

Dynamic Frequency Selection (DFS)

Test Report

Product Name	Wireless Access Point
Model No	XR300
FCC ID	SK6-XR320

Applicant	Xirrus, Inc.
Address	2101 Corporate Center Drive, Thousand Oaks, CA 91320

Date of Receipt	Sep. 30, 2014
Issued Date	Dec. 10, 2014
Report No.	14B0157R-RFUSP05V00-A
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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DFS Test Report

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Product Name	Wireless Access Point
Applicant	Xirrus, Inc.
Address	2101 Corporate Center Drive, Thousand Oaks, CA 91320
Manufacturer	Lite-On Network Communication (Dongguan) Limited
Model No.	XR300
FCC ID.	SK6-XR320
EUT Rated Voltage	DC 48V
EUT Test Voltage	DC 48V (Power by POE)
Trade Name	XIRRUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E 15.407 (h): 2013 KDB 905462 D01, KDB 905462 D04, KDB 905462 D05 FCC 06-96
Test Result	Complied

Documented By :

(Senior Adm. Specialist / Joanne Lin)

Tested By :

(Engineer / Andy Lin)

Approved By :

(Director / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. Standard Requirement

FCC Part 15.407:

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

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

1.2. EUT Description

Product Name	Wireless Access Point
Trade Name	XIRRUS
FCC ID.	SK6-XR320
Model No.	XR300
DFS Frequency Range	5260-5320MHz, 5500-5580MHz, 5660-5700MHz
Number of DFS Channels	802.11a/n-20MHz: 12; 802.11n-40MHz: 5 802.11ac-20MHz: 1, 802.11ac-40MHz: 1, 802.11ac-80MHz: 3
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7MHz
Channel Control	Auto
Type of Modulation	802.11a/n/ac: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Channel Bandwidth	20/40/80MHz
DFS Function	☒ Master ☐ Slave
TPC Function	☒ <500mW not required ☐ $\geq 500\text{mW}$ employ a TPC
Communication Mode	☒ IP Based Systems ☐ Frame Based System ☐ Other System
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	LITE-ON	30100006036D (Ant2)	PIFA	4.4 dBi for 5.15~5.25GHz 4.6 dBi for 5.25~5.35GHz
		30100006046D (Ant4)	Monopole	4.7 dBi for 5.47~5.725GHz 5.0 dBi for 5.725~5.825GHz

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 54:	5270 MHz	Channel 62:	5310 MHz	Channel 102:	5510 MHz	Channel 110:	5550 MHz
Channel 134:	5670 MHz						

802.11ac-20MHz Carrier Frequency of Each Channel:

Channel	Frequency
Channel 144:	5720 MHz

802.11ac-40MHz Carrier Frequency of Each Channel:

Channel	Frequency
Channel 142:	5710 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 138:	5690 MHz

Test Mode	Mode 1: Transmit (802.11n-20BW)-5.3GHz Mode 2: Transmit (802.11n-40BW)-5.51GHz Mode 3: Transmit (802.11ac-80BW)-5.53GHz
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1.3. UNII Device Description

(1) The EUT operates in the following DFS band:

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

(2) The U-NII device maximum power is 26.92dBm(E.I.R.P).

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

Part No.	Peak Gain (dBi)
30100006036D (Ant2)	4.6 dBi for 5.25~5.35GHz 4.7 dBi for 5.47~5.725GHz
30100006046D (Ant4)	5.0 dBi for 5.725~5.825GHz

(3) WLAN traffic is generated by test software “Iperf.exe Ver.2.05” from the Master device to the Slave device.

(4) For the 5250-5350 MHz and 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

(5) This device does not exceed 27dBm (eirp), the transmit power control is not be tested.

(6) The client device is an Dell Latitude E5420 Notebook pc contains Intel WLAN radio Module card (Model :7260HWM). The Intel WLAN Module card FCC ID: PD97260NG

1.4. Test Equipment

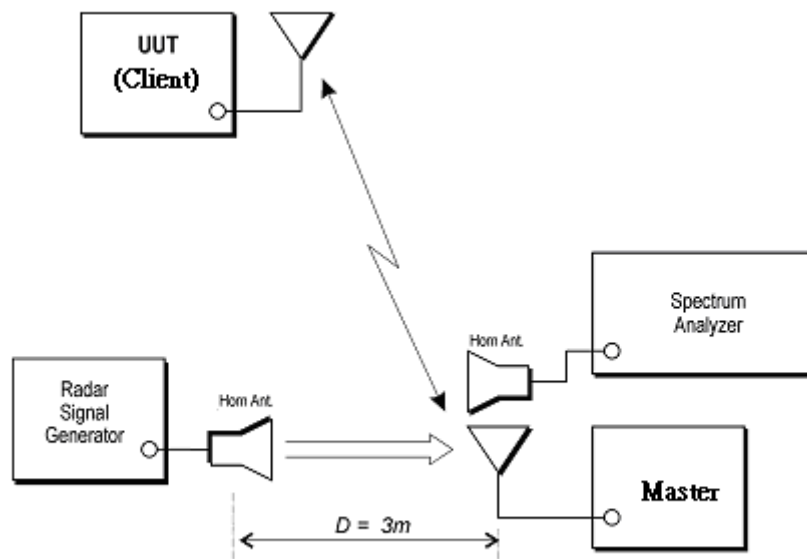
Dynamic Frequency Selection (DFS) / CTR

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4440A	MY46185846	July, 14, 2014
Vector Signal Generator	Agilent	E4438C	MY49070137	Nov, 25, 2014

Instrument	Manufacturer	Type No.	Serial No
Notebook Pc	Hp	HSTNN-155C	CNU8476RVZ
Notebook Pc	Compaq	CPQ511VT5870Q4X320MIBN CN2Pa	CNU0060M23
Notebook Pc	Dell	Latitude E5420	24357736765
RF Cable	WOKEN	L1406-031C	S02-130729-305
RF Cable	SUHNER	SUCOFLEX 106	3474516
Horn Antenna	SCHWARZBECK	BBHA9120D	867
Horn Antenna	SCHWARZBECK	BBHA9120D	868

Software	Manufacturer	Function
Agilent Signal Studio for Pulse Building V1.3.13.0	Agilent	Radar Signal Generation Software
Agilent DFS_TEST V6.9	Agilent	Radar Signal Generation Software
Iperf V2.05	NLANR	Network testing tool

1.5. Test Setup



1.6. DFS Detection Thresholds

(1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1:

This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2:

Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

(2) DFS Response requirement values

Parameter	Value
Non-Occupancy Period	30 Minutes
Channel Availability Check Time	60 Seconds
Channel Move Time	10 Seconds
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period (See Notes 1 and 2)
U-NII Detection Bandwidth	Minimum 80% of the 99% power bandwidth See Note 3.

Note1:

The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the short pulse radar test signals this instant is the end of the burst.
- For the frequency hopping radar test signal, this instant is the end of the last radar burst generated
- For the long pulse radar test signal this instant is the end of the 12 seconds period defining the radar transmission.

Note 2:

The channel closing transmission time is comprised of 200 milliseconds starting at the beginning of the channel move time plus any additional intermittent control signals required facilitating channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3:

During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

1.7. Radar Test Waveforms

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

(1) Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (radar types 1-4)				80%	120

A minimum of 30 unique waveforms is required for each of the short pulse radar type 2 through 4. For short pulse radar type 1, then same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar type 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar type 1-4.

(2) Long Pulse Radar Test Signal

Radar Waveform	Bursts	Pulses Per Burst	Pulse Width (usec)	Chirp Width (MHz)	PRI (usec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	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.

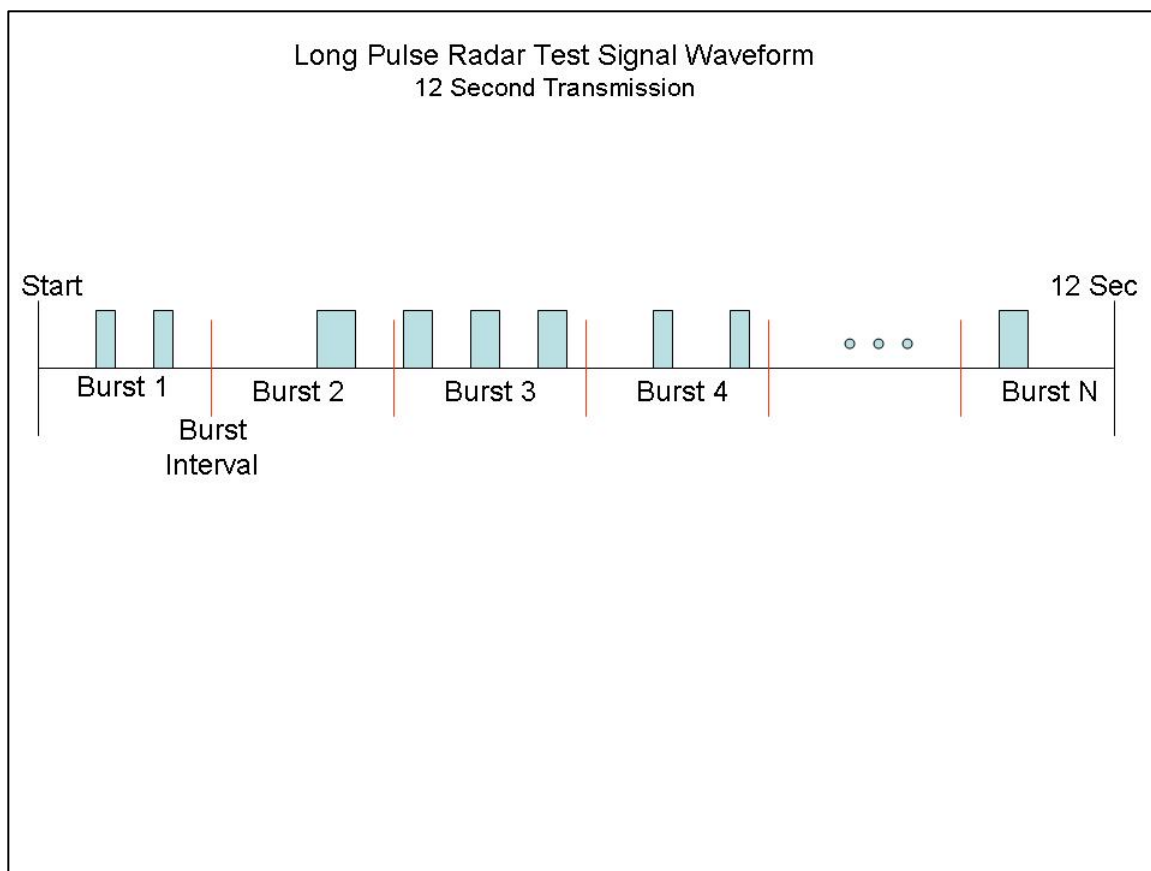
Each waveform is defined as follows:

- 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 a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length $(12,000,000 / \text{Burst_Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen 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).

Graphical Representation of a Long Pulse radar Test Waveform



(3) Frequency Hopping Radar Test Signal

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

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

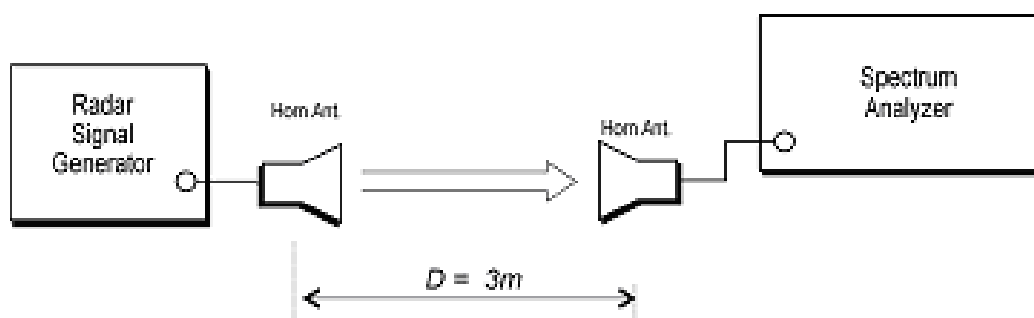
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues 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.

1.8. Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 3 MHz.

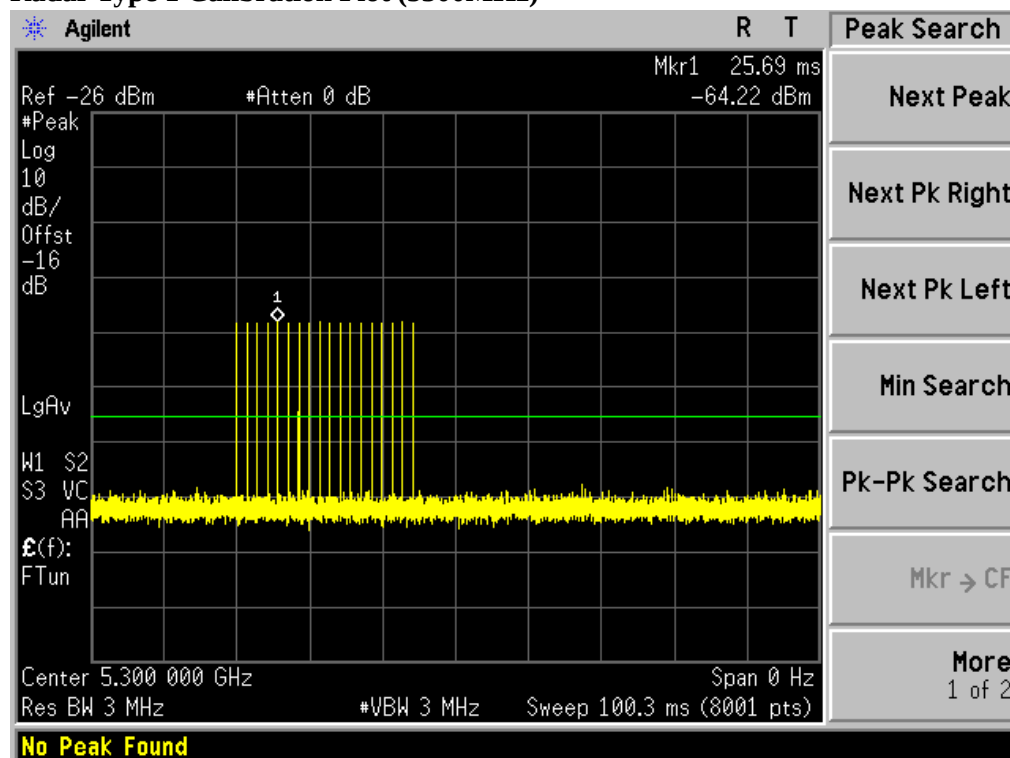
The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -63dBm (-64dBm+1) due to the interference threshold level is not required.

Radiated Calibration Setup

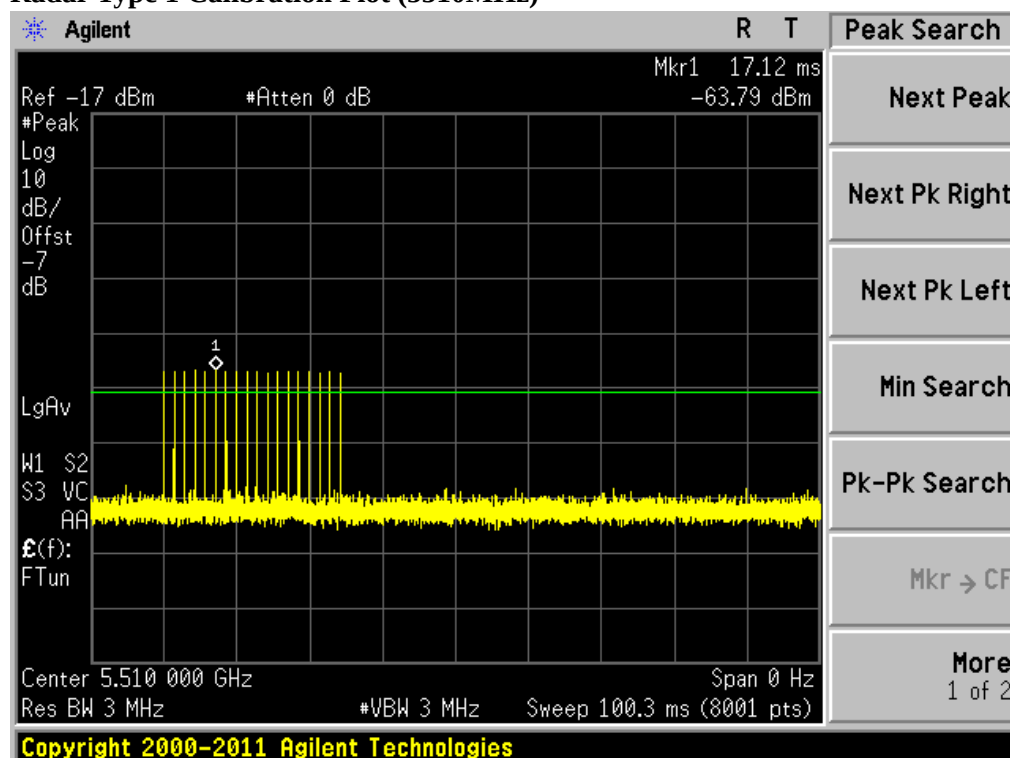


1.9. Radar Waveform Calibration Result

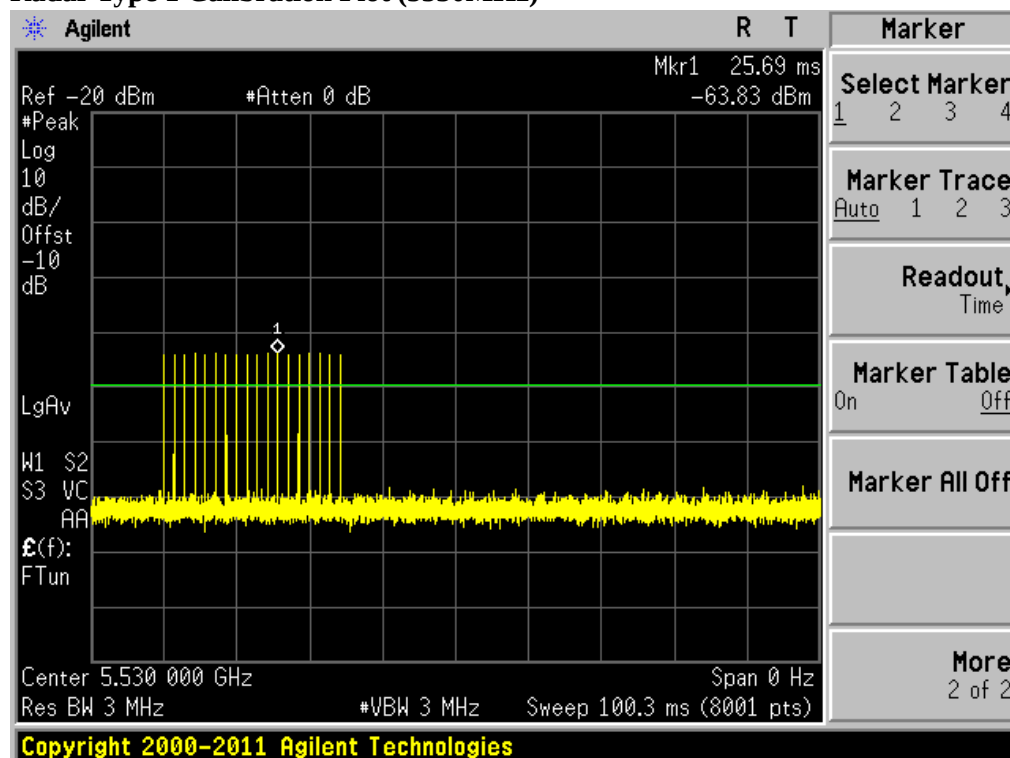
Radar Type 1 Calibration Plot (5300MHz)



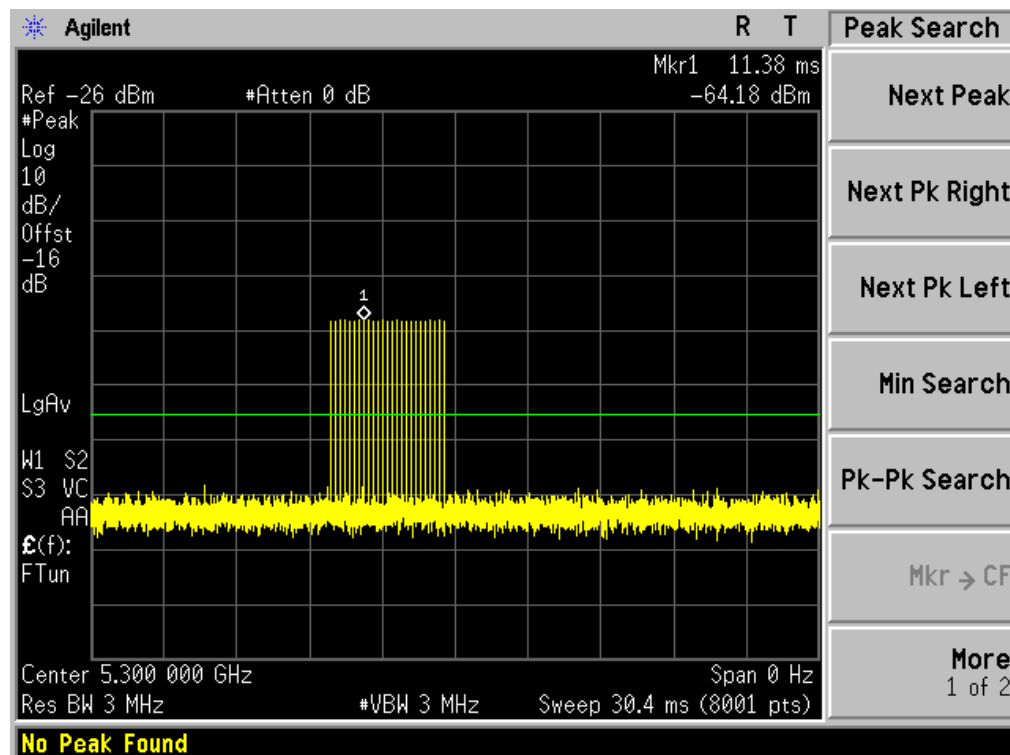
Radar Type 1 Calibration Plot (5510MHz)



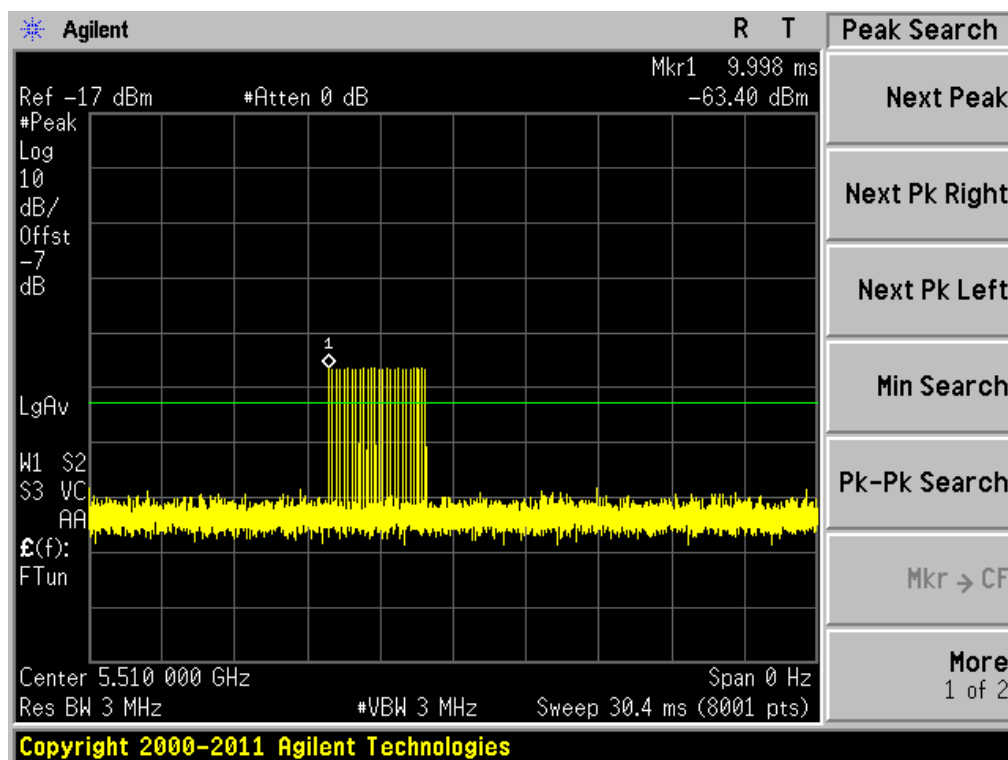
Radar Type 1 Calibration Plot (5530MHz)



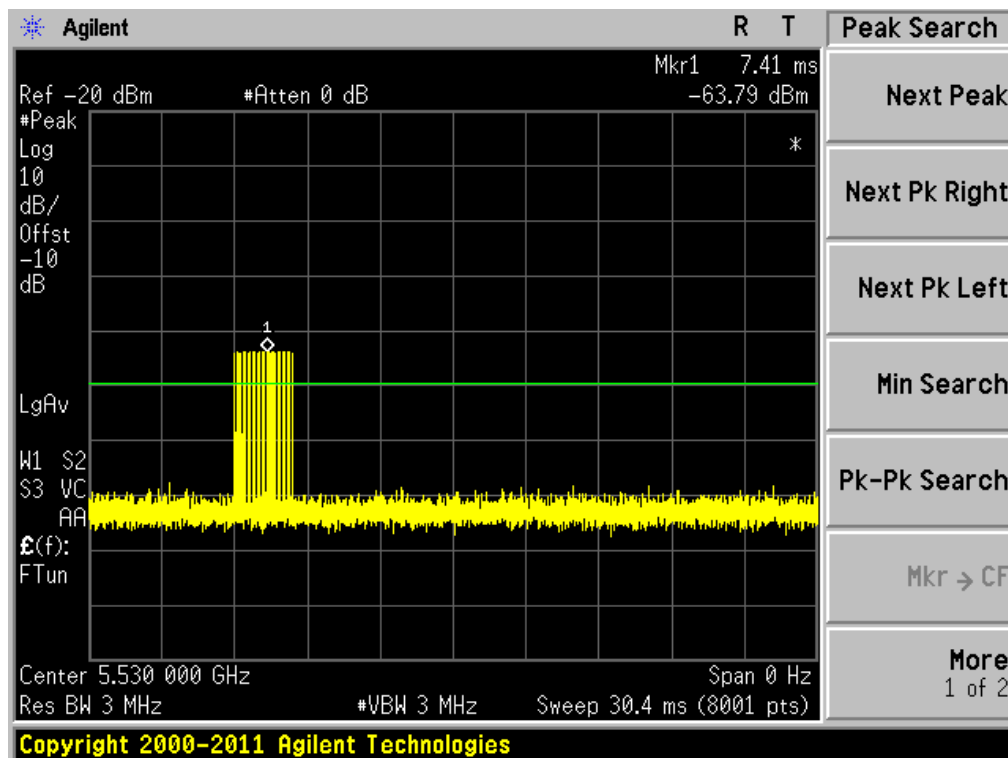
Radar Type 2 Calibration Plot (5300MHz)



