

## DFS Test Report

Applicant : Lenovo (Shanghai) Electronics Technology Co., Ltd.  
Address : No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai ,  
China  
Product Type : Lenovo Pocket Projector  
Trade Name : Lenovo  
Model Number : P0510  
Applicable Standard : FCC 47 CFR PART 15 SUBPART E: Oct., 2014  
ANSI C63.10:2013  
Receive Date : Jul. 16, 2015  
Test Period : Sep. 08, 2015  
Issue Date : Sep. 15, 2015

### Issue by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade City,  
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Taiwan Accreditation Foundation accreditation number: 1330

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**Revision History**

| Rev. | Issue Date    | Revisions     | Revised By |
|------|---------------|---------------|------------|
| 00   | Sep. 15, 2015 | Initial Issue |            |
|      |               |               |            |
|      |               |               |            |
|      |               |               |            |

## Verification of Compliance

Issued Date: 09/15/2015

Product Type : Lenovo Pocket Projector  
Applicant : Lenovo (Shanghai) Electronics Technology Co., Ltd.  
Address : No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ ,  
Shanghai , China  
Trade Name : Lenovo  
Model Number : P0510  
FCC ID : O57P0510  
EUT Rated Voltage : DC 5.2V, 2.0A  
Test Voltage : 120 Vac / 60 Hz  
Applicable Standard : FCC 47 CFR PART 15 SUBPART E: Oct., 2014  
ANSI C63.10:2013  
Test Result : Complied  
Application Purpose : Original  
Performing Lab. : A Test Lab Techno Corp.

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A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang  
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

## TABLE OF CONTENTS

|          |                                           |           |
|----------|-------------------------------------------|-----------|
| <b>1</b> | <b>EUT Description.....</b>               | <b>5</b>  |
| <b>2</b> | <b>Test Methodology .....</b>             | <b>6</b>  |
| <b>3</b> | <b>Dynamic Frequency Selection.....</b>   | <b>7</b>  |
| 3.1.     | Limits .....                              | 7         |
| 3.2.     | Test and Measurement System.....          | 11        |
| 3.3.     | Test Instruments .....                    | 12        |
| <b>4</b> | <b>Test Methodology .....</b>             | <b>13</b> |
| 4.1.     | Mode of Operation .....                   | 13        |
| 4.2.     | EUT Exercise Software.....                | 13        |
| 4.3.     | Test Site Environment .....               | 13        |
| <b>5</b> | <b>Results for 40 MHz Bandwidth .....</b> | <b>14</b> |
| 5.1.     | Radar Waveforms and Traffic .....         | 14        |
| 5.2.     | Channel Availability Check Time .....     | 24        |
| 5.3.     | Overlapping Channel Tests .....           | 24        |
| 5.4.     | Move and Closing Time .....               | 25        |
| 5.5.     | Non-Occupancy Period .....                | 30        |
| 5.6.     | Detection Bandwidth.....                  | 31        |
| 5.7.     | In-Service Monitoring.....                | 31        |

## 1 EUT Description

|                      |                                                                                                                            |                 |                   |                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------------|
| Applicant            | Lenovo (Shanghai) Electronics Technology Co., Ltd.<br>No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China |                 |                   |                    |
| Manufacturer         | Lenovo PC HK Limited<br>23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong,China                     |                 |                   |                    |
| Product Type         | Lenovo Pocket Projector                                                                                                    |                 |                   |                    |
| Trade Name           | Lenovo                                                                                                                     |                 |                   |                    |
| Model Number         | P0510                                                                                                                      |                 |                   |                    |
| FCC ID               | O57P0510                                                                                                                   |                 |                   |                    |
| Frequency Range      | Freq. Band                                                                                                                 |                 | Freq. Range (MHz) | Number of Channels |
|                      | IEEE 802.11a                                                                                                               | U-NII Band II-A | 5260 – 5320       | 4                  |
|                      |                                                                                                                            | U-NII Band II-C | 5500 – 5700       | 11                 |
|                      | IEEE 802.11n 5GHz 20 MHz                                                                                                   | U-NII Band II-A | 5260 – 5320       | 4                  |
|                      |                                                                                                                            | U-NII Band II-C | 5500 – 5700       | 11                 |
|                      | IEEE 802.11n 5GHz 40 MHz                                                                                                   | U-NII Band II-A | 5270 – 5310       | 2                  |
|                      |                                                                                                                            | U-NII Band II-C | 5510 – 5670       | 5                  |
| Type of Modulation   | OFDM                                                                                                                       |                 |                   |                    |
| Equipment Type (DFS) | Client (without radar detection function)                                                                                  |                 |                   |                    |
| Antenna Type         | FPC Antenna                                                                                                                |                 |                   |                    |
| Max. Antenna Gain    | U-NII Band II-A: 2 dBi                                                                                                     |                 |                   |                    |
|                      | U-NII Band II-C: 2 dBi                                                                                                     |                 |                   |                    |
| Antenna Delivery     | IEEE 802.11a: 1TX + 1RX<br>IEEE 802.11n 20MHz / 40MHz: 2TX + 2RX                                                           |                 |                   |                    |

## **2 Test Methodology**

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

The tests documented in this report were performed in accordance with FCC KDB request:

- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02
- FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r01

### 3 Dynamic Frequency Selection

#### 3.1. Limits

§15.407 (h) and FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02 Compliance measurement procedures for unlicensed-national information infrastructure devcies operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection.

| Table 1: Applicability of DFS Requirements Prior to Use of a Channel |                  |                                |                             |
|----------------------------------------------------------------------|------------------|--------------------------------|-----------------------------|
| Requirement                                                          | Operational Mode |                                |                             |
|                                                                      | Master           | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy Period                                                 | Yes              | Not required                   | Yes                         |
| DFS Detection Threshold                                              | Yes              | Not required                   | Yes                         |
| Channel Availability Check Time                                      | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth                                            | Yes              | Not required                   | Yes                         |

| Table 2: Applicability of DFS requirements during normal operation |                                              |                                |
|--------------------------------------------------------------------|----------------------------------------------|--------------------------------|
| Requirement                                                        | Operational Mode                             |                                |
|                                                                    | Master Device or Client With Radar Detection | Client Without Radar Detection |
| DFS Detection Threshold                                            | Yes                                          | Not required                   |
| Channel Closing Transmission Time                                  | Yes                                          | Yes                            |
| Channel Move Time                                                  | Yes                                          | Yes                            |
| U-NII Detection Bandwidth                                          | Yes                                          | Not required                   |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                                      | Master Device or Client With Radar Detection | Client without Radar Detection                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                                            | All BW modes must be tested                  | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                | Test using widest BW mode available          | Test using the widest BW mode available for the link |
| All other tests                                                                                                                                                                                                                                                                                                                                        | Any single BW mode                           | Not required                                         |
| Note : Frequencies selected for statistical performance check (Section 7.8.4) 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 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection**

