.2	13	95			9.898597
16	1	5497.2	13	60			11.172086
17	2	5497.2	13	100	1437		11.575062

USA Bin 5 Trial #2

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5500	20	70			0.002783
2	2	5500	20	100	1679		0.865773
3	3	5500	20	55	1119	1729	1.587256
4	3	5500	20	75	1101	1948	2.512337
5	1	5500	20	100			3.046957
6	2	5500	20	70	1437		4.104064
7	1	5500	20	65			4.898832
8	3	5500	20	55	1450	1981	5.586844
9	2	5500	20	70	1284		6.304199
10	3	5500	20	65	1900	1701	7.138862
11	3	5500	20	55	1420	1927	7.862424
12	3	5500	20	50	1066	1399	8.971762
13	3	5500	20	100	1750	1260	9.406824
14	2	5500	20	70	1451		10.159252
15	2	5500	20	60	1629		10.782363
16	2	5500	20	75	1776		11.539391

USA Bin 5 Trial #3

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5498.8	17	85			0.315155
2	3	5498.8	17	50	1274	1235	1.395799
3	2	5498.8	17	80	1907		2.091702
4	2	5498.8	17	60	1518		2.4992
5	1	5498.8	17	95			3.269817
6	3	5498.8	17	100	1584	1488	4.335437
7	2	5498.8	17	60	1085		5.257083
8	2	5498.8	17	100	1730		6.119082
9	3	5498.8	17	80	1932	1578	6.474218
10	1	5498.8	17	95			7.924322
11	2	5498.8	17	60	1251		8.42842
12	3	5498.8	17	90	1568	1177	9.462568
13	2	5498.8	17	55	1554		9.604327



14	2	5498.8	17	70	1568	10.99214
15	2	5498.8	17	85	1286	11.373942

USA Bin 5 Trial #4

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5499.6	19	100	1118		0.601303
2	2	5499.6	19	55	1252		1.034222
3	3	5499.6	19	55	1065	1974	1.588217
4	2	5499.6	19	70	1664		2.199474
5	2	5499.6	19	80	1100		2.864661
6	2	5499.6	19	55	1614		3.444733
7	2	5499.6	19	85	1340		4.307432
8	3	5499.6	19	75	1712	1427	4.832145
9	3	5499.6	19	85	1327	1220	5.427329
10	3	5499.6	19	50	1456	1088	6.024357
11	1	5499.6	19	65			7.014362
12	2	5499.6	19	85	1186		7.996489
13	1	5499.6	19	95			8.157894
14	3	5499.6	19	60	1431	1461	9.250099
15	3	5499.6	19	90	1967	1080	9.912203
16	1	5499.6	19	55			10.127347
17	3	5499.6	19	85	1244	1582	11.015785
18	1	5499.6	19	50			11.577264

USA Bin 5 Trial #5

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5495.2	8	70	1103		0.100005
2	3	5495.2	8	85	1688	1489	1.332299
3	2	5495.2	8	100	1330		1.442496
4	2	5495.2	8	90	1273		2.488431
5	3	5495.2	8	90	1631	1189	2.971604
6	3	5495.2	8	85	1962	1662	3.837316
7	3	5495.2	8	65	1496	1849	4.551973
8	1	5495.2	8	70			5.507401
9	1	5495.2	8	90			6.275151
10	3	5495.2	8	90	1101	1212	6.848114
11	1	5495.2	8	50			7.360526
12	1	5495.2	8	100			7.859466
13	1	5495.2	8	75			8.834159
14	2	5495.2	8	75	1261		9.782639
15	3	5495.2	8	75	1052	1441	10.3567
16	1	5495.2	8	60			10.730337
17	2	5495.2	8	85	1379		11.488033

USA Bin 5 Trial #6

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5494	5	60	1491	1735	0.013962
2	2	5494	5	75	1875		1.194409
3	3	5494	5	65	1305	1814	1.79192
4	3	5494	5	60	1809	1731	2.146483
5	2	5494	5	70	1144		2.922274
6	3	5494	5	90	1681	1080	3.104657
7	1	5494	5	75			3.795999
8	2	5494	5	60	1350		4.641246
9	3	5494	5	55	2000	1226	4.867846



10	2	5494	5	95	1497		5.84567
11	1	5494	5	50			6.205403
12	3	5494	5	100	1048	1743	6.610288
13	1	5494	5	75			7.7464
14	3	5494	5	65	1776	1432	8.284422
15	1	5494	5	100			8.561741
16	1	5494	5	70			9.059176
17	2	5494	5	95	1524		9.866774
18	1	5494	5	95			10.227772
19	3	5494	5	65	1365	1448	11.188179
20	1	5494	5	70			11.404967