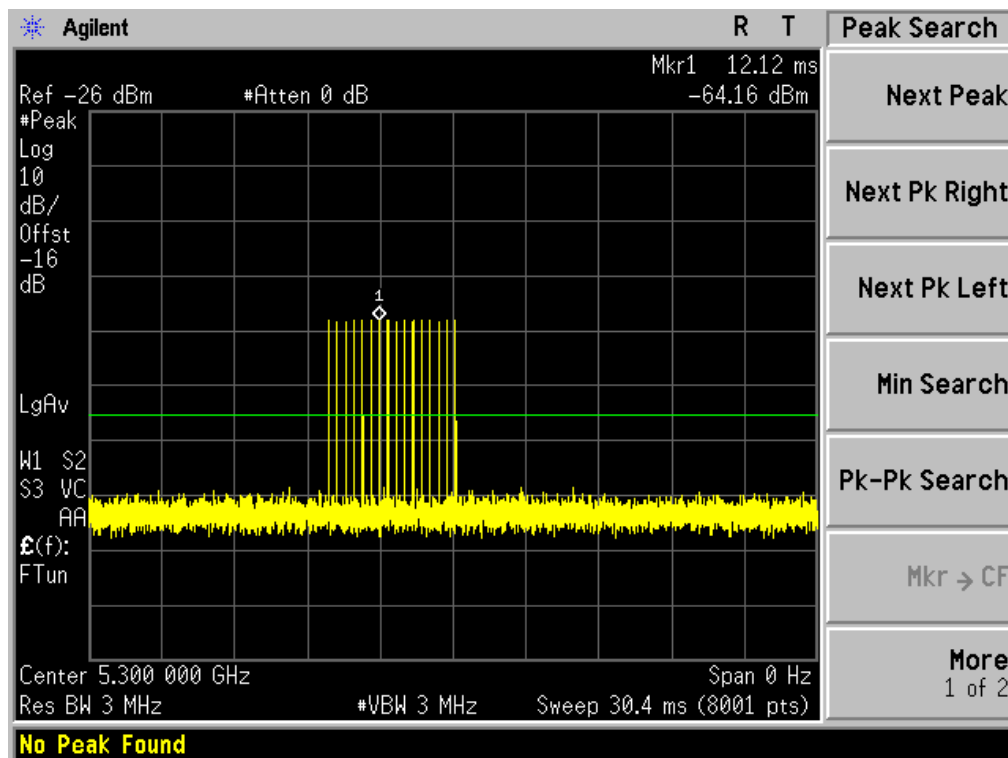
Radar Type 2 Calibration Plot (5510MHz)



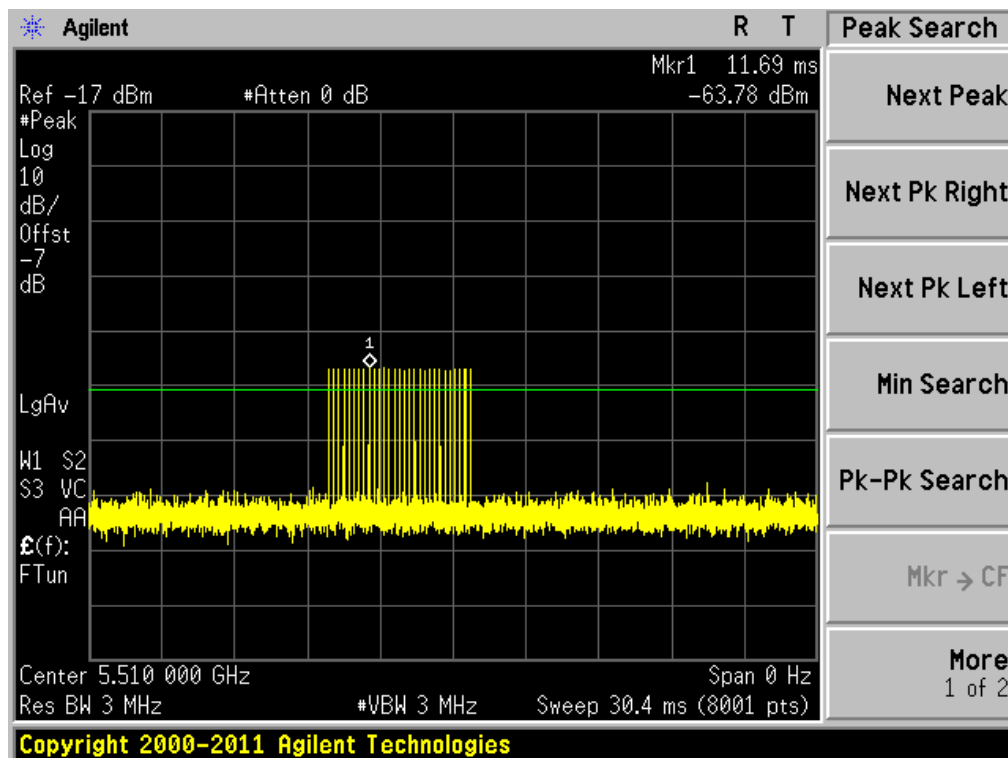
Radar Type 2 Calibration Plot (5530MHz)



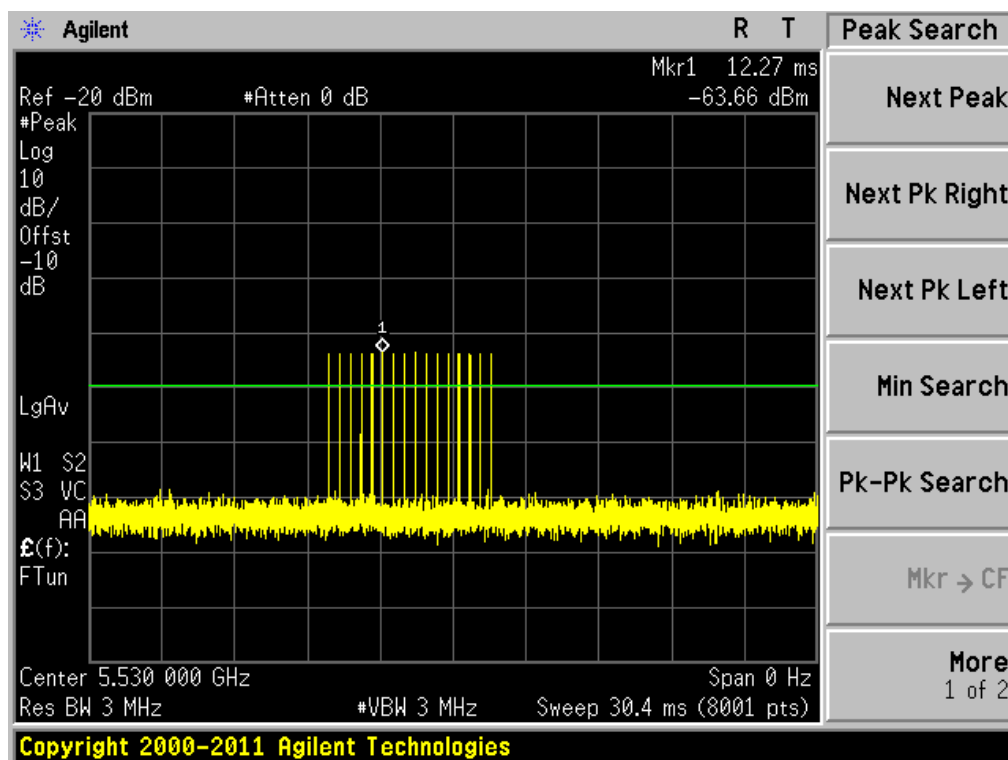
Radar Type 3 Calibration Plot (5300MHz)



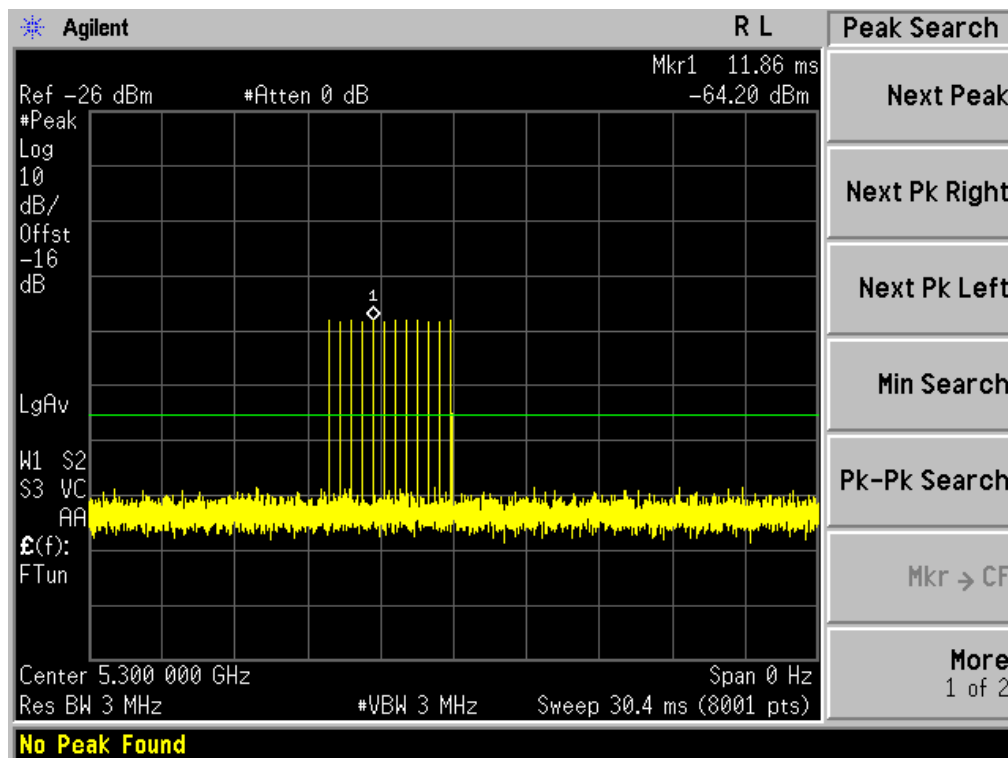
Radar Type 3 Calibration Plot (5510MHz)



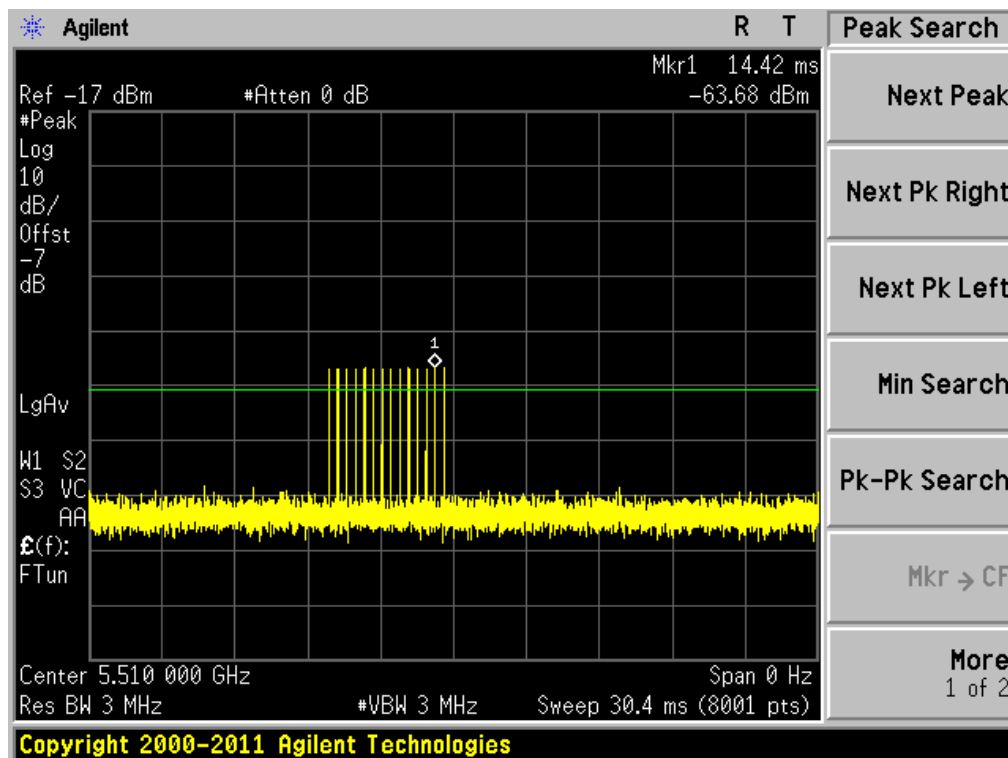
Radar Type 3 Calibration Plot (5530MHz)



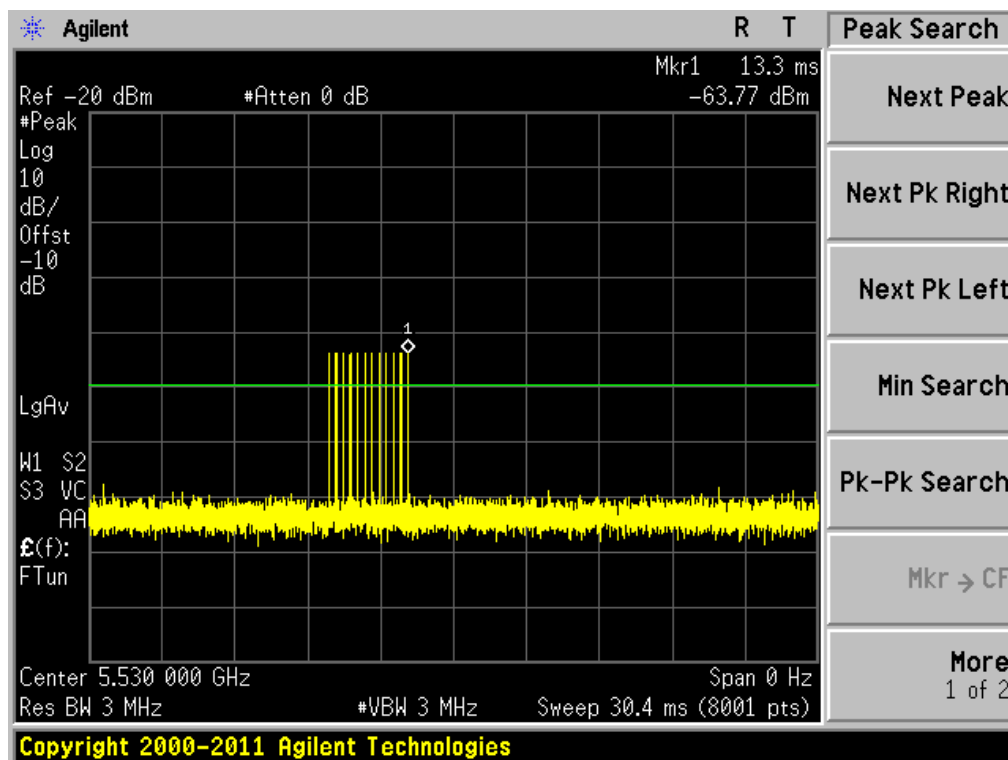
Radar Type 4 Calibration Plot (5300MHz)



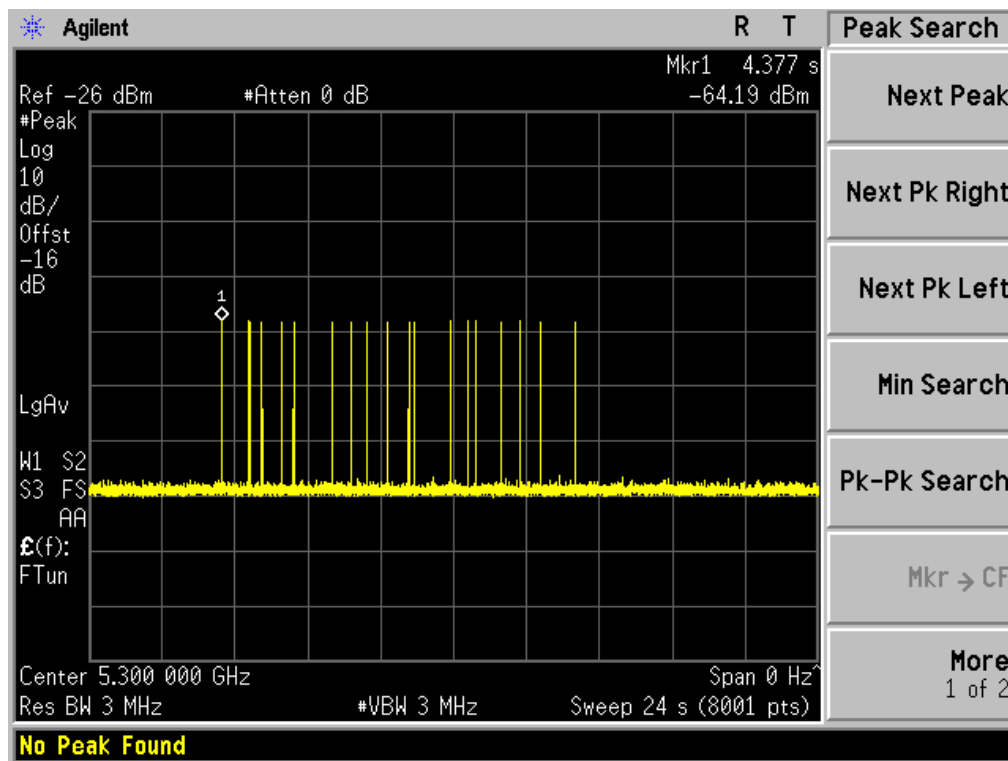
Radar Type 4 Calibration Plot (5510MHz)



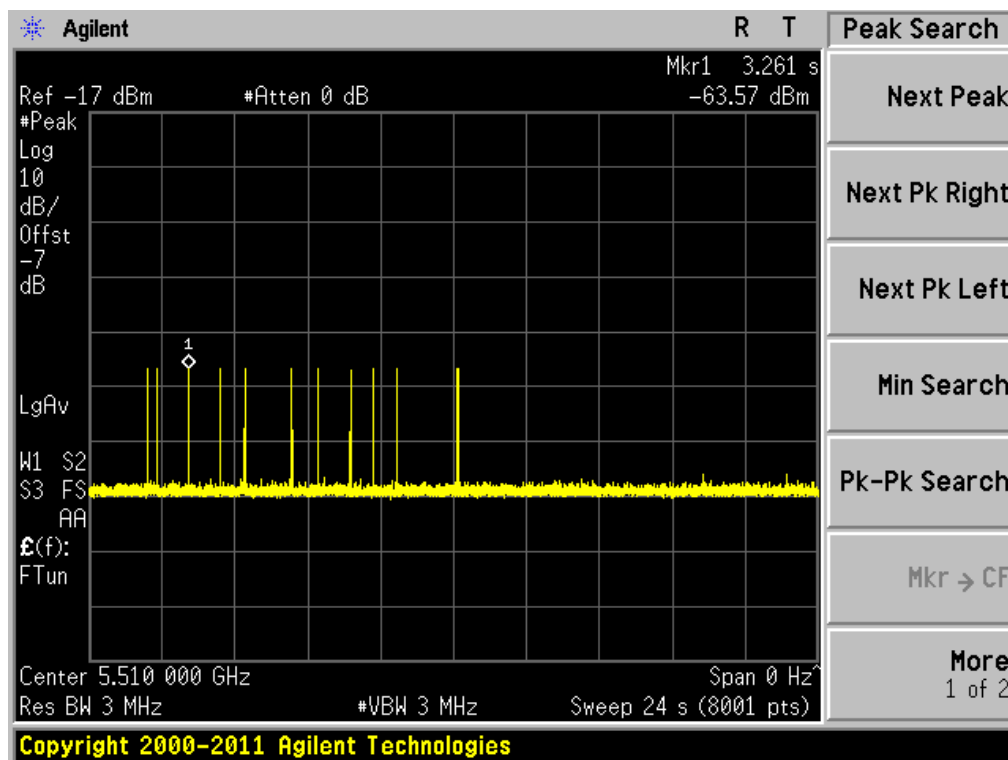
Radar Type 4 Calibration Plot (5530MHz)



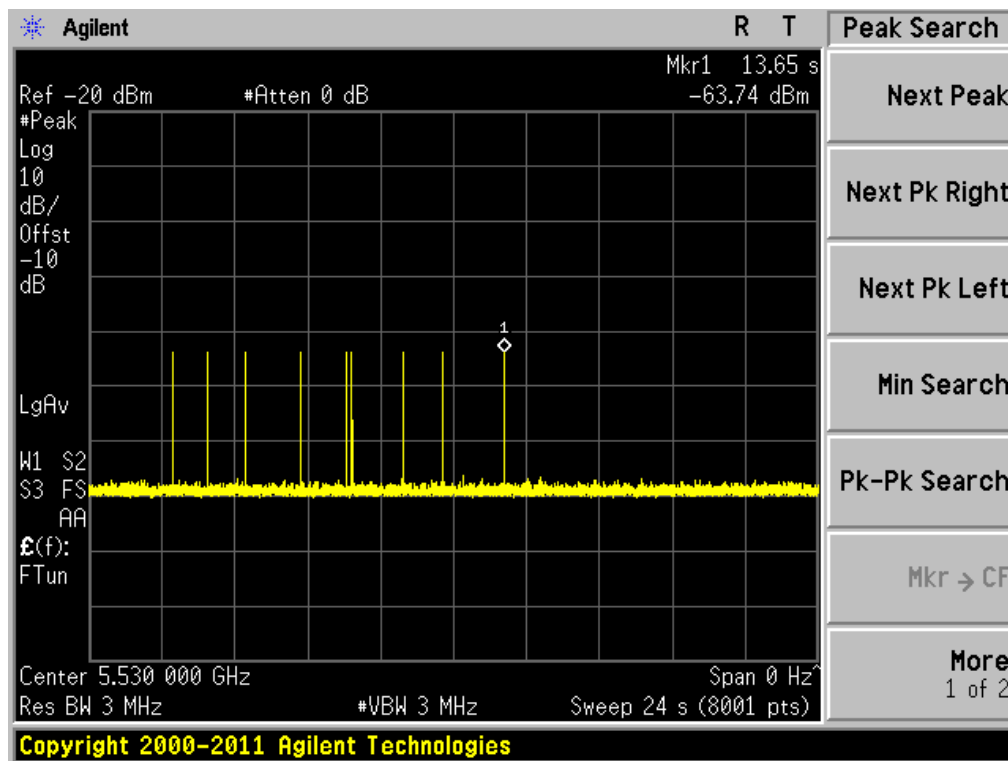
Radar Type 5 Calibration Plot (5300MHz)



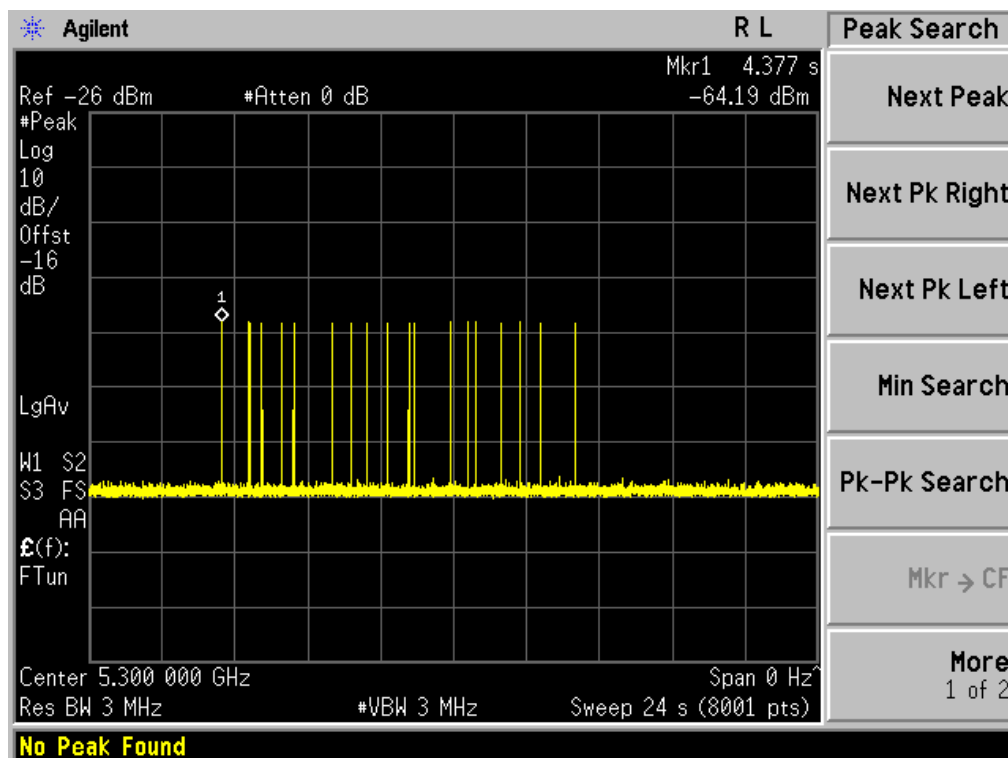
Radar Type 5 Calibration Plot (5510MHz)



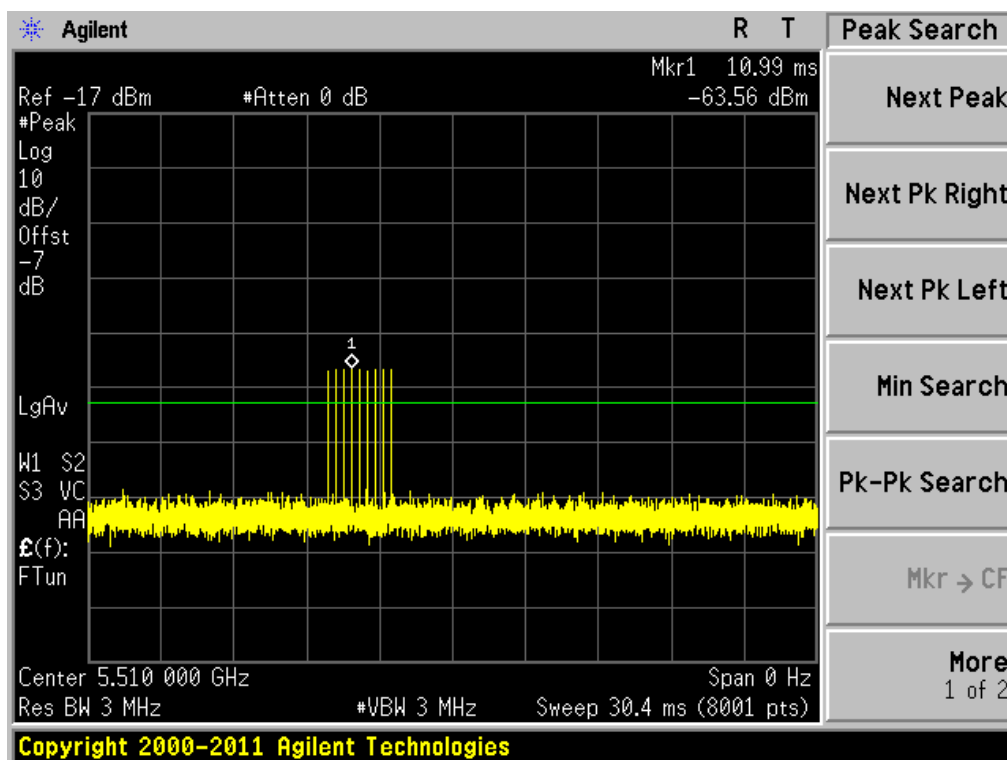
Radar Type 5 Calibration Plot (5530MHz)



