



MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*

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December 13, 2017

Ubiquiti Networks
1250 S. Grove Ave. Suite 100
Barrington, IL 60010

Dear Alex Pavlos,

Enclosed is the EMC Wireless test report for compliance testing of the Ubiquiti Networks, AirFiber 5XHD as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Title 47 of the CFR, Part 15.407, Subpart E (UNII 2).

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Joel Huna
Documentation Department

Reference: (\Ubiquiti Networks\EMC94950-FCC407 UNII 2 DFS Rev. 1)

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Electromagnetic Compatibility Criteria Test Report

for the

**Ubiquiti Networks
Model AirFiber 5XHD**

Tested under
the FCC Certification Rules
contained in
Title 47 of the CFR
15.407 Subpart E

MET Report: EMC94950-FCC407 UNII 2 DFS Rev. 1

December 13, 2017

Prepared For:

**Ubiquiti Networks
1250 S. Grove Ave. Suite 100
Barrington, IL 60010**

Prepared By:

MET Laboratories, Inc.

914 West Patapsco Avenue, Baltimore, MD 21230

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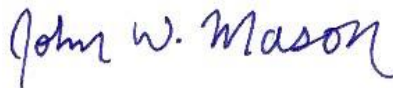


Deepak Giri, Project Engineer
Electromagnetic Compatibility Lab



Joel Huna
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of 15.407 of the FCC Rules under normal use and maintenance.



John Mason,
Director, Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	November 28, 2017	Initial Issue.
1	December 13, 2017	Engineer corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dB_μA	Decibels above one microamp
dB_μV	Decibels above one microvolt
dB_μA/m	Decibels above one microamp per meter
dB_μV/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μH	microhenry
μ	microfarad
μs	microseconds
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

I. Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Ubiquiti Networks AirFiber 5XHD, with the requirements of Part 15, §15.407. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the AirFiber 5XHD. Ubiquiti Networks should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the AirFiber 5XHD, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.407, in accordance with Ubiquiti Networks, purchase order number US101490. All tests were conducted using measurement procedure ANSI C63.4-2014.

FCC Reference	Description	Results
15.40 (h)(2)	U-NII Detection Bandwidth	Compliant
15.407(h)(2)(ii)	Channel Availability Check Time	Compliant
15.407(h)(2)(ii-iii)	In-Service Monitoring	Compliant
15.407(h)(2)	Statistical Performance Check	Compliant

Table 1. Executive Summary of EMC Part 15.407 Compliance Testing

II. Equipment Configuration

A. Overview

MET Laboratories, Inc. was contracted by Ubiquiti Networks to perform testing on the AirFiber 5XHD, under Ubiquiti Networks's purchase order number US101490.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Ubiquiti Networks AirFiber 5XHD.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	AirFiber 5XHD	
Model(s) Covered:	AirFiber 5XHD	
EUT Specifications:	Primary Power: 100-240 VDC 50/60 Hz	
	FCC ID: SWX-AF5XHD	
	Type of Modulations:	Proprietary OFDM
	Equipment Code:	NII
	Peak RF Output Power:	16.95 dBm
	EUT Frequency Ranges:	5250 MHz - 5350 MHz and 5470 MHz – 5725 MHz
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Type of Filing:	Original	
Evaluated by:	Deepak Giri	
Report Date(s):	December 13, 2017	

Table 2. EUT Summary

B. References

CFR 47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices (UNII)
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2005	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
789033 D02 General UNII Test Procedures New Rules v01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
905462 DO2 UNII DFS Compliance Procedures New Rules v01r02	Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection

Table 3. References

C. Test Site

All testing was performed at MET Laboratories, Inc., 914 West Patapsco Avenue, Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

D. Description of Test Sample

The Ubiquiti Networks AirFiber 5XHD, Equipment Under Test (EUT), is a 5.250GHz – 5.725GHz, Digital Transmission radio that uses OFDM MIMO Uncorrelated Cross-Polarized communication with a 100/80/60/50MHz/40MHz/30MHz/ 20MHz/10MHz/ bandwidth configuration. The EUT would be used outdoors and pole mounted. It is powered from a PoE adapter. The reverse-polarized connectorized has the ability when professionally installed by a user with cross-polarized antennas. This is the only matter that would be able to create a functional link to work.

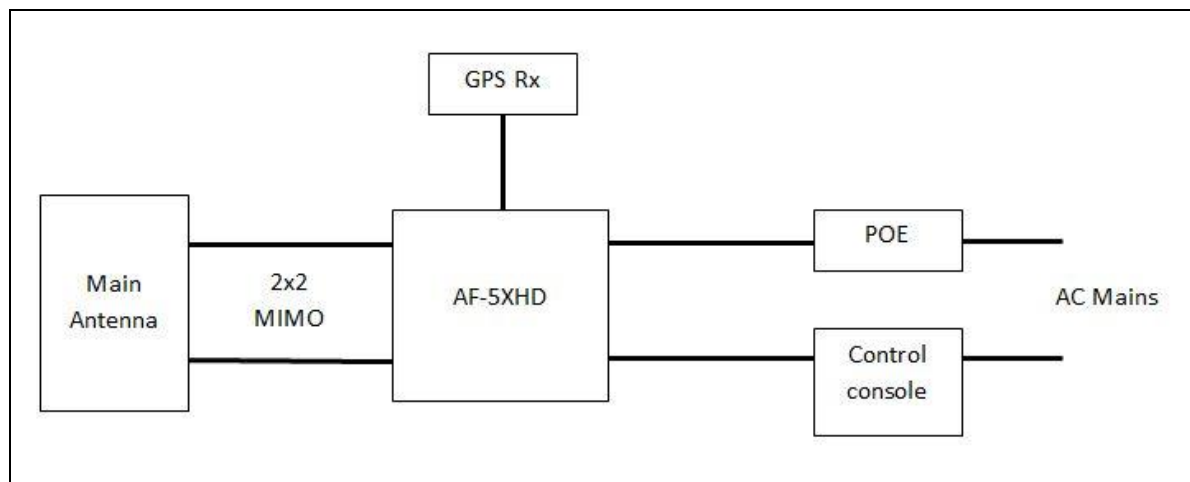


Figure 1. Block Diagram of Test Configuration

E. Equipment Configuration

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup. All cards, racks, etc., incorporated as part of the EUT is included in the following list.

Ref. ID	Slot #	Name / Description	Model Number	Part Number	Serial Number	Rev. #
1		Switching Gigabit Power Supply	GP-H240-100G-4	1514	0000936	
2		Middle Gain Omni	AMO-5G10	AM5E	43771	
3		5 GHz 34dBi Slant 45 Antenna	AF-5G34-S45	AF5C	07623	
4		Ethernet Cables	N/A	N/A	N/A	
5		GPS Antenna	N/A	N/A	N/A	
6		Sector Antenna	N/A	N/A	N/A	

Table 4. Equipment Configuration

F. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name / Description	Manufacturer	Model Number	*Customer Supplied Calibration Data
1	Laptop	HP	Pro Book 430 G1	N/A
2	Laptop	ASUS	X502C	N/A
3	Laptop	Apple	MacBook Pro	N/A

The 'Customer Supplied Calibration Data' column will be marked as either not applicable, not available, or will contain the calibration date supplied by the customer.

Table 5. Support Equipment

G. Ports and Cabling Information

Ref. ID	Port name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded? (Y/N)	Termination Box ID & Port Name
1	Management Port	RJ45 Ethernet	1	2		Yes	
2	Data Port	RJ45 Ethernet	1	2		Yes	
3	RP sma CH0	RF coax	1	2		Yes	
4	RP sma CH1	RF coax	1	2		Yes	

Table 6. Ports and Cabling Information

H. Mode of Operation

Using internal test modes only for testing purposes the radio is set up in a continuous transmit mode. This allows for frequency, power, and channel bandwidth to be adjusted for measurement purposes. Scripts and specific command line commands are used to manipulate the radio in test mode.

I. Method of Monitoring EUT Operation

1. A blinking green “Data” LED will indicate error-free data is being transferred on the test cable.
2. Any other LED status besides the blinking green LED (i.e. LED light off, etc) will indicate error-free data is not being transferred on the test cable.

J. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

K. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Ubiquiti Networks upon completion of testing.

III. DFS Requirements and Radar Waveform Description & Calibration

A. DFS Requirements

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 7. Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 8. Applicability of DFS Requirements During Normal Operation

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 9. DFS Detection Thresholds for Master or Client Devices Incorporating DFS

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.
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. 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. 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.	

Table 10. DFS Response Requirement Values

B. 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.

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type1, 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.

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 11. Pulse Repetition Intervals Values for Test A

Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Bursts	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. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with 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 independently.

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).

Long Pulse Radar Test Signal Waveform
12 Second Transmission

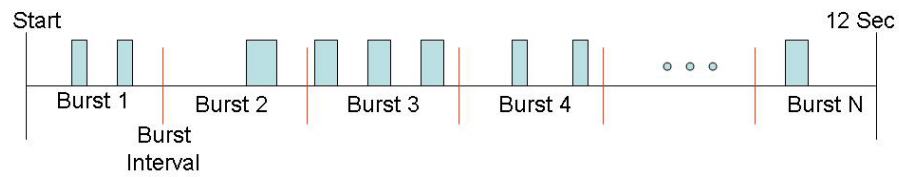


Figure 2. Long Pulse Radar Test Signal Waveform

Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum 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.

C. Radar Waveform Calibration

Calibration of the DFS test was done using a radiated method. A signal generator capable of producing all radar pulse types (0-6) was connected to a transmitting antenna. A receive antenna, through an external pre-amp was connected to a spectrum analyzer. The spectrum analyzer was set to a zero span with a peak detector and an RBW and VBW of 3 MHz. The transmit and receive antennas were vertically polarized during this calibration.

With the signal generator and spectrum analyzer tuned to the test frequency, each radar pulse was triggered and observed on the spectrum analyzer. The DFS Detection Threshold was verified for each radar pulse type (0-6).

During this process there were no transmissions by either the Master or Client Device.

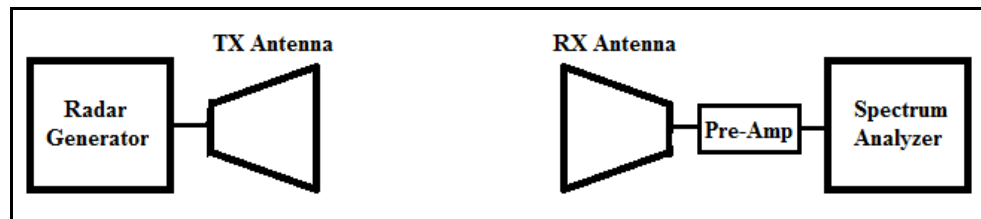
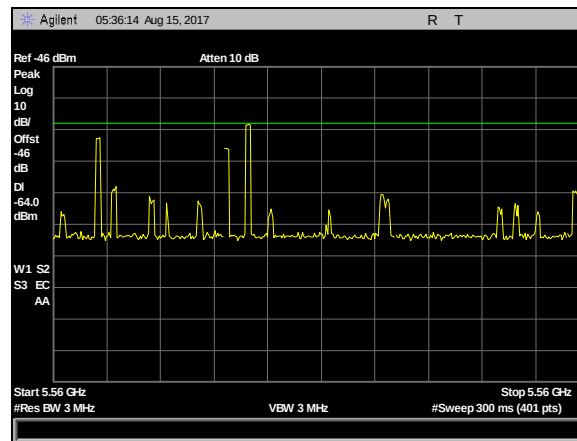
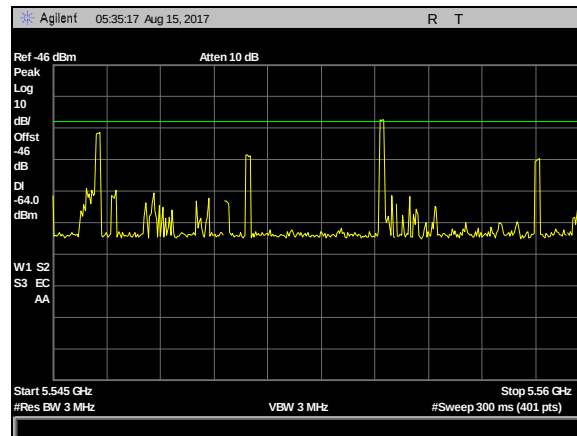


Figure 3. Radiated DFS Calibration Block Diagram

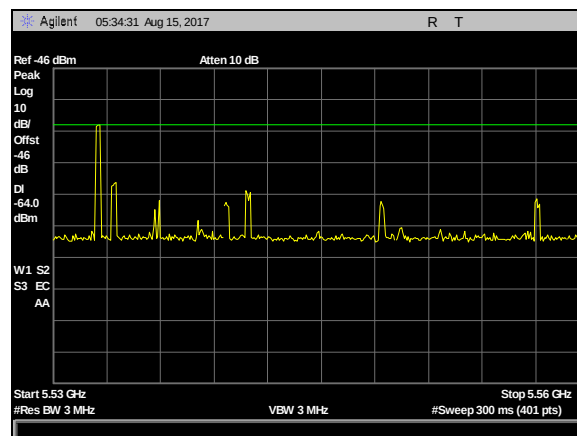
Radar Waveform Calibration



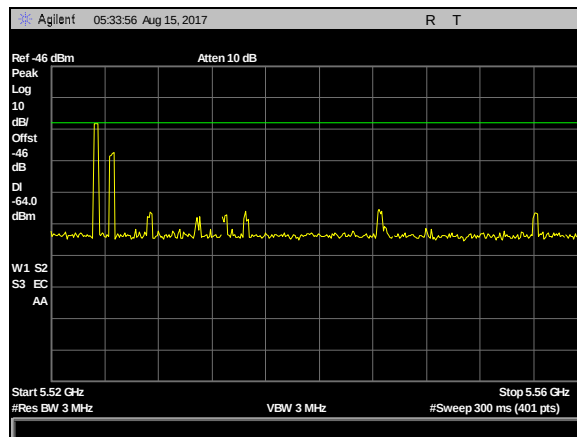
Plot 1. DFS Calibration Plots, Type 6 Calibration 5560 MHz, Sig Gen Level -23 dBm