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

**Table 4: DFS Response Requirement Values**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Value                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimum 30 minutes                                                                                           |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60 seconds                                                                                                   |
| Channel Move Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 seconds<br>See Note 1.                                                                                    |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 200 milliseconds + an aggregate of 60 milliseconds over<br>remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum 100% of the U-NII 99% transmission power<br>bandwidth. See Note 3.                                   |
| <p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> |                                                                                                              |



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

**Table 5a: Pulse Repetition Intervals Values for Test A**

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

**Table 6: Long Pulse Radar Test Waveform**

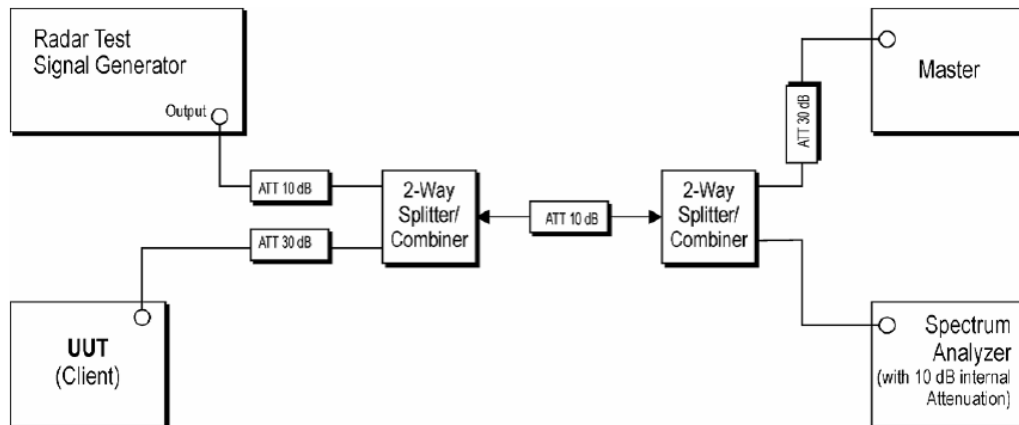
| Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------|--------------------|-------------------|------------|----------------------------|------------------|--------------------------------------------|--------------------------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

**Table 7: Frequency Hopping Radar Test Waveform**

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

### 3.2. Test and Measurement System

#### 3.2.1. Setup for Client with injection at the Master



#### 3.2.2. System Calibration

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the A Test lab techno. Corp. simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 0,1,2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time. The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

### 3.2.3. System Calibration

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is -64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

### 3.2.4. Adjustment of Displayed Traffic Level

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

## 3.3. Test Instruments

| Equipment         | Manufacturer | Model Number | Serial Number | Cal. Date  | Remark         |
|-------------------|--------------|--------------|---------------|------------|----------------|
| Spectrum Analyzer | Agilent      | E4408B       | MY45107753    | 07/27/2015 | <sup>(1)</sup> |
| Signal Generator  | R&S          | SMU200A      | 102598        | 04/23/2015 | <sup>(1)</sup> |
| Test Site         | ATL          | TE02         | TE02          | N.C.R.     | -----          |

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

## 4 Test Methodology

### 4.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode                                   |
|---------------------------------------------|
| Mode 1: IEEE 802.11n 5GHz (40MHz) link mode |

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11n 5GHz (40MHz) mode:

Unless otherwise noted, all tests were performed with the radar burst at the channel center frequency of 5310 MHz and 5510 MHz.

#### Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

|    | Product                        | Manufacturer | Model No.         | Serial No.                                              | Power Cord |
|----|--------------------------------|--------------|-------------------|---------------------------------------------------------|------------|
| 1. | Cisco Aironet IOS Access Point | Cisco        | AIR-AP1252AG-A-K9 | AIR-RM1252A-A-K9<br>FCC ID:LDK102061<br>IC:24618-102061 | ---        |

### 4.2. EUT Exercise Software

|    |                                     |
|----|-------------------------------------|
| 1. | Setup the EUT shown on 3.3.         |
| 2. | Turn on the power of all equipment. |
| 3. | Turn on Wi-Fi function.             |
| 4. | EUT run test program.               |