USA Bin 5 Trial #7

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5494.8	7	100	1233		0.266184
2	3	5494.8	7	80	1874	1150	1.201285
3	2	5494.8	7	50	1809		2.112618
4	1	5494.8	7	80			2.16282
5	3	5494.8	7	70	1674	1572	2.844361
6	2	5494.8	7	60	1437		4.081895
7	2	5494.8	7	75	1961		4.281831
8	2	5494.8	7	65	1637		5.189637
9	3	5494.8	7	85	1318	1890	6.270377
10	3	5494.8	7	60	1000	1998	6.606072
11	1	5494.8	7	60			7.519362
12	2	5494.8	7	85	1705		8.084136
13	1	5494.8	7	85			9.074533
14	1	5494.8	7	100			9.179308
15	1	5494.8	7	65			10.109156
16	1	5494.8	7	70			10.729787
17	3	5494.8	7	80	1737	1451	11.560856

USA Bin 5 Trial #8

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5494.4	6	50			0.351988
2	2	5494.4	6	55	1100		1.525254
3	2	5494.4	6	65	1141		2.104119
4	1	5494.4	6	75			3.605126
5	1	5494.4	6	75			4.463243
6	3	5494.4	6	100	1126	1266	5.252403
7	1	5494.4	6	60			6.531368
8	1	5494.4	6	80			7.590693
9	2	5494.4	6	75	1232		8.340171
10	1	5494.4	6	80			9.574638
11	1	5494.4	6	80			10.314793
12	1	5494.4	6	70			11.494122

USA Bin 5 Trial #9

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5496	10	50			0.76344
2	3	5496	10	70	1216	1825	2.063604
3	3	5496	10	55	1606	1354	4.387168
4	1	5496	10	55			5.121503
5	2	5496	10	70	1480		7.193921
6	1	5496	10	95			8.888807



7	2	5496	10	100	1276	9.507837
8	1	5496	10	85		11.346072

USA Bin 5 Trial #10

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5496.8	12	95	1816	1256	0.012593
2	3	5496.8	12	100	1584	1980	1.425066
3	2	5496.8	12	65	1671		2.139449
4	2	5496.8	12	95	1194		2.988673
5	3	5496.8	12	80	1849	1872	3.716961
6	2	5496.8	12	60	1293		4.912501
7	3	5496.8	12	90	1746	1745	5.237005
8	2	5496.8	12	55	1171		6.406974
9	1	5496.8	12	80			7.655335
10	3	5496.8	12	55	1462	1799	8.330625
11	1	5496.8	12	70			9.367277
12	1	5496.8	12	60			9.92481
13	2	5496.8	12	85	1955		10.584601
14	2	5496.8	12	60	1326		11.194684

USA Bin 5 Trial #11

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5530	20	80			0.440174
2	3	5530	20	55	1265	1547	1.420839
3	2	5530	20	80	1815		1.980722
4	1	5530	20	55			2.593111
5	3	5530	20	80	1249	1440	3.155279
6	1	5530	20	70			4.453602
7	2	5530	20	95	1032		5.207603
8	3	5530	20	75	1937	1067	5.704191
9	2	5530	20	50	1025		6.380676
10	2	5530	20	80	1457		7.323205
11	1	5530	20	65			7.593206
12	2	5530	20	50	1171		8.748598
13	2	5530	20	100	1819		9.602789
14	3	5530	20	70	1615	1268	10.217741
15	1	5530	20	100			11.106077
16	3	5530	20	75	1866	1482	11.75193

USA Bin 5 Trial #12

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5530	10	85			0.44602
2	3	5530	10	55	1917	1485	0.88539
3	3	5530	10	80	1288	1116	2.201342
4	3	5530	10	65	1392	1752	2.745721
5	2	5530	10	90	1377		4.19855
6	2	5530	10	50	1541		4.482226
7	3	5530	10	100	1436	1230	5.863028
8	2	5530	10	80	1619		6.229621
9	2	5530	10	90	1521		7.017297
10	2	5530	10	70	1155		8.242257
11	2	5530	10	100	1919		9.129209
12	2	5530	10	80	1526		9.534479
13	3	5530	10	50	1012	1794	10.681157
14	3	5530	10	100	1270	1102	11.967543



USA Bin 5 Trial #13

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5530	5	65			0.643284
2	1	5530	5	100			0.898311
3	1	5530	5	100			2.050146
4	3	5530	5	55	1524	1817	2.63978
5	1	5530	5	90			3.555647
6	2	5530	5	100	1083		4.129261
7	1	5530	5	50			4.798963
8	1	5530	5	55			5.83764
9	1	5530	5	100			6.637297
10	3	5530	5	80	1974	1535	7.394605
11	3	5530	5	65	1072	1868	8.230766
12	2	5530	5	95	1743		8.818388
13	1	5530	5	60			9.235414
14	2	5530	5	80	1899		10.481433
15	3	5530	5	70	1574	1585	10.75023
16	2	5530	5	95	1894		11.810623