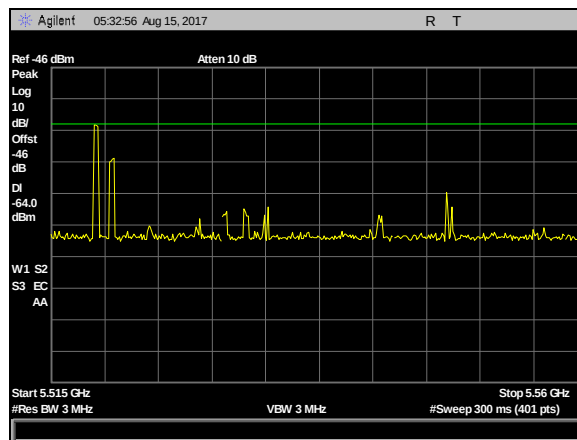
Plot 2. DFS Calibration Plots, Type 6 Calibration 5545 MHz, Sig Gen Level -23 dBm



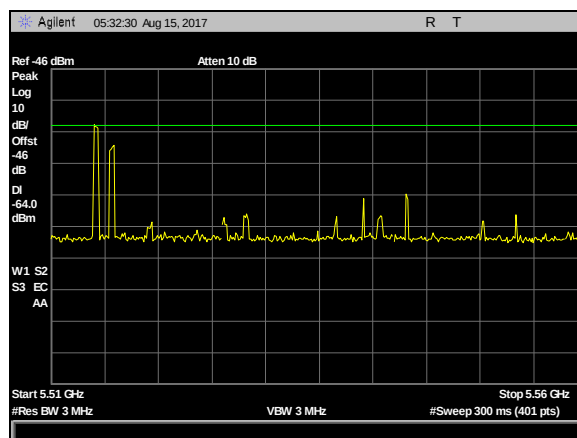
Plot 3. DFS Calibration Plots, Type 6 Calibration 5530 MHz, Sig Gen Level -23 dBm



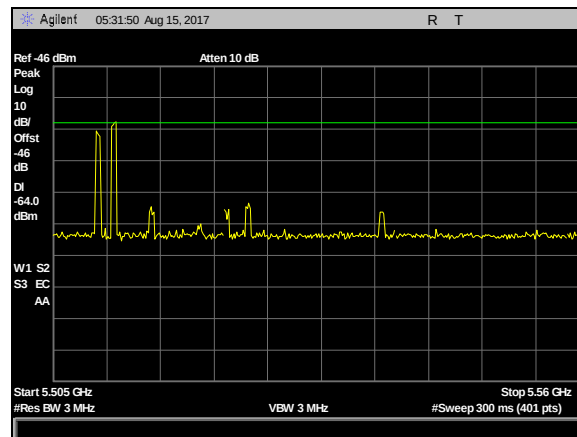
Plot 4. DFS Calibration Plots, Type 6 Calibration 5520 MHz, Sig Gen Level -23 dBm



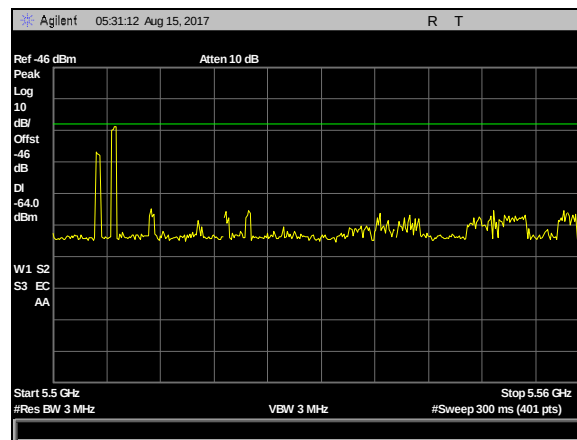
Plot 5. DFS Calibration Plots, Type 6 Calibration 5515 MHz, Sig Gen Level -23 dBm



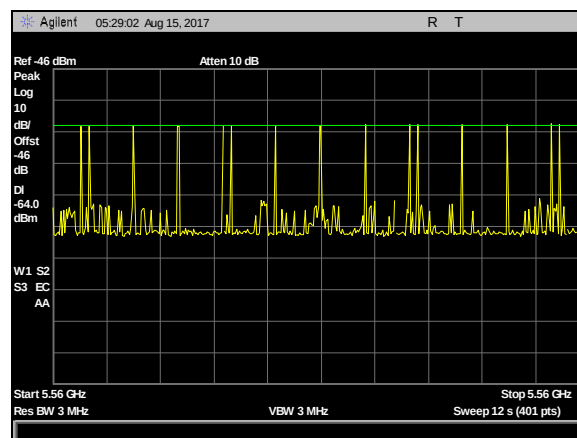
Plot 6. DFS Calibration Plots, Type 6 Calibration 5510 MHz, Sig Gen Level -23 dBm



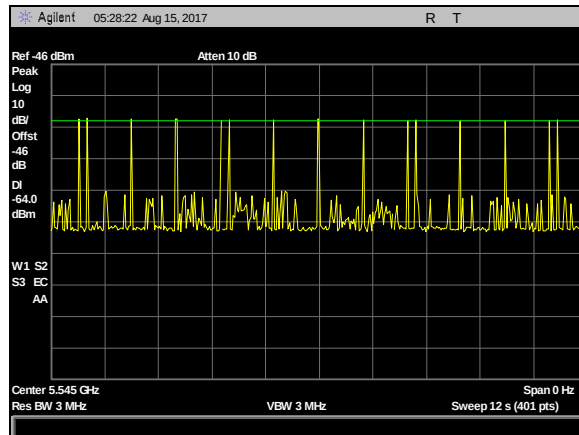
Plot 7. DFS Calibration Plots, Type 6 Calibration 5505 MHz, Sig Gen Level -23 dBm



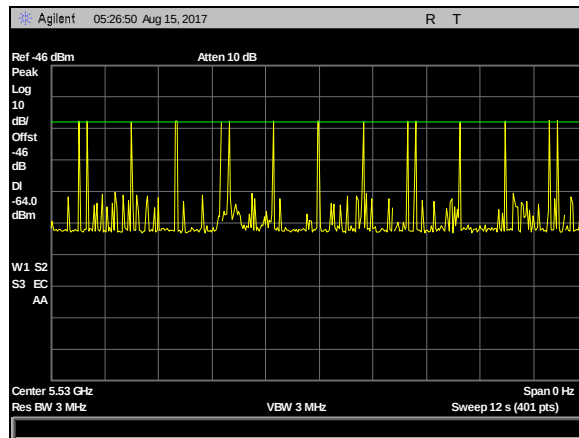
Plot 8. DFS Calibration Plots, Type 6 Calibration 5500 MHz, Sig Gen Level -23 dBm



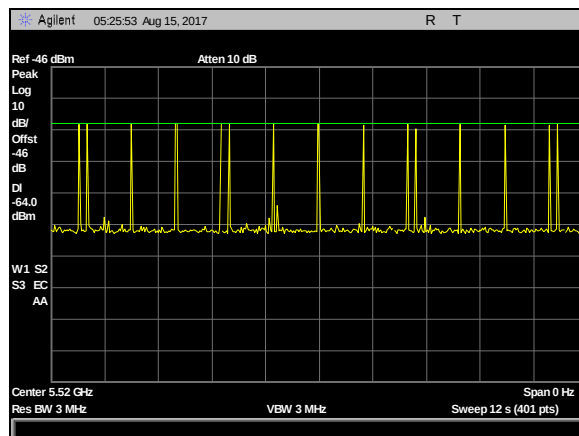
Plot 9. DFS Calibration Plots, Type 5 Calibration 5560 MHz, Sig Gen Level -23 dBm



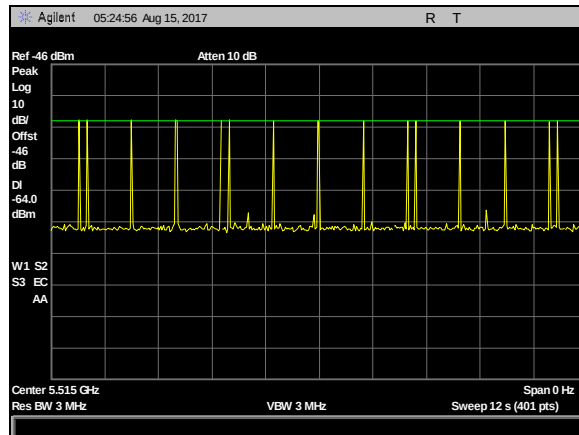
Plot 10. DFS Calibration Plots, Type 5 Calibration 5545 MHz, Sig Gen Level -23 dBm



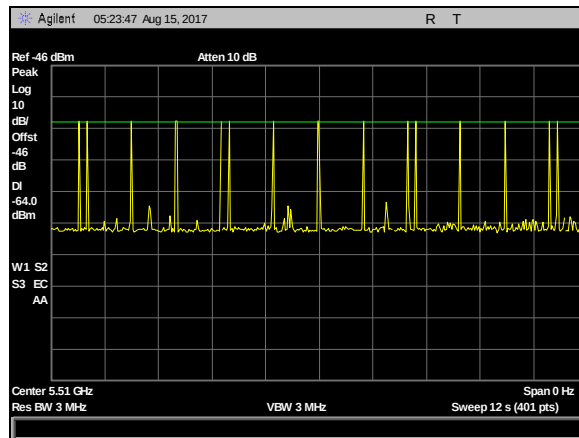
Plot 11. DFS Calibration Plots, Type 5 Calibration 5530 MHz, Sig Gen Level -23 dBm



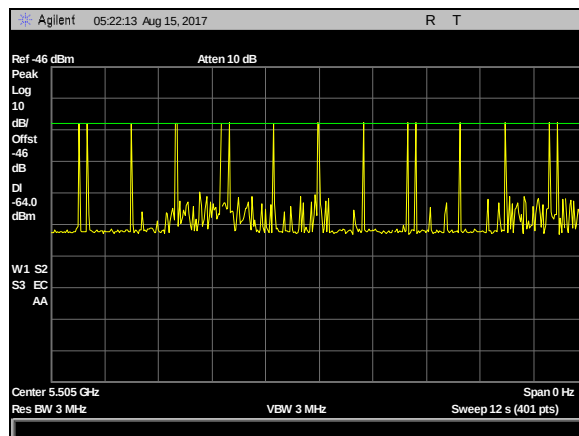
Plot 12. DFS Calibration Plots, Type 5 Calibration 5520 MHz, Sig Gen Level -23 dBm



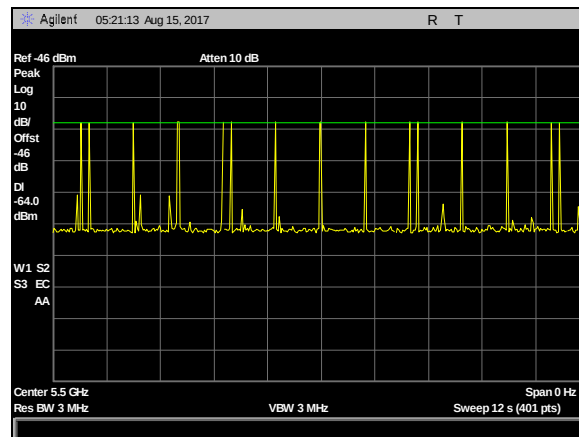
Plot 13. DFS Calibration Plots, Type 5 Calibration 5515 MHz, Sig Gen Level -23 dBm



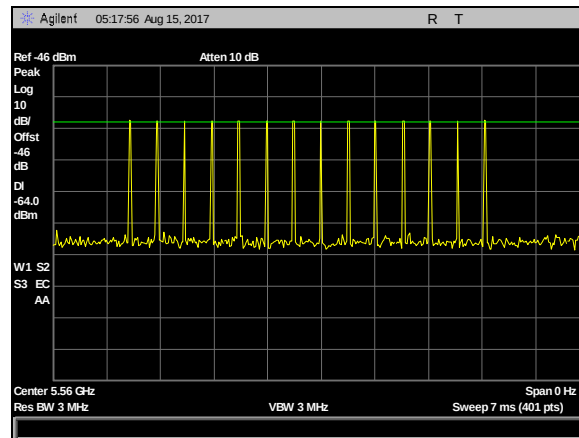
Plot 14. DFS Calibration Plots, Type 5 Calibration 5510 MHz, Sig Gen Level -23 dBm



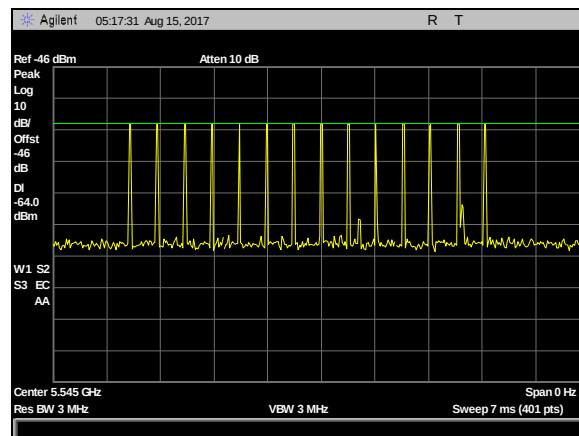
Plot 15. DFS Calibration Plots, Type 5 Calibration 5505 MHz, Sig Gen Level -23 dBm



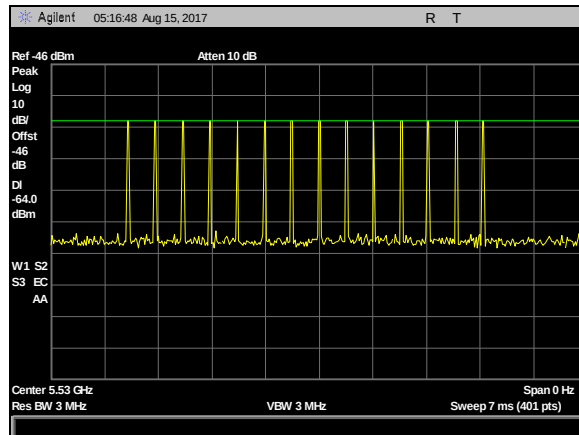
Plot 16. DFS Calibration Plots, Type 5 Calibration 5500 MHz, Sig Gen Level -23 dBm