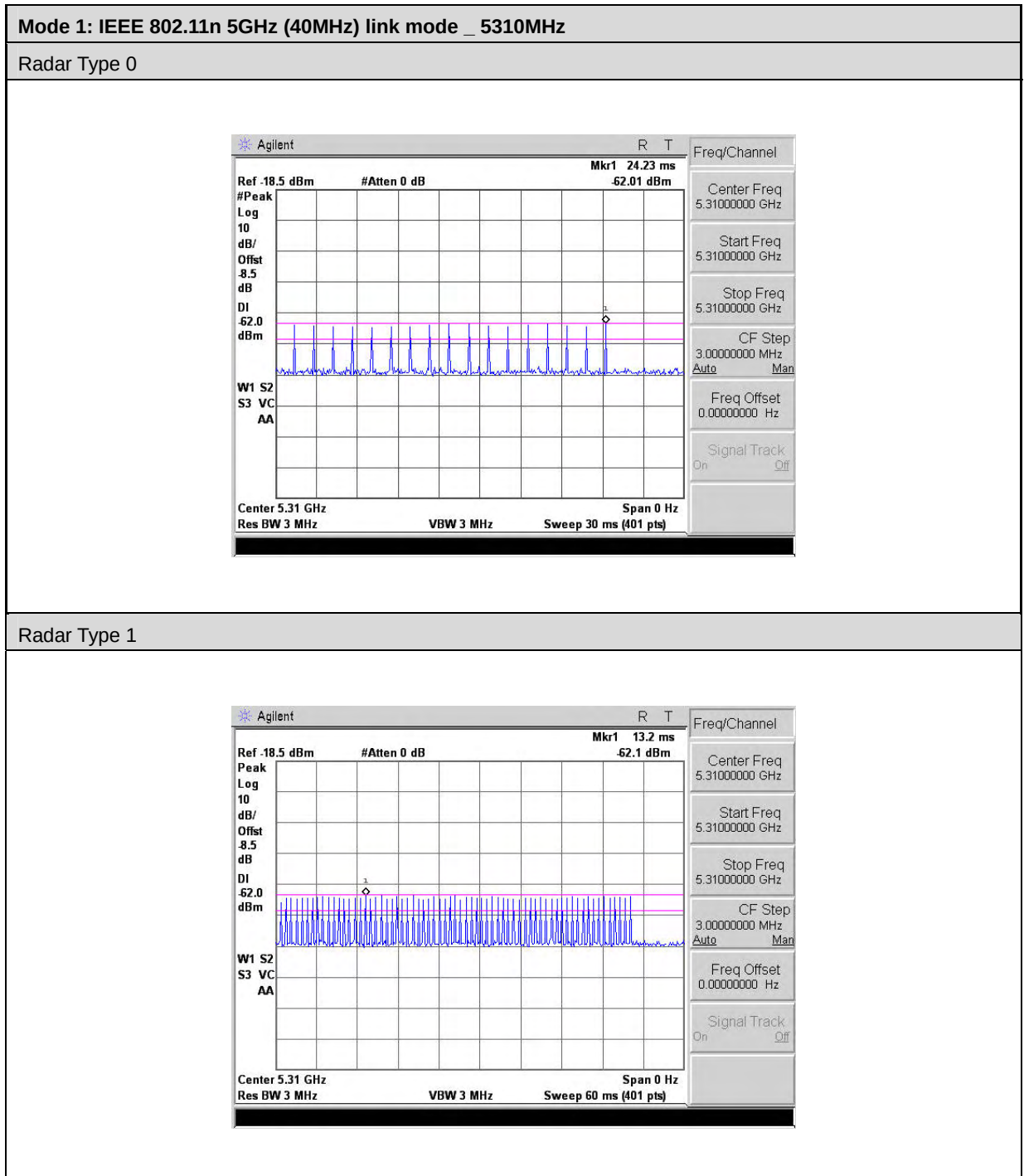
### 4.3. Test Site Environment

| Items                      | Required (IEC 60068-1) | Actual |
|----------------------------|------------------------|--------|
| Temperature (°C)           | 15-35                  | 26     |
| Humidity (%RH)             | 25-75                  | 60     |
| Barometric pressure (mbar) | 860-1060               | 950    |