USA Bin 5 Trial #14

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5530	19	90	1535	1915	0.556002
2	1	5530	19	65			1.529129
3	1	5530	19	85			3.411365
4	3	5530	19	75	1990	1077	4.445895
5	3	5530	19	60	1840	1101	6.012204
6	1	5530	19	50			7.165826
7	2	5530	19	60	1631		9.330871
8	3	5530	19	100	1753	1385	9.629394
9	1	5530	19	65			10.874186

USA Bin 5 Trial #15

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5530	20	85	1028	1449	0.435929
2	1	5530	20	55			2.008618
3	2	5530	20	85	1755		2.973424
4	2	5530	20	50	1155		3.617603
5	2	5530	20	70	1574		5.253852
6	2	5530	20	85	1388		6.409083
7	1	5530	20	70			7.59505
8	3	5530	20	95	1908	1223	8.997658
9	3	5530	20	50	1796	1523	10.649948
10	1	5530	20	55			11.005078

USA Bin 5 Trial #16

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5530	10	85	1429	1693	1.488103
2	3	5530	10	75	1404	1008	1.855448
3	1	5530	10	60			4.416384
4	1	5530	10	85			5.357165
5	2	5530	10	55	1768		6.13533
6	3	5530	10	70	1908	1296	8.838806
7	3	5530	10	95	1667	1824	9.297714



8 1 5530 10 55 11.391378
 USA Bin 5 Trial #17

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5530	15	85			0.465381
2	3	5530	15	80	1643	1625	1.113036
3	3	5530	15	50	1746	1389	1.667792
4	2	5530	15	65	1913		2.308187
5	3	5530	15	80	1855	1468	3.146856
6	3	5530	15	55	1554	1545	3.49693
7	2	5530	15	75	1822		4.006903
8	2	5530	15	50	1030		4.571066
9	1	5530	15	90			5.567934
10	3	5530	15	60	1497	1968	5.696341
11	1	5530	15	90			6.945039
12	1	5530	15	65			7.480509
13	2	5530	15	60	1495		8.07035
14	1	5530	15	55			8.524095
15	2	5530	15	70	1193		9.283996
16	3	5530	15	60	1355	1047	9.507523
17	1	5530	15	70			10.116832
18	3	5530	15	85	1252	1754	11.348557
19	1	5530	15	80			11.446837

USA Bin 5 Trial #18

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5530	20	100	1114		0.857528
2	1	5530	20	100			1.565849
3	3	5530	20	70	1693	1063	2.694439
4	2	5530	20	80	1830		4.21471
5	2	5530	20	70	1941		5.444896
6	2	5530	20	55	1229		6.545631
7	1	5530	20	70			8.377412
8	3	5530	20	50	1206	1386	8.603424
9	2	5530	20	80	1877		10.002046
10	1	5530	20	50			11.011049

USA Bin 5 Trial #19

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5530	5	65	1652	1748	0.607485
2	3	5530	5	60	1331	1531	1.35108
3	2	5530	5	55	1310		2.893454
4	3	5530	5	80	1877	1484	3.768913
5	1	5530	5	55			4.613946
6	3	5530	5	65	1250	1860	5.131877
7	3	5530	5	60	1921	1483	6.906965
8	2	5530	5	70	1395		7.450674
9	2	5530	5	100	1537		8.706373
10	2	5530	5	60	1206		9.708822
11	2	5530	5	95	1317		10.299604
12	1	5530	5	80			11.378149

USA Bin 5 Trial #20

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
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1	2	5530	20	65	1091		0.564889
2	1	5530	20	100			1.956389
3	1	5530	20	75			2.870664
4	2	5530	20	100	1607		3.792549
5	1	5530	20	75			4.051093
6	3	5530	20	50	1573	1822	5.271991
7	2	5530	20	70	1041		6.246638
8	3	5530	20	90	1238	1690	7.514978
9	3	5530	20	55	1062	1747	8.754915
10	3	5530	20	85	1636	1379	9.505685
11	2	5530	20	100	1065		10.123422
12	1	5530	20	60			11.324801

USA Bin 5 Trial #21

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5560.4	19	100			0.666247
2	2	5560.4	19	65	1283		1.812209
3	3	5560.4	19	50	1168	1439	2.164603
4	3	5560.4	19	80	1656	1935	2.83978
5	2	5560.4	19	85	1799		3.721429
6	3	5560.4	19	65	1489	1245	4.657637
7	2	5560.4	19	50	1202		6.237078
8	3	5560.4	19	75	1953	1915	6.521931
9	3	5560.4	19	55	1162	1275	7.497449
10	1	5560.4	19	100			8.766409
11	1	5560.4	19	65			9.997352
12	3	5560.4	19	85	1568	1328	10.725816
13	3	5560.4	19	50	1912	1099	11.589016