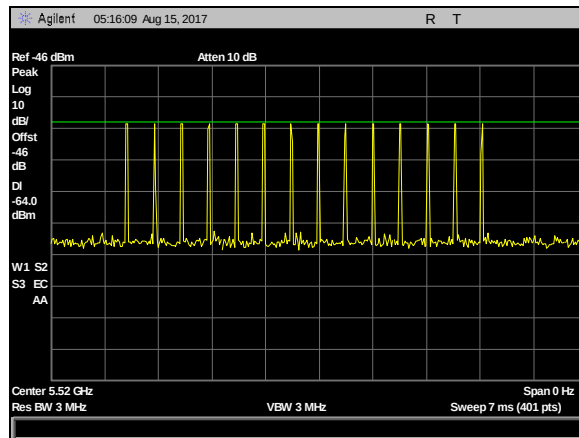
Plot 17. DFS Calibration Plots, Type 4 Calibration 5560 MHz, Sig Gen Level -23 dBm



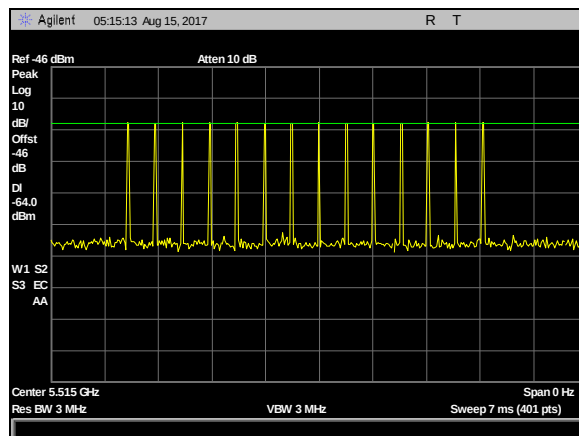
Plot 18. DFS Calibration Plots, Type 4 Calibration 5545 MHz, Sig Gen Level -23 dBm



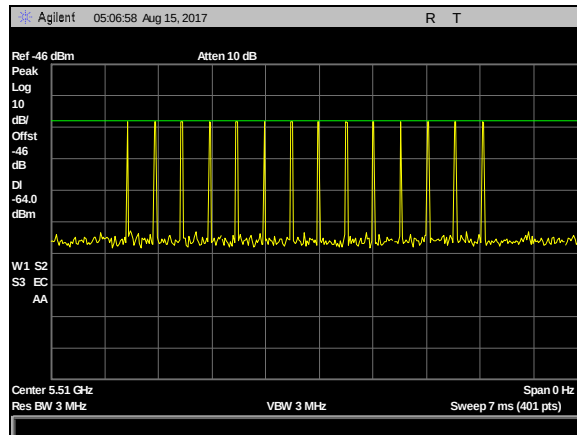
Plot 19. DFS Calibration Plots, Type 4 Calibration 5530 MHz, Sig Gen Level -23 dBm



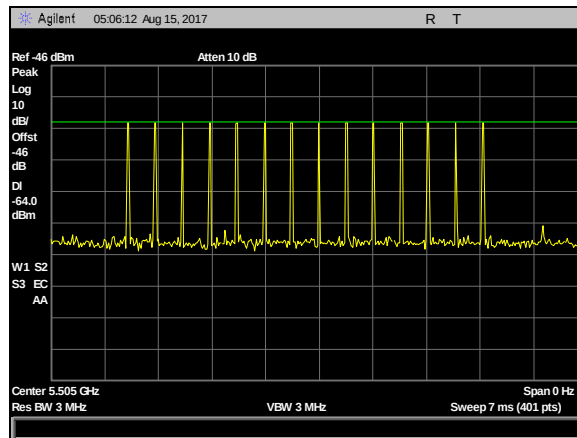
Plot 20. DFS Calibration Plots, Type 4 Calibration 5520 MHz, Sig Gen Level -23 dBm



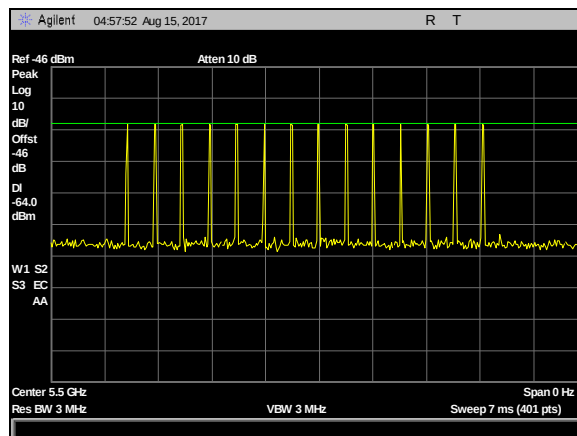
Plot 21. DFS Calibration Plots, Type 4 Calibration 5515 MHz, Sig Gen Level -23 dBm



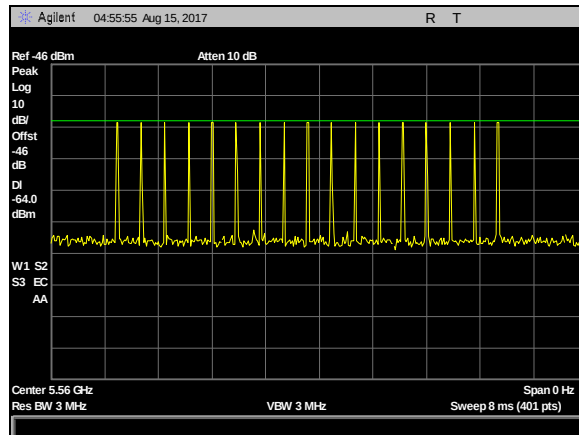
Plot 22. DFS Calibration Plots, Type 4 Calibration 5510 MHz, Sig Gen Level -23 dBm



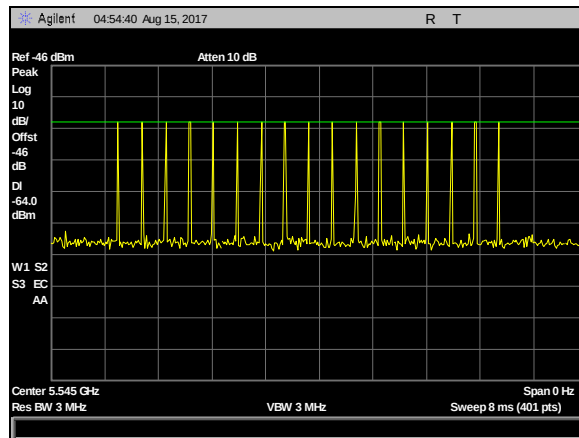
Plot 23. DFS Calibration Plots, Type 4 Calibration 5505 MHz, Sig Gen Level -23 dBm



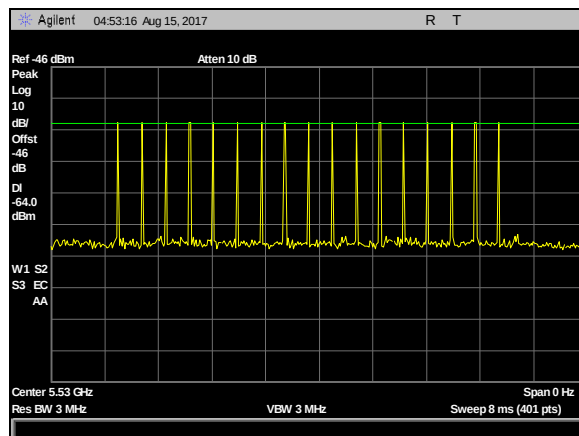
Plot 24. DFS Calibration Plots, Type 4 Calibration 5500 MHz, Sig Gen Level -23 dBm



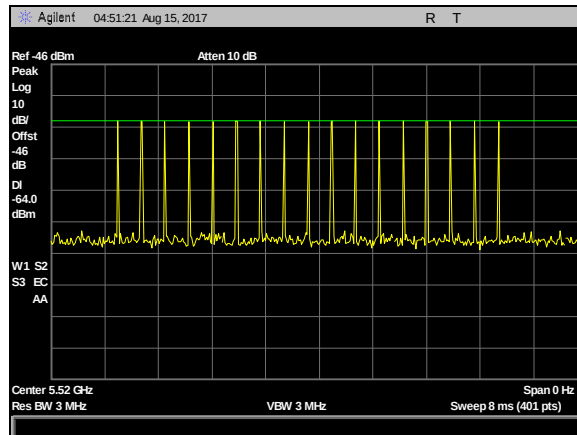
Plot 25. DFS Calibration Plots, Type 3 Calibration 5560 MHz, Sig Gen Level -23 dBm



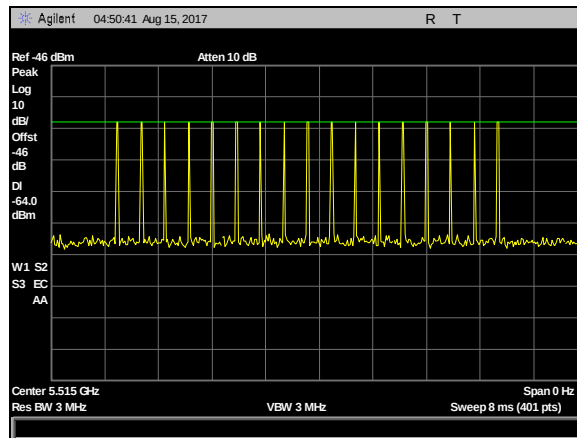
Plot 26. DFS Calibration Plots, Type 3 Calibration 5545 MHz, Sig Gen Level -23 dBm



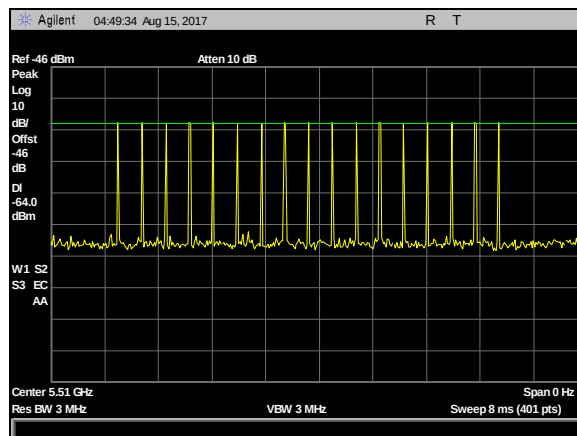
Plot 27. DFS Calibration Plots, Type 3 Calibration 5530 MHz, Sig Gen Level -23 dBm



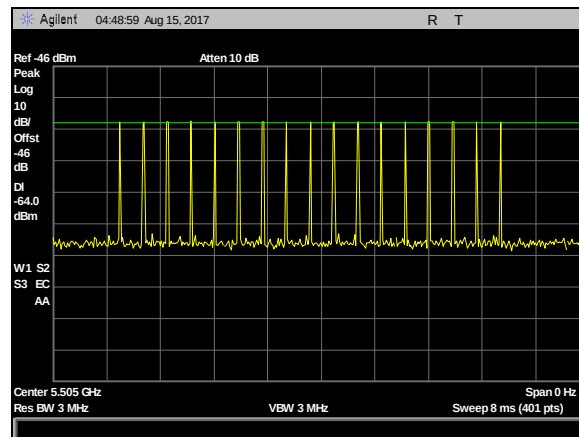
Plot 28. DFS Calibration Plots, Type 3 Calibration 5520 MHz, Sig Gen Level -23 dBm



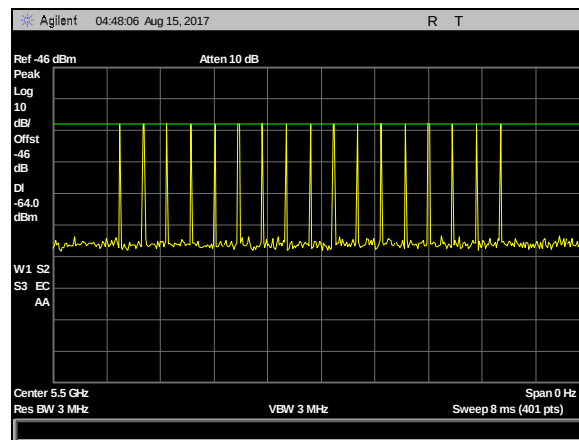
Plot 29. DFS Calibration Plots, Type 3 Calibration 5515 MHz, Sig Gen Level -23 dBm



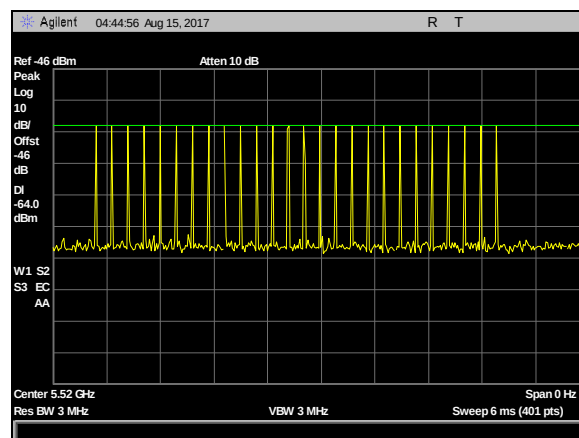
Plot 30. DFS Calibration Plots, Type 3 Calibration 5510 MHz, Sig Gen Level -23 dBm



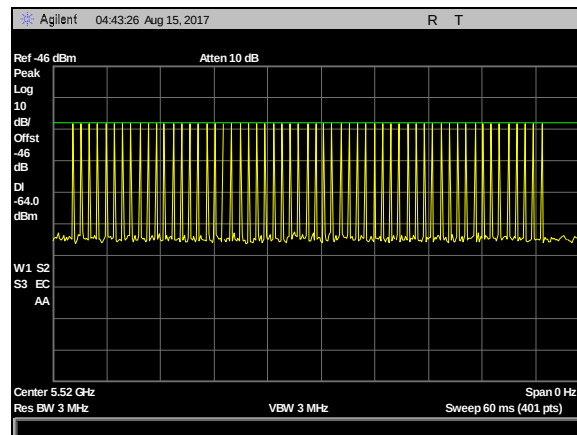
Plot 31. DFS Calibration Plots, Type 3 Calibration 5505 MHz, Sig Gen Level -23 dBm