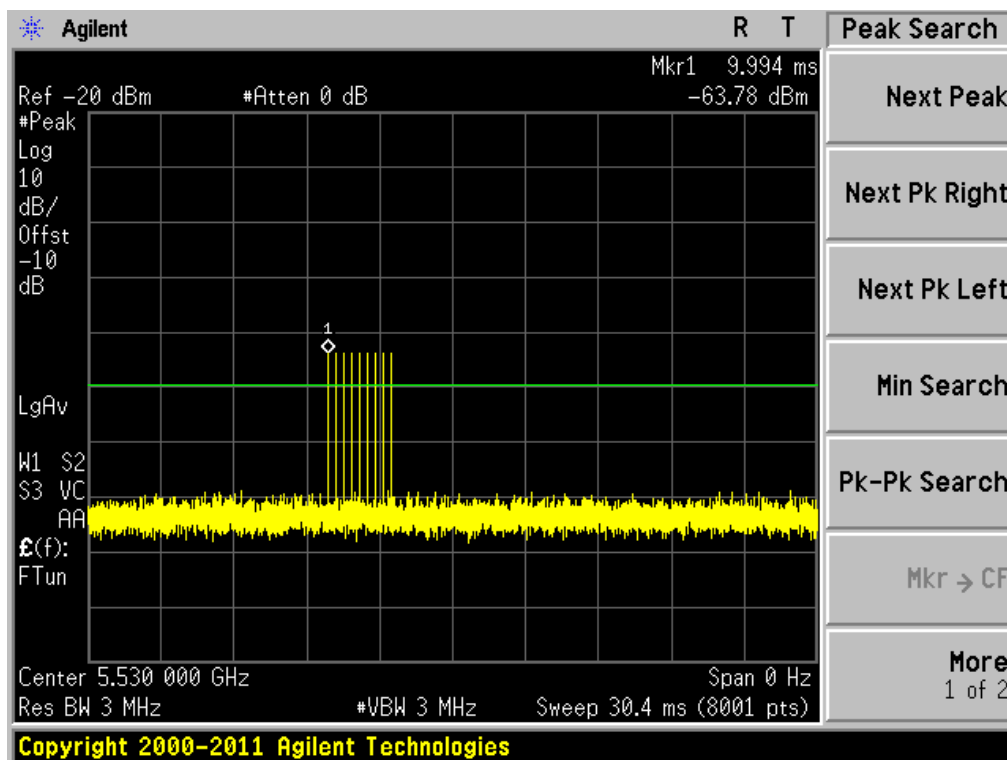
Radar Type 6 Calibration Plot (5300MHz)



Radar Type 6 Calibration Plot (5510MHz)

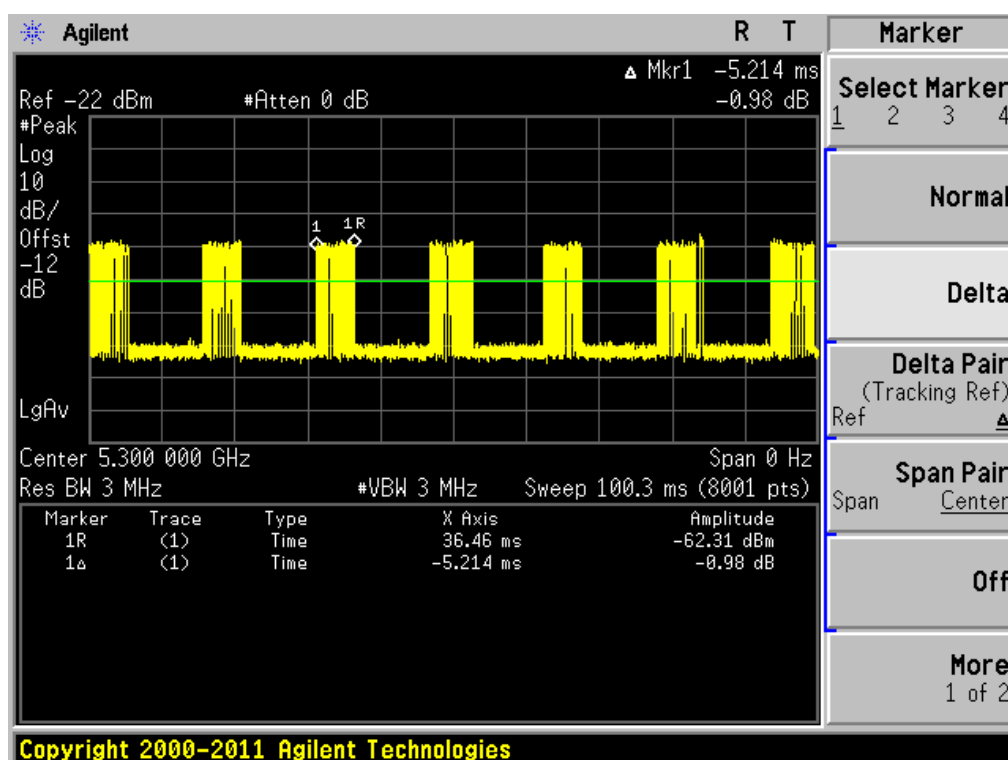
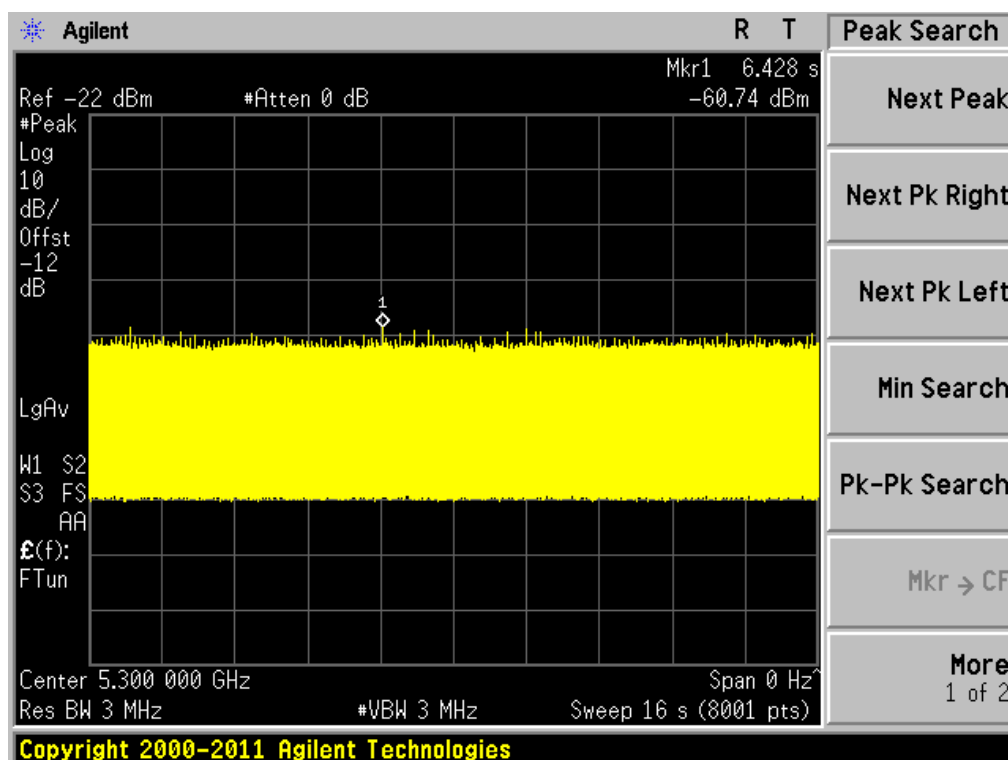


Radar Type 6 Calibration Plot (5530MHz)



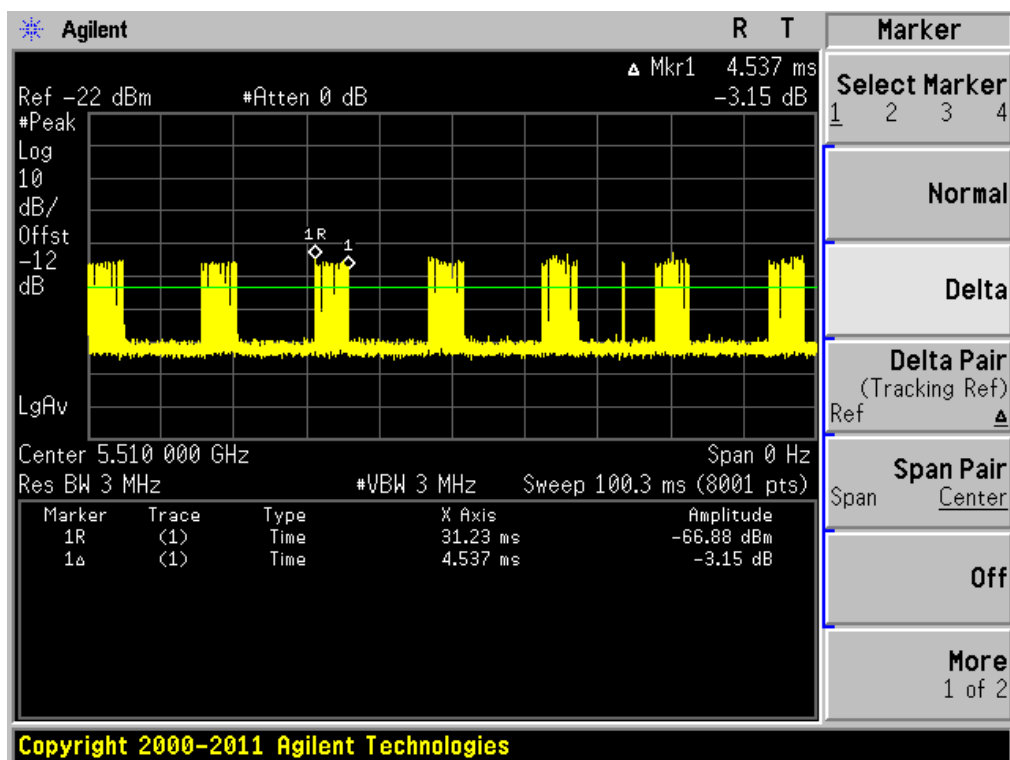
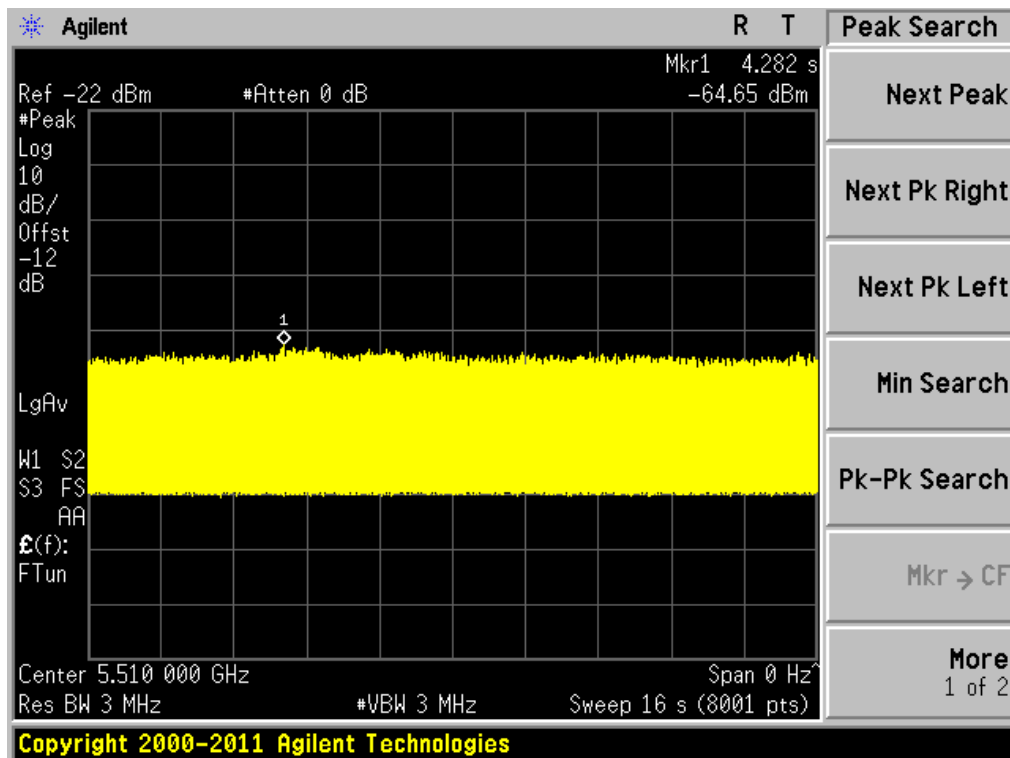
1.10. Master Data Traffic Plot Result

Plot of WLAN Traffic at 5300MHz-20BW



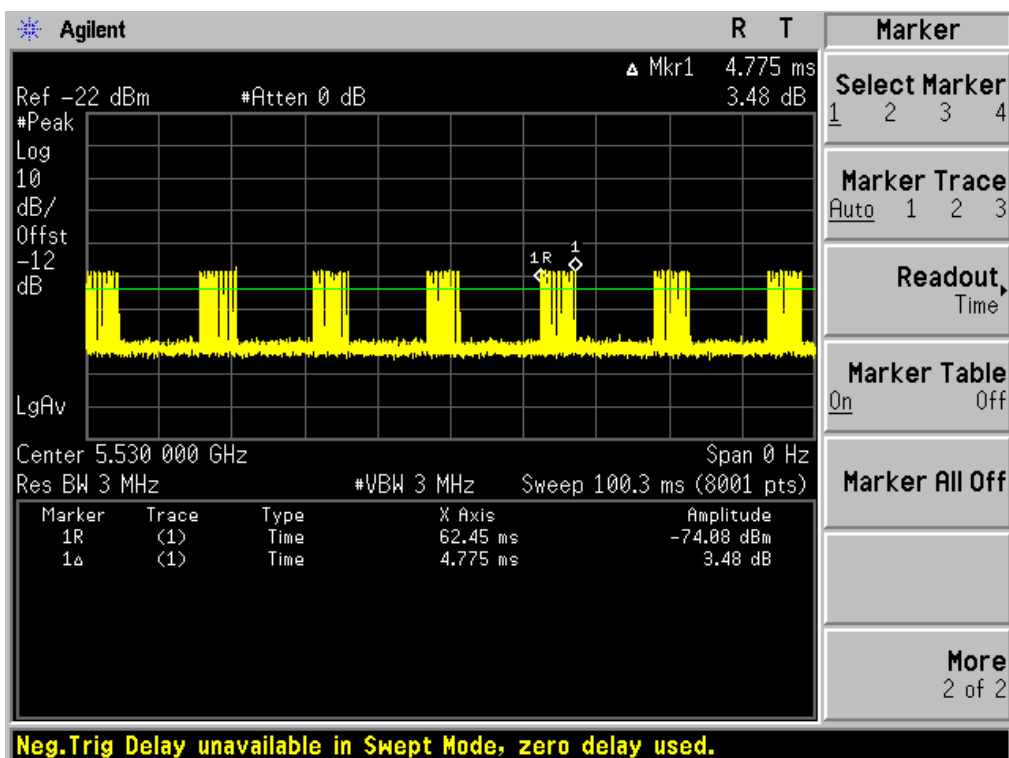
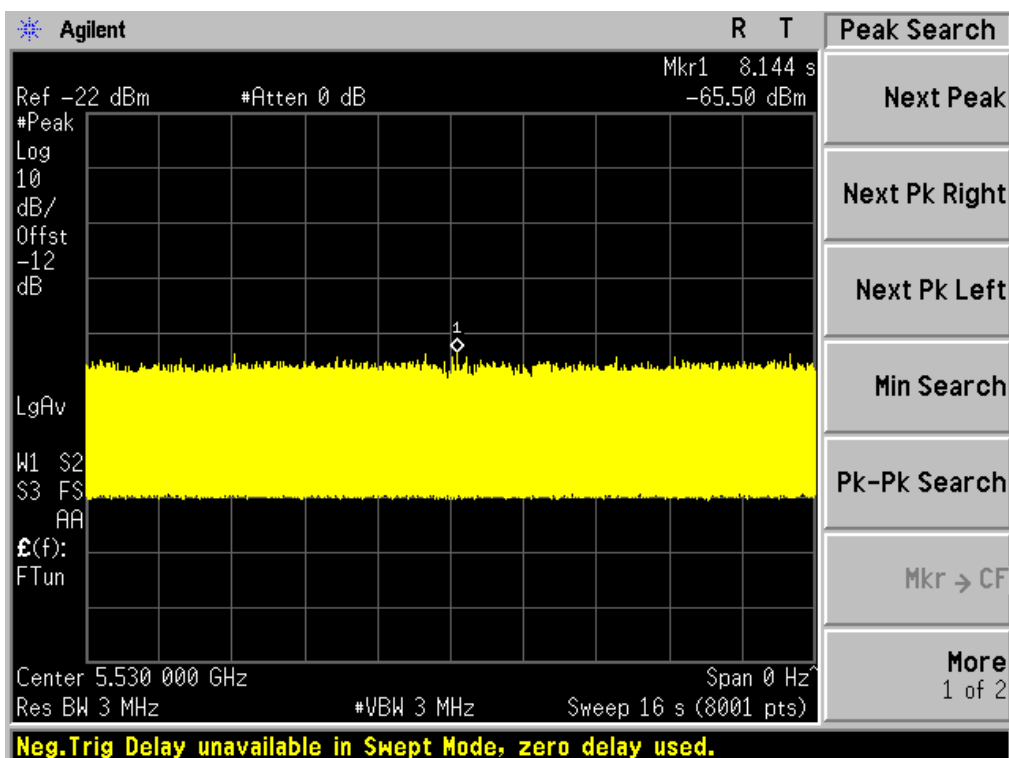
Channel load	Requirement channel load
36.498%	>17%

Plot of WLAN Traffic at 5510MHz-40BW



Channel load	Requirement channel load
31.759%	>17%

Plot of WLAN Traffic at 5530MHz-80BW



Channel load	Requirement channel load
33.425%	>17%

2. UNII Detection Bandwidth

2.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

The generating equipment is configured as shown in the radiated Test Setup above. A single Burst of the short pulse radar type 1 is produced at 5300MHz, 5510MHz and 5530MHz at a -63dBm level.

The EUT is set up as a standalone device (no associated Client and no traffic).

A single radar Burst is generated for a minimum of 10 trials, and the response of the EUT is noted.

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

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

The U-NII Detection Bandwidth is calculated as follows:

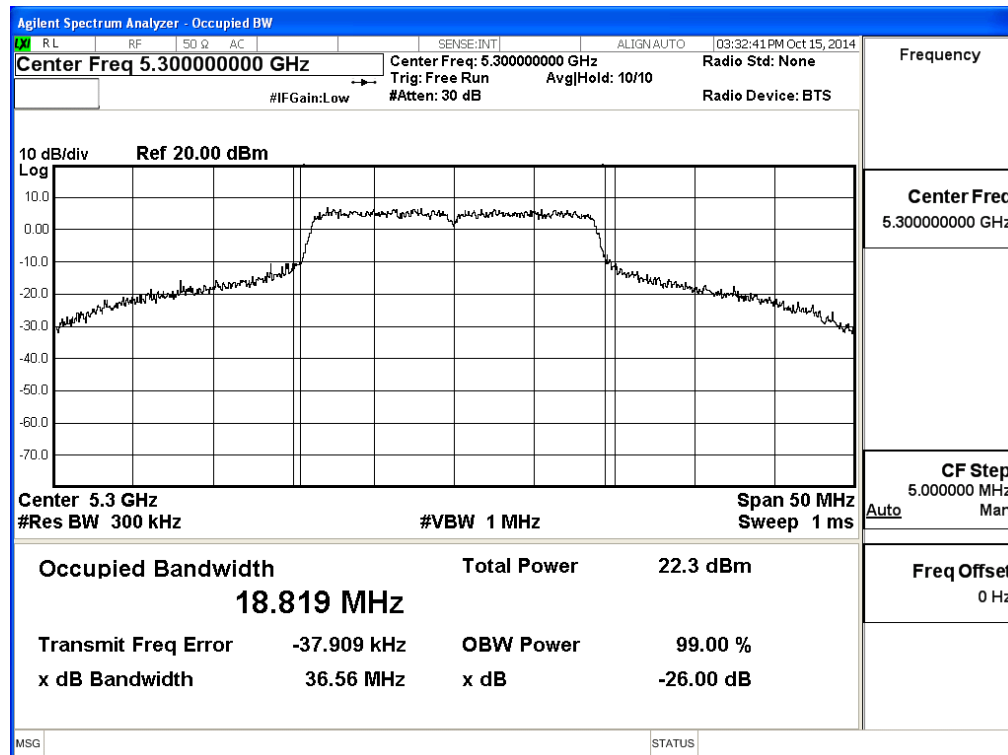
$$\text{U-NII Detection Bandwidth} = F_H - F_L$$

The U-NII Detection Bandwidth must be at least 80% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.

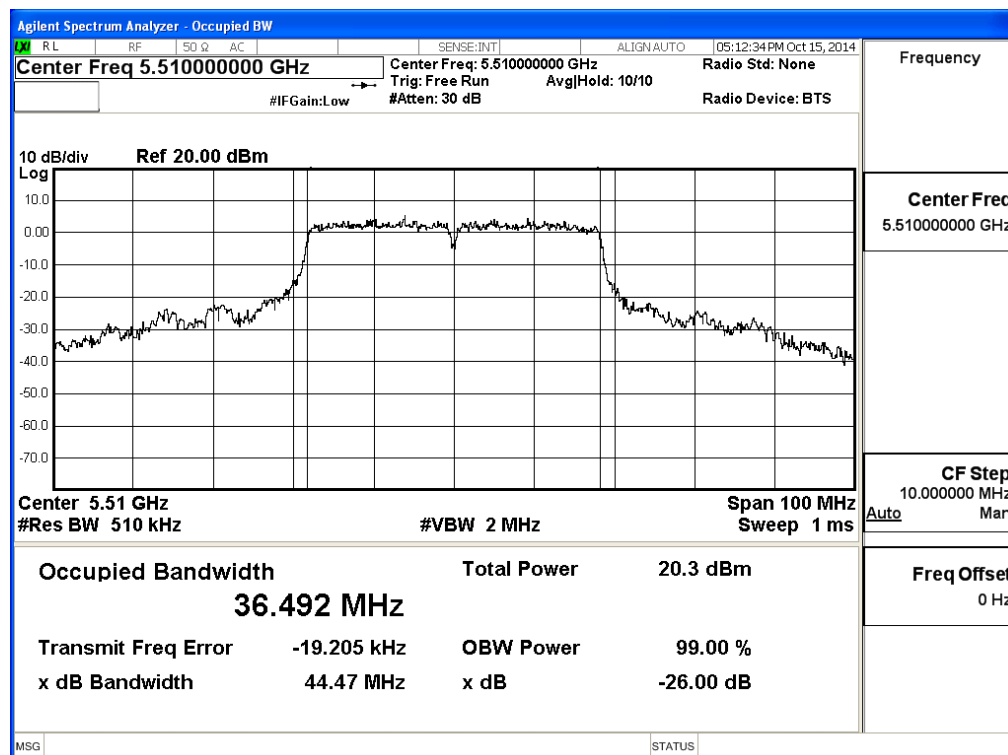
2.2. Test Requirement

All UNII 20/40/80 MHz channels bandwidth for this device also have identical Channel bandwidths. Therefore, all DFS testing was done at 5300MHz, 5510MHz and 5530MHz. The 99% channel bandwidth for 20MHz signals is 18.819 MHz, 40MHz signals is 36.492 MHz and the 80MHz signals is 75.802MHz.

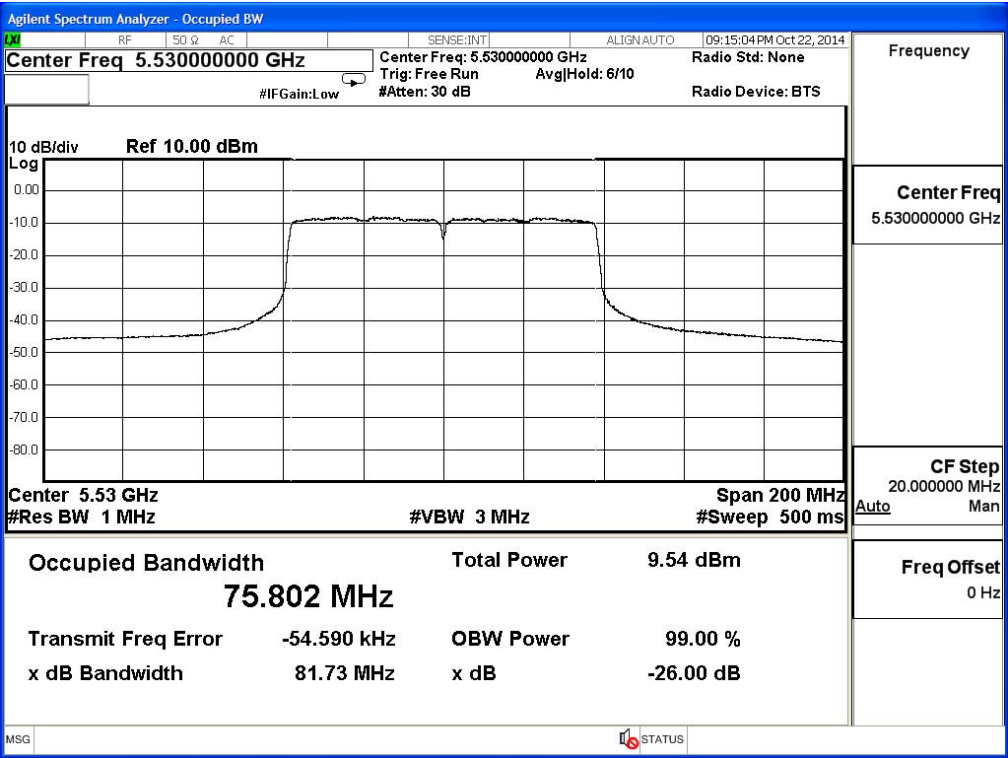
5300MHz (n-20 BW)



527MHz (n-40 BW)



5530MHz (n-80 BW)



2.3. Uncertainty

± 1ms.