## 5 Results for 40 MHz Bandwidth

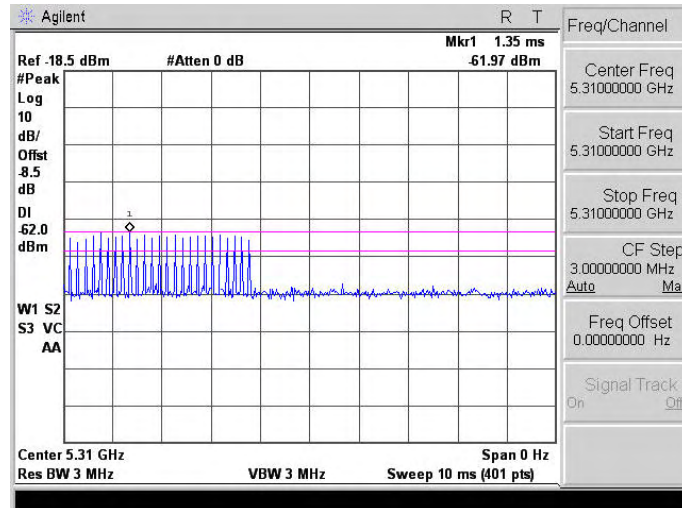
### 5.1. Radar Waveforms and Traffic

#### 5.1.1. Results

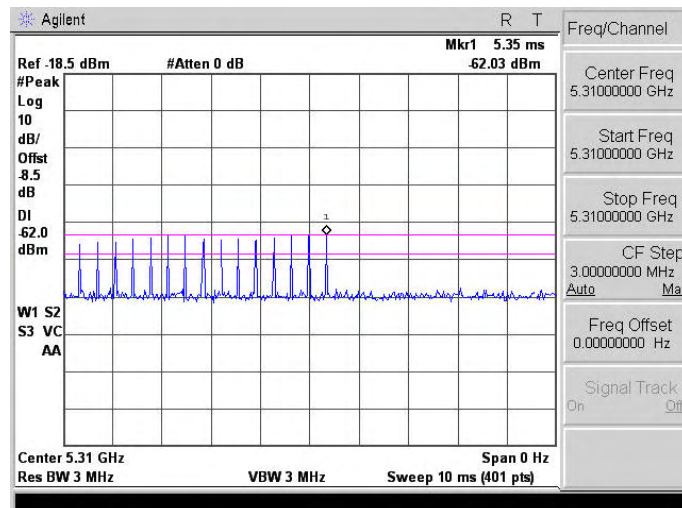


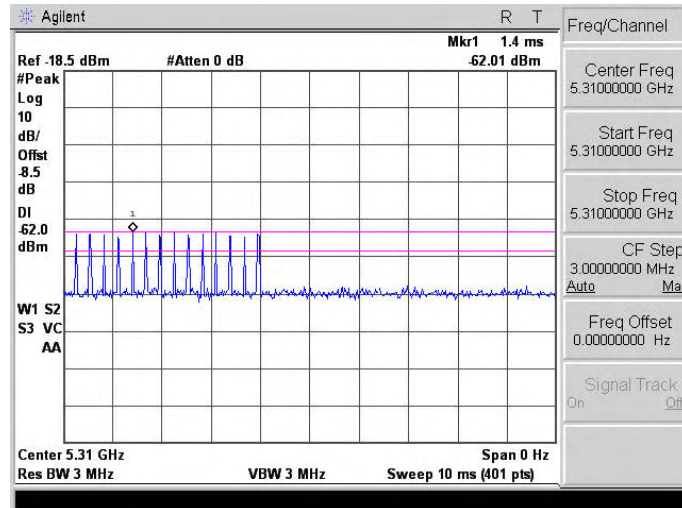
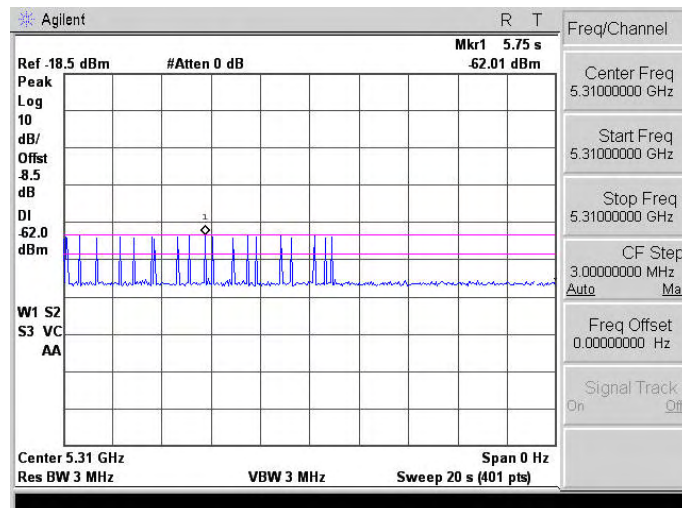
**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5310MHz**

**Radar Type 2**



**Radar Type 3**

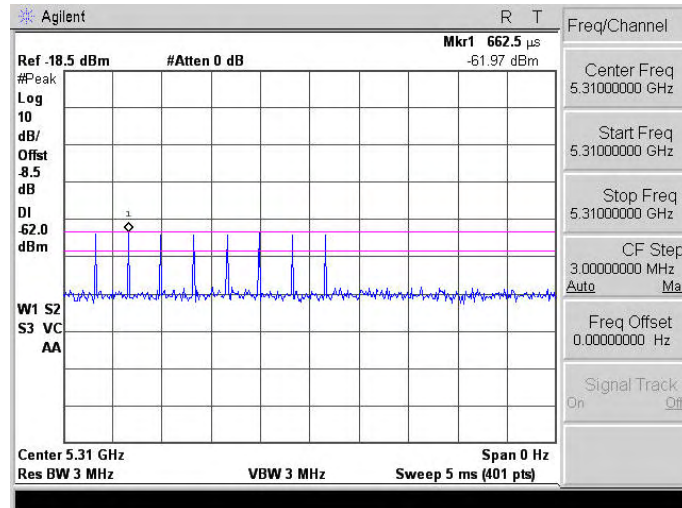


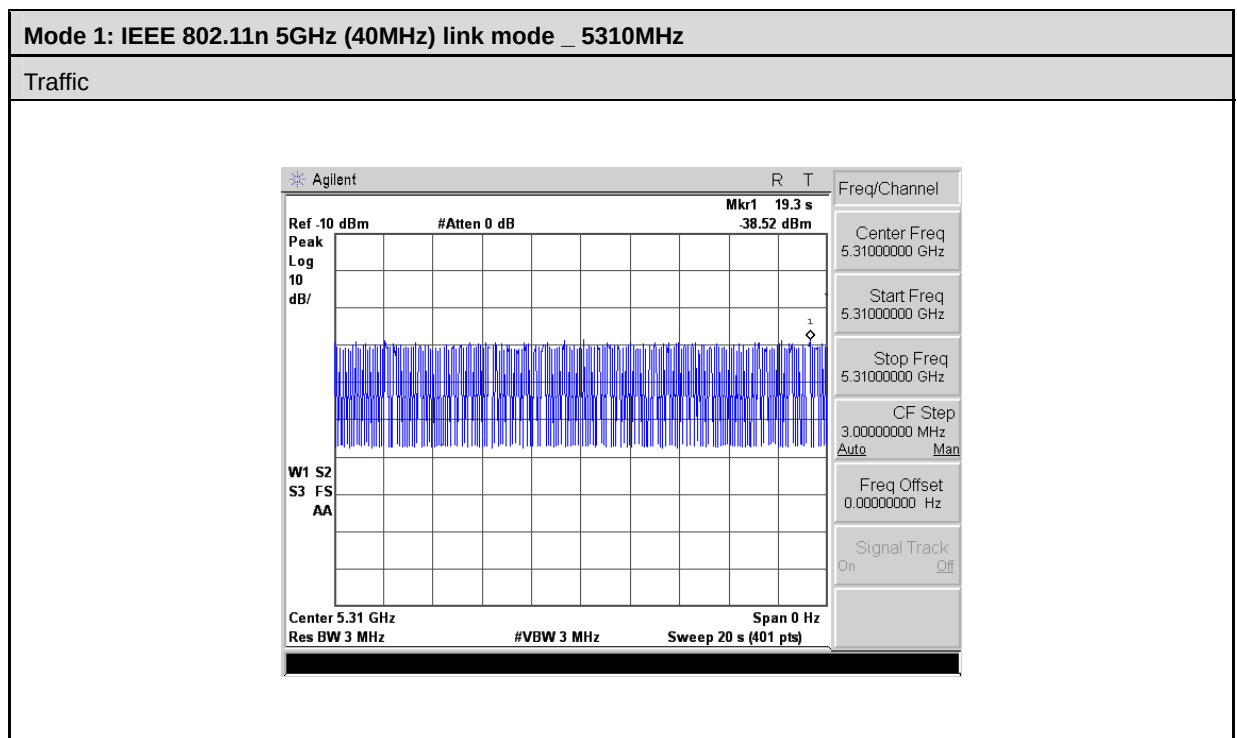
**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5310MHz**
**Radar Type 4**