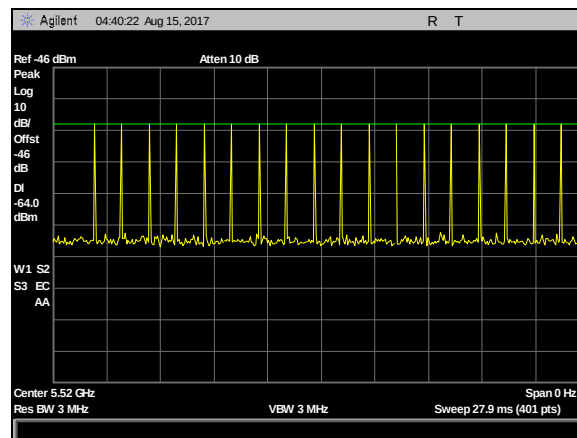
Plot 32. DFS Calibration Plots, Type 3 Calibration 5500 MHz, Sig Gen Level -23 dBm



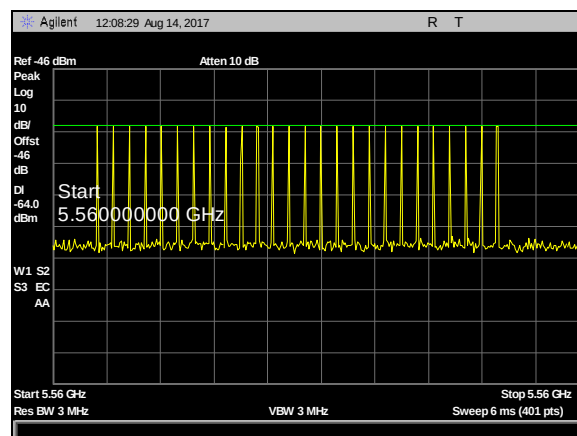
Plot 33. DFS Calibration Plots, Type 2 Calibration 5520 MHz, Sig Gen Level -23 dBm



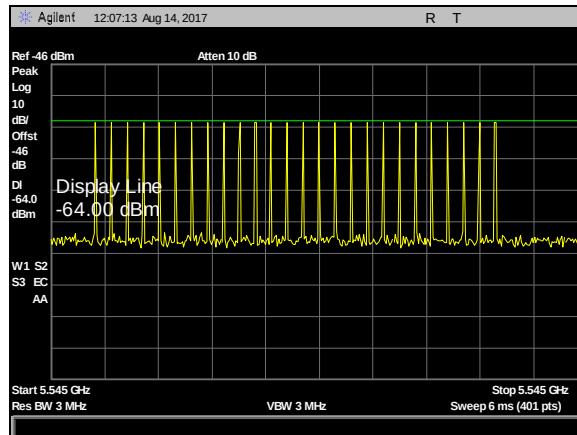
Plot 34. DFS Calibration Plots, Type 1 Calibration 5520 MHz, Sig Gen Level -23 dBm



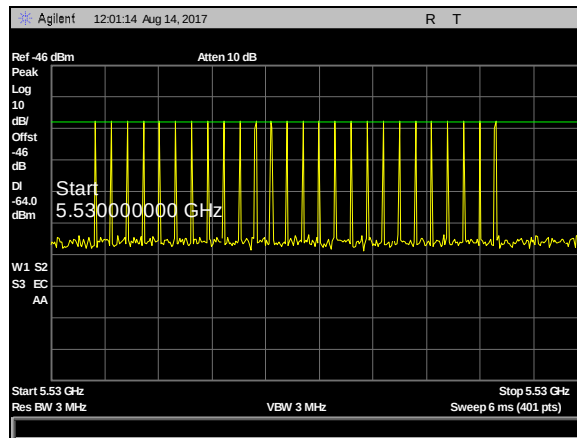
Plot 35. DFS Calibration Plots, Type 0 Calibration 5520 MHz, Sig Gen Level -23 dBm



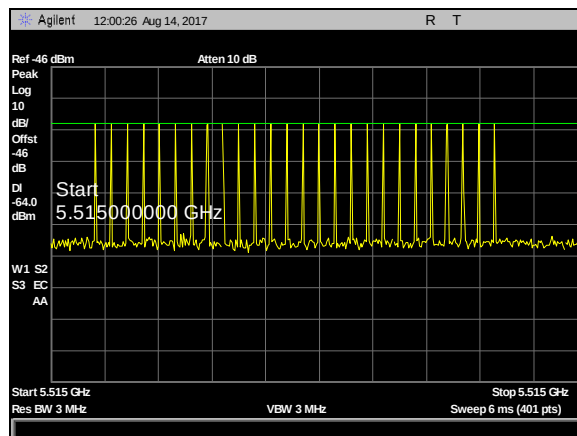
Plot 36. DFS Calibration Plots, Type 2 Calibration 5560 MHz, Sig Gen Level -23 dBm



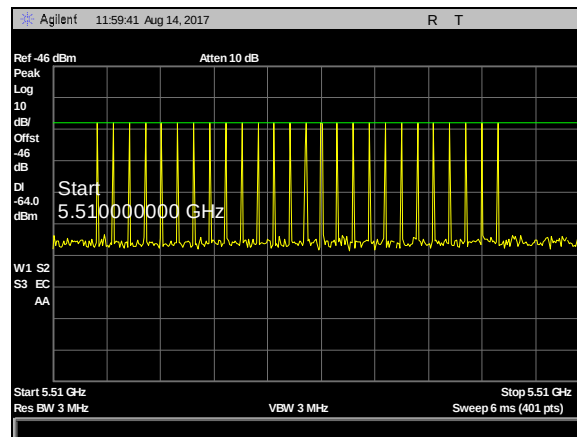
Plot 37. DFS Calibration Plots, Type 2 Calibration 5545 MHz, Sig Gen Level -21 dBm



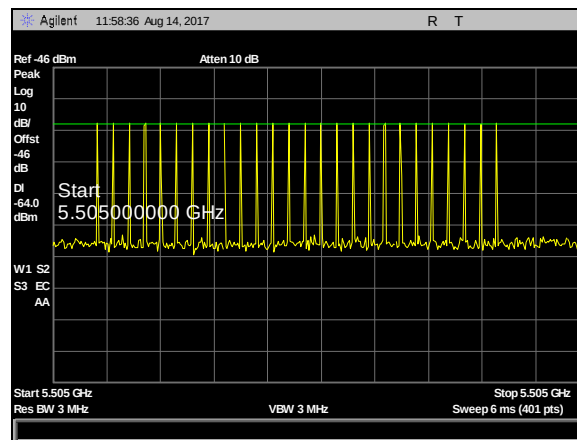
Plot 38. DFS Calibration Plots, Type 2 Calibration 5530 MHz, Sig Gen Level -23 dBm



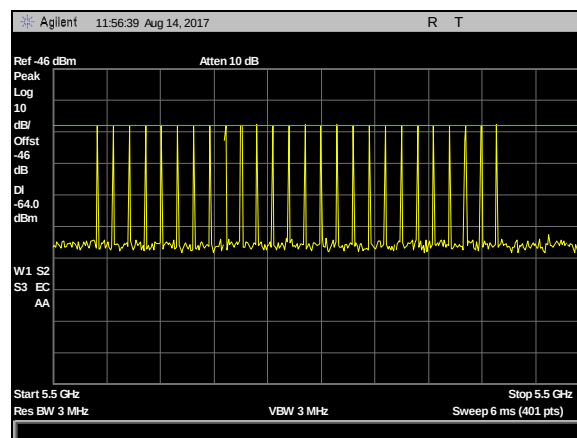
Plot 39. DFS Calibration Plots, Type 2 Calibration 5515 MHz, Sig Gen Level -23 dBm



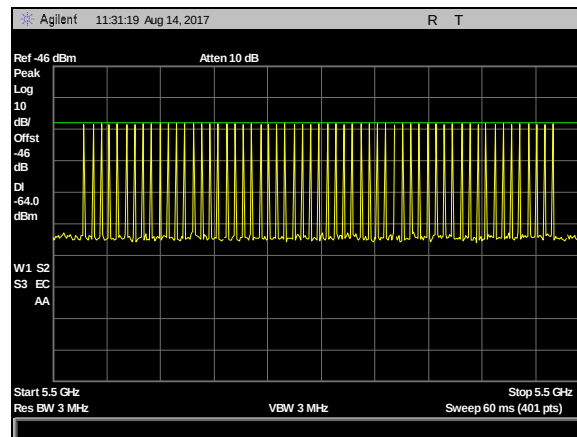
Plot 40. DFS Calibration Plots, Type 2 Calibration 5510 MHz, Sig Gen Level -23 dBm



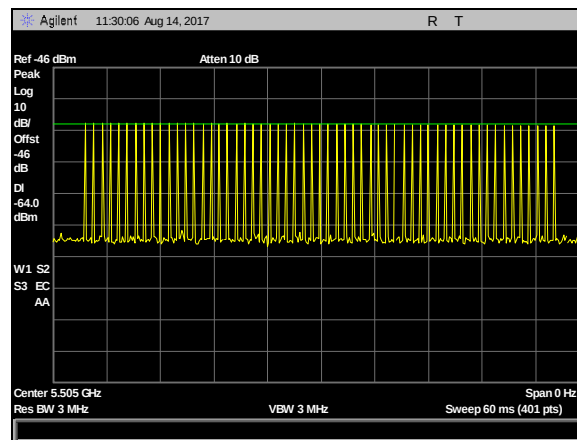
Plot 41. DFS Calibration Plots, Type 2 Calibration 5505 MHz, Sig Gen Level -23 dBm



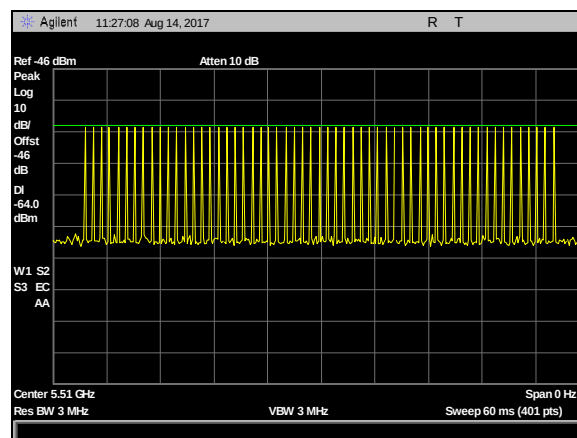
Plot 42. DFS Calibration Plots, Type 2 Calibration 5500 MHz, Sig Gen Level -23 dBm



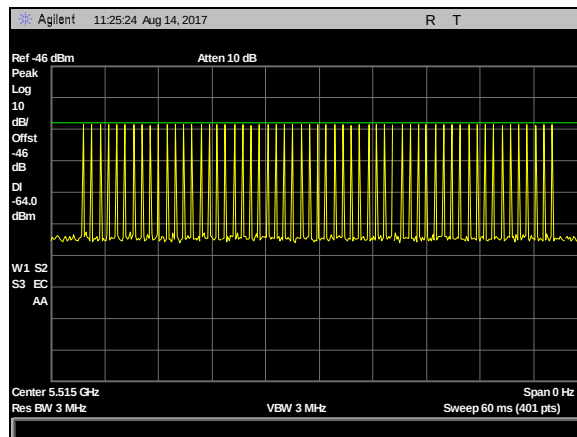
Plot 43. DFS Calibration Plots, Type 1 Calibration 5500 MHz, Sig Gen Level -23 dBm



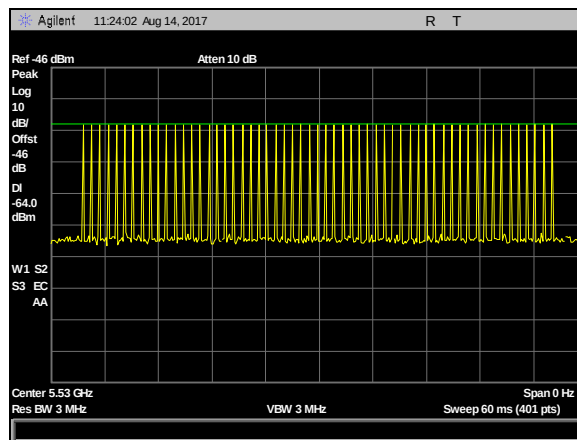
Plot 44. DFS Calibration Plots, Type 1 Calibration 5505 MHz, Sig Gen Level -23 dBm



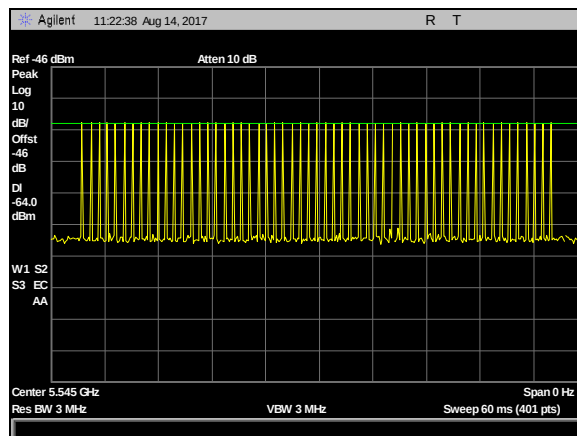
Plot 45. DFS Calibration Plots, Type 1 Calibration 5510 MHz, Sig Gen Level -23 dBm



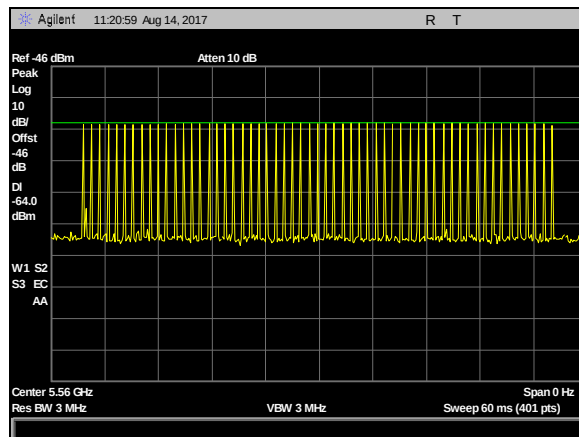
Plot 46. DFS Calibration Plots, Type 1 Calibration 5515 MHz, Sig Gen Level -23 dBm