USA Bin 5 Trial #22

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5564.4	9	50	1727	1470	0.391942
2	2	5564.4	9	100	1299		1.174186
3	3	5564.4	9	95	1917	1065	1.660692
4	1	5564.4	9	80			2.036535
5	3	5564.4	9	95	1118	1008	3.056081
6	2	5564.4	9	55	1504		3.420442
7	1	5564.4	9	80			4.103177
8	2	5564.4	9	75	1632		5.094683
9	2	5564.4	9	100	1017		5.450035
10	2	5564.4	9	95	1443		6.166994
11	2	5564.4	9	80	1198		6.865604
12	2	5564.4	9	50	1124		7.376207
13	3	5564.4	9	100	1354	1308	8.589402
14	1	5564.4	9	75			8.689905
15	2	5564.4	9	65	1633		9.64186
16	1	5564.4	9	60			10.188083
17	1	5564.4	9	95			10.676609
18	1	5564.4	9	70			11.948061

USA Bin 5 Trial #23

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5560.4	19	50			0.858583
2	3	5560.4	19	95	1775	1371	1.221897
3	3	5560.4	19	85	1250	1174	2.036729



4	3	5560.4	19	70	1735	1483	3.19638
5	2	5560.4	19	100	1970		4.218216
6	2	5560.4	19	85	1635		5.190455
7	2	5560.4	19	85	1763		6.69265
8	3	5560.4	19	65	1370	1905	7.313192
9	1	5560.4	19	50			8.536919
10	3	5560.4	19	95	1643	1270	9.231501
11	1	5560.4	19	50			10.879108
12	3	5560.4	19	65	1559	1841	11.912937

USA Bin 5 Trial #24

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	1	5564.4	9	80			0.771825
2	3	5564.4	9	85	1561	1557	1.502832
3	3	5564.4	9	55	1456	1376	2.193396
4	3	5564.4	9	95	1531	1275	3.070715
5	3	5564.4	9	60	1502	1065	3.963498
6	2	5564.4	9	50	1101		4.634115
7	2	5564.4	9	65	1550		4.87742
8	1	5564.4	9	100			5.706438
9	3	5564.4	9	85	1822	1920	6.412398
10	3	5564.4	9	70	1755	1380	7.569748
11	2	5564.4	9	90	1837		8.586011
12	2	5564.4	9	100	1343		8.882699
13	3	5564.4	9	80	1386	1477	9.83566
14	3	5564.4	9	75	1805	1634	10.835551
15	1	5564.4	9	70			11.604328

USA Bin 5 Trial #25

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5562	15	90	1228		0.189906
2	3	5562	15	60	1530	1098	1.740299
3	2	5562	15	50	1288		2.513102
4	3	5562	15	85	1524	1520	3.622437
5	2	5562	15	65	1757		4.074179
6	3	5562	15	75	1812	1446	5.486694
7	3	5562	15	65	1806	1538	6.262013
8	1	5562	15	50			6.95028
9	1	5562	15	85			8.058041
10	1	5562	15	60			9.006227
11	2	5562	15	70	1532		10.070088
12	2	5562	15	60	1152		10.384105
13	2	5562	15	50	1685		11.329035

USA Bin 5 Trial #26

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5565.6	6	100	1330	1669	0.287898
2	2	5565.6	6	95	1890		0.970487
3	2	5565.6	6	60	1410		1.534234
4	3	5565.6	6	55	1178	1944	2.126713
5	1	5565.6	6	85			2.750818
6	1	5565.6	6	75			3.731907
7	1	5565.6	6	65			4.010585
8	2	5565.6	6	80	1838		4.732926
9	3	5565.6	6	80	1763	1000	5.771595



10	3	5565.6	6	95	1844	1756	6.016566
11	2	5565.6	6	65	1639		6.890607
12	1	5565.6	6	70			7.722077
13	1	5565.6	6	100			8.061558
14	3	5565.6	6	85	1096	1383	8.910512
15	2	5565.6	6	70	1764		9.974077
16	3	5565.6	6	75	1592	1772	10.149541
17	1	5565.6	6	95			10.972538
18	1	5565.6	6	90			11.627952

USA Bin 5 Trial #27

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5564.4	9	55	1376		0.819802
2	1	5564.4	9	80			2.080612
3	1	5564.4	9	80			2.894685
4	1	5564.4	9	60			3.461972
5	1	5564.4	9	80			4.996072
6	2	5564.4	9	95	1655		6.083875
7	3	5564.4	9	90	1976	1092	6.563045
8	3	5564.4	9	65	1782	1552	8.702321
9	2	5564.4	9	65	1546		8.996366
10	2	5564.4	9	65	1312		10.816343
11	2	5564.4	9	50	1062		11.93035