2.4. Test Result of UNII Detection Bandwidth

Product : Wireless Access Point
Test Item : UNII Detection Bandwidth
Radar Type : Type 1
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Test Channel: 5300MHz (n-20BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5290 (FL)	1	1	1	1	1	1	1	1	1	1	100
5291	1	1	1	1	1	1	1	1	1	1	100
5292	1	1	1	1	1	1	1	1	1	1	100
5293	1	1	1	1	1	1	1	1	1	1	100
5294	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5296	1	1	1	1	1	1	1	1	1	1	100
5297	1	1	1	1	1	1	1	1	1	1	100
5298	1	1	1	1	1	1	1	1	1	1	100
5299	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5301	1	1	1	1	1	1	1	1	1	1	100
5302	1	1	1	1	1	1	1	1	1	1	100
5303	1	1	1	1	1	1	1	1	1	1	100
5304	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5306	1	1	1	1	1	1	1	1	1	1	100
5307	1	1	1	1	1	1	1	1	1	1	100
5308	1	1	1	1	1	1	1	1	1	1	100
5309	1	1	1	1	1	1	1	1	1	1	100
5310 (FH)	1	1	1	1	1	1	1	1	1	1	100
Detection Bandwidth = FH - FL = 5310MHz - 5290MHz = 20MHz											
EUT 99% Bandwidth = 18.819MHz											
UNII Detection Bandwidth Min. Limit = 18.819MHz X 80% = 15.055MHz											

Product : Wireless Access Point
 Test Item : UNII Detection Bandwidth
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Test Channel: 5510MHz (n-40BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	1	0	0	0	1	0	1	1	0	0	40
5491 (FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100

5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529 (FH)	1	1	1	1	1	1	1	1	1	1	100
5530	0	0	0	0	0	0	0	0	0	0	0
Detection Bandwidth = FH - FL = 5529MHz - 5491MHz = 38MHz											
EUT 99% Bandwidth = 36.492MHz											
UNII Detection Bandwidth Min. Limit = 36.492MHz X 80% = 29.1936MHz											

Product : Wireless Access Point
Test Item : UNII Detection Bandwidth
Radar Type : Type 1
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Test Channel: 5530MHz (n-80BW)											
Radar Frequency (MHz)	DFS Detection Trials (1= Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	1	1	1	0	1	1	0	0	1	1	70
5491 (FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100

5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100

5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569 (FH)	1	1	1	1	1	1	1	1	1	1	100
5570	0	1	0	1	1	1	1	0	0	1	70
Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz											
EUT 99% Bandwidth = 75.802MHz											
UNII Detection Bandwidth Min. Limit = 75.802MHz X 80% = 60.6416MHz											

3. Initial Channel Availability Check Time

3.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

The U-NII device is powered on and instructed to operate at 5300MHz, 5510MHz and 5530MHz. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at 5300MHz, 5510MHz and 5530MHz with a 2.5minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

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

The initial power up time of the EUT is indicated by marker1 in the plot, Initial beacons/data transmissions are indicated by marker 1R.

3.2. Test Requirement

The EUT shall perform a channel availability check to ensure that there is no radar operation on the channel, after power-up sequence, receiver at least 1 minute on the intended operation frequency.

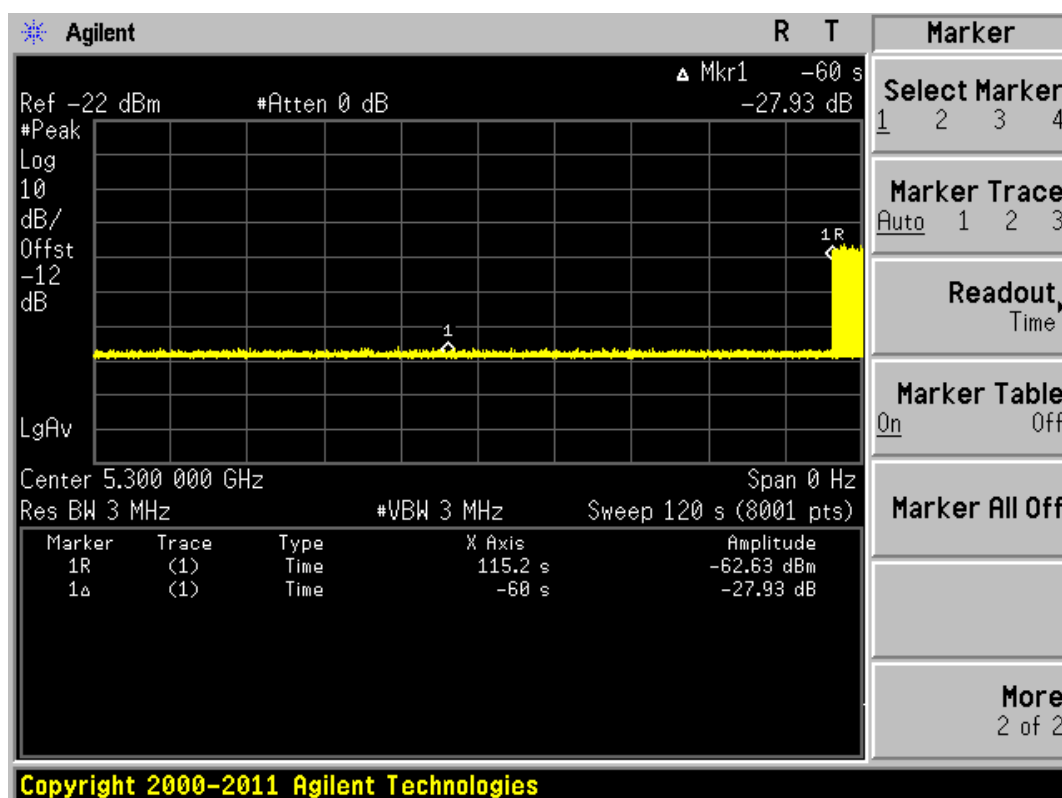
3.3. Uncertainty

± 1ms.

3.4. Test Result of Initial Channel Availability Check Time

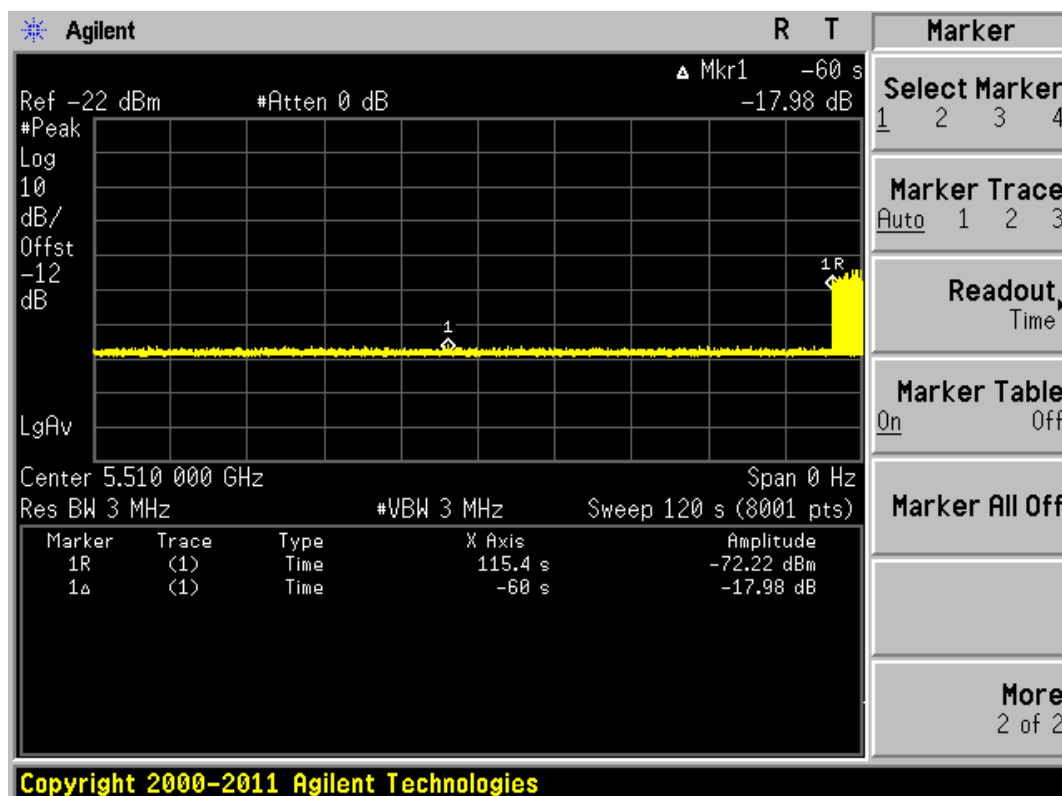
Product : Wireless Access Point
 Test Item : Initial Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (35.2sec). The initial power up time of the EUT is indicated by Marker 1R (115.2sec) – CAC (60 sec). Initial beacons/data transmission are indicated by Marker 1R (115.2sec)



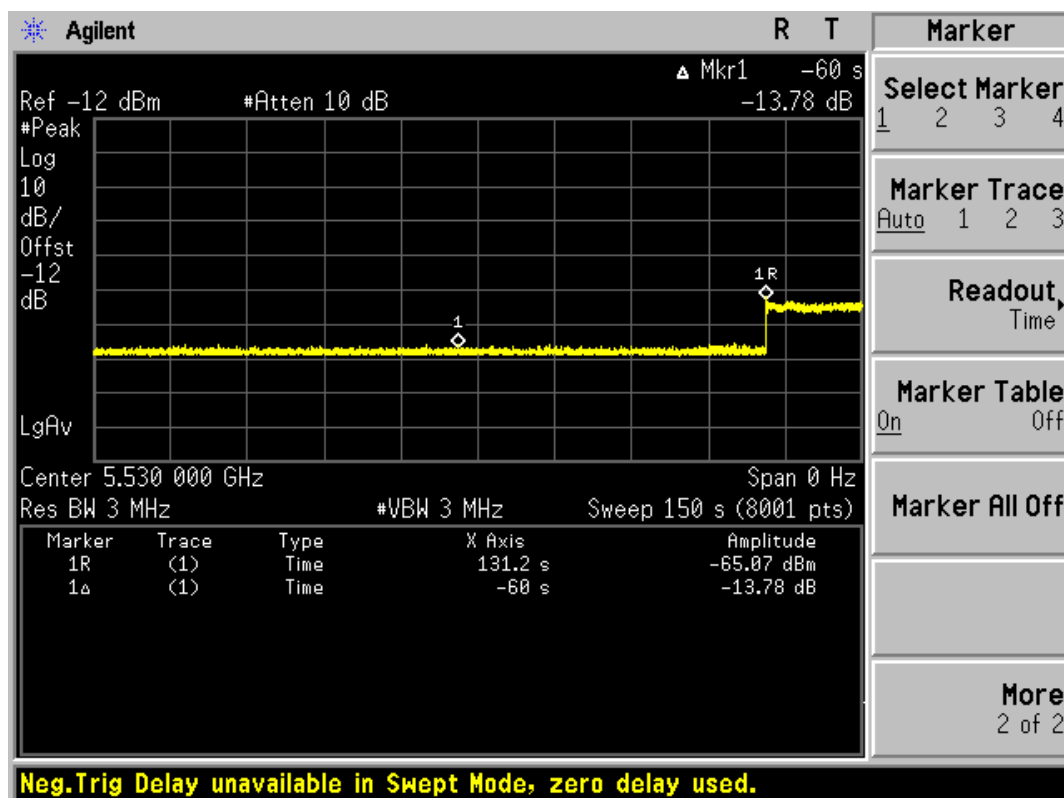
Product : Wireless Access Point
 Test Item : Initial Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (55.4sec). The initial power up time of the EUT is indicated by Marker 1R (115.4 sec) – CAC (60 sec). Initial beacons/data transmission are indicated by Marker 1R (115.4sec)



Product : Wireless Access Point
 Test Item : Initial Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

The EUT does not transmit any beacon or data transmission until at least 1 minute after the completion of the power-on cycle (71.2sec). The initial power up time of the EUT is indicated by Marker 1R (131.2sec) – CAC (60 sec). Initial beacons/data transmission are indicated by Marker 1R (131.2sec)



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

4.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

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

The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

A single Burst of short pulse of radar type 1 at -63dBm will commence within a 6 second window starting at T1.

Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5300MHz, 5510MHz and 5530MHz will continue for 2 minutes after the radar Burst, Verify that during the 2 minute measurement window no EUT transmissions occurred at 5300MHz, 5510MHz and 5530MHz.

4.2. Test Requirement

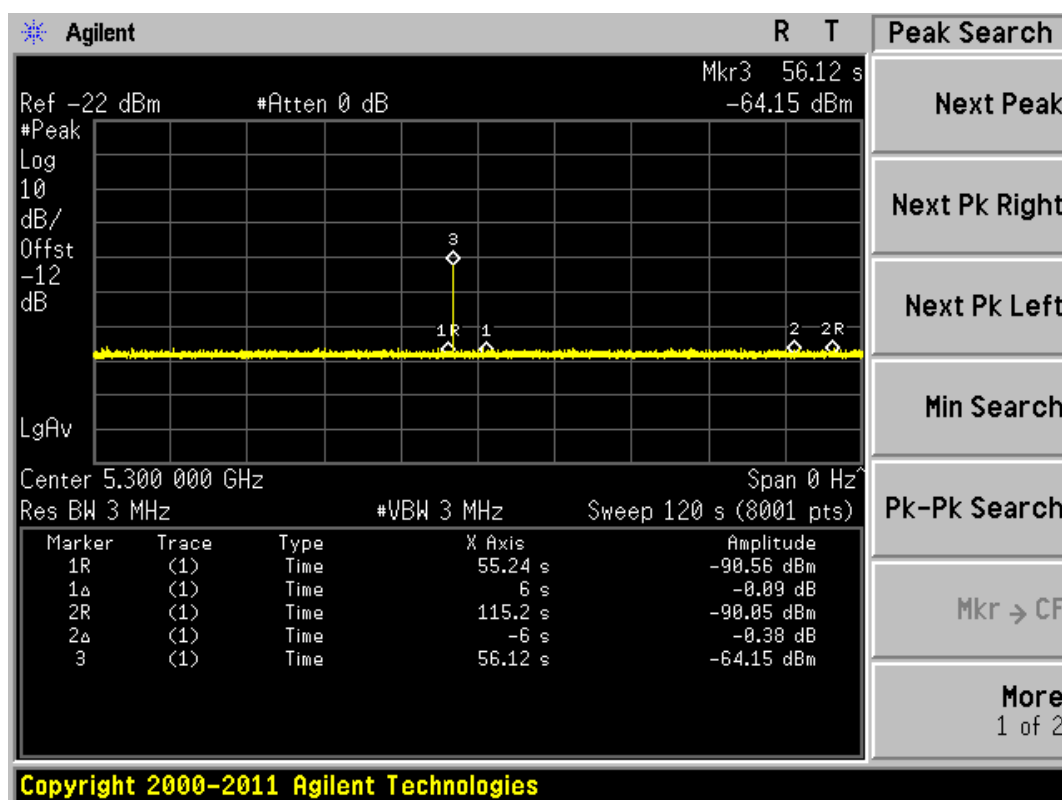
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC that channel.

4.3. Uncertainty

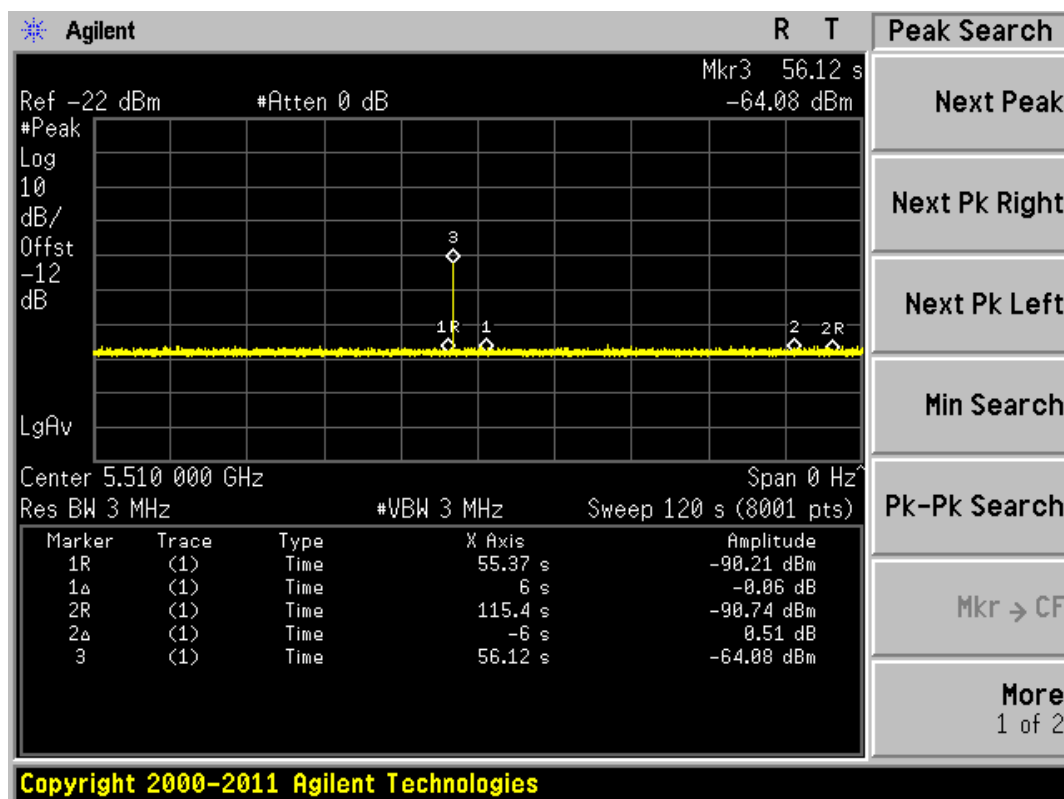
$\pm 1\text{ms}$.

4.4. Test Result of Radar Burst at the Beginning of the Channel Availability Check Time

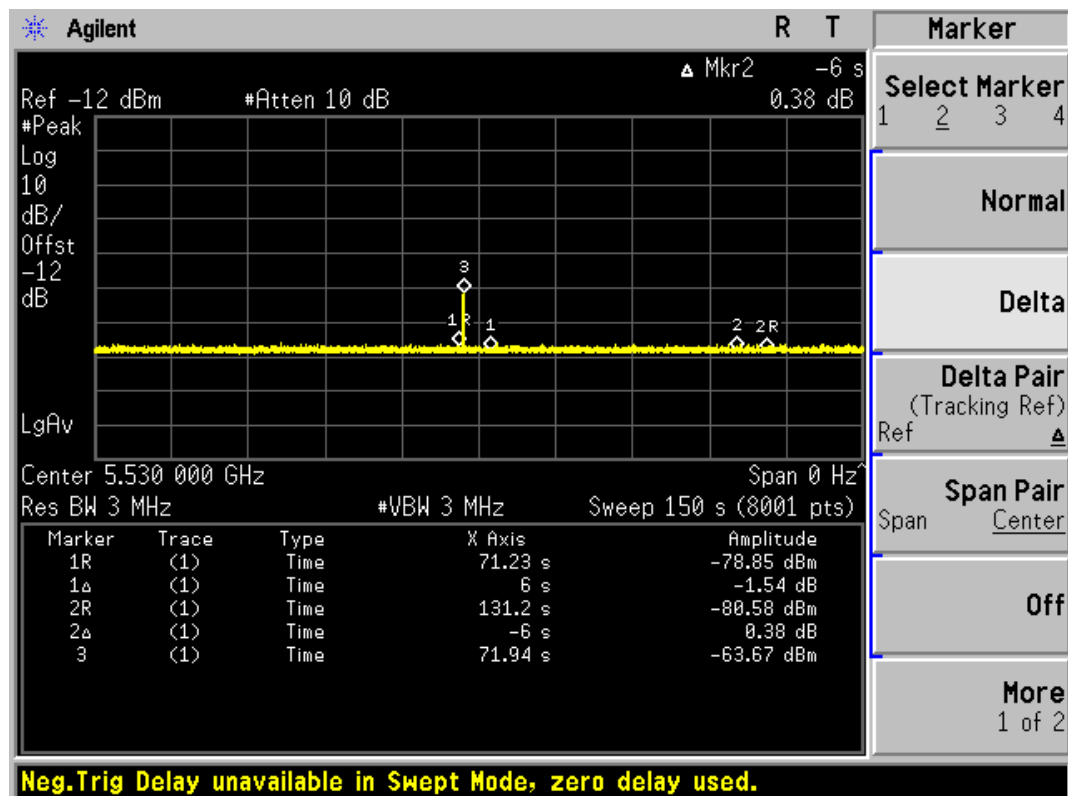
Product : Wireless Access Point
 Test Item : Radar Burst at the Beginning of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz



Product : Wireless Access Point
 Test Item : Radar Burst at the Beginning of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz



Product : Wireless Access Point
 Test Item : Radar Burst at the Beginning of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz



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

5.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

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

The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner

than T1 + 60 seconds. A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1+ 54 seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5300MHz, 5510MHz and 5530MHz will continue for 2 minutes after the radar Burst has been generated.

Verify that during the 2 minute measurement window no UUT transmissions occurred at 5300MHz, 5510MHz and 5530MHz.

5.2. Test Requirement

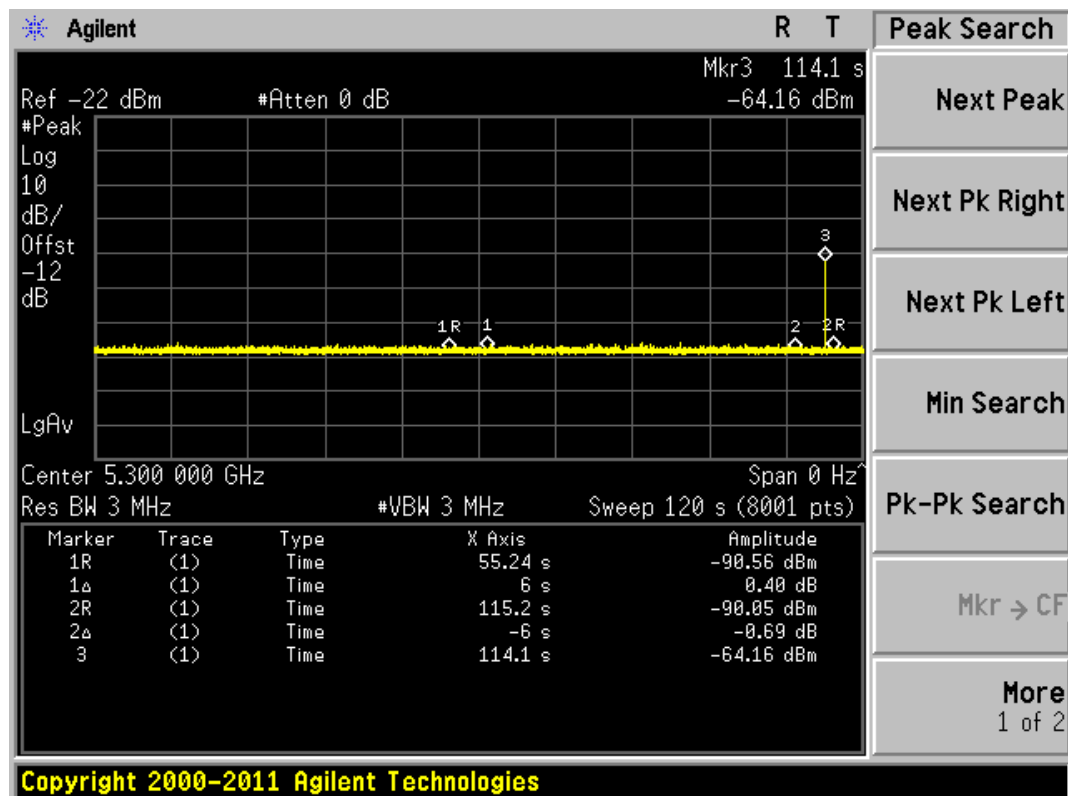
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC that channel.

5.3. Uncertainty

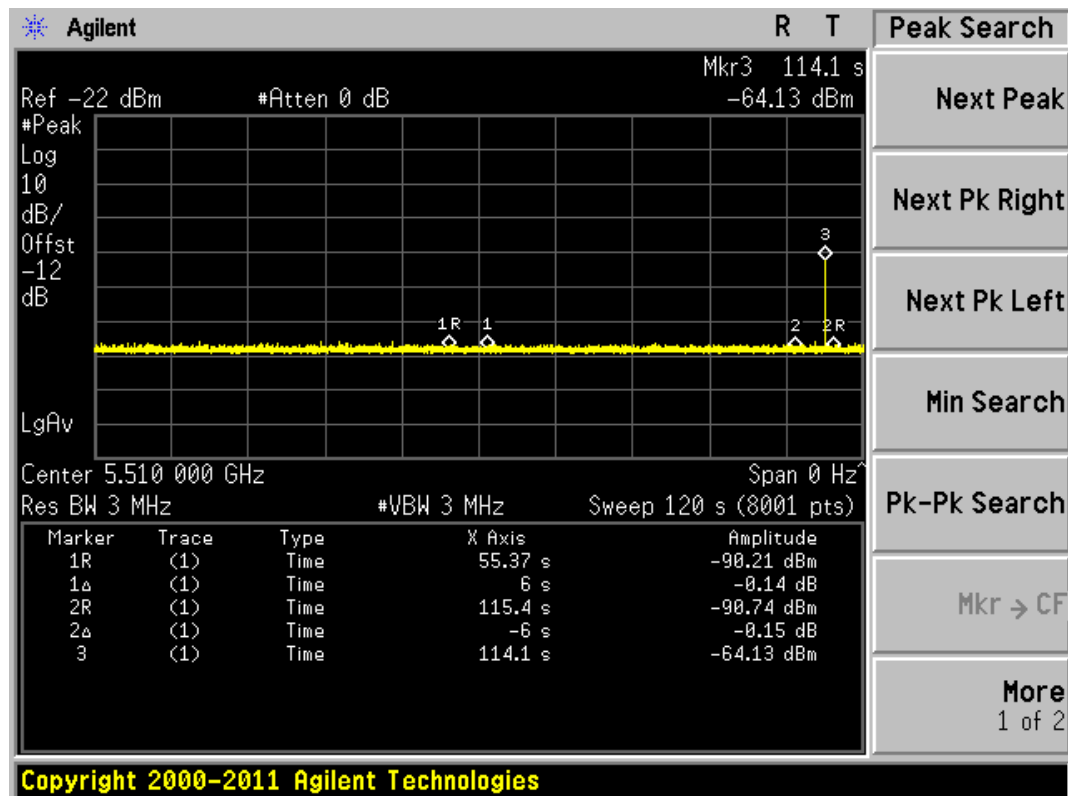
$\pm 1\text{ms}$.