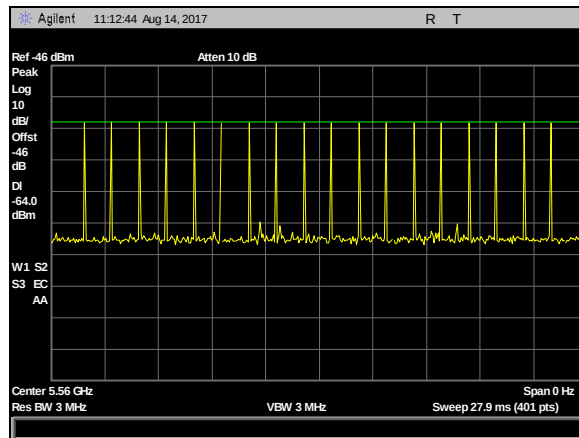
Plot 47. DFS Calibration Plots, Type 1 Calibration 5530 MHz, Sig Gen Level -23 dBm



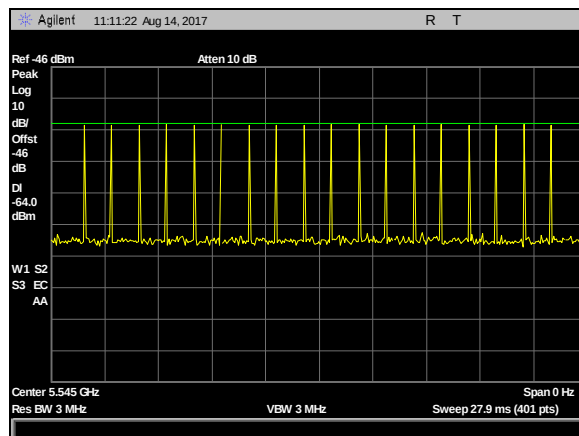
Plot 48. DFS Calibration Plots, Type 1 Calibration 5545 MHz, Sig Gen Level -23 dBm



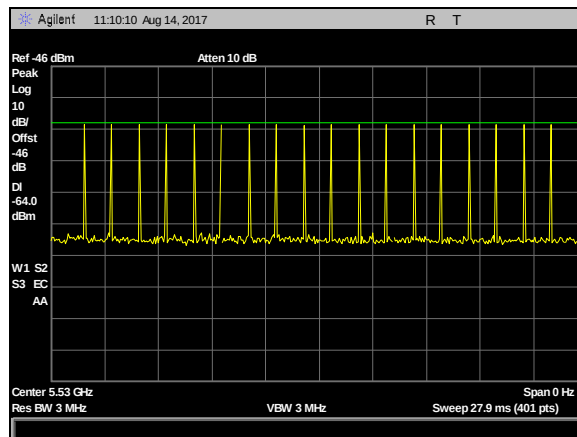
Plot 49. DFS Calibration Plots, Type 1 Calibration 5560 MHz, Sig Gen Level -23 dBm



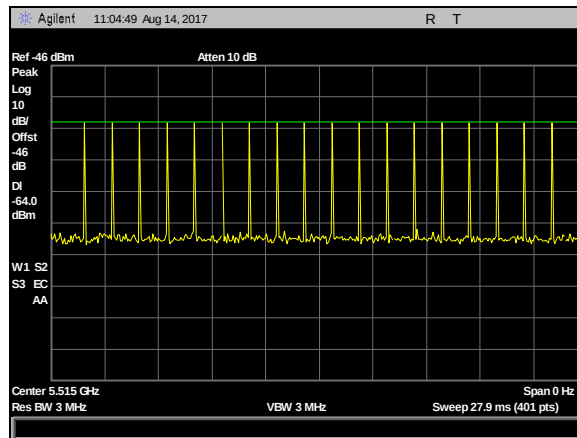
Plot 50. DFS Calibration Plots, Type 0 Calibration 5560 MHz, Sig Gen Level -23 dBm



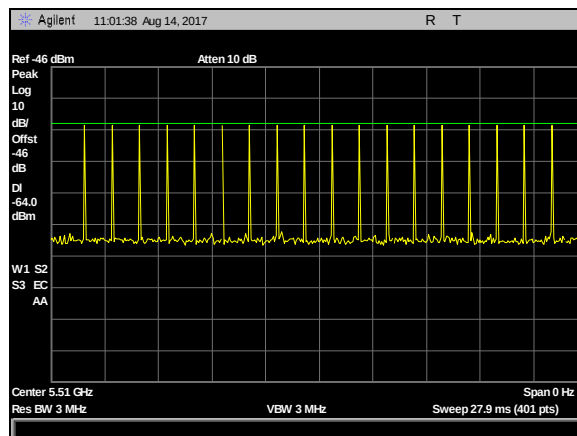
Plot 51. DFS Calibration Plots, Type 0 Calibration 5545 MHz, Sig Gen Level -23 dBm



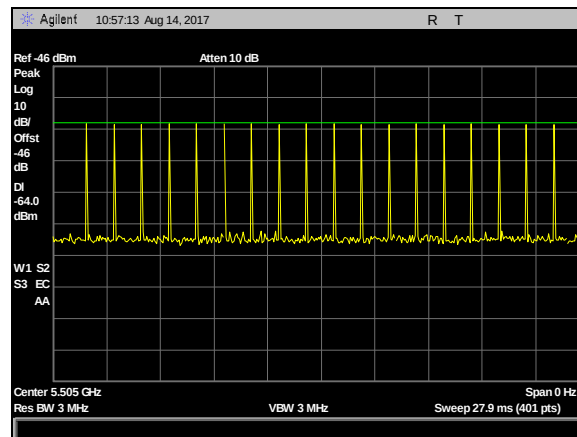
Plot 52. DFS Calibration Plots, Type 0 Calibration 5530 MHz, Sig Gen Level -23 dBm



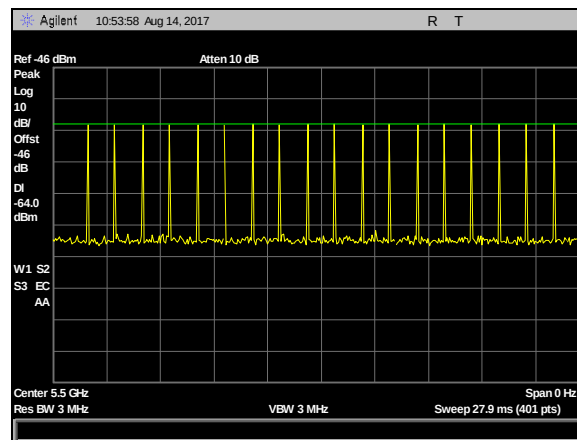
Plot 53. DFS Calibration Plots, Type 0 Calibration 5515 MHz, Sig Gen Level -23 dBm



Plot 54. DFS Calibration Plots, Type 0 Calibration 5510 MHz, Sig Gen Level -23 dBm



Plot 55. DFS Calibration Plots, Type 0 Calibration 5505 MHz, Sig Gen Level -23 dBm



Plot 56. DFS Calibration Plots, Type 0 Calibration 5500 MHz, Sig Gen Level -23 dBm

IV. DFS Test Procedure and Test Results

A. DFS Test Setup

1. A spectrum analyzer is used as a monitor to verify that the Unit Under Test (EUT) 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 subsequent Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.
2. The test setup, which consists of test equipment and equipment under test (EUT), is diagrammed in Figure 4.

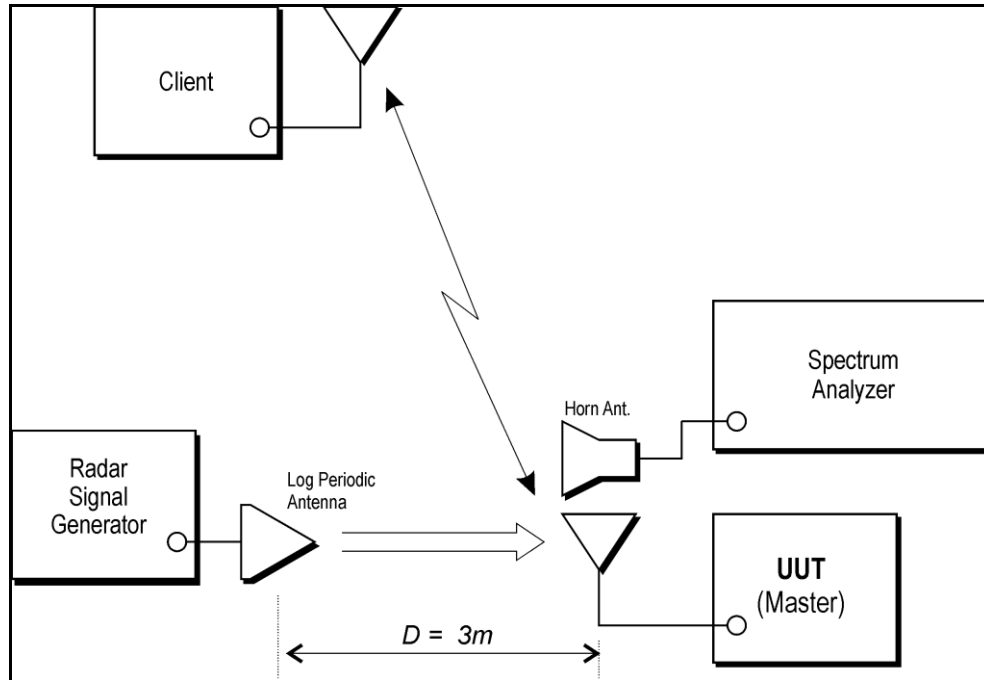


Figure 4. Test Setup Diagram

B. UNII Detection Bandwidth

Test Requirement(s): **KDB 905462 §5.1** All BW modes must be tested.

§5.3 A minimum 100% detection rate is required across a EUT's 99% bandwidth.

Test Procedure: The EUT was set up as a standalone device (no associated Client or Master, as appropriate) and no traffic.

A single radar burst of type 0 and the center frequency was generated and the response of the EUT was noted. This was repeated for a minimum of 10 trials. The minimum percentage of detection was 90%, as per the KDB 905462.

Starting at the center frequency of the EUT operating Channel, the radar frequency was increased in 5 MHz steps, repeating the minimum of 10 trials, until the detection rate fell below the U-NII Detection Bandwidth criterion (90%). The measurement was repeated in 1MHz steps at frequencies 5 MHz below where the detection rate began to fall. The highest frequency (denoted as F_H) at which detection was greater or equal than the U-NII Detection Bandwidth criterion (90%) was recorded.

Starting at the center frequency of the EUT operating Channel, the radar frequency was decreased in 5 MHz steps, repeating the minimum of 10 trials, until the detection rate fell below the U-NII Detection Bandwidth criterion (90%). The measurement was repeated in 1MHz steps at frequencies 5 MHz below where the detection rate began to fall. The lowest frequency (denoted as F_L) at which detection was greater or equal than the U-NII Detection Bandwidth criterion (90%) was recorded.

The U-NII Detection Bandwidth was calculated as follow:

U-NII Detection Bandwidth = F_H – F_L

Test Results: The EUT was compliant with the requirements of this section.

Test Engineer(s): Deepak Giri

Test Date(s): August 25, 2017

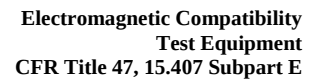


Table 12. 5500 MHz Detection Bandwidth, 20 MHz Channel, Test Results

EUT Frequency = 5505 MHz ; Bandwidth = 10 MHz											
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %
	Trials										
	1	2	3	4	5	6	7	8	9	10	
F_Low 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	0	1	1	1	1	1	1	90
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	90
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	0	1	1	90
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	0	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	0	1	1	90
5511	1	1	1	1	0	1	1	1	1	1	100
F_High 5512	1	1	0	1	1	1	1	0	1	1	100
Total Detection Percentage											97.33333
Detection Bandwidth = FH-FL = 5512 MHz - 5498 MHz = 14 MHz											
99 % Bandwidth = 9.3774 MHz											

Table 13. 5500 MHz Detection Bandwidth, 10 MHz Channel, Test Results

Radar Frequency MHz		EUT Frequency = 5510 MHz ; Bandwidth = 40 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
		1	2	3	4	5	6	7	8	9	10	
F_Low	5489	1	1	0	1	1	1	1	1	1	1	90
	5490	1	0	1	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	90
	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	0	1	1	1	1	1	90
	5504	1	1	1	1	1	1	1	1	1	1	100
	5505	1	1	1	1	1	1	1	0	1	1	90
	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	0	90
	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	0	1	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	90	
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	0	1	90	

	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	0	1	1	1	1	1	1	1	1	90
	5529	1	1	1	1	1	1	1	1	1	1	100
	5530	1	1	1	1	1	0	1	1	1	1	90
F_High	5531	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage												99.7619048
Detection Bandwidth = FH-FL = 5531 MHz - 5489MHz = 42 MHz												
99 % Bandwidth =37.4496 MHz												

Table 14. 5510 MHz Detection Bandwidth, 40 MHz Channel, Test Results

Radar Frequency MHz		EUT Frequency = 5515 MHz ; Bandwidth = 30 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
		1	2	3	4	5	6	7	8	9	10	
F_Low	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	0	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	1	90
	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	0	1	90
	5510	1	1	0	1	1	1	1	1	1	1	90
	5511	1	1	1	1	1	1	1	1	1	1	100
	5512	1	1	1	1	1	1	0	1	1	1	90
	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	0	1	1	1	1	1	1	90
	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	0	1	1	1	90
	5523	1	1	1	1	1	1	1	1	0	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5528	1	1	1	1	1	1	1	1	1	1	100
	5529	1	1	1	1	0	1	1	1	1	1	90
	5530	1	1	1	1	1	1	1	0	1	1	90
F_High	5531	1	1	1	1	1	1	1	1	0	1	90
Total Detection Percentage												99.375
Detection Bandwidth = FH-FL = 5531 MHz - 5499 MHz = 32 MHz												
99 % Bandwidth = 28.0841 MHz												

