FCC 47 CFR PART 15 SUBPART E

| Product Type | : | phorus wifi / Bluetooth Speaker |
|---------------------|---|---|
| Applicant | : | Phorus, Inc. |
| Address | : | 16255 Ventura Boulevard, Encino, California, 91436, United States |
| Trade Name | : | phorus |
| Model Number | : | PS5 SPEAKER |
| Test Specification | : | FCC 47 CFR PART 15 SUBPART E: Oct., 2013 ANSI C63.10-2009 ANSI C63.4-2009 |
| Application Purpose | : | Original |
| Receive Date | : | Oct. 22, 2014 |
| Test Period | : | Oct. 30, 2014 |
| Issue Date | : | Dec. 05, 2014 |

Issue by

A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel : +86-3-2710188 / Fax : +86-3-2710190



<u>Taiwan Accreditation Foundation accreditation number</u>: 1330 FCC Test Firm Information: 510205

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|---------------|---------------|------------|
| 00 | Dec. 05, 2014 | Initial Issue | |
| | | | |
| | | | |
| | | | |



Verification of Compliance

Issued Date: 12/05/2014

| Product Type | : | phorus wifi / Bluetooth Speaker |
|---------------------|---|---|
| Applicant | : | Phorus, Inc. |
| Address | : | 16255 Ventura Boulevard, Encino, California, 91436, United States |
| Trade Name | : | phorus |
| Model Number | : | PS5 SPEAKER |
| FCC ID | : | 2AAWQ-PS5SPEAKER |
| EUT Rated Voltage | : | DC 12V, 2A |
| Test Voltage | : | 120 Vac / 60 Hz |
| Applicable Standard | : | FCC 47 CFR PART 15 SUBPART E: Oct., 2013 ANSI C63.10-2009 ANSI C63.4-2009 |
| Test Result | : | Complied |
| Application Purpose | : | Original |
| Performing Lab. | : | A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel : +86-3-2710188 / Fax : +86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 FCC Test Firm Information: 510205 |

http://www.atl-lab.com.tw/e-index.htm

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 | : | Ettc | $\bigcirc^{\mathfrak{u}}$ | Kang |
|-------------|-------|-----|--------------------|---|-------|---------------------------|------|
| (Manager) | (Fly | Lu) | (Testing Engineer) | - | (Eric | Ou Yar | ng) |



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1 EUT Description

| Product | phorus wifi / Bluetooth Speaker | | | | | |
|--------------------|----------------------------------|---|--------------------------|-----------------------|--|--|
| Trade Name | phorus | phorus | | | | |
| Model No. | PS5 SPEAKER | | | | | |
| Applicant | Phorus, Inc. 16255 Ventura Bo | pulevard, Encino, California, 91436 | 6, United States | | | |
| Manufacturer | | c(Dongguan) Co., LTD ong-Keng, Dong-Guan, Guang-Do | ong, China | | | |
| FCC ID | 2AAWQ-PS5SPE | 2AAWQ-PS5SPEAKER | | | | |
| Frequency Range | Band | Mode | Frequency Range (MHz) | Number of Channels | | |
| | | IEEE 802.11a | 5260 - 5320 | 4 Channels | | |
| | UNII Band II-A | IEEE 802.11n (5GHz) 20 MHz | 5260 - 5320 | 4 Channels | | |
| | | IEEE 802.11n (5GHz) 40 MHz | 5270 - 5310 | 2 Channels | | |
| | | IEEE 802.11a | 5500 - 5700 | 11 Channels | | |
| | UNII Band II-C | IEEE 802.11n (5GHz) 20 MHz | 5500 - 5700 | 11 Channels | | |
| | | IEEE 802.11n (5GHz) 40 MHz | 5510 - 5670 | 5 Channels | | |
| Type of Modulation | OFDM | | | | | |
| Equipment Type | Client (without DF | FS) | | | | |

2 Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, KDB 905462 D02, KDB 905462 D03.



3 Dynamic Frequency Selection

3.1. Limits

FCC

§15.407 (h) and KDB 905462 D02 "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 | | | | |
|--|------------------|-------------------------|----------------------|--|
| | Operational Mode | | | |
| Requirement | Master | Client (without DFS) | Client (with DFS) | |
| 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 | | | | |
|--|---|--------------------------------|--|--|
| | Operational Mode | | | |
| Requirement | 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 all 20 MHz channel blocks and a null frequencies between the bonded 20 MHz channel blocks | | | |

| Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection | | |
|--|-----------------------------|--|
| Transmit Power | Value (See Notes 1,2 and 3) | |
| 0 milliwatt | -64 dBm | |
| 0 milliwatt and ectral density < 10 dBm/MHz | -62 dBm | |
| 0 milliwatt that do not meet the power spectral quirement | -64 dBm | |
| | | |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the