**Radar Type 5**




Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5310MHz

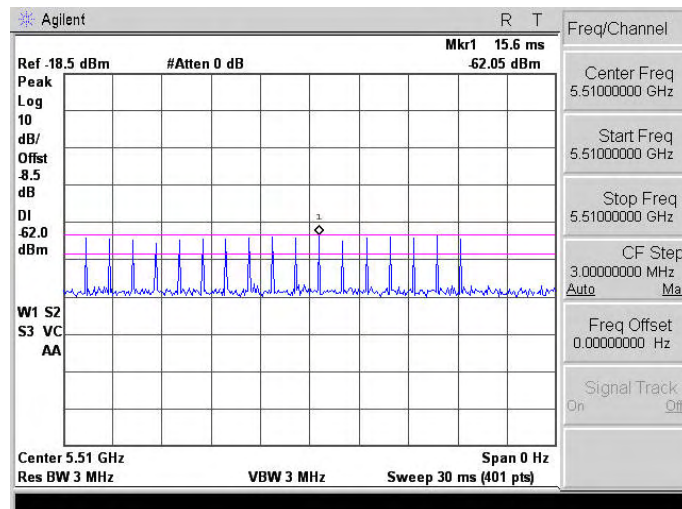
Radar Type 6



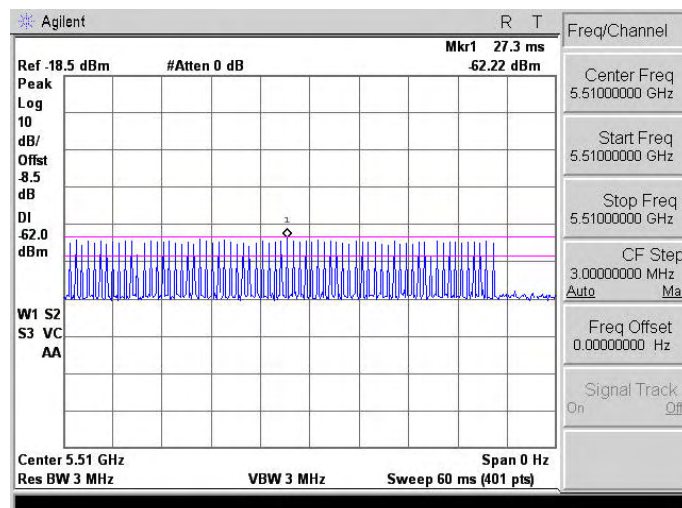


**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz**

**Radar Type 0**

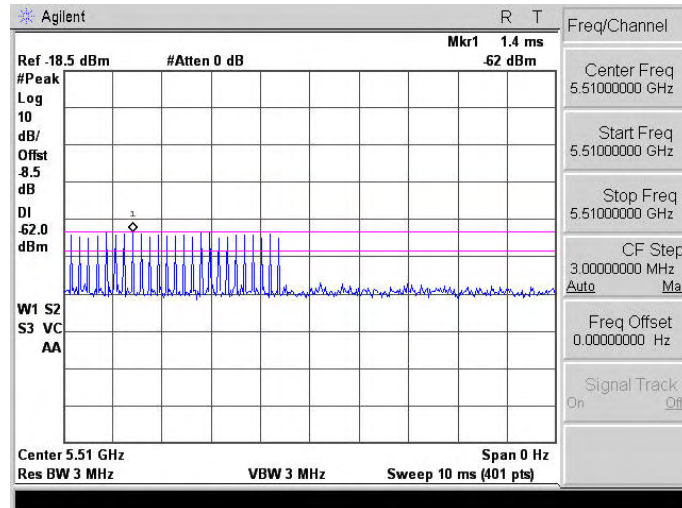


**Radar Type 1**

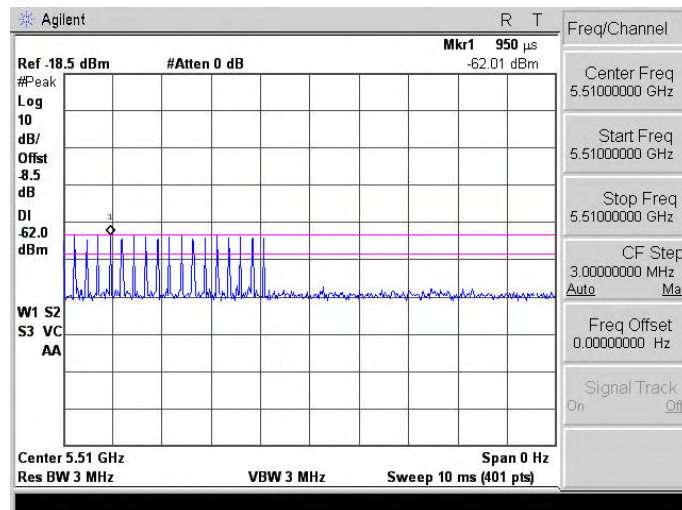


**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz**

**Radar Type 2**

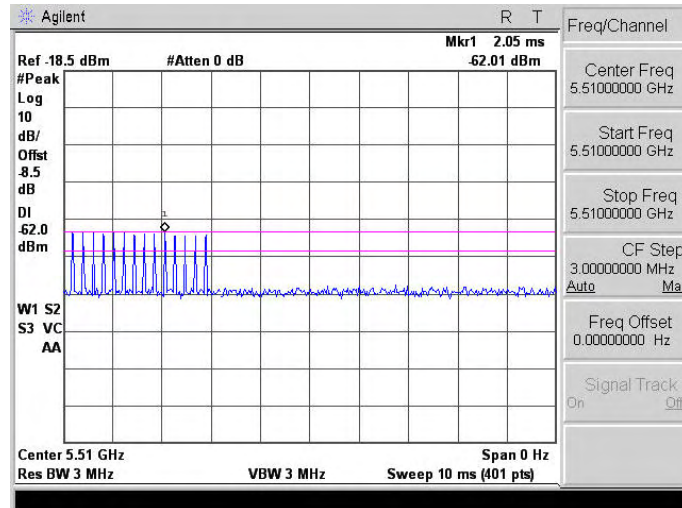


**Radar Type 3**

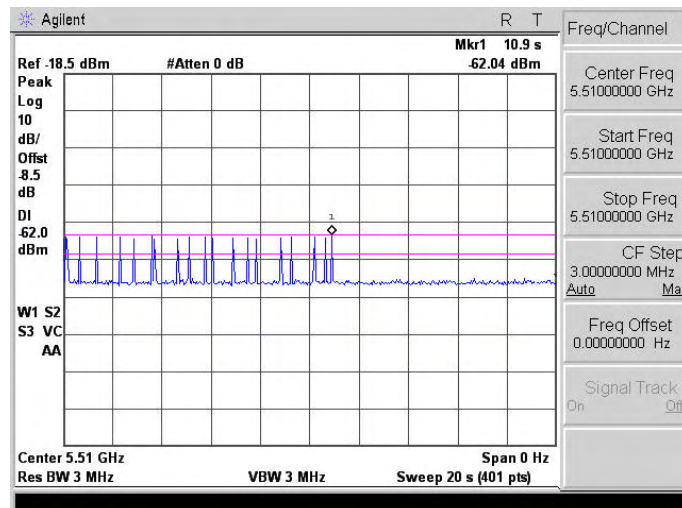


**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz**

**Radar Type 4**

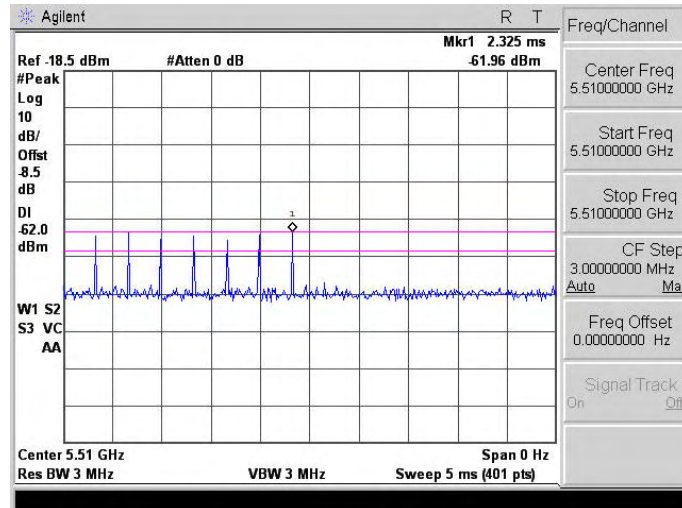


**Radar Type 5**



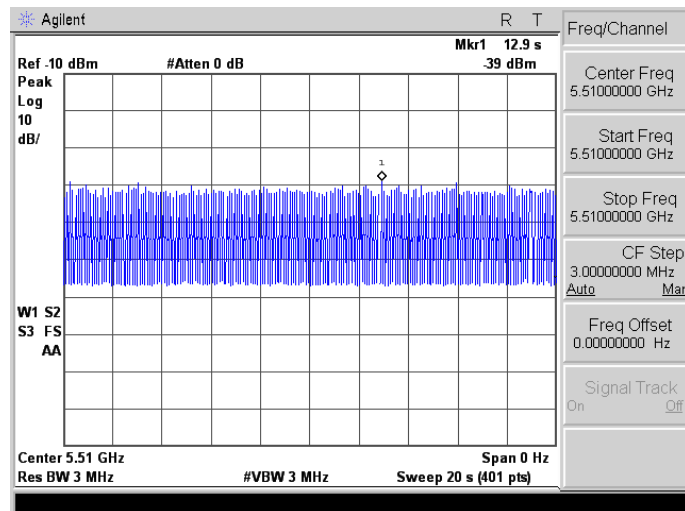
Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz

Radar Type 6



Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz

Traffic



## **5.2. Channel Availability Check Time**

### **5.2.1. Procedure to Determine Initial Power-Up Cycle Time**

A link was established on channel then the EUT was rebooted. The time from the cessation of traffic to the re-initialization of traffic was measured as the time required for the EUT to complete the total power-up cycle. The time to complete the initial power-up period is 60 seconds less than this total power-up time.