Table 15. 5515 MHz Detection Bandwidth, 30 MHz, Channel, Test Results

Radar Frequency MHz		EUT Frequency = 5520 MHz ; Bandwidth = 100 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
		1	2	3	4	5	6	7	8	9	10	
F_Low	5455	1	1	1	1	1	1	1	1	1	1	100
	5456	1	0	1	1	1	1	1	1	1	1	90
	5457	1	1	1	1	1	1	0	1	1	1	90
	5458	1	1	1	1	1	1	1	1	1	1	100
	5459	1	1	1	1	1	1	1	1	0	1	90
	5460	1	1	1	1	1	1	1	1	1	1	100
	5461	1	1	0	1	1	1	1	1	1	1	90
	5462	1	1	1	1	1	1	1	1	1	1	100
	5463	1	1	1	1	1	1	1	1	1	1	100
	5464	1	1	1	1	1	1	1	1	1	1	100
	5465	1	1	1	1	1	1	1	1	1	1	100
	5466	1	1	1	1	1	1	0	1	1	1	90
	5467	1	1	1	1	1	1	1	1	1	1	100
	5468	1	1	1	1	1	1	1	1	1	1	100
	5469	1	1	1	1	1	1	1	1	1	1	100
	5470	1	1	1	1	1	1	1	1	0	1	90
	5471	1	1	1	1	1	1	1	1	1	1	100
	5472	1	1	1	1	1	1	1	1	1	1	100
	5473	1	0	1	1	1	1	1	1	1	1	90
	5474	1	1	1	1	1	1	1	1	1	1	100
	5475	1	1	1	1	1	1	1	1	1	1	100
	5476	1	1	1	1	1	1	1	1	1	1	100
	5477	1	1	1	1	1	1	1	1	1	1	100
	5478	1	1	1	1	1	1	1	1	1	1	100
	5479	1	1	1	1	1	1	1	1	1	1	100
	5480	1	1	1	1	1	1	1	1	1	1	100
	5481	1	1	1	1	1	1	1	1	1	1	100
	5482	1	0	1	1	1	1	1	1	1	1	90
	5483	1	1	1	1	1	1	0	1	1	1	90
	5484	1	1	1	1	1	1	1	1	1	1	100
	5485	1	1	1	1	1	1	1	1	1	1	100
5486	1	1	1	1	1	1	1	1	1	1	100	
5487	1	1	1	1	1	1	1	1	1	1	100	
5488	1	1	1	1	0	1	1	1	1	1	90	
5489	1	1	1	1	1	1	1	1	1	1	100	
5490	1	1	1	1	1	1	1	1	1	1	100	
5491	1	1	1	1	1	1	1	1	1	1	100	

	5492	1	1	1	1	1	1	1	1	1	1	100
	5493	1	1	1	1	1	1	1	1	1	1	100
	5494	1	1	1	1	1	1	1	1	1	1	100
	5495	1	1	1	1	1	1	1	1	0	1	90
	5496	1	1	0	1	1	1	1	1	1	1	90
	5497	1	1	1	1	0	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	90
	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	0	1	1	90
	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	0	1	1	1	1	1	1	90
	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	0	1	1	90
	5521	1	1	1	1	1	1	1	1	1	1	100
	5522	1	1	0	1	1	1	1	1	1	1	90
	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	0	1	90
	5529	1	1	1	0	1	1	1	1	1	1	90
	5530	1	1	1	1	1	1	1	1	1	1	100
	5531	1	1	1	1	1	1	1	1	1	1	100
	5532	1	1	1	1	1	1	1	1	1	1	100
	5533	1	1	1	1	1	1	1	1	1	1	100

	5534	1	1	1	1	1	1	1	1	1	1	100
	5535	1	1	1	1	1	1	1	1	1	1	100
	5536	1	1	1	1	1	1	1	1	1	1	100
	5537	1	1	1	1	1	1	1	1	1	1	100
	5538	1	1	1	1	1	1	1	1	1	1	100
	5539	1	1	1	1	1	1	1	1	1	1	100
	5540	1	1	1	1	1	1	1	1	1	1	100
	5541	1	1	1	1	1	1	1	1	1	1	100
	5542	1	1	1	1	1	1	1	1	1	1	100
	5543	1	1	1	1	1	1	1	1	1	1	100
	5544	1	1	1	1	1	1	1	0	1	1	90
	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	0	1	1	1	1	1	1	1	1	1	90
	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	0	1	90
	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	0	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	90
	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	0	1	1	90
	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
	5571	1	1	1	1	1	1	1	1	1	1	100
	5572	1	1	1	1	1	1	1	1	0	1	90
	5573	1	1	1	1	1	1	1	1	1	1	100
	5574	1	1	1	1	1	1	1	1	1	1	100
	5575	1	1	0	1	1	1	1	1	1	1	90

	5576	1	1	1	1	1	1	1	1	1	1	100
	5577	1	1	1	1	1	1	1	1	1	1	100
	5578	1	1	1	1	1	1	1	1	1	1	100
	5579	0	1	1	1	1	1	1	1	1	1	100
F_High	5580	1	1	1	1	1	1	1	1	0	1	90
Total Detection Percentage												99.28
Detection Bandwidth = FH-FL = 5580MHz - 5455 MHz = 125 MHz												
99 % Bandwidth = 93.921 MHz												

Table 16. 5520 MHz Detection Bandwidth, 100 MHz Channel, Test Results

Radar Frequency MHz		EUT Frequency = 5530 MHz ; Bandwidth = 80 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
		1	2	3	4	5	6	7	8	9	10	
F_Low	5479	1	1	0	1	1	1	1	1	1	1	90
	5480	1	1	1	1	1	1	1	1	1	1	100
	5481	1	1	1	1	1	1	1	1	1	1	100
	5482	1	1	1	1	0	1	1	1	1	1	90
	5483	1	1	1	1	1	1	1	1	1	1	100
	5484	1	1	0	1	1	1	1	1	1	1	90
	5485	1	1	1	1	1	1	1	0	1	1	90
	5486	1	0	1	1	1	1	1	1	1	1	90
	5487	1	1	1	1	1	1	1	1	1	1	100
	5488	1	1	1	1	1	1	0	1	1	1	90
	5489	1	1	1	1	1	1	1	1	1	1	100
	5490	1	1	1	1	1	1	1	1	1	1	100
	5491	1	1	1	1	1	1	1	1	1	1	100
	5492	1	0	1	1	1	1	1	1	1	1	90
	5493	1	1	1	1	1	0	1	1	1	1	90
	5494	1	1	1	1	1	1	1	1	1	1	100
	5495	1	1	1	1	1	1	1	1	0	1	90
	5496	1	1	1	1	1	1	1	0	1	1	90
	5497	1	0	1	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5501	1	1	1	1	1	1	1	1	1	1	100
	5502	1	1	1	1	1	0	1	1	1	1	90
	5503	1	1	1	1	1	1	1	1	0	1	90
	5504	1	1	0	1	1	1	1	1	1	1	90
	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	0	1	1	1	90
	5508	1	1	1	1	1	1	1	1	1	1	100
	5509	1	1	0	1	1	1	1	1	1	1	90
5510	1	1	1	1	1	1	1	1	1	1	100	
5511	0	1	1	1	1	1	1	1	1	1	90	
5512	1	1	1	1	1	0	1	1	1	1	90	
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	0	1	1	1	1	1	90	

	5516	1	1	1	1	1	1	1	1	0	1	90
	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	0	1	1	1	1	1	1	1	1	90
	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	0	1	1	1	90
	5523	1	1	1	1	1	1	1	1	1	1	100
	5524	1	1	1	1	1	1	1	1	0	1	90
	5525	1	1	1	1	1	1	1	1	1	1	100
	5526	1	1	0	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	1	90
	5531	1	1	1	1	1	1	1	1	1	1	100
	5532	1	0	1	1	1	1	1	1	1	1	90
	5533	1	1	1	1	1	1	1	1	1	1	100
	5534	1	1	1	1	1	0	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5539	1	1	1	1	1	1	1	0	1	1	90
	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	0	90
	5543	1	1	1	1	1	1	1	1	1	1	100
	5544	1	0	1	1	1	1	1	1	1	1	90
	5545	1	1	1	0	1	1	1	1	1	1	90
	5546	1	1	1	1	1	1	0	1	1	1	90
	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	0	1	1	1	1	1	1	90
	5550	1	1	1	1	1	1	1	1	1	1	100
	5551	1	1	1	1	0	1	1	1	1	1	90
	5552	1	0	1	1	1	1	1	1	1	1	90
	5553	1	1	0	1	1	1	1	1	1	1	90
	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	0	1	90
	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	0	90
	5563	1	1	0	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5568	1	1	1	1	0	1	1	1	1	1	90
	5569	1	0	1	1	1	1	1	1	1	1	90
	5570	1	1	1	1	1	1	1	0	1	1	90
	5571	1	1	1	1	1	1	1	1	1	0	90
	5572	1	1	1	1	1	1	1	1	1	1	100
	5573	1	0	1	1	1	1	1	1	1	1	90
	5574	1	1	0	1	1	1	1	1	1	1	90
	5575	1	1	1	1	0	1	1	1	1	1	90
	5576	1	1	1	1	1	1	1	1	1	1	100
	5577	1	1	1	1	1	1	1	1	0	1	90
F_High	5578	1	1	1	1	1	0	1	1	1	1	90
Total Detection Percentage												96.86869
Detection Bandwidth = FH-FL = 5578 MHz - 5479 MHz = 99 MHz												
99 % Bandwidth = 74.983 MHz												

Table 17. 5530 MHz Detection Bandwidth, 80 MHz, Test Results

Radar Frequency MHz		EUT Frequency = 5545 MHz ; Bandwidth = 50 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
f_Low	5518	1	2	3	4	5	6	7	8	9	10	
	5519	1	1	1	1	1	1	1	1	1	1	100
	5520	1	1	0	1	1	1	1	1	1	1	90
	5521	1	1	1	1	0	1	1	1	1	1	90
	5522	1	1	1	1	1	1	0	1	1	1	90
	5523	0	1	1	1	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	90
	5527	1	1	1	1	1	1	1	0	1	1	90
	5528	1	1	1	1	1	1	1	1	1	1	100
	5529	0	1	1	1	1	1	1	1	1	1	90
	5530	1	1	1	1	1	1	1	1	1	1	100
	5531	1	1	0	1	1	1	1	1	1	1	90
	5532	1	1	1	1	1	1	1	1	1	1	100
	5533	1	1	1	1	1	1	0	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	90
	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	0	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	0	1	1	1	1	1	90	
5550	1	1	1	1	1	1	1	1	1	1	100	
5551	1	1	1	1	1	1	0	1	1	1	90	
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	0	1	1	1	1	1	1	1	1	90
	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	0	1	90
	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	0	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	1	100
	5571	1	1	0	1	1	1	1	1	1	1	90
F_High	5572	1	1	1	1	1	1	1	0	1	1	90
Total Detection Percentage												96.48148
Detection Bandwidth = FH-FL = 5572 MHz - 5518 MHz = 54 MHz												
99 % Bandwidth = 47.018 MHz												

Table 18. 5545 MHz Detection Bandwidth, 50 MHz Channel, Test Results

Radar Frequency MHz		EUT Frequency = 5560 MHz ; Bandwidth = 60 MHz										Detection Rate %
		DFS Detection Trials (1 = Detection, 0 = No Detection)										
		Trials										
		1	2	3	4	5	6	7	8	9	10	
F_Low	5528	1	1	1	0	1	1	1	1	1	1	90
	5529	0	1	1	1	1	1	1	1	1	1	90
	5530	1	1	1	1	1	1	1	1	1	1	100
	5531	1	1	1	1	1	1	1	1	1	1	100
	5532	1	1	1	1	1	1	1	1	1	1	100
	5533	1	1	1	1	1	1	1	1	1	1	100
	5534	1	1	1	1	1	1	1	1	1	1	100
	5535	1	1	1	1	1	1	1	1	1	1	100
	5536	1	1	1	1	1	1	1	1	1	1	100
	5537	1	1	1	0	1	1	1	1	1	1	90
	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	0	1	1	1	1	1	1	1	1	90
	5544	1	1	1	1	1	1	1	1	1	1	100
	5545	1	1	1	1	1	1	1	1	0	1	90
	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	0	1	1	1	1	1	1	1	1	1	90
	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	0	1	90
	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	0	1	1	1	1	90	
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	0	1	1	1	1	1	1	1	1	90
	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	0	1	1	90
	5571	1	1	1	1	1	1	1	1	1	1	100
	5572	1	1	1	1	1	1	1	1	1	1	100
	5573	1	1	1	1	1	1	1	1	1	1	100
	5574	1	1	1	1	1	1	1	1	1	1	100
	5575	1	1	1	1	1	1	1	1	1	0	90
	5576	1	1	1	1	1	1	1	1	1	1	100
	5577	1	1	1	1	1	1	1	1	1	1	100
	5578	1	1	1	1	1	1	1	1	1	1	100
	5579	1	1	1	1	1	1	1	1	1	1	100
	5580	1	0	1	1	1	1	1	1	1	1	90
	5581	1	1	1	1	1	1	1	1	1	1	100
	5582	1	1	1	1	1	1	1	1	1	1	100
	5583	1	1	1	1	1	1	1	1	1	1	100
	5584	1	1	1	1	1	1	1	1	1	1	100
	5585	1	0	1	1	1	1	1	1	1	1	90
	5586	1	1	1	1	1	1	1	1	1	1	100
	5587	1	1	1	1	1	1	1	1	1	1	100
	5588	1	1	1	1	1	1	1	1	1	1	100
	5589	1	1	1	1	1	1	1	1	1	1	100
	5590	1	1	1	1	0	1	1	1	1	1	90
	5591	0	1	1	1	1	1	1	1	1	1	90
F_High	5592	1	1	1	1	0	1	1	1	1	1	90
Total Detection Percentage												99.0625
Detection Bandwidth = FH-FL = 5592 MHz - 5528 MHz = 64 MHz												
99 % Bandwidth = 56.394 MHz												

Table 19. 5560 MHz Detection Bandwidth, 60 Hz, Test Results

C. Channel Availability Check Time

Test Requirements: §15.407(h)(2)(ii) A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

Test Procedure: The spectrum analyzer was set to a zero span mode with a 3 MHz RBW and 3 MHz VBW on the test channel with a 2.5 minute sweep time. The spectrum analyzer's sweep was started at the same time power was applied to the U-NII device.

For the initial Channel Availability Check Time no radar burst was generated and the EUT was monitored for how long after startup transmission started.

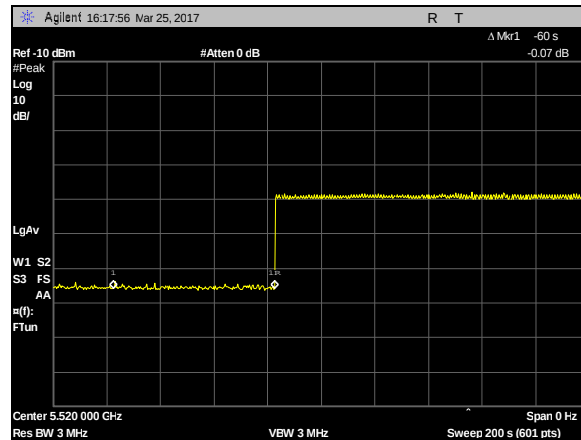
For radar burst at the beginning of the Channel Availability Check Time a short pulse radar type (0-4) with a level equal to the DFS Detection Threshold + 1 dB was generated within the first 6 seconds of the EUT's channel availability check. The EUT was monitored to ensure that it did not start transmitting on the channel.