USA Bin 5 Trial #28

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5566	5	55	1339	1199	0.840422
2	2	5566	5	95	1483		2.019907
3	1	5566	5	60			2.941659
4	2	5566	5	100	1495		3.562307
5	1	5566	5	60			5.224424
6	3	5566	5	65	1344	1840	5.548055
7	1	5566	5	100			7.28692
8	1	5566	5	50			8.38319
9	3	5566	5	60	1046	1327	9.149998
10	3	5566	5	65	1145	1297	9.951188
11	2	5566	5	65	1135		11.221538

USA Bin 5 Trial #29

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	3	5565.6	6	65	1854	1832	0.322475
2	1	5565.6	6	75			0.943923
3	2	5565.6	6	100	1495		1.760624
4	2	5565.6	6	75	1035		2.295367
5	3	5565.6	6	95	1167	1747	3.007622
6	3	5565.6	6	80	1208	1521	3.721614
7	2	5565.6	6	85	1648		3.933823
8	2	5565.6	6	95	1449		4.700605
9	2	5565.6	6	95	1141		5.612834
10	1	5565.6	6	55			5.907561
11	2	5565.6	6	55	1126		6.401204
12	1	5565.6	6	70			7.458545
13	3	5565.6	6	100	1412	1587	7.622443
14	1	5565.6	6	75			8.596656
15	2	5565.6	6	70	1216		9.238461



16	3	5565.6	6	90	1387	1954	9.561104
17	1	5565.6	6	70			10.663878
18	1	5565.6	6	60			11.069288
19	2	5565.6	6	95	1393		11.608656

USA Bin 5 Trial #30

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5565.6	6	50	1117		0.734008
2	3	5565.6	6	70	1655	1639	1.427793
3	2	5565.6	6	80	1830		1.704553
4	1	5565.6	6	55			2.52741
5	1	5565.6	6	95			3.632881
6	1	5565.6	6	90			4.382388
7	2	5565.6	6	80	1625		4.56708
8	3	5565.6	6	75	1235	1377	5.806356
9	1	5565.6	6	65			6.340611
10	1	5565.6	6	55			7.15682
11	3	5565.6	6	95	1619	1224	8.048277
12	1	5565.6	6	55			8.54241
13	1	5565.6	6	80			9.183378
14	3	5565.6	6	50	1922	1354	10.44566
15	3	5565.6	6	75	1630	1562	10.6076
16	2	5565.6	6	70	1267		11.792166
5	2	5564	10	95	1479		6.949088
6	1	5564	10	75			8.095797
7	1	5564	10	50			9.14386
8	3	5564	10	55	1263	1521	10.842136

USA Bin 5 Trial #30

Burst #	Pulses	Frequency (MHz)	Chirp (MHz)	PW (uS)	Inter-pulse spacing (uS)	Inter-pulse spacing (uS)	Pulse Start (S)
1	2	5566	5	100	1766		0.835379
2	2	5566	5	90	1691		1.161452
3	1	5566	5	100			2.193363
4	3	5566	5	75	1697	1843	3.285939
5	3	5566	5	90	1718	1102	4.564755
6	1	5566	5	90			5.001715
7	2	5566	5	65	1495		6.830403
8	2	5566	5	70	1183		7.732516
9	2	5566	5	85	1597		8.554319
10	3	5566	5	95	1275	1996	9.830322
11	2	5566	5	80	1542		10.513643
12	1	5566	5	60			11.524264



*See the Bin6 Radar Characteristics at the end of this report.

Channel 5530MHz, 80MHz BW, USA Frequency Hopping Radar Statistical Performance

Trial #	Name	1=Detection 0=No Detection	Detection Percentage	Limit
1	USA Bin 6 Radar Test 1	1	100.0%	70.0%
2	USA Bin 6 Radar Test 2	1		
3	USA Bin 6 Radar Test 3	1		
4	USA Bin 6 Radar Test 4	1		
5	USA Bin 6 Radar Test 5	1		
6	USA Bin 6 Radar Test 6	1		
7	USA Bin 6 Radar Test 7	1		
8	USA Bin 6 Radar Test 8	1		
9	USA Bin 6 Radar Test 9	1		
10	USA Bin 6 Radar Test 10	1		
11	USA Bin 6 Radar Test 11	1		
12	USA Bin 6 Radar Test 12	1		
13	USA Bin 6 Radar Test 13	1		
14	USA Bin 6 Radar Test 14	1		
15	USA Bin 6 Radar Test 15	1		
16	USA Bin 6 Radar Test 16	1		
17	USA Bin 6 Radar Test 17	1		
18	USA Bin 6 Radar Test 18	1		
19	USA Bin 6 Radar Test 19	1		
20	USA Bin 6 Radar Test 20	1		
21	USA Bin 6 Radar Test 21	1		
22	USA Bin 6 Radar Test 22	1		
23	USA Bin 6 Radar Test 23	1		
24	USA Bin 6 Radar Test 24	1		
25	USA Bin 6 Radar Test 25	1		
26	USA Bin 6 Radar Test 26	1		
27	USA Bin 6 Radar Test 27	1		
28	USA Bin 6 Radar Test 28	1		
29	USA Bin 6 Radar Test 29	1		
30	USA Bin 6 Radar Test 30	1		