### **5.2.2. Procedure for Timing Of Radar Burst**

With a link established on channel, the EUT was rebooted. A radar signal was triggered within 0 to 6 seconds after the initial power-up period, and transmissions on the channel were monitored on the spectrum analyzer.

The Non-Occupancy list was cleared. With a link established on channel, the EUT was rebooted. A radar signal was triggered within 54 to 60 seconds after the initial power-up period, and transmissions on the channel were monitored on the spectrum analyzer.

### **5.2.3. Quantitative Results**

These tests are not applicable.

## **5.3. Overlapping Channel Tests**

These tests are not applicable.



## 5.4. Move and Closing Time

### 5.4.1. Reporting Notes

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse.

This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

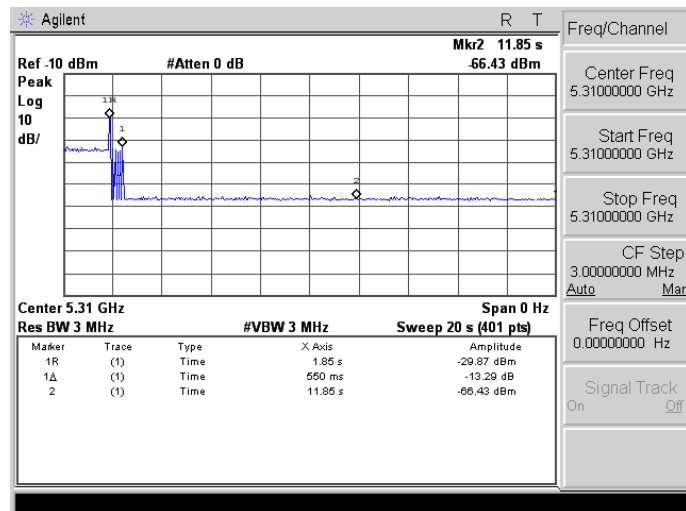
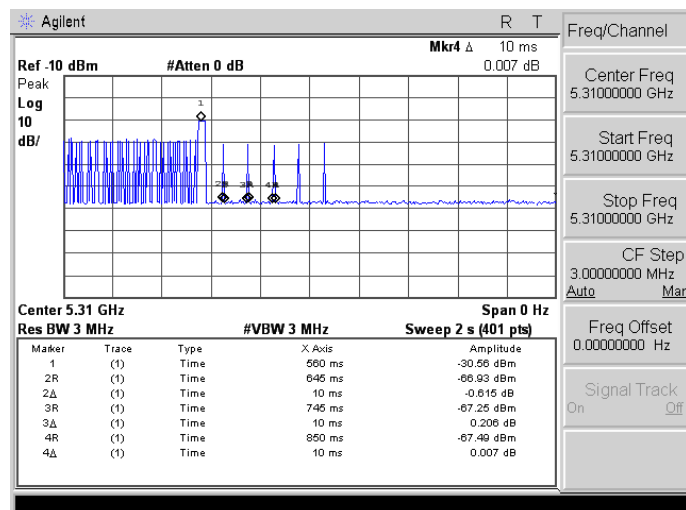
Aggregate Transmission Time = (Number of analyzer bins showing transmission) \* (dwell time per bin)