For radar burst at the end of the Channel Availability Check Time a short pulse radar type (0-4) with a level equal to the DFS Detection Threshold + 1 dB was generated within the last 6 seconds of the EUT's channel availability check. The EUT was monitored to ensure that it did not start transmitting on the channel.

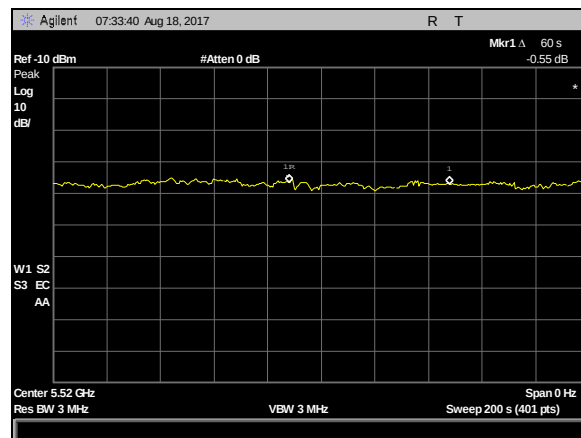
Test Results: The EUT was compliant with the requirements of this section.

Test Engineer(s): Deepak Giri

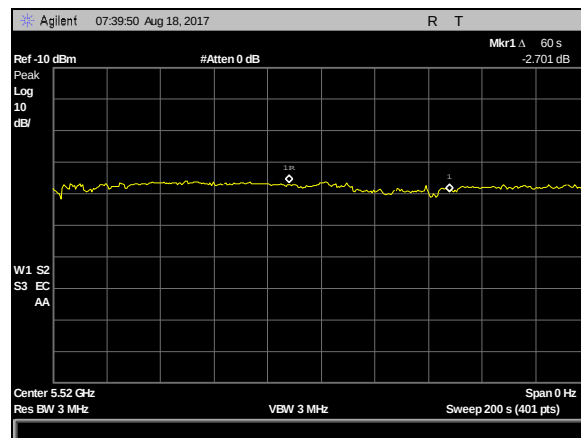
Test Date(s): September 6, 2017



Plot 57. Initial Channel Availability Check Time, 5520 MHz, 100 MHz Bw Channel



Plot 58. Radar atCAC Start,



Plot 59. Radar at CAC End

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

Test Requirements: **§15.407(h)(2)(iii)** Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

§15.407(h)(2)(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

KDB 905462 §5.1 Test using widest BW mode available.

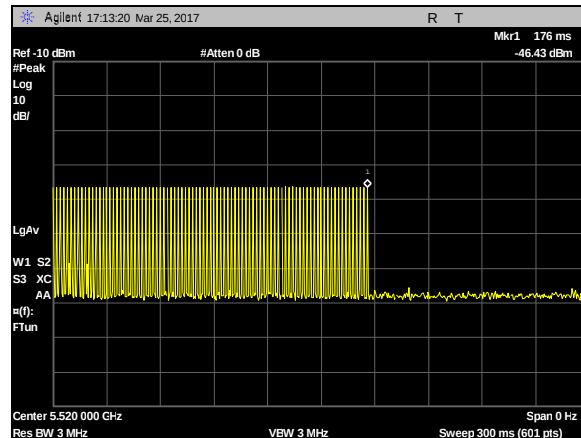
Test Procedure: The EUT was setup as a Master device and associated with a Client device. A test file was streamed from the Master device to the Client device for the entire period of the test. A Radar Burst of type 0 with a level equal to the DFS Detection Threshold + 1 dB was used.

A radar pulse was generated while the EUT was transmitting. A spectrum analyzer set to a zero span was used to observe the transmission of the EUT at the end of the burst.

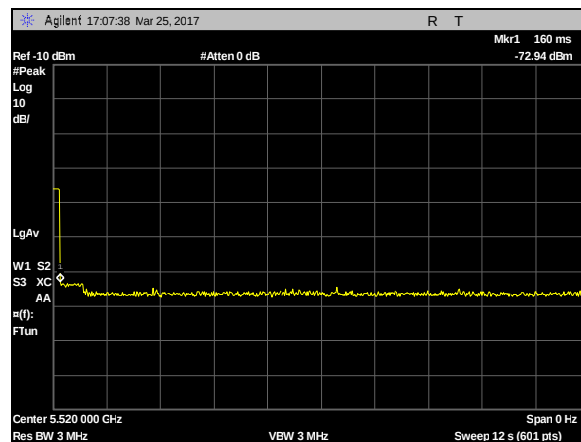
Test Results: The EUT was compliant with the requirements of this section.

Test Engineer(s): Deepak Giri

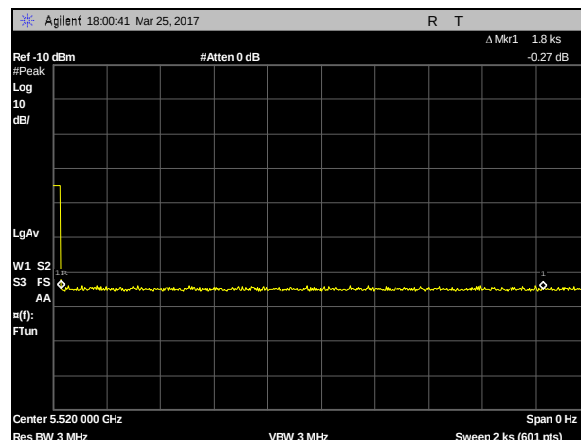
Test Date(s): September 6, 2017



Plot 60. Channel Close Time



Plot 61. Channel Move Time



Plot 62. Non-Occupancy Period,

E. Statistical Performance Check

Test Requirements: **KDB 905462 §5.1** All BW modes must be tested.

KDB 905462: Each of the Radar Pulse types requires a minimum percentage of detections while the EUT is transmitting and listening for potential radar systems operating within the DFS Detection Bandwidth.

For Short Pulse Radar types the aggregate minimum percentage of detections is 80 percent.

For the Long Pulse Radar types the minimum percentage of detections is 80 percent.

For the Frequency Hopping Radar type the minimum percentage of detections is 70 percent.

Test Procedure:

The EUT was setup as a Master device and associated with a Client device. A test file was streamed from the Master device to the Client device for the entire period of the test. The EUT was also set to a test mode as to demonstrate when the detection occurred without resetting the device between trials.

A Radar Burst of each type (1-6) with a level equal to the DFS Detection Threshold + 1 dB was used. The frequencies selected for the radar burst included several frequencies within the DFS Detection Bandwidth and frequencies near the edge of the bandwidth.

For Short Pulse Radar types, an observation of the EUT's transmission was made for duration greater than 10 seconds after the burst to ensure detection occurred.

For Long Pulse Radar types, an observation of the EUT's transmission was made for duration greater than 10 seconds after the burst to ensure detection occurred. Also, center frequencies for the 30 trials were randomly selected within 80% of the Occupied Bandwidth.

Once the performance check was completed, statistical data was gathered as to determine the ability of the EUT to detect radar waveforms. An aggregate total for the Short Pulse Radar detections was calculated.

Test Results: The EUT was compliant with the requirements of this section.

Test Engineer(s): Deepak Giri

Test Date(s): September 5, 2017

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Frequency					5500 MHz
Radar Frequency					5493 - 5507 MHz

Table 20. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Frequency					5500 MHz
Radar Frequency					5493 - 5507 MHz

Table 21. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Frequency					5500 MHz
Radar Frequency					5493 - 5507 MHz

Table 22. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Frequency					5500 MHz
Radar Frequency					5493 - 5507 MHz

Table 23. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 4

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 24. Statistical Performance Check, 5500 MHz, 20 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	0
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	0
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	1
	27	18	0.6666667	12	1
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	0
Detection Percentage					90% (> 80%)
EUT Frequency					5500 MHz
Radar Frequency					5493 - 5507 MHz

Table 25. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Frequency						5500 MHz
Radar Frequency						5493 - 5507 MHz

Table 26. Statistical Performance Check, 5500 MHz, 20 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Frequency					5505 MHz
Radar Frequency					5501 - 5509 MHz

Table 27. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Frequency					5505 MHz
Radar Frequency					5501 - 5509 MHz

Table 28. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Frequency					5505 MHz
Radar Frequency					5501 - 5509 MHz

Table 29. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Frequency					5505 MHz
Radar Frequency					5501 - 5509 MHz

Table 30. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 31. Statistical Performance Check, 5505 MHz, 10 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	1
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	1
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	0
	26	10	1.2	12	1
	27	18	0.6666667	12	0
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					93% (> 80%)
EUT Frequency					5505 MHz
Radar Frequency					5501 - 5509 MHz

Table 32. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Frequency						5505 MHz
Radar Frequency						5501 - 5509 MHz

Table 33. Statistical Performance Check, 5505 MHz, 10 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5510 MHz
Radar Frequency					5495 - 5525 MHz

Table 34. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5510 MHz
Radar Frequency					5495 - 5525 MHz

Table 35. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5510 MHz
Radar Frequency					5495 - 5525 MHz

Table 36. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5510 MHz
Radar Frequency					5495 - 5525 MHz

Table 37. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 38. Statistical Performance, 5510 MHz, 40 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	1
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	1
	21	20	0.6	12	0
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	1
	27	18	0.6666667	12	1
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					97% (> 80%)
EUT Test Frequency					5510 MHz
Radar Frequency					5495 - 5525 MHz

Table 39. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5510 MHz
Radar Frequency						5495 - 5525 MHz

Table 40. Statistical Performance, 5510 MHz, 40 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5520 MHz
Radar Frequency					5480 - 5560 MHz

Table 41. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5520 MHz
Radar Frequency					5480 - 5560 MHz

Table 42. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 μ sec	PRI 200-500 μ sec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5520 MHz
Radar Frequency					5480 - 5560 MHz

Table 43. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5520 MHz
Radar Frequency					5480 - 5560 MHz

Table 44. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 4

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 45. Statistical Performance Check, 5520 MHz, 100 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	1
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	0
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	1
	21	20	0.6	12	1
	22	9	1.3333333	12	0
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	0
	27	18	0.6666667	12	1
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					90% (> 80%)
EUT Test Frequency					5520 MHz
Radar Frequency					5480 - 5560 MHz

Table 46. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5520 MHz
Radar Frequency						5480 - 5560 MHz

Table 47. Statistical Performance Check, 5520 MHz, 100 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5530 MHz
Radar Frequency					5500 - 5560 MHz

Table 48. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5530 MHz
Radar Frequency					5500 - 5560 MHz

Table 49. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 μ sec	PRI 200-500 μ sec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5530 MHz
Radar Frequency					5500 - 5560 MHz

Table 50. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5530 MHz
Radar Frequency					5500 - 5560 MHz

Table 51. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 52. Statistical Performance, 5530 MHz, 80 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	0
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	0
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	0
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	1
	27	18	0.6666667	12	1
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					90% (> 80%)
EUT Test Frequency					5530 MHz
Radar Frequency					5500 - 5560 MHz

Table 53. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5530 MHz
Radar Frequency						5500 - 5560 MHz

Table 54. Statistical Performance, 5530 MHz, 80 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5545 MHz
Radar Frequency					5525 - 5565 MHz

Table 55. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5545 MHz
Radar Frequency					5525 - 5565 MHz

Table 56. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5545 MHz
Radar Frequency					5525 – 5565 MHz

Table 57. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5545 MHz
Radar Frequency					5525 - 5565 MHz

Table 58. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 59. Statistical Performance Check, 5545 MHz, 50 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	0
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	0
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	0
	27	18	0.6666667	12	1
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					90% (> 80%)
EUT Test Frequency					5545 MHz
Radar Frequency					5525 - 5565 MHz

Table 60. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (µsec)	PRI (µsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5545 MHz
Radar Frequency						5525 - 5565 MHz

Table 61. Statistical Performance Check, 5545 MHz, 50 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5560 MHz
Radar Frequency					5536 - 5584 MHz

Table 62. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5560 MHz
Radar Frequency					5536 - 5584 MHz

Table 63. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5560 MHz
Radar Frequency					5536 - 5584 MHz

Table 64. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5560 MHz
Radar Frequency					5536 - 5584 MHz

Table 65. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 66. Statistical Performance Check, 5560 MHz, 60 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	1
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	1
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	1
	20	17	0.7058824	12	1
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	1
	27	18	0.6666667	12	0
	28	11	1.0909091	12	1
	29	18	0.6666667	12	1
	30	19	0.6315789	12	0
Detection Percentage					93% (> 80%)
EUT Test Frequency					5560 MHz
Radar Frequency					5536 - 5584 MHz

Table 67. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (µsec)	PRI (µsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5560 MHz
Radar Frequency						5536 - 5584 MHz

Table 68. Statistical Performance Check, 5560 MHz, 60 MHz, Radar Type 6

Radar Type	Trial #	Pulses Repetition Frequency Number (1-23)	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (µsec)	Detection
					1 = Yes, 0 = No
1	1	9	1139.0	878	1
	2	14	1567.4	638	1
	3	2	1792.1	558	1
	4	5	1165.5	858	1
	5	15	1253.1	798	1
	6	19	1519.8	658	1
	7	8	1432.7	698	1
	8	1	1730.1	578	1
	9	11	1618.1	618	1
	10	18	1319.3	758	1
	11	3	1858.7	538	1
	12	22	1222.5	818	1
	13	7	1193.3	838	1
	14	17	326.2	3066	1
	15	4	1355.0	738	1
	16	n/a	545.3	1834	1
	17	n/a	445.0	2247	1
	18	n/a	522.7	1913	1
	19	n/a	441.9	2263	1
	20	n/a	1455.6	687	1
	21	n/a	397.1	2518	1
	22	n/a	362.8	2756	1
	23	n/a	1572.3	636	1
	24	n/a	564.0	1773	1
	25	n/a	335.6	2980	1
	26	n/a	390.5	2561	1
	27	n/a	459.3	2177	1
	28	n/a	371.6	2691	1
	29	n/a	457.5	2186	1
	30	n/a	563.1	1776	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5515 MHz
Radar Frequency					5500 - 5530 MHz