USA Frequency Hopping Trial #1

Hop #	Freq (GHz)	Pulse Start (mS)
7	5568	21
11	5509	33
13	5531	39
15	5506	45
18	5548	54
19	5515	57
20	5502	60
21	5553	63
23	5505	69
31	5539	93
33	5543	99
38	5497	114
44	5558	132
61	5501	183
64	5498	192
66	5514	198
71	5545	213
72	5552	216
80	5521	240
93	5566	279

USA Frequency Hopping Trial #2

Hop #	Freq (GHz)	Pulse Start (mS)
0	5548	0
8	5499	24
12	5504	36
20	5524	60
27	5546	81
36	5527	108
41	5561	123
54	5507	162
65	5555	195
70	5506	210
78	5509	234
84	5557	252
90	5496	270

USA Frequency Hopping Trial #3

Hop #	Freq (GHz)	Pulse Start (mS)
5	5500	15
7	5533	21
9	5518	27



16	5543	48
21	5510	63
26	5535	78
34	5493	102
43	5496	129
56	5561	168
75	5498	225
76	5540	228
79	5508	237
84	5515	252
91	5542	273
97	5546	291
99	5552	297

USA Frequency Hopping Trial #4

Hop #	Freq (GHz)	Pulse Start (mS)
3	5525	9
9	5504	27
12	5515	36
16	5518	48
19	5560	57
20	5533	60
24	5497	72
25	5542	75
44	5509	132
45	5521	135
46	5517	138
51	5529	153
58	5568	174
59	5492	177
62	5565	186
68	5534	204
79	5545	237
90	5558	270
91	5522	273

USA Frequency Hopping Trial #5

Hop #	Freq (GHz)	Pulse Start (mS)
3	5559	9
6	5524	18
9	5502	27
10	5511	30
13	5563	39
16	5512	48
23	5531	69



26	5533	78
30	5528	90
39	5497	117
41	5519	123
43	5549	129
49	5537	147
65	5518	195
69	5553	207
85	5535	255
88	5508	264
93	5516	279

USA Frequency Hopping Trial #6

Hop #	Freq (GHz)	Pulse Start (mS)
1	5557	3
6	5501	18
10	5526	30
12	5504	36
17	5531	51
22	5554	66
27	5538	81
33	5496	99
36	5552	108
42	5545	126
46	5548	138
47	5532	141
50	5513	150
53	5563	159
54	5564	162
60	5559	180
62	5540	186
71	5528	213
73	5493	219
78	5507	234
81	5515	243
89	5549	267
98	5523	294

USA Frequency Hopping Trial #7

Hop #	Freq (GHz)	Pulse Start (mS)
10	5525	30
11	5535	33
15	5512	45
30	5513	90
40	5519	120



58	5524	174
88	5518	264
99	5501	297

USA Frequency Hopping Trial #8

Hop #	Freq (GHz)	Pulse Start (mS)
12	5507	36
15	5494	45
21	5559	63
24	5532	72
25	5518	75
29	5551	87
44	5534	132
45	5566	135
52	5553	156
56	5492	168
58	5561	174
61	5567	183
67	5523	201
98	5511	294

USA Frequency Hopping Trial #9

Hop #	Freq (GHz)	Pulse Start (mS)
1	5546	3
18	5508	54
25	5497	75
26	5562	78
31	5495	93
32	5538	96
34	5565	102
40	5501	120
42	5533	126
62	5539	186
63	5553	189
65	5530	195
84	5554	252
94	5547	282

USA Frequency Hopping Trial #10

Hop #	Freq (GHz)	Pulse Start (mS)
5	5501	15
7	5504	21
15	5558	45
19	5493	57
25	5529	75



31	5545	93
34	5559	102
35	5567	105
45	5537	135
49	5518	147
70	5507	210
73	5557	219
78	5509	234
85	5512	255
87	5550	261
92	5542	276
98	5548	294
99	5517	297

USA Frequency Hopping Trial #11

Hop #	Freq (GHz)	Pulse Start (mS)
1	5551	3
2	5499	6
3	5536	9
7	5538	21
8	5543	24
18	5559	54
31	5531	93
39	5542	117
43	5554	129
48	5561	144
51	5530	153
54	5521	162
55	5553	165
56	5508	168
57	5558	171
69	5518	207
75	5565	225
76	5501	228
81	5544	243
88	5506	264