The observation period over which the FCC aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

### 5.4.2. Results

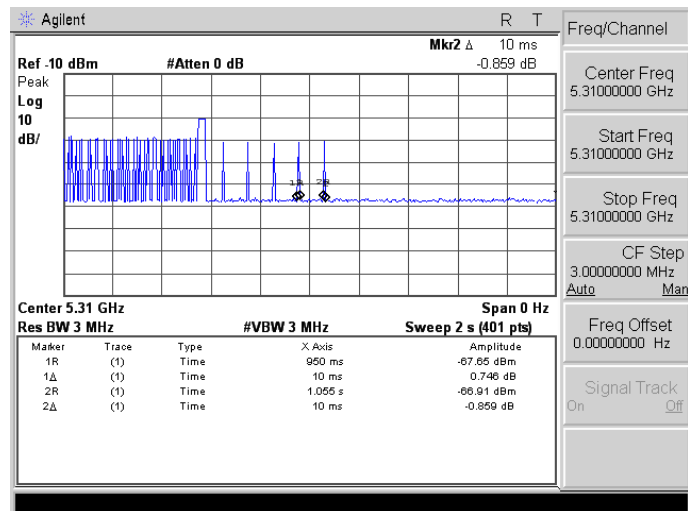
| Frequency (MHz) | Radar Type | Channel Move Time (msec) | Limit (sec) |
|-----------------|------------|--------------------------|-------------|
| 5310            | Type 0     | 550                      | 10          |
| 5510            | Type 0     | 550                      | 10          |

| Frequency (MHz) | Radar Type | Aggregate Channel Closing Transmission Time (msec) | Limit (msec) |
|-----------------|------------|----------------------------------------------------|--------------|
| 5310            | Type 0     | 50                                                 | 200+60       |
| 5510            | Type 0     | 50                                                 | 200+60       |

**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5310MHz**
**Move Time**

**Channel Closing Time**


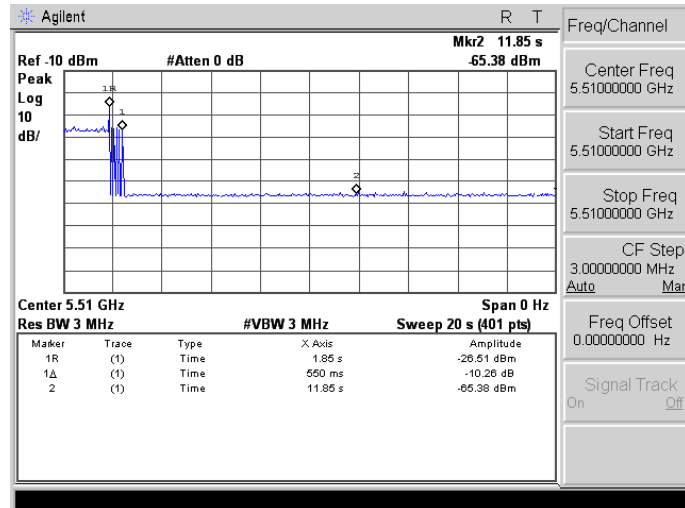
**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5310MHz**