Table 69. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 1

Radar Type	Trial #	Pulse Width 1- 5 μ sec	PRI 150-230 μ sec	Number of Pulses 23-29	Detection
					1 = Yes, 0 = No
2	1	2	171	24	1
	2	1.4	170	23	1
	3	2.9	174	26	1
	4	4.1	185	28	1
	5	3.6	187	27	1
	6	2.7	195	26	1
	7	2.4	203	25	1
	8	4.8	181	29	1
	9	1.4	213	23	1
	10	3.6	155	27	1
	11	1.1	180	23	1
	12	2	218	24	1
	13	2.3	226	25	1
	14	5	167	29	1
	15	3.7	217	27	1
	16	3.6	229	27	1
	17	2.1	211	24	1
	18	3.5	186	27	1
	19	3.8	161	27	1
	20	3.8	157	27	1
	21	4.8	193	29	1
	22	1.3	194	23	1
	23	1.6	177	24	1
	24	2.5	225	25	1
	25	4.2	230	28	1
	26	1.6	150	24	1
	27	4.2	206	28	1
	28	2.2	163	25	1
	29	4.3	158	28	1
	30	4.6	209	29	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5515 MHz
Radar Frequency					5500 - 5530 MHz

Table 70. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 2

Radar Type	Trial #	Pulse Width 6-10 µsec	PRI 200-500 µsec	Number of Pulses 16-18	Detection
					1 = Yes, 0 = No
3	1	7	418	16	1
	2	6.4	308	16	1
	3	7.9	392	17	1
	4	9.1	478	18	1
	5	8.6	306	17	1
	6	7.7	235	17	1
	7	7.4	404	17	1
	8	9.8	435	18	1
	9	6.4	469	16	1
	10	8.6	461	17	1
	11	6.1	423	16	1
	12	7	428	16	1
	13	7.3	349	16	1
	14	10	348	18	1
	15	8.7	463	18	1
	16	8.6	380	17	1
	17	7.1	383	16	1
	18	8.5	249	17	1
	19	8.8	270	18	1
	20	8.8	210	18	1
	21	9.8	477	18	1
	22	6.3	389	16	1
	23	6.6	370	16	1
	24	7.5	449	17	1
	25	9.2	322	18	1
	26	6.6	361	16	1
	27	9.2	204	18	1
	28	7.2	395	16	1
	29	9.3	298	18	1
	30	9.6	236	18	1
Detection Percentage					100% (>60%)
EUT Test Frequency					5515 MHz
Radar Frequency					5500 - 5530 MHz

Table 71. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 3

Radar Type	Trial #	Pulse Width 11-20 μ sec	PRI 200-500 μ sec	Number of Pulses 12-16	Detection
					1 = Yes, 0 = No
4	1	13.2	418	13	1
	2	12	308	12	1
	3	15.2	392	14	1
	4	18	478	15	1
	5	16.9	306	15	1
	6	14.9	235	14	1
	7	14.2	404	13	1
	8	19.5	435	16	1
	9	11.9	469	12	1
	10	16.8	461	15	1
	11	11.2	423	12	1
	12	13.2	428	13	1
	13	13.9	349	13	1
	14	20	348	16	1
	15	17.2	463	15	1
	16	16.9	380	15	1
	17	13.5	383	13	1
	18	16.5	249	15	1
	19	17.4	270	15	1
	20	17.3	210	15	1
	21	19.6	477	16	1
	22	11.8	389	12	1
	23	12.4	370	12	1
	24	14.4	449	13	1
	25	18.2	322	15	1
	26	12.5	361	12	1
	27	18.2	204	15	1
	28	13.7	395	13	1
	29	18.4	298	16	1
	30	9.6	236	18	1
Detection Percentage					100% (> 60%)
EUT Test Frequency					5515 MHz
Radar Frequency					5500 - 5530 MHz

Table 72. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 4

Radars Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detections
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate = (100% + 100% + 100% + 100%)/4 = 100%			

Table 73. Statistical Performance Check, 5515 MHz, 30 MHz, Aggregate

Radar Type	Trial #	Pulse Width (µsec) 50-100	PRI (µsec) 1000-2000	Number of Bursts 8-20	Detection
					1 = Yes, 0 = No
5	1	11	1.0909091	12	1
	2	9	1.3333333	12	1
	3	14	0.8571429	12	1
	4	18	0.6666667	12	1
	5	16	0.75	12	1
	6	13	0.9230769	12	0
	7	12	1	12	1
	8	20	0.6	12	1
	9	9	1.3333333	12	1
	10	16	0.75	12	1
	11	8	1.5	12	1
	12	11	1.0909091	12	1
	13	12	1	12	1
	14	20	0.6	12	1
	15	16	0.75	12	1
	16	16	0.75	12	1
	17	11	1.0909091	12	1
	18	15	0.8	12	1
	19	17	0.7058824	12	0
	20	17	0.7058824	12	1
	21	20	0.6	12	1
	22	9	1.3333333	12	1
	23	10	1.2	12	1
	24	12	1	12	1
	25	18	0.6666667	12	1
	26	10	1.2	12	1
	27	18	0.6666667	12	1
	28	11	1.0909091	12	0
	29	18	0.6666667	12	1
	30	19	0.6315789	12	1
Detection Percentage					90% (> 80%)
EUT Test Frequency					5515 MHz
Radar Frequency					5500 - 5530 MHz

Table 74. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 5

Radar Type	Trial #	Frequency (MHz)	Pulses/Hop	Pulse Width (μsec)	PRI (μsec)	Detection
						1 = Yes, 0 = No
6	1	5494-5526	9	1	333	1
	2	5494-5526	9	1	333	1
	3	5494-5526	9	1	333	1
	4	5494-5526	9	1	333	1
	5	5494-5526	9	1	333	1
	6	5494-5526	9	1	333	1
	7	5494-5526	9	1	333	1
	8	5494-5526	9	1	333	1
	9	5494-5526	9	1	333	1
	10	5494-5526	9	1	333	1
	11	5494-5526	9	1	333	1
	12	5494-5526	9	1	333	1
	13	5494-5526	9	1	333	1
	14	5494-5526	9	1	333	1
	15	5494-5526	9	1	333	1
	16	5494-5526	9	1	333	1
	17	5494-5526	9	1	333	1
	18	5494-5526	9	1	333	1
	19	5494-5526	9	1	333	1
	20	5494-5526	9	1	333	1
	21	5494-5526	9	1	333	1
	22	5494-5526	9	1	333	1
	23	5494-5526	9	1	333	1
	24	5494-5526	9	1	333	1
	25	5494-5526	9	1	333	1
	26	5494-5526	9	1	333	1
	27	5494-5526	9	1	333	1
	28	5494-5526	9	1	333	1
	29	5494-5526	9	1	333	1
	30	5494-5526	9	1	333	1
Detection Percentage						100% (> 70%)
EUT Test Frequency						5515 MHz
Radar Frequency						5500 - 5530 MHz

Table 75. Statistical Performance Check, 5515 MHz, 30 MHz, Radar Type 6

V. Test Equipment

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

Asset	Equipment	Manufacturer	Model	Calibration Date	Calibration Due Date
1T4496	Signal Generator	Agilent Technologies	33220A	4/24/2017	10/24/2018
1T4503	Shielded Room	Universal Shielding Corp	N/A	Not Required	
1T4771	PSA Spectrum Analyzer	Agilent Technologies	E4446A	8/10/2016	2/10/2018
1T2665	Antenna; Horn	EMCO	3115	6/22/2017	12/22/2018
1T4483	Antenna; Horn	ETS-Lindgren	3117	4/19/2017	10/19/2018
1T8743	Preamplifier	A.H. Systems, Inc.	PAM-0118P	See Note	
1T4906	Digital Barometer, Hygrometer, Thermometer	Control Company	06-662-4	1/15/2016	1/15/2018

Table 76. Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

VI. Certification & User's Manual Information

Certification & User's Manual Information

L. Certification Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart I — Marketing of Radio frequency devices:

§ 2.801 Radio-frequency device defined.

As used in this part, a radio-frequency device is any device which in its operation is capable of Emitting radio-frequency energy by radiation, conduction, or other means. Radio- frequency devices include, but are not limited to:

- (a) The various types of radio communication transmitting devices described throughout this chapter.
- (b) *The incidental, unintentional and intentional radiators defined in Part 15 of this chapter.*
- (c) The industrial, scientific, and medical equipment described in Part 18 of this chapter.
- (d) Any part or component thereof which in use emits radio-frequency energy by radiation, conduction, or other means.

§ 2.803 Marketing of radio frequency devices prior to equipment authorization.

- (a) Except as provided elsewhere in this chapter, no person shall sell or lease, or offer for sale or lease (including advertising for sale or lease), or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any radio frequency device unless:
 - (1) In the case of a device subject to certification, such device has been authorized by the Commission in accordance with the rules in this chapter and is properly identified and labeled as required by §2.925 and other relevant sections in this chapter; or
 - (2) In the case of a device that is not required to have a grant of equipment authorization issued by the Commission, but which must comply with the specified technical standards prior to use, such device also complies with all applicable administrative (including verification of the equipment or authorization under a Declaration of Conformity, where required), technical, labeling and identification requirements specified in this chapter.
- (d) Notwithstanding the provisions of paragraph (a) of this section, the offer for sale solely to business, commercial, industrial, scientific or medical users (but not an offer for sale to other parties or to end users located in a residential environment) of a radio frequency device that is in the conceptual, developmental, design or pre-production stage is permitted prior to equipment authorization or, for devices not subject to the equipment authorization requirements, prior to a determination of compliance with the applicable technical requirements *provided* that the prospective buyer is advised in writing at the time of the offer for sale that the equipment is subject to the FCC rules and that the equipment will comply with the appropriate rules before delivery to the buyer or to centers of distribution.

- (e)(1) Notwithstanding the provisions of paragraph (a) of this section, prior to equipment authorization or determination of compliance with the applicable technical requirements any radio frequency device may be operated, but not marketed, for the following purposes and under the following conditions:
- (i) *Compliance testing;*
 - (ii) Demonstrations at a trade show provided the notice contained in paragraph (c) of this section is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iii) Demonstrations at an exhibition conducted at a business, commercial, industrial, scientific or medical location, but excluding locations in a residential environment, provided the notice contained in paragraphs (c) or (d) of this section, as appropriate, is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iv) Evaluation of product performance and determination of customer acceptability, provided such operation takes place at the manufacturer's facilities during developmental, design or pre-production states; or
 - (v) Evaluation of product performance and determination of customer acceptability where customer acceptability of a radio frequency device cannot be determined at the manufacturer's facilities because of size or unique capability of the device, provided the device is operated at a business, commercial, industrial, scientific or medical user's site, but not at a residential site, during the development, design or pre-production stages.
- (e)(2) For the purpose of paragraphs (e)(1)(iv) and (e)(1)(v) of this section, the term *manufacturer's facilities* includes the facilities of the party responsible for compliance with the regulations and the manufacturer's premises, as well as the facilities of other entities working under the authorization of the responsible party in connection with the development and manufacture, but not the marketing, of the equipment.
- (f) For radio frequency devices subject to verification and sold solely to business, commercial, industrial, scientific and medical users (excluding products sold to other parties or for operation in a residential environment), parties responsible for verification of the devices shall have the option of ensuring compliance with the applicable technical specifications of this chapter at each end user's location after installation, provided that the purchase or lease agreement includes a proviso that such a determination of compliance be made and is the responsibility of the party responsible for verification of the equipment.

Certification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart J — Equipment Authorization Procedures:

§ 2.901 Basis and Purpose

- (a) In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment and parts or components thereof. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the equipment is to be operated.¹ *In addition to the technical standards provided, the rules governing the service may require that such equipment be verified by the manufacturer or importer, be authorized under a Declaration of Conformity, or receive an equipment authorization from the Commission by one of the following procedures: certification or registration.*
- (b) The following sections describe the verification procedure, the procedure for a Declaration of Conformity, and the procedures to be followed in obtaining certification from the Commission and the conditions attendant to such a grant.

§ 2.907 Certification.

- (a) Certification is an equipment authorization issued by the Commission, based on representation and test data submitted by the applicant.
- (b) Certification attaches to all units subsequently marketed by the grantee which are identical (see Section 2.908) to the sample tested except for permissive changes or other variations authorized by the Commission pursuant to Section 2.1043.

¹ In this case, the equipment is subject to the rules of Part 15. More specifically, the equipment falls under Subpart B (of Part 15), which deals with unintentional radiators.

Certification & User's Manual Information

§ 2.948 Description of measurement facilities.

- (a) Each party making measurements of equipment that is subject to an equipment authorization under Part 15 or Part 18 of this chapter, regardless of whether the measurements are filed with the Commission or kept on file by the party responsible for compliance of equipment marketed within the U.S. or its possessions, shall compile a description of the measurement facilities employed.
 - (1) If the measured equipment is subject to the verification procedure, the description of the measurement facilities shall be retained by the party responsible for verification of the equipment.
 - (i) *If the equipment is verified through measurements performed by an independent laboratory, it is acceptable for the party responsible for verification of the equipment to rely upon the description of the measurement facilities retained by or placed on file with the Commission by that laboratory. In this situation, the party responsible for the verification of the equipment is not required to retain a duplicate copy of the description of the measurement facilities.*
 - (ii) If the equipment is verified based on measurements performed at the installation site of the equipment, no specific site calibration data is required. It is acceptable to retain the description of the measurement facilities at the site at which the measurements were performed.
 - (2) If the equipment is to be authorized by the Commission under the certification procedure, the description of the measurement facilities shall be filed with the Commission's Laboratory in Columbia, Maryland. The data describing the measurement facilities need only be filed once but must be updated as changes are made to the measurement facilities or as otherwise described in this section. At least every three years, the organization responsible for filing the data with the Commission shall certify that the data on file is current.

Certification & User's Manual Information

Label and User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart A — General:

§ 15.19 Labeling requirements.

(a) *In addition to the requirements in Part 2 of this chapter, a device subject to certification or verification shall be labeled as follows:*

- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

- (3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

§ 15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Verification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B — Unintentional Radiators:

§ 15.105 Information to the user.

- (a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

- (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.