5.4. Test Result of Radar Burst at the End of the Channel Availability Check Time

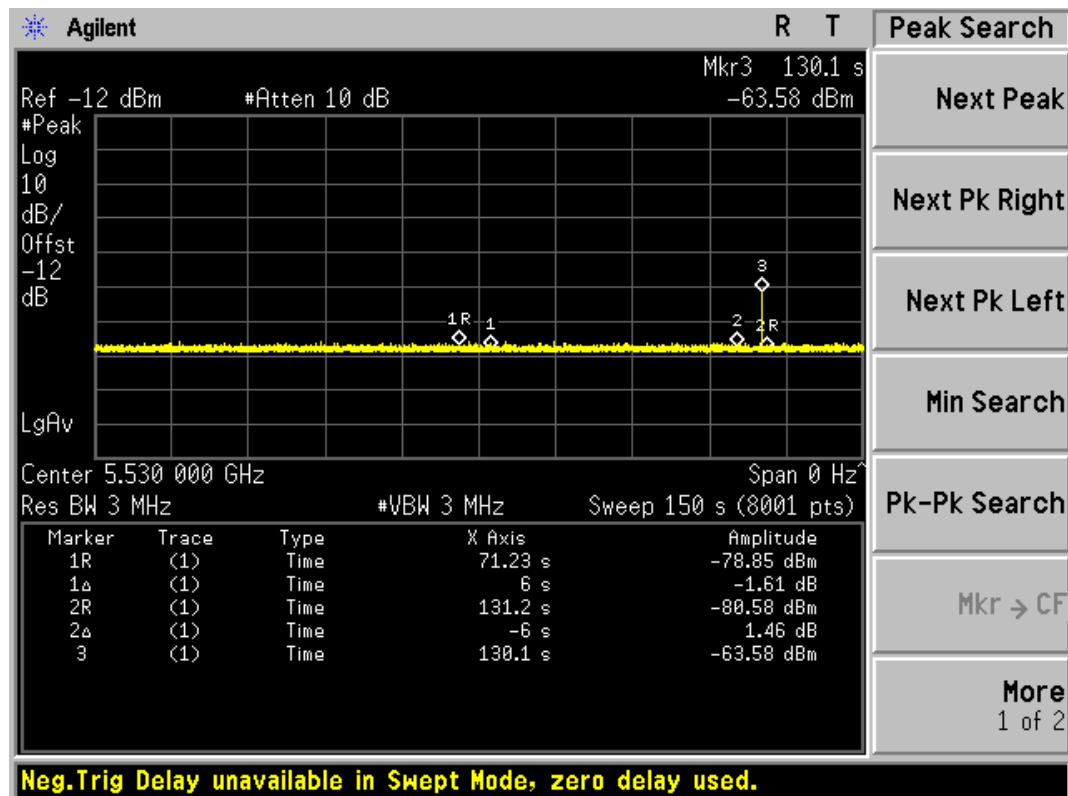
Product : Wireless Access Point
 Test Item : Radar Burst at the End of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz



Product : Wireless Access Point
 Test Item : Radar Burst at the End of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz



Product : Wireless Access Point
 Test Item : Radar Burst at the End of the Channel Availability Check Time
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz



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

6.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

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

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

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5300 MHz, 5510MHz and 5530MHz.

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

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at -63dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the DFS Response requirement values table.

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

6.2. Test Requirement

Parameter	Value
Channel Move Time	10 Seconds
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period
Non-Occupancy Period	Minimum 30 minutes

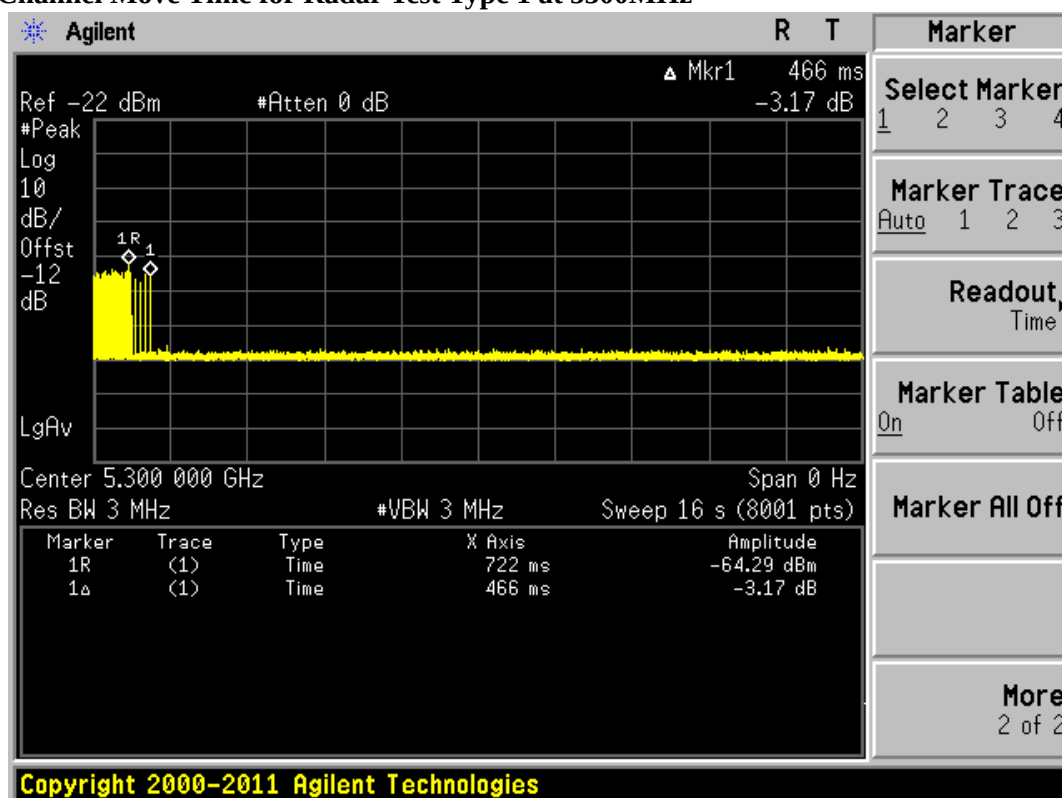
6.3. Uncertainty

± 1ms.

6.4. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

Product : Wireless Access Point
 Test Item : Channel Move Time Test
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Channel Move Time for Radar Test Type 1 at 5300MHz

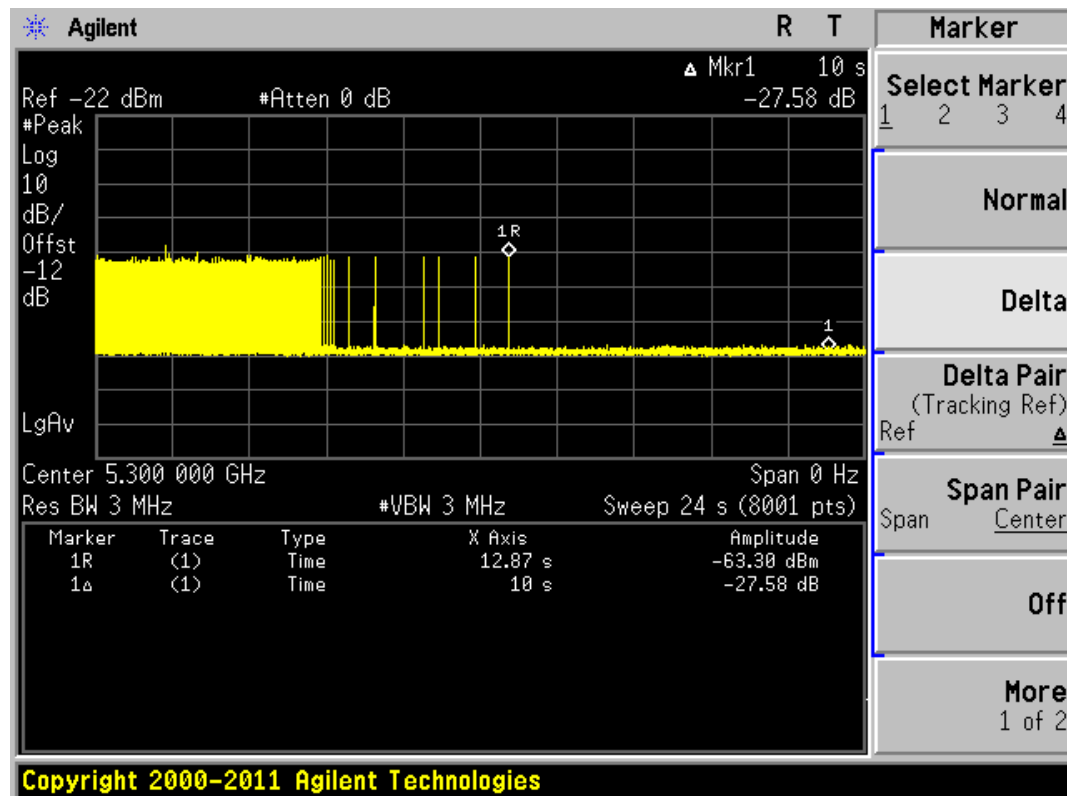


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.466	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Move Time Test
 Radar Type : Type 5
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Channel Move Time for Radar Test Type 5 at 5300MHz

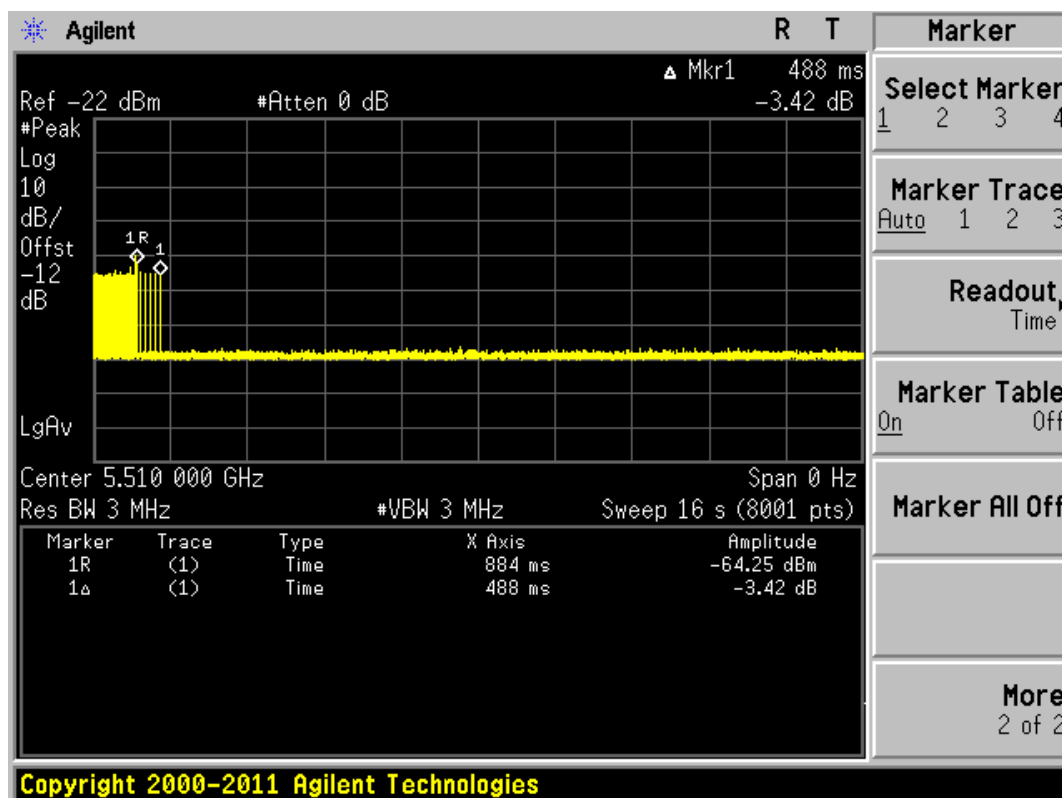


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Move Time
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Channel Move Time for Radar Test Type 1 at 5510MHz

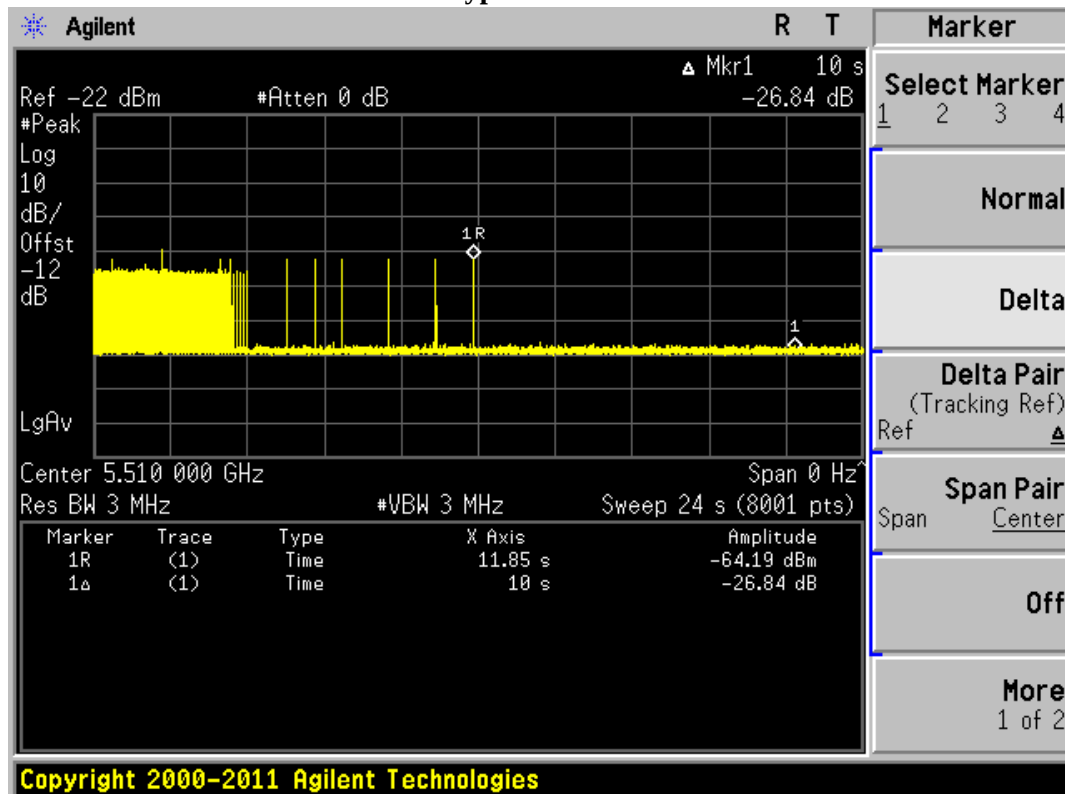


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.488	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Move Time
 Radar Type : Type 5
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Channel Move Time for Radar Test Type 5 at 5510MHz

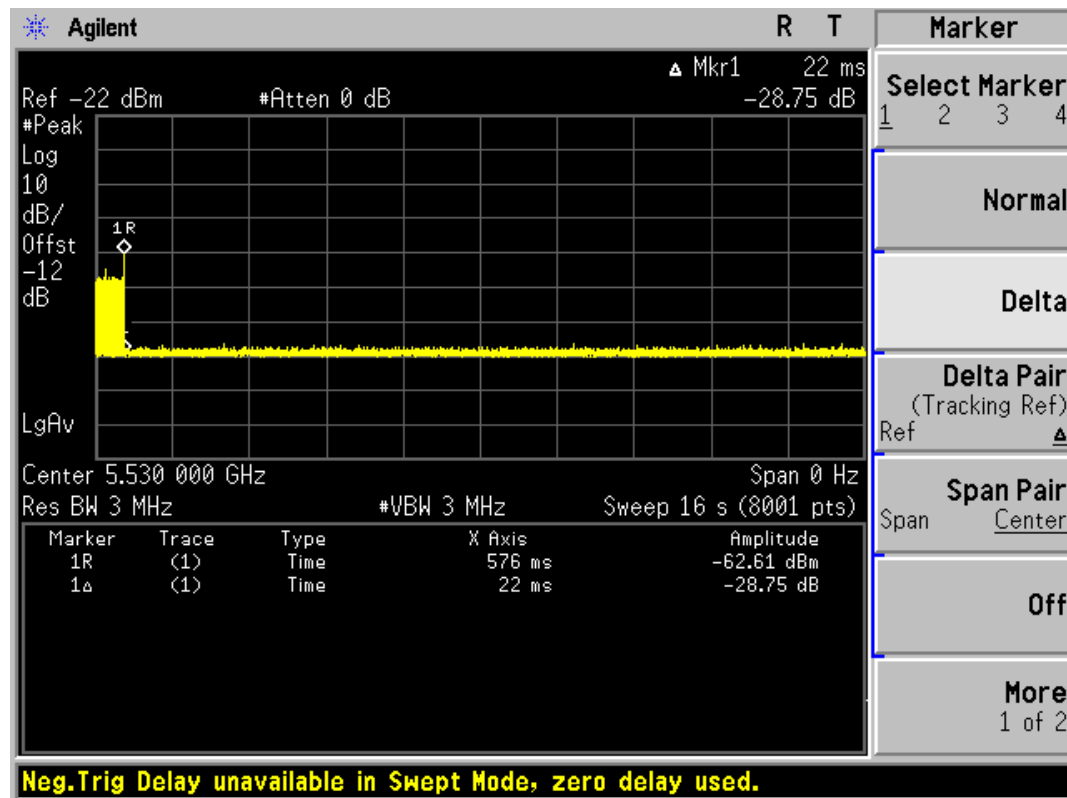


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Move Time
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Channel Move Time for Radar Test Type 1 at 5530MHz

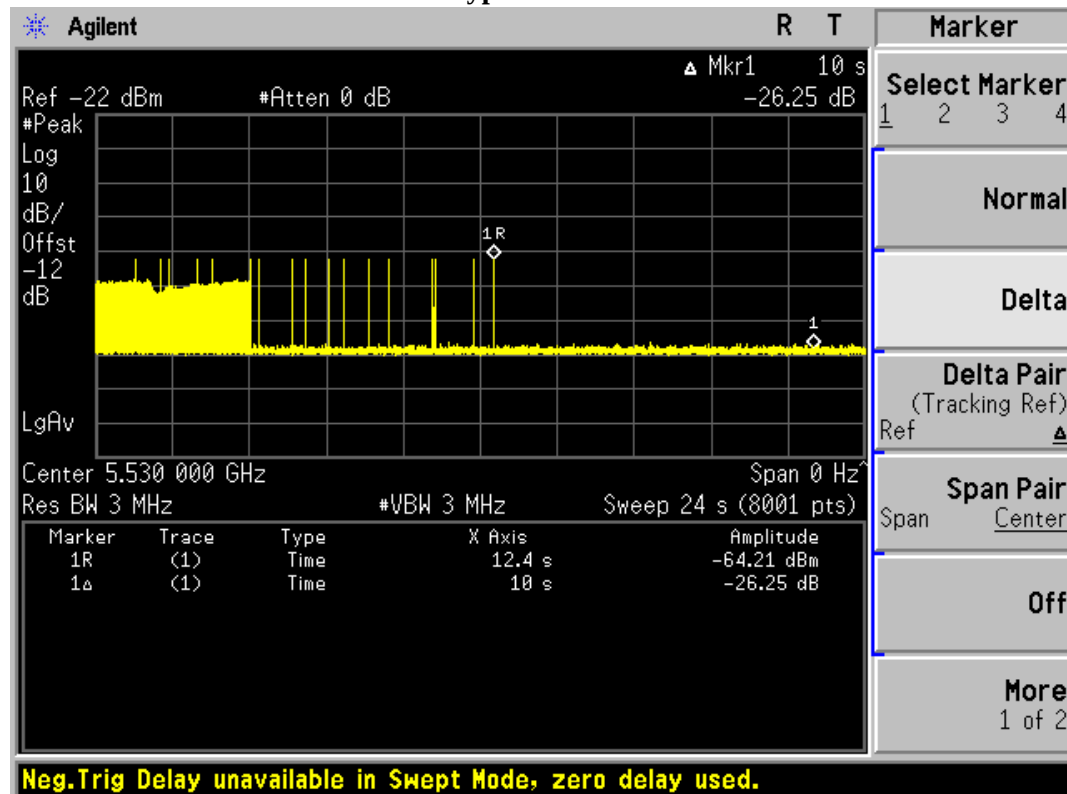


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.022	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Move Time
 Radar Type : Type 5
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Channel Move Time for Radar Test Type 5 at 5530MHz

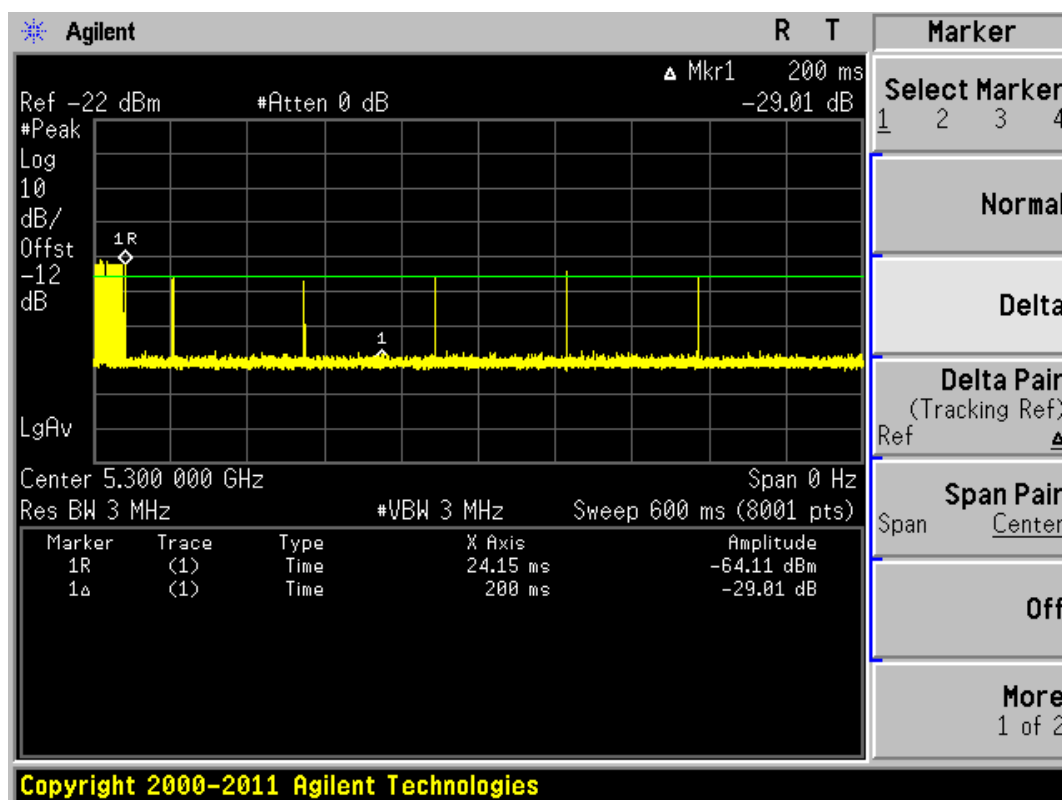


Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Channel Closing Transmission Time for Radar Test Type 1 at 5300 MHz

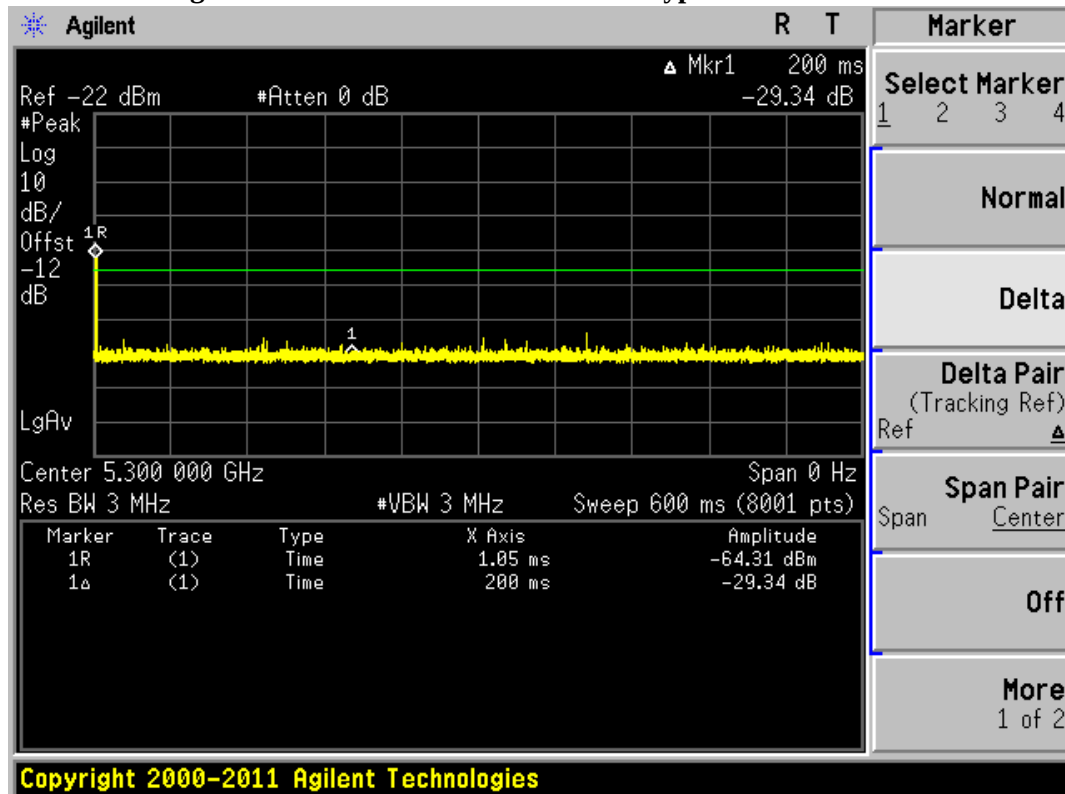


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0.225	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 5
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Channel Closing Transmission Time for Radar Test Type 5 at 5300 MHz