USA Frequency Hopping Trial #12

Hop #	Freq (GHz)	Pulse Start (mS)
11	5508	33
12	5503	36
18	5565	54
20	5515	60
27	5548	81
43	5538	129



49	5540	147
54	5568	162
58	5535	174
60	5536	180
61	5551	183
63	5506	189
68	5511	204
86	5550	258
88	5504	264

USA Frequency Hopping Trial #13

Hop #	Freq (GHz)	Pulse Start (mS)
7	5533	21
13	5503	39
20	5525	60
29	5547	87
33	5556	99
35	5500	105
38	5510	114
43	5532	129
44	5529	132
45	5522	135
52	5512	156
71	5520	213
88	5550	264
90	5545	270
93	5543	279
96	5505	288

USA Frequency Hopping Trial #14

Hop #	Freq (GHz)	Pulse Start (mS)
8	5562	24
12	5498	36
13	5492	39
19	5551	57
20	5550	60
21	5552	63
33	5507	99
36	5543	108
39	5561	117
40	5531	120
44	5513	132
50	5522	150
55	5540	165
58	5496	174



74	5565	222
75	5503	225
87	5563	261
91	5508	273
94	5521	282

USA Frequency Hopping Trial #15

Hop #	Freq (GHz)	Pulse Start (mS)
9	5505	27
13	5532	39
17	5519	51
18	5531	54
21	5510	63
43	5523	129
45	5500	135
52	5504	156
55	5499	165
59	5520	177
70	5497	210
76	5508	228
78	5530	234
81	5538	243
91	5527	273
97	5506	291
98	5518	294

USA Frequency Hopping Trial #16

Hop #	Freq (GHz)	Pulse Start (mS)
15	5559	45
18	5531	54
27	5547	81
35	5494	105
45	5533	135
53	5549	159
57	5536	171
59	5560	177
61	5528	183
69	5516	207
71	5510	213
78	5553	234
80	5527	240
83	5505	249
87	5539	261
88	5557	264
91	5513	273



92	5523	276
99	5558	297

USA Frequency Hopping Trial #17

Hop #	Freq (GHz)	Pulse Start (ms)
2	5493	6
14	5517	42
16	5552	48
17	5549	51
22	5528	66
27	5516	81
36	5532	108
39	5538	117
43	5525	129
57	5557	171
58	5503	174
62	5522	186
66	5529	198
81	5563	243
95	5559	285

USA Frequency Hopping Trial #18

Hop #	Freq (GHz)	Pulse Start (ms)
2	5507	6
7	5542	21
9	5538	27
13	5497	39
21	5517	63
24	5502	72
42	5547	126
46	5567	138
53	5512	159
63	5539	189
83	5550	249
84	5515	252
85	5562	255
95	5531	285
97	5543	291

USA Frequency Hopping Trial #19

Hop #	Freq (GHz)	Pulse Start (ms)
2	5514	6
6	5512	18
13	5555	39
15	5522	45



18	5560	54
28	5564	84
47	5524	141
60	5523	180
77	5558	231
78	5532	234
79	5553	237
81	5494	243
83	5547	249
84	5526	252
86	5534	258

USA Frequency Hopping Trial #20

Hop #	Freq (GHz)	Pulse Start (mS)
8	5496	24
12	5544	36
14	5508	42
16	5526	48
17	5530	51
20	5501	60
24	5495	72
29	5511	87
30	5517	90
34	5513	102
36	5519	108
37	5532	111
40	5554	120
41	5549	123
51	5509	153
53	5542	159
58	5553	174
65	5556	195
99	5531	297

USA Frequency Hopping Trial #21

Hop #	Freq (GHz)	Pulse Start (mS)
11	5523	33
14	5493	42
37	5512	111
52	5508	156
56	5533	168
58	5546	174
63	5499	189
73	5527	219
74	5525	222



76	5543	228
79	5511	237
83	5532	249

USA Frequency Hopping Trial #22

Hop #	Freq (GHz)	Pulse Start (mS)
12	5545	36
19	5504	57
37	5526	111
39	5509	117
43	5512	129
51	5543	153
58	5495	174
67	5551	201
72	5533	216
78	5553	234
85	5536	255
94	5511	282
98	5529	294

USA Frequency Hopping Trial #23

Hop #	Freq (GHz)	Pulse Start (mS)
4	5559	12
6	5563	18
14	5564	42
27	5518	81
28	5514	84
31	5494	93
32	5515	96
37	5553	111
48	5534	144
53	5521	159
59	5507	177
61	5513	183
64	5546	192
70	5557	210
77	5493	231
81	5552	243
82	5526	246
96	5558	288
99	5554	297