Channel Closing Time

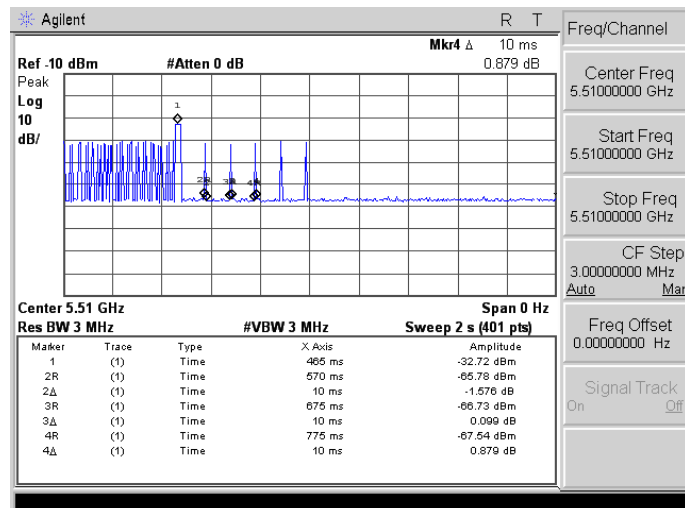


Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz

Move Time

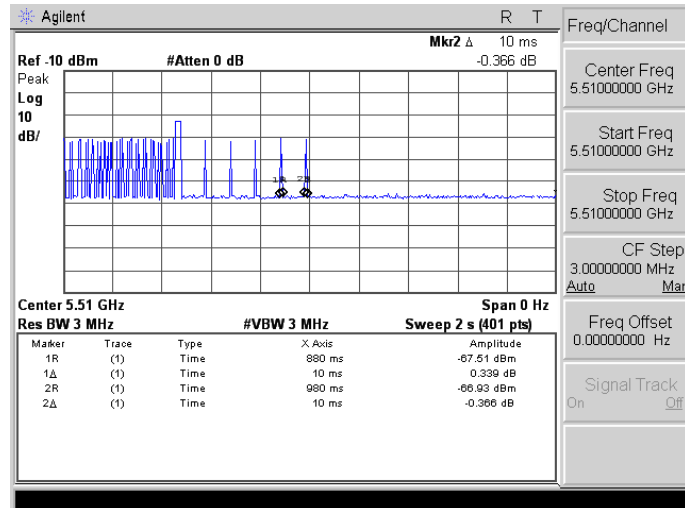


Channel Closing Time



**Mode 1: IEEE 802.11n 5GHz (40MHz) link mode \_ 5510MHz**

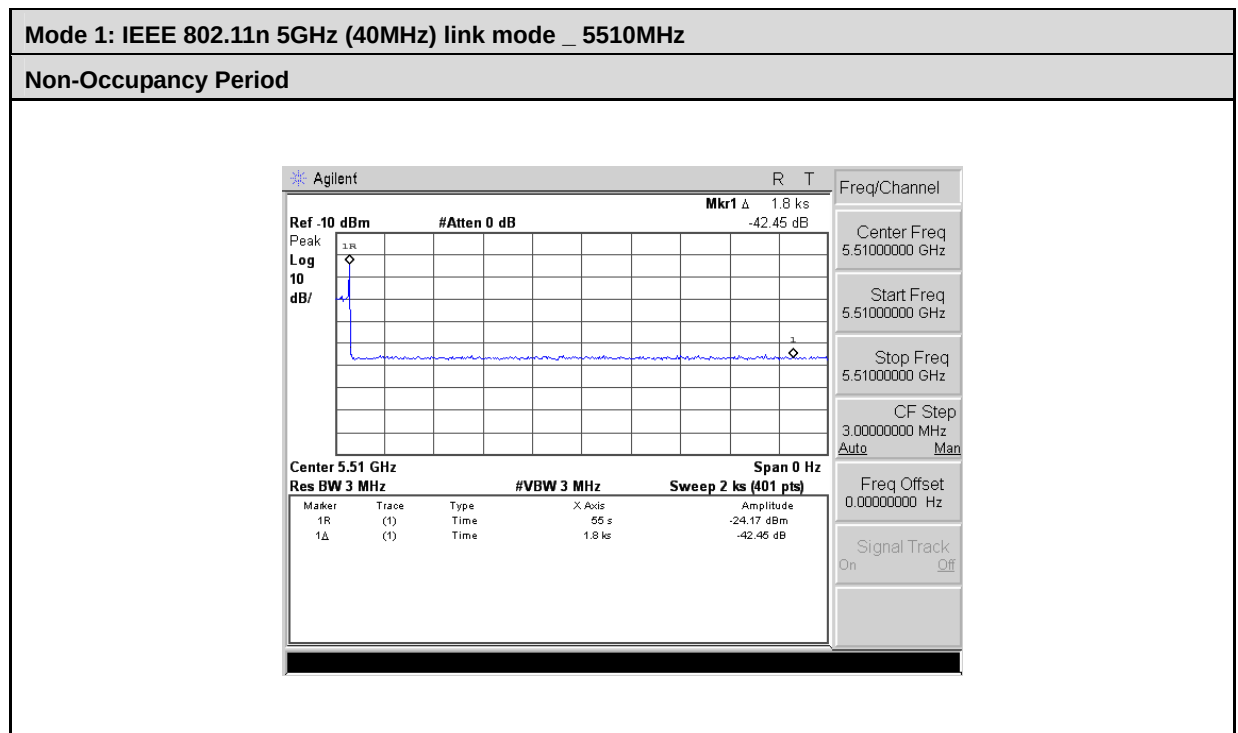
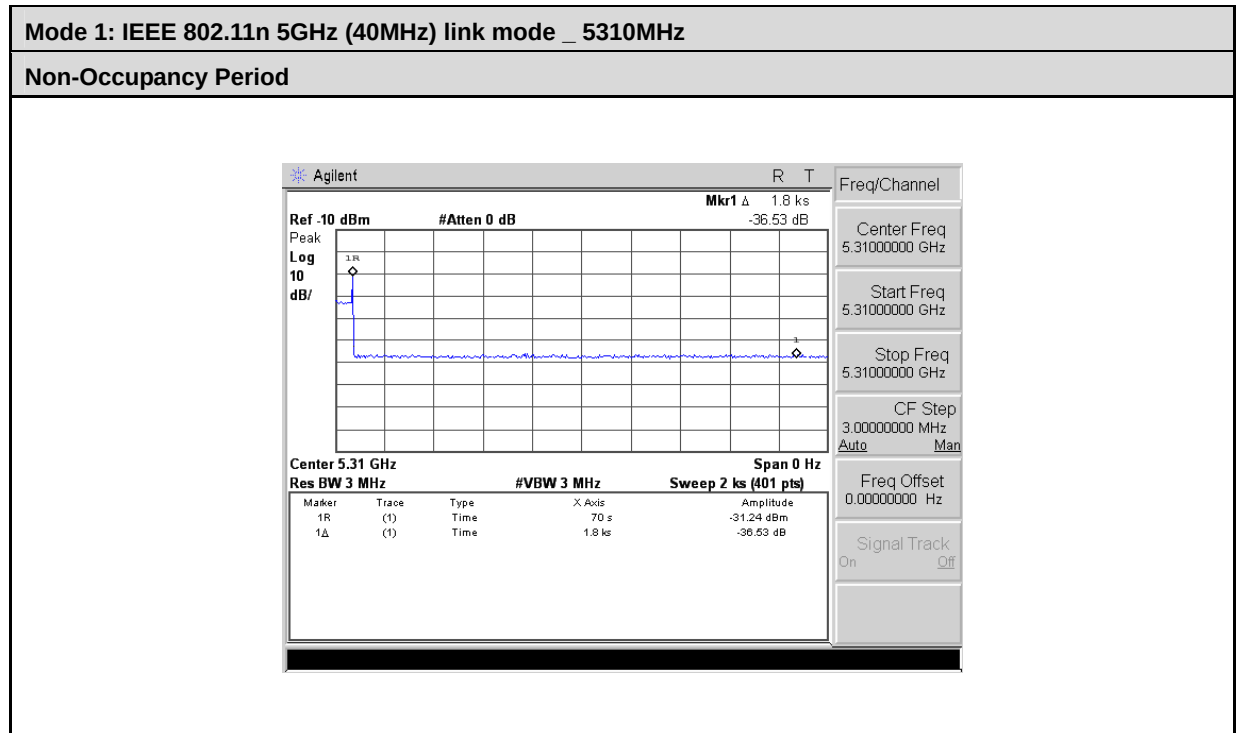
**Channel Closing Time**



## 5.5. Non-Occupancy Period

### 5.5.1. Results

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



**5.6. Detection Bandwidth**

These tests are not applicable.

**5.7. In-Service Monitoring**

These tests are not applicable.