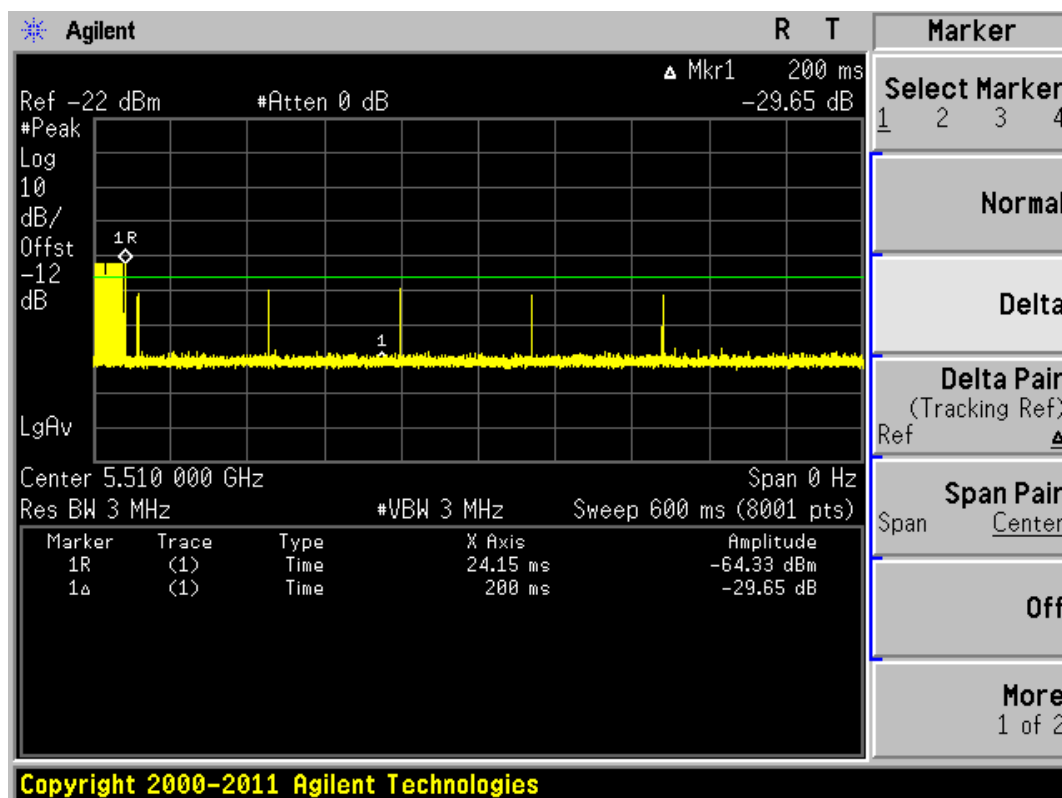


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Channel Closing Transmission Time for Radar Test Type 1 at 5510 MHz

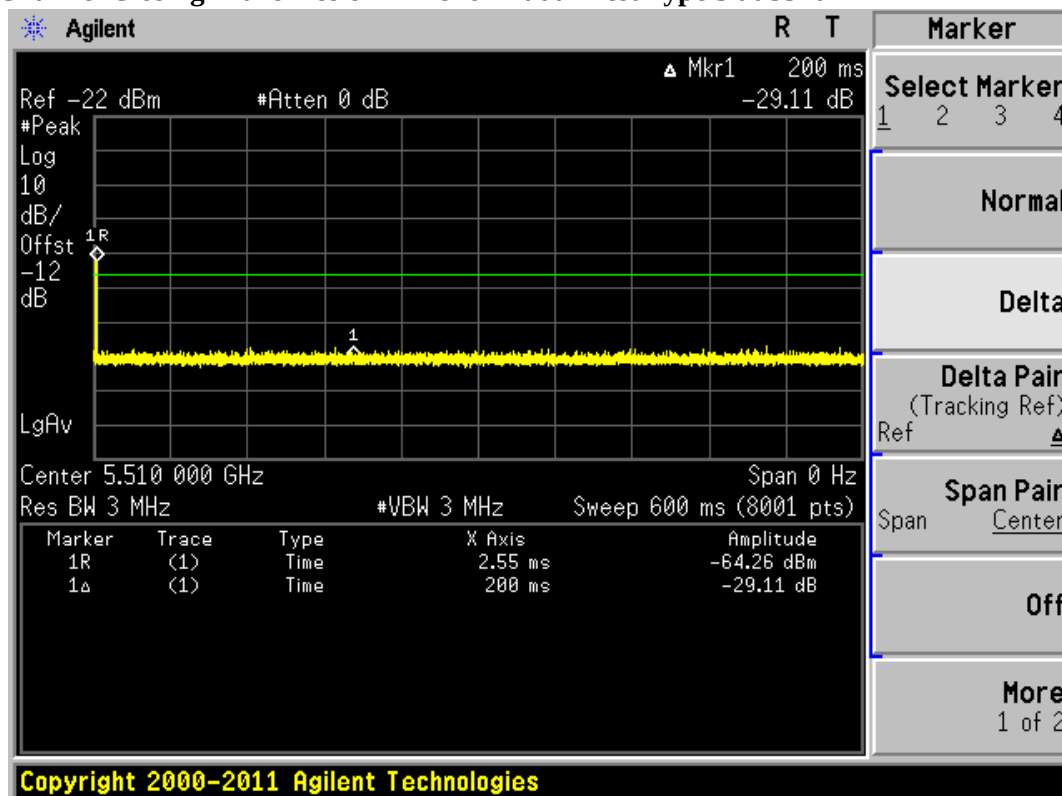


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0.225	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 5
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Channel Closing Transmission Time for Radar Test Type 5 at 5510 MHz

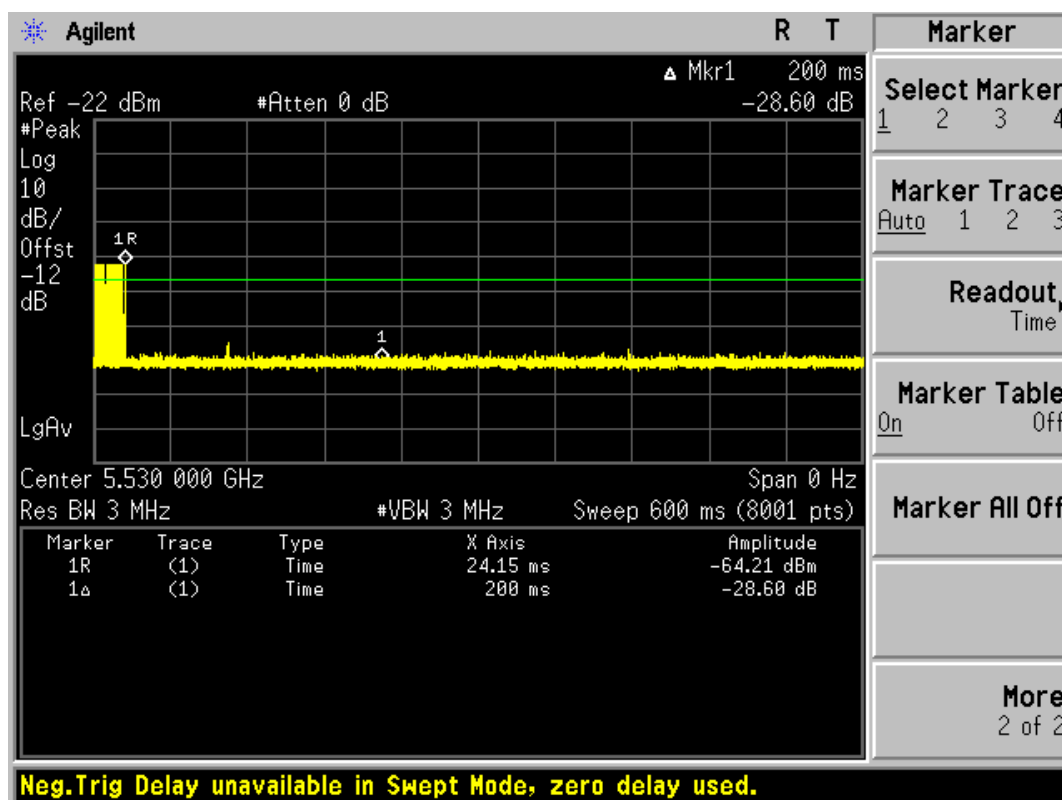


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Channel Closing Transmission Time for Radar Test Type 1 at 5530 MHz

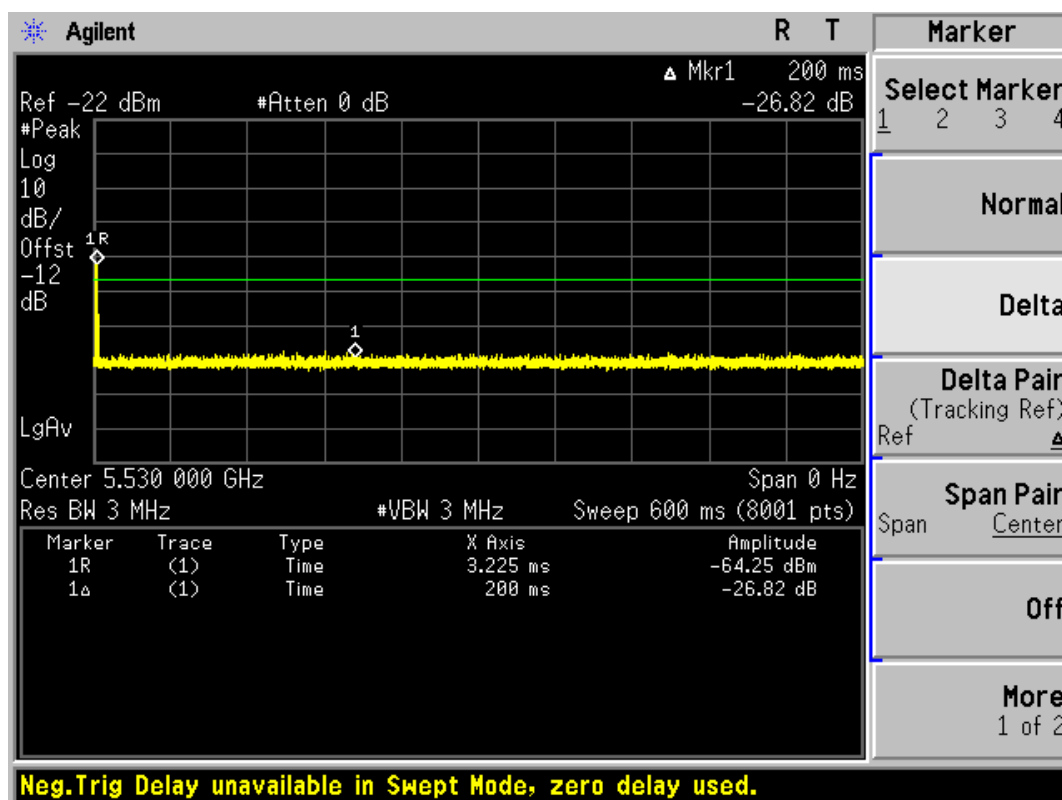


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Channel Closing Transmission Time Test
 Radar Type : Type 5
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Channel Closing Transmission Time for Radar Test Type 5 at 5530 MHz

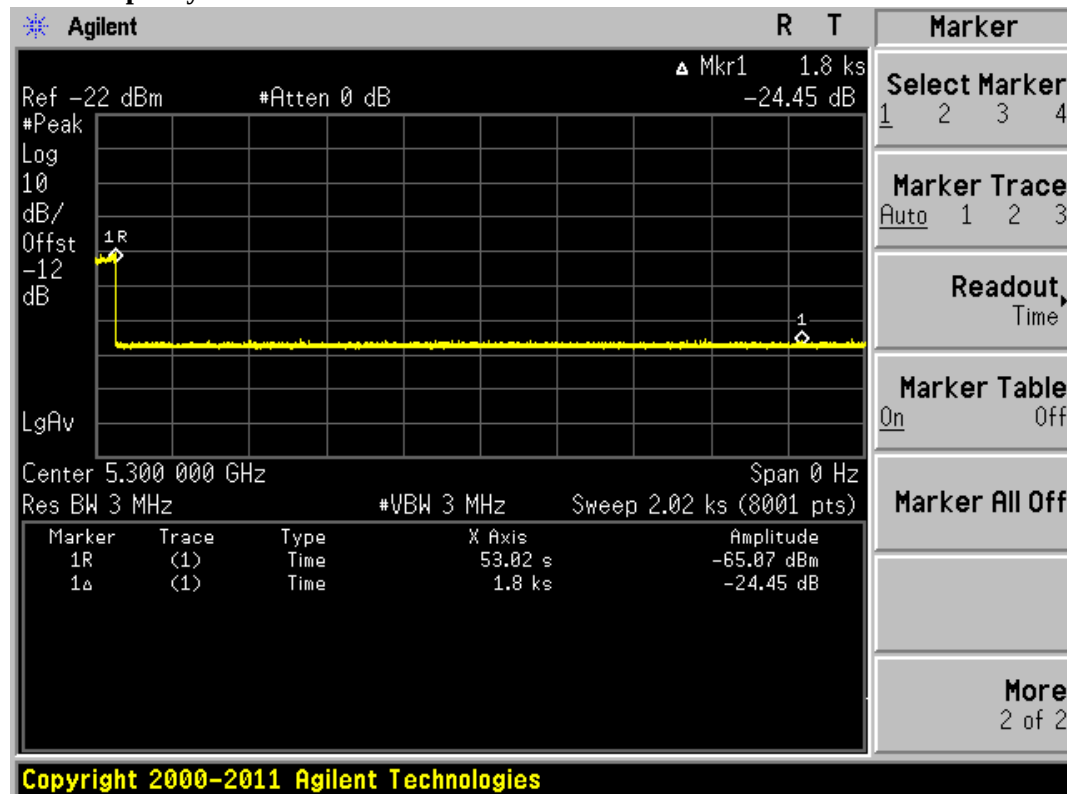


Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

Product : Wireless Access Point
 Test Item : Non-Occupancy Period
 Radar Type : Type 1
 Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Non-Occupancy Period at 5300 MHz

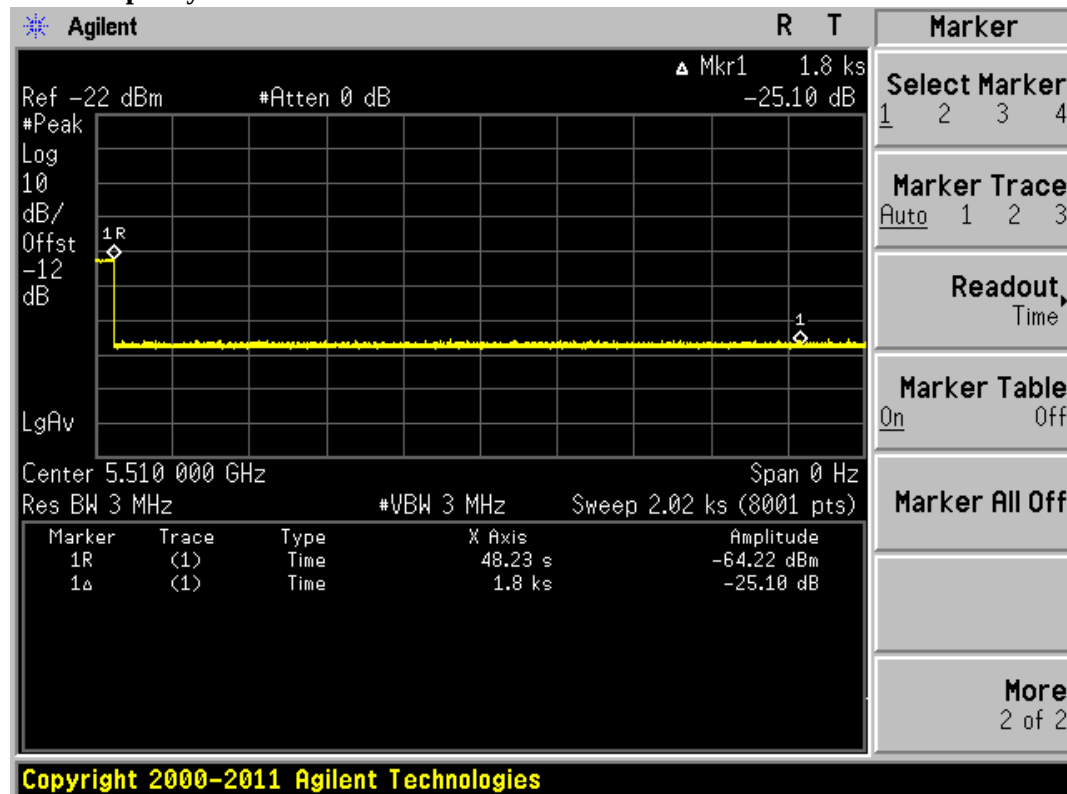


Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	≥ 30

No EUT transmissions were observed on the test channel during 30 minutes observation time.

Product : Wireless Access Point
 Test Item : Non-Occupancy Period
 Radar Type : Type 1
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Non-Occupancy Period at 5510 MHz

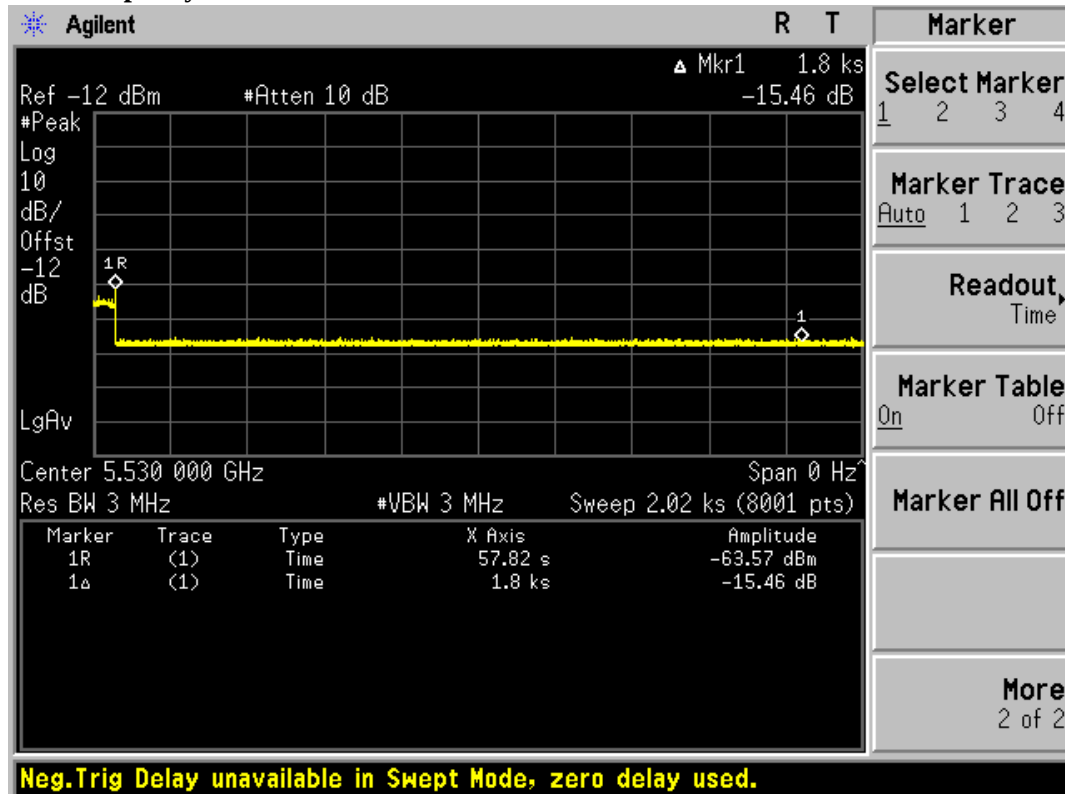


Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	>30

No EUT transmissions were observed on the test channel during 30 minutes observation time.

Product : Wireless Access Point
 Test Item : Non-Occupancy Period
 Radar Type : Type 1
 Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Non-Occupancy Period at 5530 MHz



Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	>30

No EUT transmissions were observed on the test channel during 30 minutes observation time.

7. Statistical Performance Check

7.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D01 for compliance to FCC 47CFR 15.407 requirements.

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

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5300 MHz, 5510MHz and 5530MHz..

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

The Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at -63dbm. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

7.2. Test Requirement

The 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.

Minimum percentage of successful detections

Radar Type	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

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

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

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

7.3. Uncertainty

± 1ms.

7.4. Test Result of Statistical Performance Check

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 1
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5291	1	1428	18	1
2	5291	1	1428	18	1
3	5291	1	1428	18	1
4	5291	1	1428	18	1
5	5291	1	1428	18	1
6	5291	1	1428	18	1
7	5291	1	1428	18	1
8	5291	1	1428	18	1
9	5291	1	1428	18	1
10	5291	1	1428	18	1
11	5291	1	1428	18	1
12	5291	1	1428	18	1
13	5291	1	1428	18	1
14	5291	1	1428	18	1
15	5291	1	1428	18	1
16	5291	1	1428	18	1
17	5291	1	1428	18	1
18	5291	1	1428	18	1
19	5291	1	1428	18	1
20	5291	1	1428	18	1
21	5291	1	1428	18	1
22	5291	1	1428	18	1
23	5291	1	1428	18	1
24	5291	1	1428	18	1
25	5291	1	1428	18	1
26	5291	1	1428	18	1
27	5291	1	1428	18	1
28	5291	1	1428	18	1
29	5291	1	1428	18	1
30	5291	1	1428	18	1
Detection Percentage(%)					100%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 1
Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5529	1	1428	18	1
2	5529	1	1428	18	1
3	5529	1	1428	18	1
4	5529	1	1428	18	1
5	5529	1	1428	18	1
6	5529	1	1428	18	1
7	5529	1	1428	18	1
8	5529	1	1428	18	1
9	5529	1	1428	18	1
10	5529	1	1428	18	1
11	5529	1	1428	18	1
12	5529	1	1428	18	1
13	5529	1	1428	18	1
14	5529	1	1428	18	1
15	5529	1	1428	18	1
16	5529	1	1428	18	1
17	5529	1	1428	18	1
18	5529	1	1428	18	1
19	5529	1	1428	18	1
20	5529	1	1428	18	1
21	5529	1	1428	18	1
22	5529	1	1428	18	1
23	5529	1	1428	18	1
24	5529	1	1428	18	1
25	5529	1	1428	18	1
26	5529	1	1428	18	1
27	5529	1	1428	18	1
28	5529	1	1428	18	1
29	5529	1	1428	18	0
30	5529	1	1428	18	1
Detection Percentage(%)					96.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 1
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5569	1	1428	18	1
2	5569	1	1428	18	1
3	5569	1	1428	18	1
4	5569	1	1428	18	1
5	5569	1	1428	18	1
6	5569	1	1428	18	1
7	5569	1	1428	18	1
8	5569	1	1428	18	1
9	5569	1	1428	18	1
10	5569	1	1428	18	1
11	5569	1	1428	18	1
12	5569	1	1428	18	1
13	5569	1	1428	18	1
14	5569	1	1428	18	1
15	5569	1	1428	18	1
16	5569	1	1428	18	1
17	5569	1	1428	18	1
18	5569	1	1428	18	1
19	5569	1	1428	18	1
20	5569	1	1428	18	1
21	5569	1	1428	18	1
22	5569	1	1428	18	1
23	5569	1	1428	18	1
24	5569	1	1428	18	1
25	5569	1	1428	18	1
26	5569	1	1428	18	1
27	5569	1	1428	18	1
28	5569	1	1428	18	1
29	5569	1	1428	18	1
30	5569	1	1428	18	1
Detection Percentage(%)					100%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 2
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5291	29	3.1	178	1
2	5291	26	3.1	213	1
3	5291	29	4.7	190	1
4	5291	26	4.8	188	1
5	5291	23	4.5	198	1
6	5291	23	3.0	192	1
7	5291	23	3.1	208	1
8	5291	25	3.6	154	1
9	5291	27	2.8	199	1
10	5291	23	1.6	190	1
11	5291	29	2.0	209	1
12	5291	25	3.6	166	1
13	5291	23	3.9	159	1
14	5291	26	2.1	221	0
15	5291	27	4.5	179	1
16	5291	29	3.8	228	1
17	5291	24	4.0	162	1
18	5291	29	2.7	166	1
19	5291	25	3.6	218	0
20	5291	29	2.8	201	1
21	5291	24	4.0	159	1
22	5291	27	1.2	225	1
23	5291	29	4.1	152	0
24	5291	27	1.0	185	1
25	5291	27	1.4	213	1
26	5291	25	4.6	205	1
27	5291	27	2.7	221	1
28	5291	23	3.0	200	1
29	5291	28	2.2	211	0
30	5291	24	2.2	182	1
Detection Percentage(%)					86.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 2
Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5529	28	1.4	187	1
2	5529	28	4.3	199	1
3	5529	26	3.7	169	1
4	5529	25	4.9	158	0
5	5529	29	1.4	211	1
6	5529	29	1.6	190	1
7	5529	27	3.6	180	1
8	5529	25	3.1	207	1
9	5529	25	3.8	169	0
10	5529	23	2.0	230	1
11	5529	23	2.5	230	1
12	5529	25	4.5	176	1
13	5529	25	1.5	222	1
14	5529	27	2.1	188	1
15	5529	26	2.3	213	1
16	5529	23	2.2	191	0
17	5529	23	4.1	224	1
18	5529	29	4.1	202	0
19	5529	24	4.6	162	1
20	5529	25	3.5	211	1
21	5529	28	2.6	230	1
22	5529	29	4.5	214	1
23	5529	25	4.5	171	0
24	5529	27	3.2	160	0
25	5529	26	2.8	226	1
26	5529	29	3.6	224	1
27	5529	23	3.4	165	1
28	5529	28	5.0	168	1
29	5529	25	4.6	169	1
30	5529	23	4.8	157	1
Detection Percentage(%)					80%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 2
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5569	25	2.4	202	1
2	5569	29	4.4	163	1
3	5569	25	5.0	156	0
4	5569	28	1.8	212	1
5	5569	26	4.5	201	1
6	5569	25	4.3	171	1
7	5569	26	4.6	150	1
8	5569	23	4.5	166	1
9	5569	29	3.4	198	1
10	5569	27	1.6	188	1
11	5569	26	2.3	214	0
12	5569	25	3.4	163	1
13	5569	25	3.8	150	1
14	5569	24	4.2	210	1
15	5569	23	5.0	177	0
16	5569	29	4.3	152	1
17	5569	27	5.0	161	0
18	5569	27	2.5	182	1
19	5569	27	3.2	165	0
20	5569	28	2.4	155	1
21	5569	28	3.6	212	1
22	5569	28	1.1	166	1
23	5569	29	4.4	162	1
24	5569	23	3.0	168	1
25	5569	26	3.1	173	1
26	5569	23	4.2	186	1
27	5569	27	2.9	208	1
28	5569	28	3.9	158	1
29	5569	27	1.8	165	1
30	5569	24	4.7	153	1
Detection Percentage(%)					86.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 3
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5291	17	7.7	442	1
2	5291	16	8.4	257	1
3	5291	17	8.1	448	1
4	5291	16	9.5	378	1
5	5291	17	8.5	404	1
6	5291	16	8.4	497	1
7	5291	16	8.4	427	1
8	5291	16	7.0	276	1
9	5291	17	9.0	309	1
10	5291	18	9.2	470	1
11	5291	16	7.0	420	0
12	5291	17	7.7	480	1
13	5291	18	6.9	356	1
14	5291	16	7.7	259	1
15	5291	18	9.4	292	1
16	5291	18	9.3	264	1
17	5291	16	8.4	436	1
18	5291	18	6.8	337	1
19	5291	17	8.8	342	1
20	5291	18	9.0	480	1
21	5291	16	6.8	327	1
22	5291	17	7.5	269	1
23	5291	16	7.3	276	1
24	5291	18	6.5	378	0
25	5291	17	9.1	413	0
26	5291	17	6.1	270	1
27	5291	16	8.5	490	1
28	5291	18	8.1	335	1
29	5291	16	9.9	356	1
30	5291	17	8.2	285	0
Detection Percentage(%)					86.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 3
Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5529	17	7.3	498	1
2	5529	16	8.1	287	1
3	5529	17	9.8	307	1
4	5529	17	6.1	477	1
5	5529	17	7.9	399	1
6	5529	16	9.3	340	1
7	5529	16	6.9	369	1
8	5529	18	8.1	264	1
9	5529	17	9.2	422	1
10	5529	17	9.2	403	1
11	5529	18	7.9	315	1
12	5529	18	7.4	310	0
13	5529	18	6.7	468	1
14	5529	18	6.8	266	1
15	5529	17	7.2	385	1
16	5529	18	9.4	458	1
17	5529	18	8.9	300	1
18	5529	17	8.3	376	1
19	5529	18	6.7	497	1
20	5529	17	8.8	269	1
21	5529	18	9.2	433	1
22	5529	18	6.6	469	1
23	5529	17	7.1	456	1
24	5529	17	6.1	417	1
25	5529	16	6.0	281	1
26	5529	17	8.8	488	1
27	5529	16	6.1	392	1
28	5529	16	6.5	351	1
29	5529	17	6.6	456	1
30	5529	18	6.5	330	1
Detection Percentage(%)					96.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 3
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5569	16	9.6	466	1
2	5569	17	9.5	345	0
3	5569	18	6.1	397	1
4	5569	18	8.2	430	1
5	5569	17	9.7	473	1
6	5569	18	7.1	408	1
7	5569	16	8.9	408	1
8	5569	17	6.3	318	1
9	5569	18	9.9	476	1
10	5569	18	8.0	443	1
11	5569	17	7.8	403	1
12	5569	18	9.7	368	1
13	5569	16	9.5	403	1
14	5569	16	8.5	378	1
15	5569	17	6.7	279	0
16	5569	17	9.4	447	1
17	5569	16	10.0	261	1
18	5569	17	7.8	493	1
19	5569	16	6.3	371	1
20	5569	17	8.1	371	1
21	5569	18	7.7	438	1
22	5569	17	7.2	414	1
23	5569	16	8.7	257	1
24	5569	18	9.6	471	0
25	5569	16	7.6	379	1
26	5569	18	9.6	291	1
27	5569	17	8.3	322	1
28	5569	18	6.5	324	1
29	5569	17	8.7	462	1
30	5569	18	7.7	424	0
Detection Percentage(%)					86.6%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 4
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5291	14	19.8	457	1
2	5291	15	11.5	466	1
3	5291	16	14.3	283	1
4	5291	13	14.8	405	1
5	5291	12	17.1	448	0
6	5291	16	11.8	358	1
7	5291	13	13.1	431	1
8	5291	12	13.8	487	1
9	5291	12	19.2	308	1
10	5291	13	18.0	279	1
11	5291	15	14.6	267	0
12	5291	12	16.4	369	1
13	5291	12	18.2	327	1
14	5291	15	16.9	286	1
15	5291	16	11.7	398	1
16	5291	16	18.3	326	1
17	5291	14	11.6	280	1
18	5291	15	13.2	417	1
19	5291	15	19.0	274	1
20	5291	12	16.9	491	1
21	5291	13	15.8	484	1
22	5291	12	16.6	418	1
23	5291	12	15.6	303	1
24	5291	13	13.5	281	1
25	5291	16	18.8	490	1
26	5291	16	13.7	454	1
27	5291	12	12.5	256	1
28	5291	15	15.0	484	0
29	5291	13	17.3	310	1
30	5291	15	15.5	443	1
Detection Percentage(%)					90%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 4
Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5529	15	15.3	267	1
2	5529	15	20.0	364	0
3	5529	13	19.2	264	1
4	5529	16	12.7	359	1
5	5529	14	12.0	486	1
6	5529	15	18.3	259	1
7	5529	14	12.3	488	1
8	5529	16	19.8	431	1
9	5529	13	14.8	367	1
10	5529	13	13.8	325	0
11	5529	13	15.5	312	1
12	5529	14	14.6	362	1
13	5529	12	13.9	358	1
14	5529	13	15.9	312	1
15	5529	14	19.8	408	1
16	5529	15	17.6	425	0
17	5529	16	18.5	415	1
18	5529	14	18.2	490	1
19	5529	16	13.0	286	1
20	5529	14	17.2	481	1
21	5529	15	16.8	398	1
22	5529	14	18.8	373	1
23	5529	13	11.3	329	1
24	5529	15	11.4	373	1
25	5529	16	17.1	409	1
26	5529	12	18.1	449	1
27	5529	16	12.1	302	1
28	5529	16	16.2	400	1
29	5529	15	16.3	399	1
30	5529	15	15.5	443	1
Detection Percentage (%)					90%