USA Frequency Hopping Trial #24

Hop #	Freq (GHz)	Pulse Start (mS)
10	5556	30



21	5523	63
28	5535	84
41	5532	123
52	5504	156
54	5549	162
61	5524	183
64	5508	192
74	5521	222
75	5536	225
85	5534	255
90	5507	270
93	5564	279
94	5506	282

USA Frequency Hopping Trial #25

Hop #	Freq (GHz)	Pulse Start (mS)
6	5562	18
11	5559	33
22	5567	66
30	5557	90
43	5507	129
53	5514	159
62	5506	186
65	5549	195
67	5543	201
78	5516	234
82	5499	246
83	5519	249
91	5508	273
94	5520	282

USA Frequency Hopping Trial #26

Hop #	Freq (GHz)	Pulse Start (mS)
1	5493	3
3	5502	9
4	5515	12
5	5539	15
19	5536	57
22	5495	66
41	5538	123
48	5565	144
50	5544	150
66	5546	198
68	5547	204
77	5525	231



80	5562	240
81	5550	243
99	5523	297

USA Frequency Hopping Trial #27

Hop #	Freq (GHz)	Pulse Start (mS)
0	5557	0
6	5514	18
15	5535	45
30	5519	90
32	5503	96
36	5546	108
45	5559	135
46	5492	138
48	5560	144
52	5508	156
58	5543	174
65	5516	195
70	5547	210
73	5502	219
74	5563	222
80	5520	240
85	5505	255
90	5509	270
96	5498	288
97	5530	291
98	5554	294
99	5568	297

USA Frequency Hopping Trial #28

Hop #	Freq (GHz)	Pulse Start (mS)
42	5531	126
43	5516	129
55	5525	165
70	5538	210
73	5537	219
84	5541	252
91	5507	273
97	5534	291

USA Frequency Hopping Trial #29

Hop #	Freq (GHz)	Pulse Start (mS)
9	5528	27
11	5561	33
14	5513	42



15	5520	45
17	5498	51
22	5495	66
37	5503	111
39	5509	117
57	5538	171
66	5529	198
74	5565	222
94	5537	282

USA Frequency Hopping Trial #30

Hop #	Freq (GHz)	Pulse Start (mS)
9	5530	27
18	5547	54
26	5499	78
37	5552	111
51	5550	153
54	5522	162
56	5568	168
76	5496	228
78	5498	234
79	5549	237
83	5494	249
85	5508	255
86	5562	258
94	5510	282

**Appendix C: List of Test Equipment Used to perform the test**

Equip#	Manufacturer/ Model	Description	Last Cal	Next Due
CIS-49514	National Instruments /PXI-1042	DFS Automation System	Cal before Use	Cal before Use
	National Instruments /PXI-5422	16-Bit 200MS/s AWG	Cal before Use	Cal before Use
	National Instruments /PXI-5422	16-Bit 200MS/s AWG	Cal before Use	Cal before Use
	National Instruments /PXI-2796	40GHz Dual 6x1 Multiplex	Cal before Use	Cal before Use
CIS055579	BWS20-W2 Aeroflex	SMA 20dB Attenuator	21-Jul-16	21-Jul-17
CIS055577	BWS20-W2 Aeroflex	SMA 20dB Attenuator	21-Jul-16	21-Jul-17
CIS054696	D3C2060 Ditom	Circulator	14-Nov-16	14-Nov-17
CIS054657	ZFSC-2-10G Mini-Circuits	Splitter	19-Sep-16	19-Sep-17
CIS055561	F120-S1S1-48 MegaPhase	SMA Cable 48"	15-Jul-16	15-Jul-17
CIS054635	F120-S1S1-48 Megaphase	SMA cable 48"	15-Jul-16	15-Jul-17
CIS055843	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17
CIS055842	SMSM-A2PH-012 Dynawave	12" SMA cable	29-Sep-16	29-Sep-17
CIS055874	SMSM-A2PH-024 Dynawave	24" SMA Cable	7-Oct-16	7-Oct-17
CIS055872	SMSM-A2PH-024 Dynawave	24" SMA Cable	7-Oct-16	7-Oct-17
CIS055868	SMSM-A2PH-024 Dynawave	24" SMA Cable	7-Oct-16	7-Oct-17
CIS055867	SMSM-A2PH-024 Dynawave	24" SMA Cable	7-Oct-16	7-Oct-17
CIS055170	RFLT4WDC40GK RF Lambda	4 Way Power Divider 40GHz	29-Nov-16	29-Nov-17
CIS050721	N9030A Keysight	PXA Signal Analyzer	30-Mar-16	30-Mar-17
CIS054303	N5182B Keysight	MXG X-Series RF Vector Signal Generator	6-Apr-16	6-Apr-17



End