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 4
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Trial #	Frequency (MHz)	Pulse Width (us)	PRI (us)	Pulses/Burs	1= Detection 0= No Detection
1	5569	13	12.8	458	1
2	5569	13	14.3	290	0
3	5569	14	14.5	309	0
4	5569	15	18.0	323	1
5	5569	13	17.2	432	1
6	5569	14	18.7	381	1
7	5569	12	13.1	497	1
8	5569	14	11.1	397	1
9	5569	15	16.6	260	1
10	5569	16	11.2	287	1
11	5569	16	19.9	424	1
12	5569	14	11.7	365	1
13	5569	12	15.2	290	0
14	5569	16	17.6	436	1
15	5569	13	15.7	313	1
16	5569	15	19.0	421	1
17	5569	16	16.2	329	1
18	5569	15	12.0	283	1
19	5569	16	11.9	440	1
20	5569	15	15.4	387	1
21	5569	16	19.1	286	1
22	5569	12	19.4	494	1
23	5569	12	17.8	346	0
24	5569	15	19.7	414	1
25	5569	13	17.4	321	0
26	5569	14	18.0	269	1
27	5569	14	11.3	414	1
28	5569	16	11.5	352	1
29	5569	12	17.4	367	1
30	5569	13	16.8	318	1
Detection Percentage (%)					83.3%

Model –n20

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	100	>60%	Pass
2	86.6	>60%	Pass
3	86.6	>60%	Pass
4	90	>60%	Pass
Total Type 1~4	90.8	>80%	Pass

Mode2 –n40

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	96.6	>60%	Pass
2	80	>60%	Pass
3	96.6	>60%	Pass
4	90	>60%	Pass
Total Type 1~4	291.2	>80%	Pass

Mode3 –ac80

Total Type 1~4 Radar Statistical Performance			
Radar Type	Detection Percentage (%)	Limit (%)	Result
1	100	>60%	Pass
2	86.6	>60%	Pass
3	86.6	>60%	Pass
4	83.3	>60%	Pass
Total Type 1~4	89.125	>80%	Pass

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 5
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5291	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5291	Statistical Check RandParm For Radar Type 5 2 trail	1
3	5291	Statistical Check RandParm For Radar Type 5 3 trail	1
4	5291	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5291	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5291	Statistical Check RandParm For Radar Type 5 6 trail	1
7	5291	Statistical Check RandParm For Radar Type 5 7 trail	1
8	5291	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5291	Statistical Check RandParm For Radar Type 5 9 trail	1
10	5291	Statistical Check RandParm For Radar Type 5 10 trail	1
11	5291	Statistical Check RandParm For Radar Type 5 11 trail	1
12	5291	Statistical Check RandParm For Radar Type 5 12 trail	1
13	5291	Statistical Check RandParm For Radar Type 5 13 trail	1
14	5291	Statistical Check RandParm For Radar Type 5 14 trail	1
15	5291	Statistical Check RandParm For Radar Type 5 15 trail	1
16	5291	Statistical Check RandParm For Radar Type 5 16 trail	1
17	5291	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5291	Statistical Check RandParm For Radar Type 5 18 trail	1
19	5291	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5291	Statistical Check RandParm For Radar Type 5 20 trail	1
21	5291	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5291	Statistical Check RandParm For Radar Type 5 22 trail	1
23	5291	Statistical Check RandParm For Radar Type 5 23 trail	1
24	5291	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5291	Statistical Check RandParm For Radar Type 5 25 trail	1
26	5291	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5291	Statistical Check RandParm For Radar Type 5 27 trail	1
28	5291	Statistical Check RandParm For Radar Type 5 28 trail	1
29	5291	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5291	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)			100
Limit			>80

Product : Wireless Access Point
 Test Item : Statistical Performance Check
 Radar Type : Type 5
 Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5529	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5529	Statistical Check RandParm For Radar Type 5 2 trail	1
3	5529	Statistical Check RandParm For Radar Type 5 3 trail	1
4	5529	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5529	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5529	Statistical Check RandParm For Radar Type 5 6 trail	1
7	5529	Statistical Check RandParm For Radar Type 5 7 trail	1
8	5529	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5529	Statistical Check RandParm For Radar Type 5 9 trail	1
10	5529	Statistical Check RandParm For Radar Type 5 10 trail	1
11	5529	Statistical Check RandParm For Radar Type 5 11 trail	1
12	5529	Statistical Check RandParm For Radar Type 5 12 trail	1
13	5529	Statistical Check RandParm For Radar Type 5 13 trail	1
14	5529	Statistical Check RandParm For Radar Type 5 14 trail	1
15	5529	Statistical Check RandParm For Radar Type 5 15 trail	1
16	5529	Statistical Check RandParm For Radar Type 5 16 trail	1
17	5529	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5529	Statistical Check RandParm For Radar Type 5 18 trail	1
19	5529	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5529	Statistical Check RandParm For Radar Type 5 20 trail	1
21	5529	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5529	Statistical Check RandParm For Radar Type 5 22 trail	1
23	5529	Statistical Check RandParm For Radar Type 5 23 trail	1
24	5529	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5529	Statistical Check RandParm For Radar Type 5 25 trail	1
26	5529	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5529	Statistical Check RandParm For Radar Type 5 27 trail	1
28	5529	Statistical Check RandParm For Radar Type 5 28 trail	1
29	5529	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5529	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)			100
Limit			>80

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 5
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5569	Statistical Check RandParm For Radar Type 5 1 trail	1
2	5569	Statistical Check RandParm For Radar Type 5 2 trail	1
3	5569	Statistical Check RandParm For Radar Type 5 3 trail	1
4	5569	Statistical Check RandParm For Radar Type 5 4 trail	1
5	5569	Statistical Check RandParm For Radar Type 5 5 trail	1
6	5569	Statistical Check RandParm For Radar Type 5 6 trail	1
7	5569	Statistical Check RandParm For Radar Type 5 7 trail	1
8	5569	Statistical Check RandParm For Radar Type 5 8 trail	1
9	5569	Statistical Check RandParm For Radar Type 5 9 trail	1
10	5569	Statistical Check RandParm For Radar Type 5 10 trail	0
11	5569	Statistical Check RandParm For Radar Type 5 11 trail	1
12	5569	Statistical Check RandParm For Radar Type 5 12 trail	1
13	5569	Statistical Check RandParm For Radar Type 5 13 trail	1
14	5569	Statistical Check RandParm For Radar Type 5 14 trail	1
15	5569	Statistical Check RandParm For Radar Type 5 15 trail	1
16	5569	Statistical Check RandParm For Radar Type 5 16 trail	1
17	5569	Statistical Check RandParm For Radar Type 5 17 trail	1
18	5569	Statistical Check RandParm For Radar Type 5 18 trail	1
19	5569	Statistical Check RandParm For Radar Type 5 19 trail	1
20	5569	Statistical Check RandParm For Radar Type 5 20 trail	1
21	5569	Statistical Check RandParm For Radar Type 5 21 trail	1
22	5569	Statistical Check RandParm For Radar Type 5 22 trail	1
23	5569	Statistical Check RandParm For Radar Type 5 23 trail	1
24	5569	Statistical Check RandParm For Radar Type 5 24 trail	1
25	5569	Statistical Check RandParm For Radar Type 5 25 trail	1
26	5569	Statistical Check RandParm For Radar Type 5 26 trail	1
27	5569	Statistical Check RandParm For Radar Type 5 27 trail	1
28	5569	Statistical Check RandParm For Radar Type 5 28 trail	1
29	5569	Statistical Check RandParm For Radar Type 5 29 trail	1
30	5569	Statistical Check RandParm For Radar Type 5 30 trail	1
Detection Percentage (%)			96.6
Limit			>80

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 6
Test Mode : Mode 1: Transmit (802.11n-20BW)-5.3GHz

Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5291	Statistical_Check_Hopping Frequency	1
2	5291	Statistical_Check_Hopping Frequency	1
3	5291	Statistical_Check_Hopping Frequency	1
4	5291	Statistical_Check_Hopping Frequency	1
5	5291	Statistical_Check_Hopping Frequency	1
6	5291	Statistical_Check_Hopping Frequency	1
7	5291	Statistical_Check_Hopping Frequency	1
8	5291	Statistical_Check_Hopping Frequency	1
9	5291	Statistical_Check_Hopping Frequency	1
10	5291	Statistical_Check_Hopping Frequency	1
11	5291	Statistical_Check_Hopping Frequency	1
12	5291	Statistical_Check_Hopping Frequency	1
13	5291	Statistical_Check_Hopping Frequency	1
14	5291	Statistical_Check_Hopping Frequency	1
15	5291	Statistical_Check_Hopping Frequency	1
16	5291	Statistical_Check_Hopping Frequency	1
17	5291	Statistical_Check_Hopping Frequency	1
18	5291	Statistical_Check_Hopping Frequency	1
19	5291	Statistical_Check_Hopping Frequency	1
20	5291	Statistical_Check_Hopping Frequency	1
21	5291	Statistical_Check_Hopping Frequency	1
22	5291	Statistical_Check_Hopping Frequency	1
23	5291	Statistical_Check_Hopping Frequency	1
24	5291	Statistical_Check_Hopping Frequency	1
25	5291	Statistical_Check_Hopping Frequency	1
26	5291	Statistical_Check_Hopping Frequency	1
27	5291	Statistical_Check_Hopping Frequency	1
28	5291	Statistical_Check_Hopping Frequency	1
29	5291	Statistical_Check_Hopping Frequency	1
30	5291	Statistical_Check_Hopping Frequency	1
Detection Percentage (%)			100
Limit			>70

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 6
Test Mode : Mode 2: Transmit (802.11n-40BW)-5.51GHz

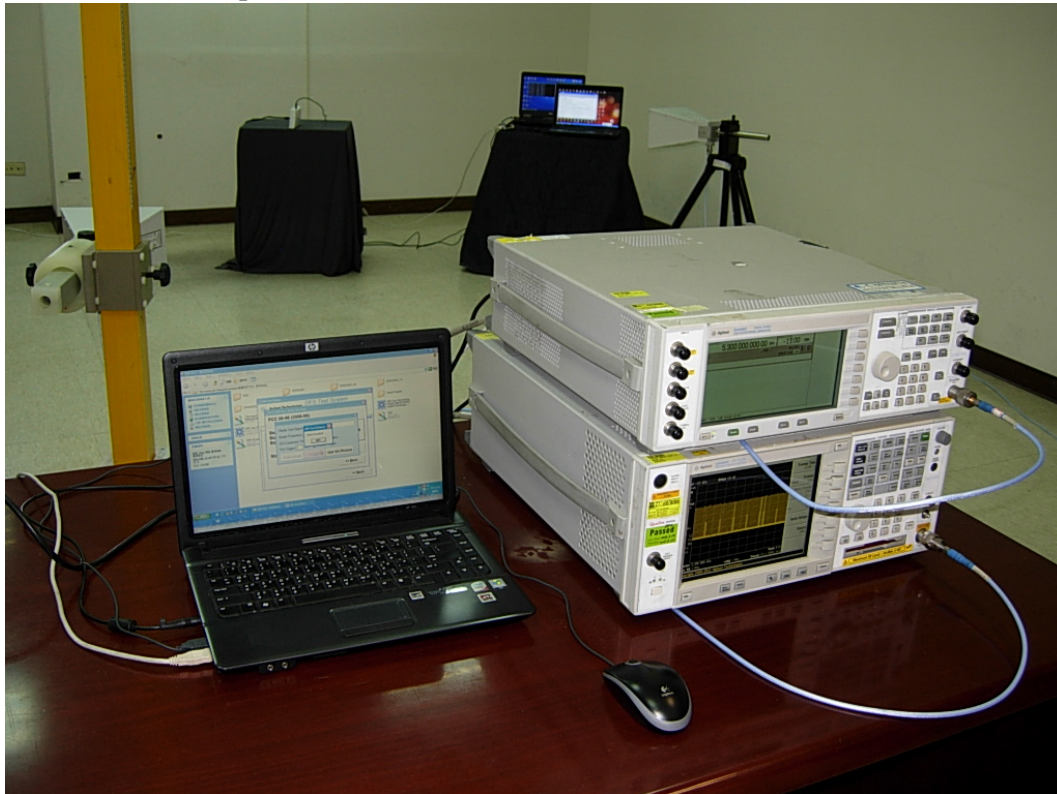
Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5529	Statistical Check Hopping Frequency	1
2	5529	Statistical Check Hopping Frequency	1
3	5529	Statistical Check Hopping Frequency	1
4	5529	Statistical Check Hopping Frequency	1
5	5529	Statistical Check Hopping Frequency	1
6	5529	Statistical Check Hopping Frequency	1
7	5529	Statistical Check Hopping Frequency	1
8	5529	Statistical Check Hopping Frequency	1
9	5529	Statistical Check Hopping Frequency	1
10	5529	Statistical Check Hopping Frequency	1
11	5529	Statistical Check Hopping Frequency	1
12	5529	Statistical Check Hopping Frequency	1
13	5529	Statistical Check Hopping Frequency	1
14	5529	Statistical Check Hopping Frequency	1
15	5529	Statistical Check Hopping Frequency	1
16	5529	Statistical Check Hopping Frequency	1
17	5529	Statistical Check Hopping Frequency	1
18	5529	Statistical Check Hopping Frequency	1
19	5529	Statistical Check Hopping Frequency	1
20	5529	Statistical Check Hopping Frequency	1
21	5529	Statistical Check Hopping Frequency	1
22	5529	Statistical Check Hopping Frequency	1
23	5529	Statistical Check Hopping Frequency	1
24	5529	Statistical Check Hopping Frequency	1
25	5529	Statistical Check Hopping Frequency	1
26	5529	Statistical Check Hopping Frequency	1
27	5529	Statistical Check Hopping Frequency	1
28	5529	Statistical Check Hopping Frequency	1
29	5529	Statistical Check Hopping Frequency	1
30	5529	Statistical Check Hopping Frequency	1
Detection Percentage (%)			100
Limit			>70

Product : Wireless Access Point
Test Item : Statistical Performance Check
Radar Type : Type 6
Test Mode : Mode 3: Transmit (802.11ac-80BW)-5.53GHz

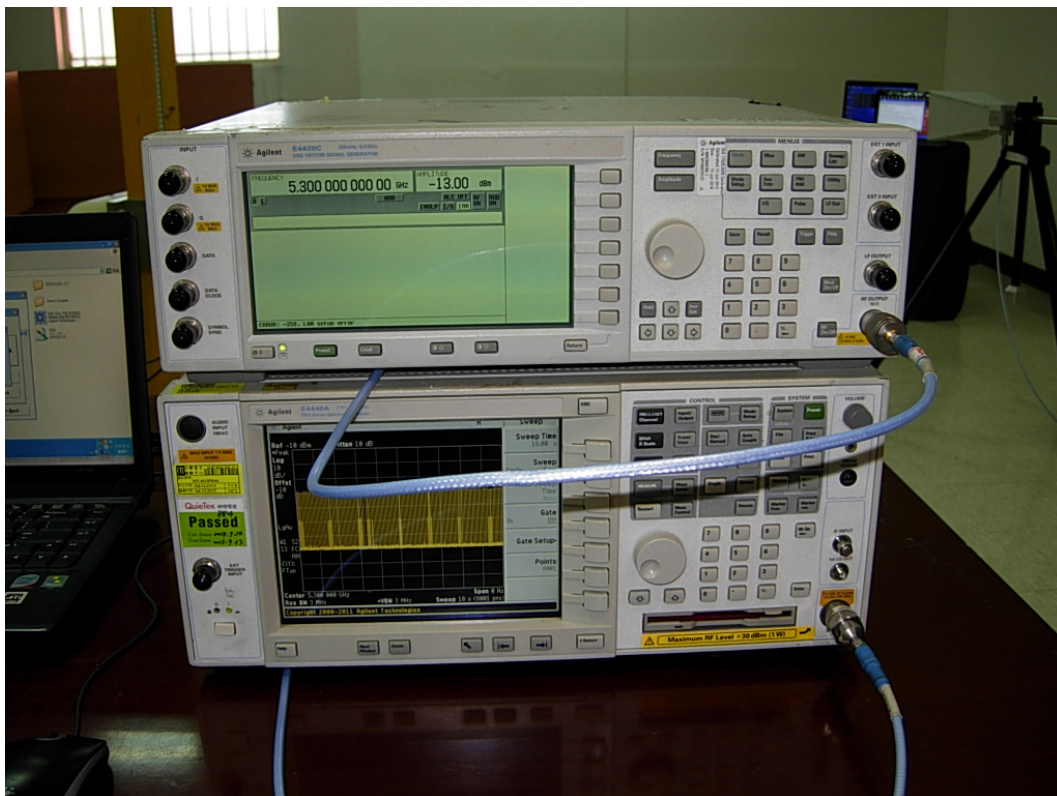
Trial #	Frequency (MHz)	*Filename	1= Detection 0= No Detection
1	5569	Statistical Check Hopping Frequency	1
2	5569	Statistical Check Hopping Frequency	1
3	5569	Statistical Check Hopping Frequency	1
4	5569	Statistical Check Hopping Frequency	1
5	5569	Statistical Check Hopping Frequency	1
6	5569	Statistical Check Hopping Frequency	1
7	5569	Statistical Check Hopping Frequency	1
8	5569	Statistical Check Hopping Frequency	1
9	5569	Statistical Check Hopping Frequency	1
10	5569	Statistical Check Hopping Frequency	1
11	5569	Statistical Check Hopping Frequency	1
12	5569	Statistical Check Hopping Frequency	1
13	5569	Statistical Check Hopping Frequency	1
14	5569	Statistical Check Hopping Frequency	1
15	5569	Statistical Check Hopping Frequency	1
16	5569	Statistical Check Hopping Frequency	1
17	5569	Statistical Check Hopping Frequency	1
18	5569	Statistical Check Hopping Frequency	1
19	5569	Statistical Check Hopping Frequency	1
20	5569	Statistical Check Hopping Frequency	1
21	5569	Statistical Check Hopping Frequency	1
22	5569	Statistical Check Hopping Frequency	1
23	5569	Statistical Check Hopping Frequency	1
24	5569	Statistical Check Hopping Frequency	1
25	5569	Statistical Check Hopping Frequency	1
26	5569	Statistical Check Hopping Frequency	1
27	5569	Statistical Check Hopping Frequency	1
28	5569	Statistical Check Hopping Frequency	1
29	5569	Statistical Check Hopping Frequency	1
30	5569	Statistical Check Hopping Frequency	1
Detection Percentage (%)			100
Limit			>70

8. DFS Test Setup Photo

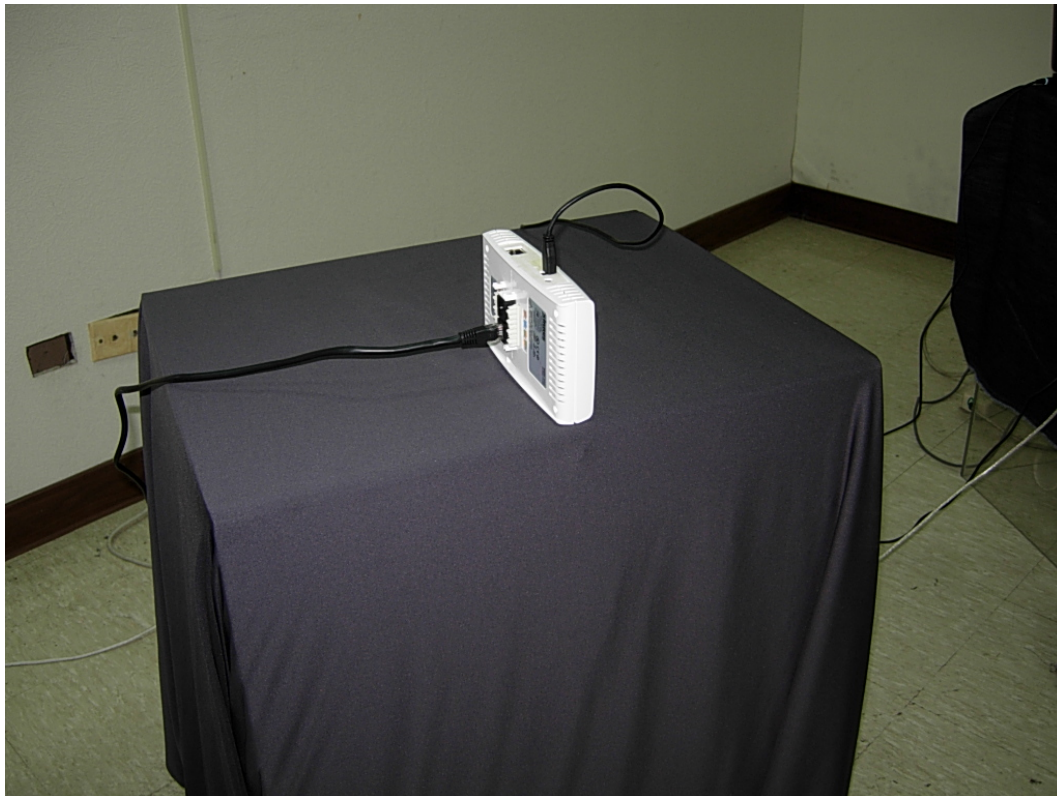
Full DFS Test Setup Photo



DFS Set-up Photo: Spectrum Analyzer and Radar Generator



DFS Set-up Photo: Master (EUT)



DFS Set-up Photo: Client device



Attachment 2 : EUT Detailed Photographs

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



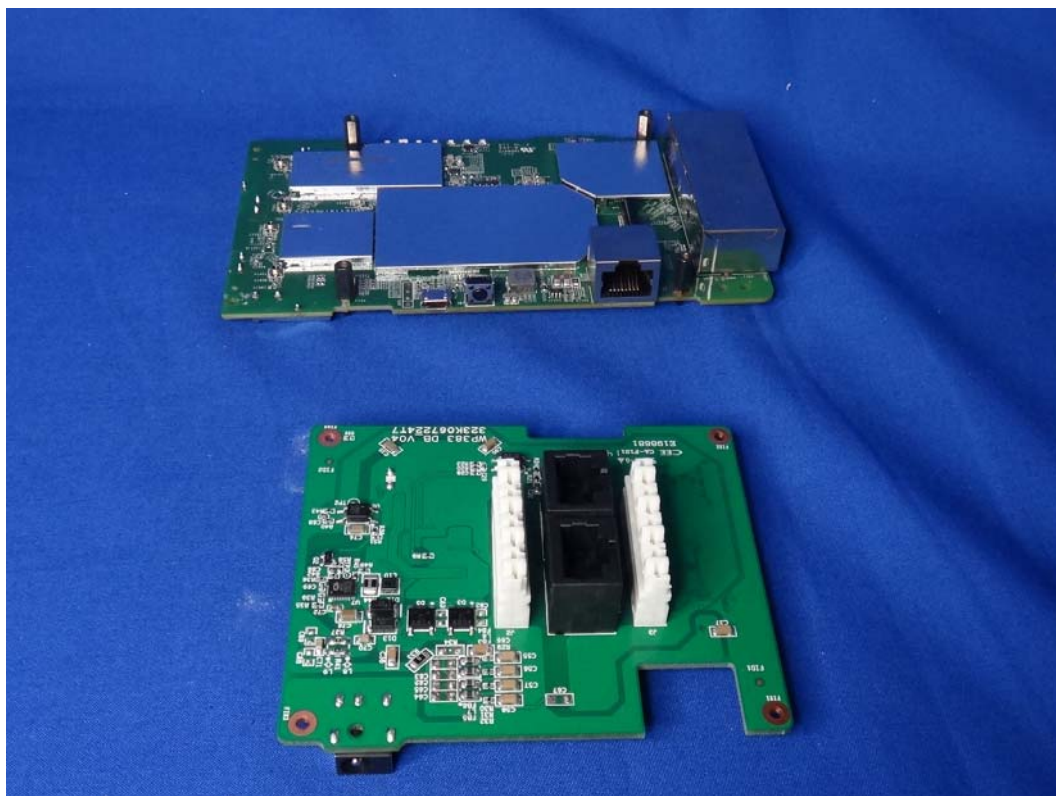
(8) EUT Photo



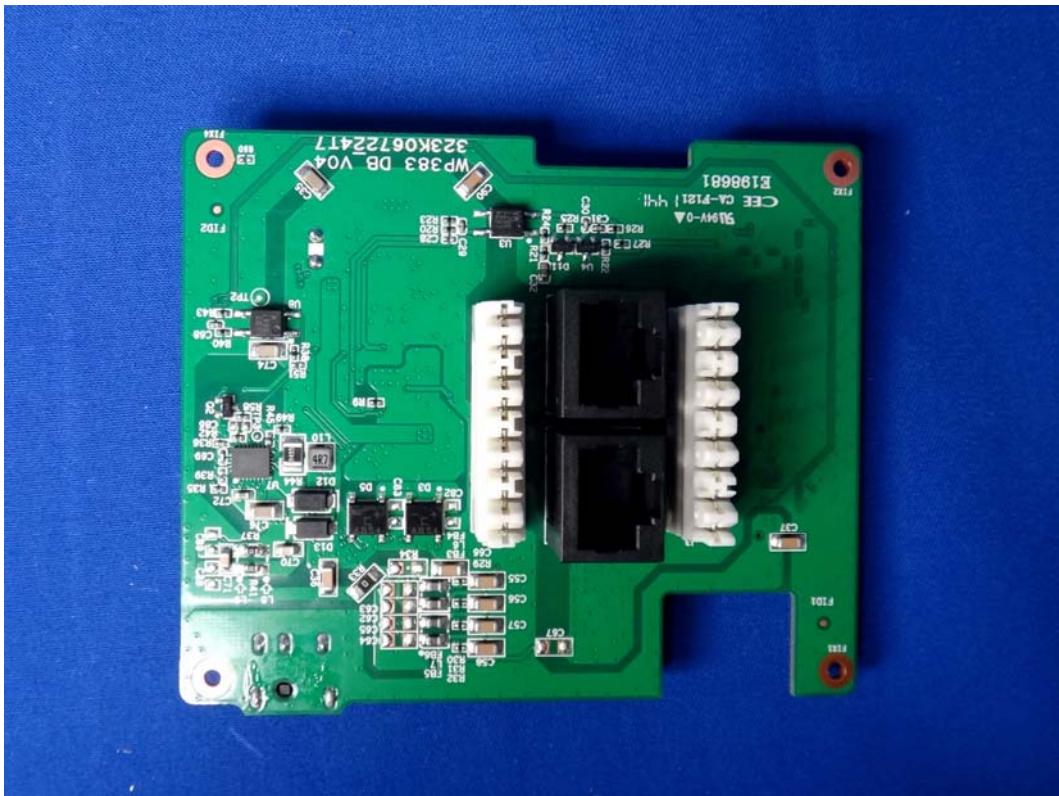
(9) EUT Photo



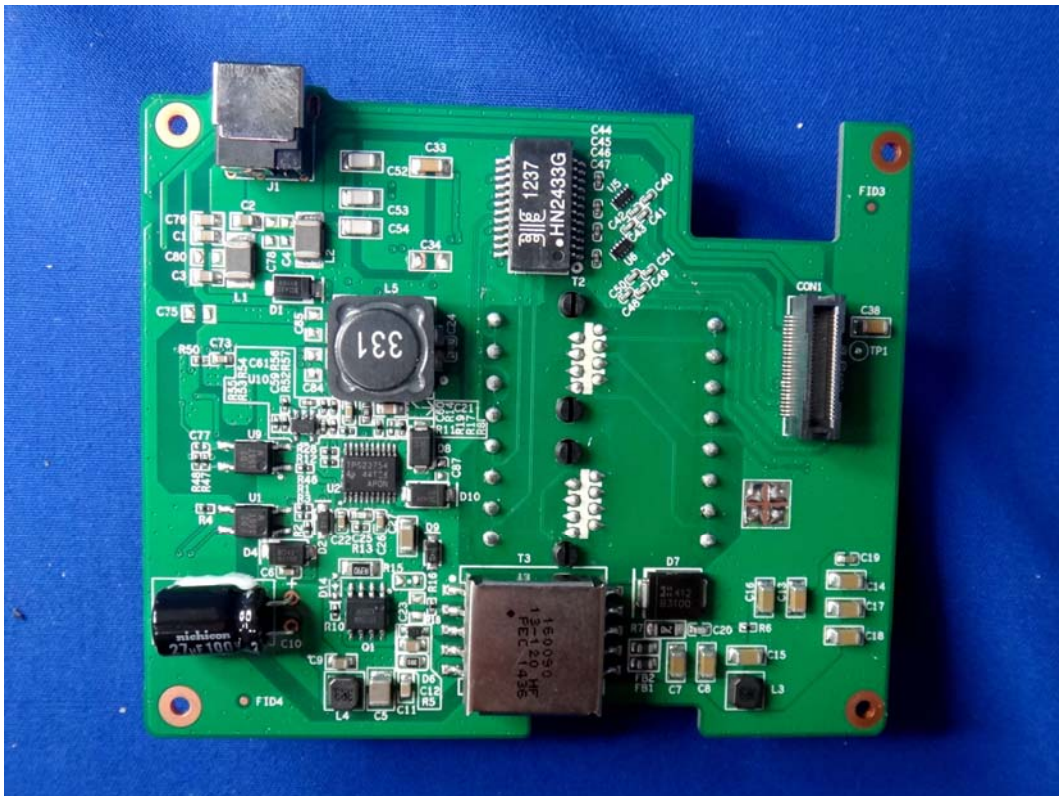
(10) EUT Photo



(11) EUT Photo



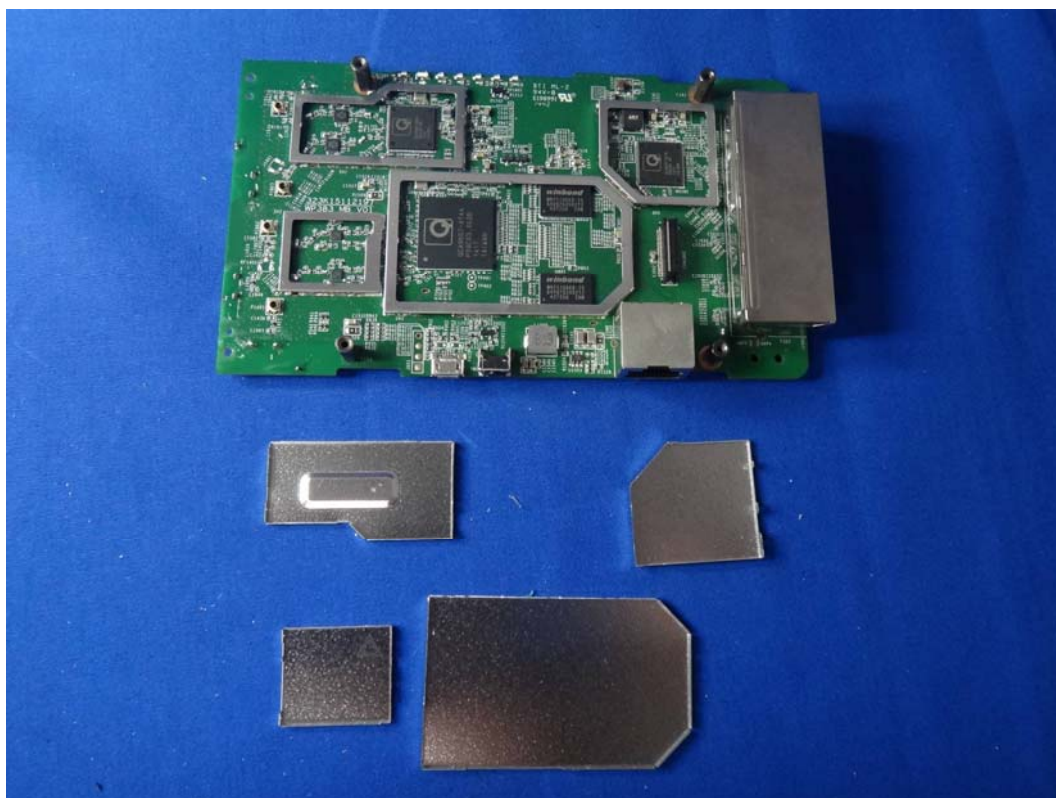
(12) EUT Photo



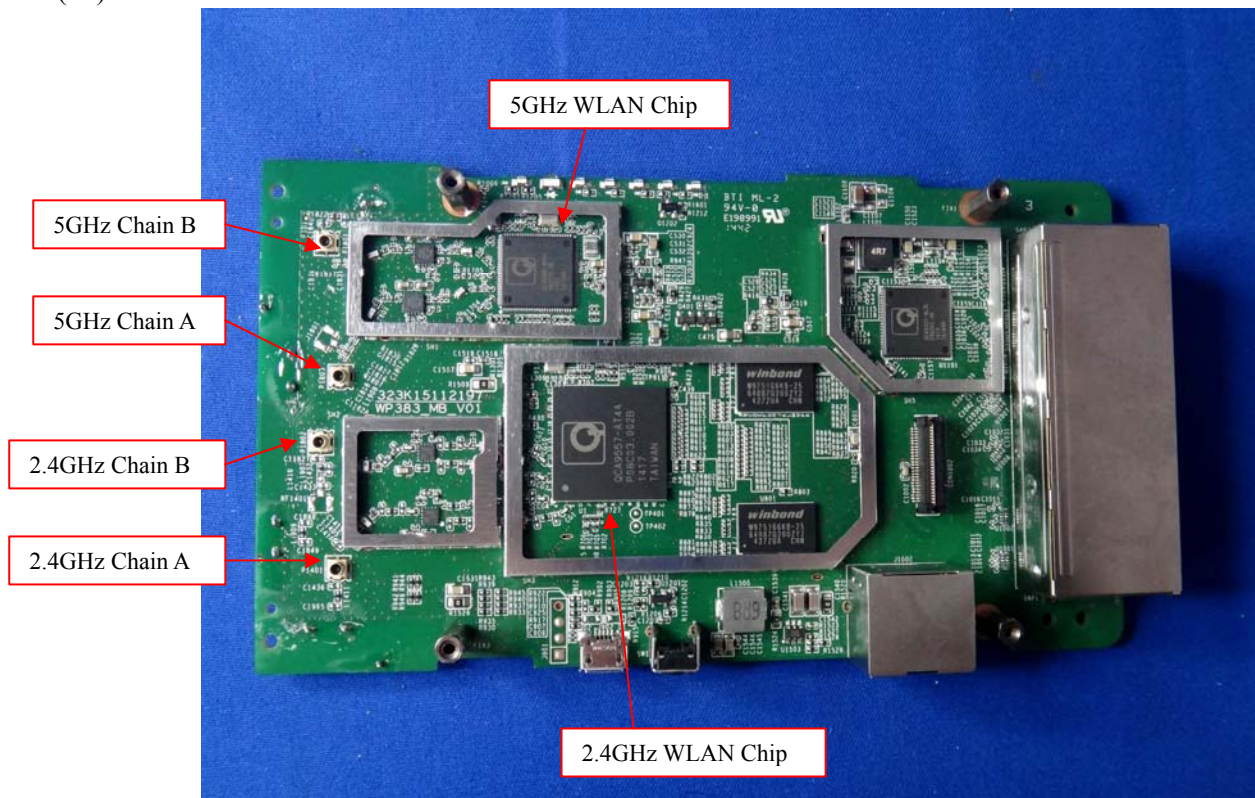
(13) EUT Photo



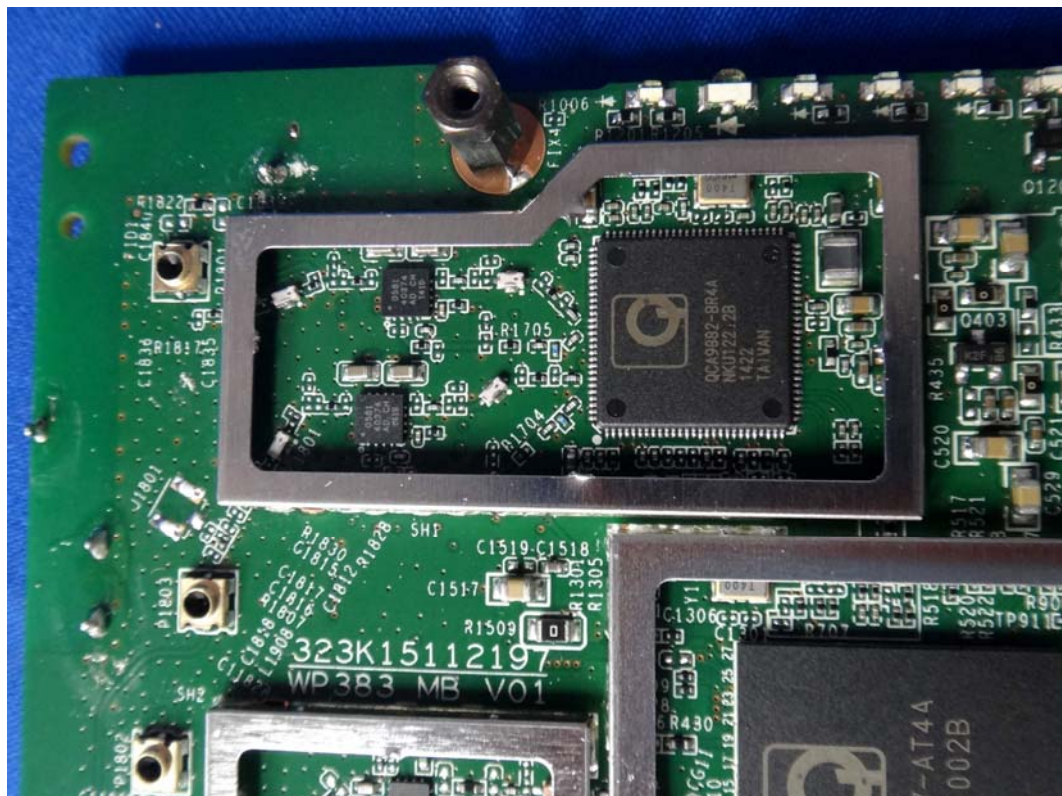
(14) EUT Photo



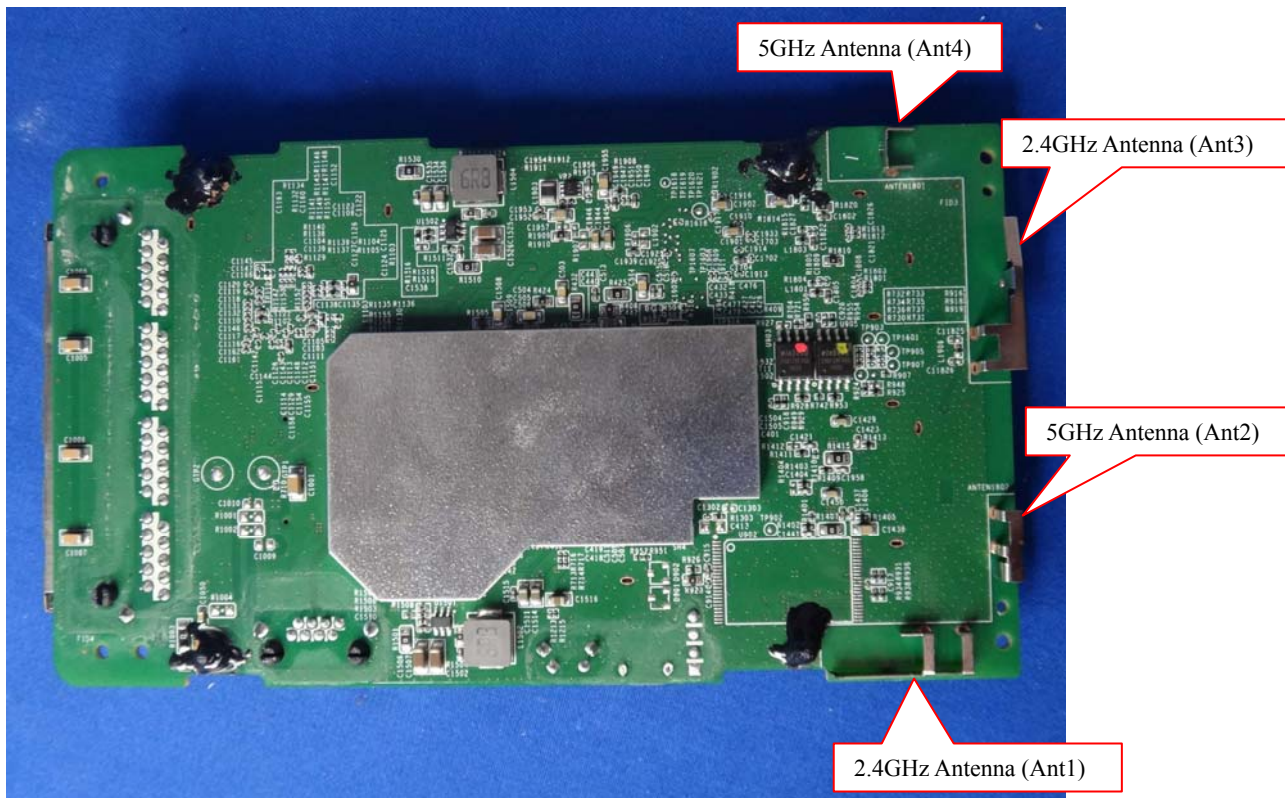
(15) EUT Photo



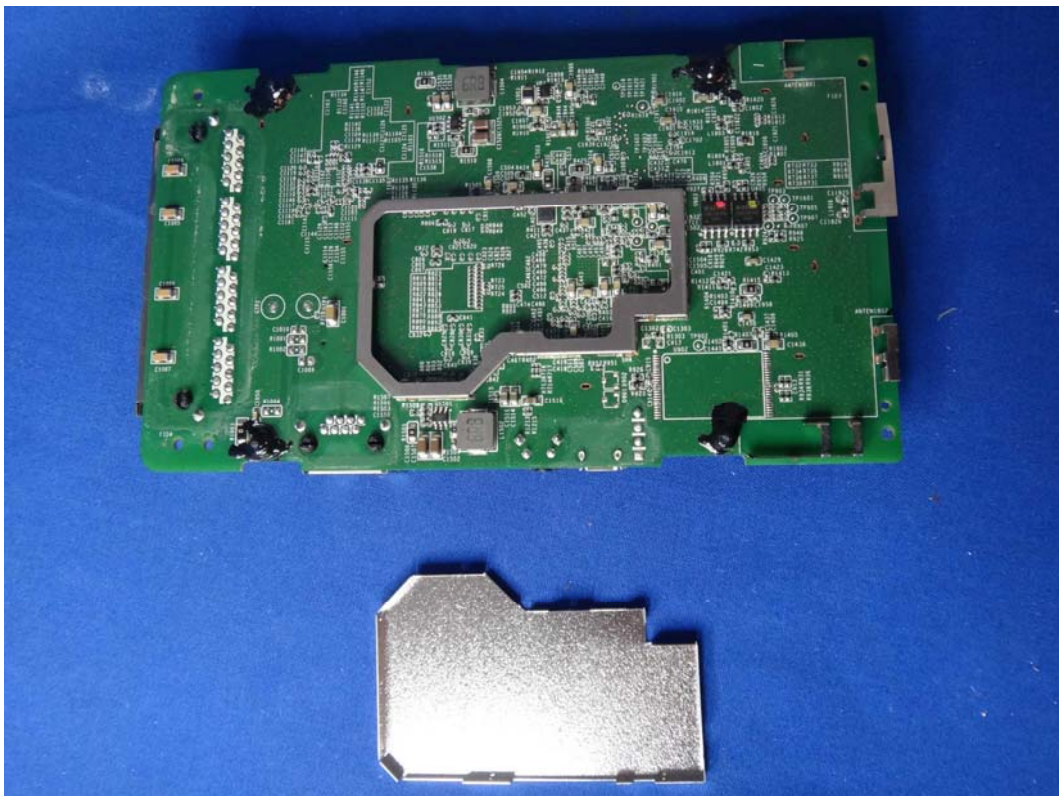
(16) EUT Photo



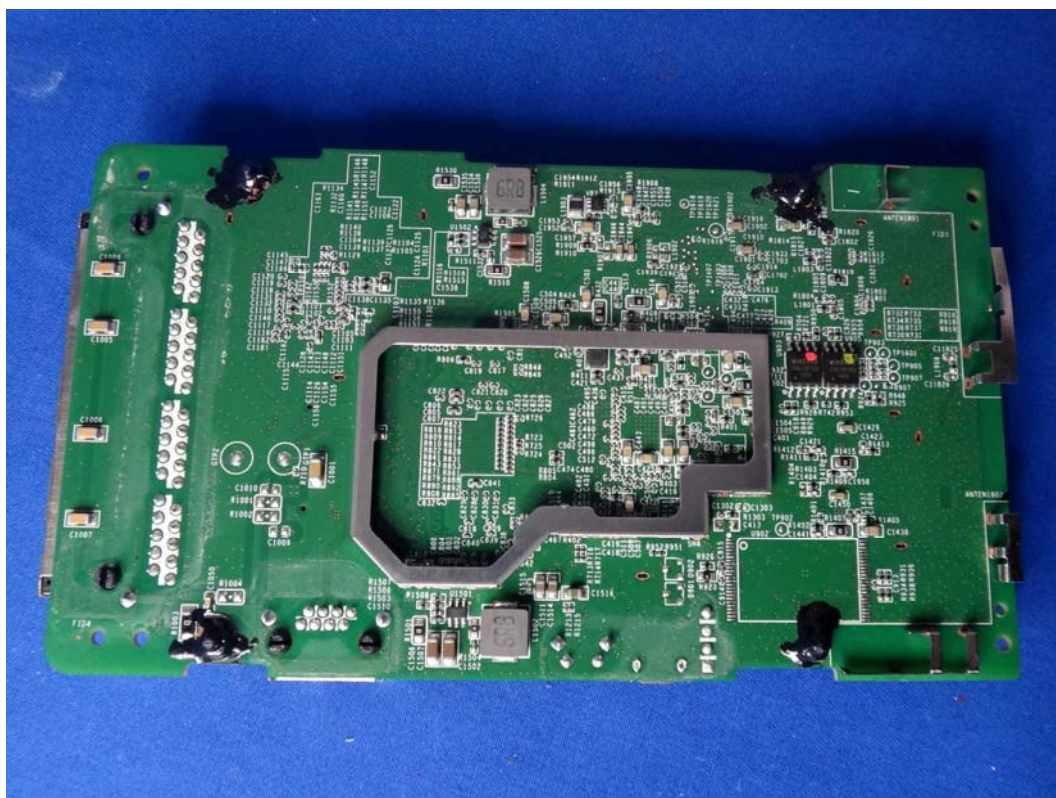
(19) EUT Photo



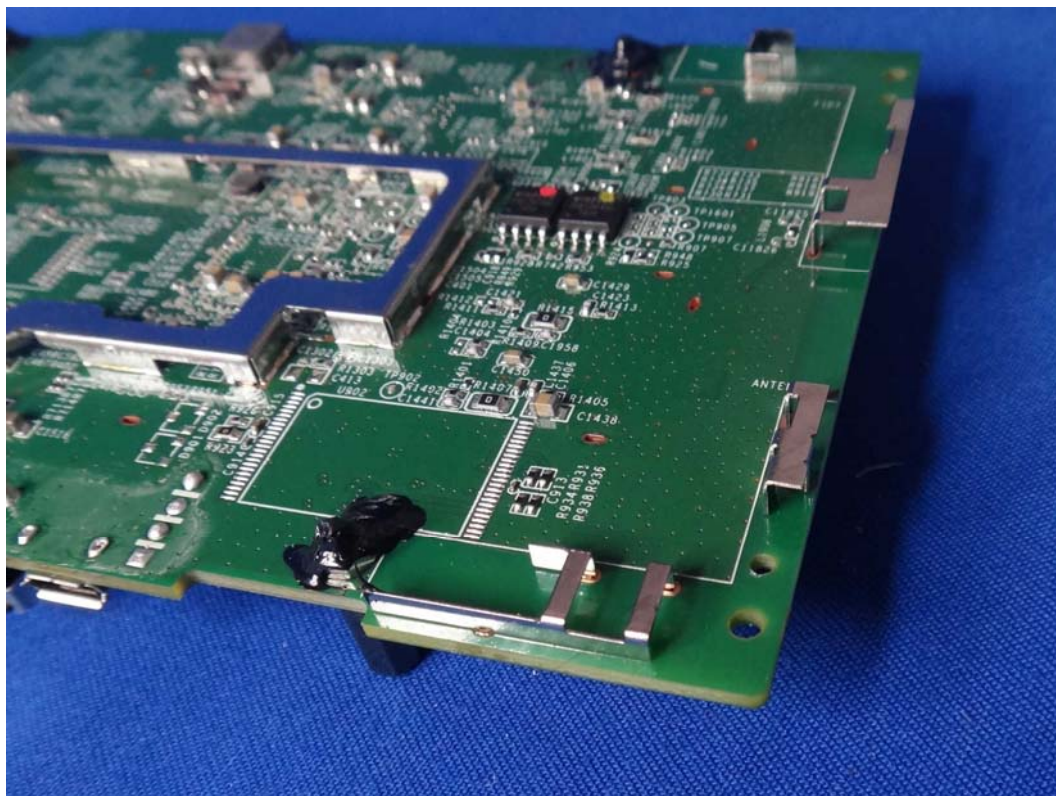
(20) EUT Photo



(21) EUT Photo



(22) EUT Photo



(23) EUT Photo