test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

| 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 See Note 1. | |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. | |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3. | |
| Note 1: Channel Move Time and the Channel (| Closing Transmission Time should be performed with Radar Type | |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

| | | Table 5: Short Pulse I | Radar Test Wavefo | rms | |
|-----------------|-----------------------|--|--|---|--------------------------------|
| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 |
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a 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 | $\underline{\text{Roundup}} \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu see}}\right) \end{cases}$ | 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 (Rada | r Types 1-4) | | | 80% | 120 |



| 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 | |

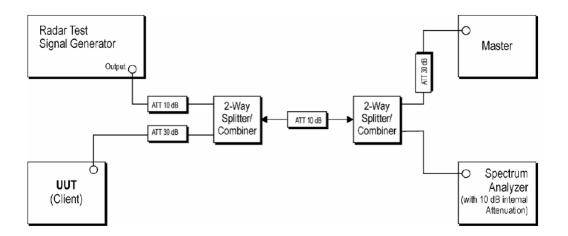
| | Table 6: Long Pulse Radar Test Waveform | | | | | | |
|------|---|-------------------------|---------------|---|----------------------------|--|--------------------------------|
| Туре | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per <i>Burst</i> | Number of <i>Bursts</i> | 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 | | | | | | | |
|--|--------------------------|---------------|-------------------|--------------------------|---|--|--------------------------------|
| Туре | 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 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 06-96 APPENDIX. 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 | 07/24/2014 | (1) |
| Signal Generator | R&S | SMU200A | 102598 | 04/24/2014 | (1) |
| Test Site | ATL | TE02 | TE02 | N.C.R. | |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ 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 |
|------|------|
| 1000 | mouo |

Mode 1: IEEE 802.11n 20MHz U-NII Band II-A Link Mode

Mode 2: IEEE 802.11n 20MHz U-NII Band II-C Link Mode

Mode 3: IEEE 802.11n 40MHz U-NII Band II-A Link Mode

Mode 4: IEEE 802.11n 40MHz U-NII Band II-C 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 20MHz U-NII Band II-A mode (ANT 0):

Unless otherwise noted, all tests were performed with the radar burst at the channel center frequency of 5300 MHz.

IEEE 802.11n 20MHz U-NII Band II-C mode (ANT 0):

Unless otherwise noted, all tests were performed with the radar burst at the channel center frequency of 5500 MHz.

IEEE 802.11n 40MHz U-NII Band II-A mode (ANT 0):

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

IEEE 802.11n 40MHz U-NII Band II-C mode (ANT 0):

Unless otherwise noted, all tests were performed with the radar burst at the channel center frequency of 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 FCC ID:LDK102061 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 link to Notebook. | |
| 4. | EUT run test program. | |

4.3. Test Site Environment

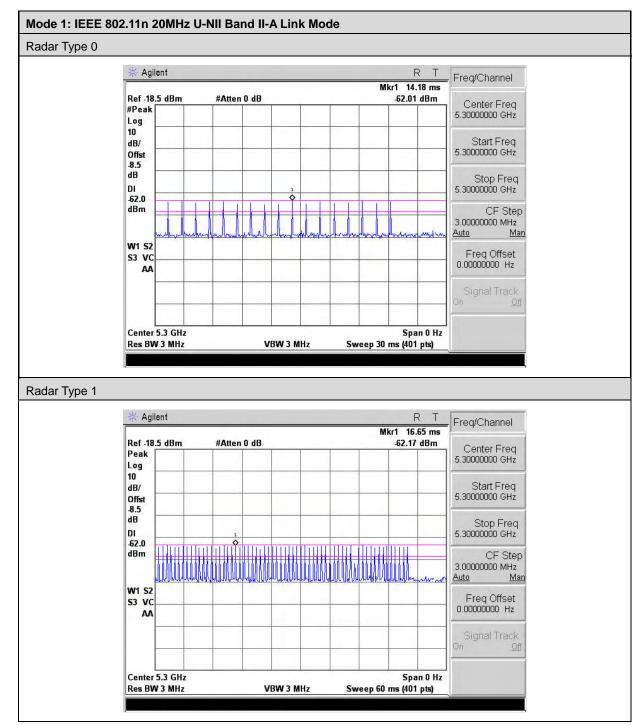
| ltems | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|--------|
| Temperature (°C) | 15-35 | 26 |
| Humidity (%RH) | 25-75 | 60 |
| Barometric pressure (mbar) | 860-1060 | 950 |

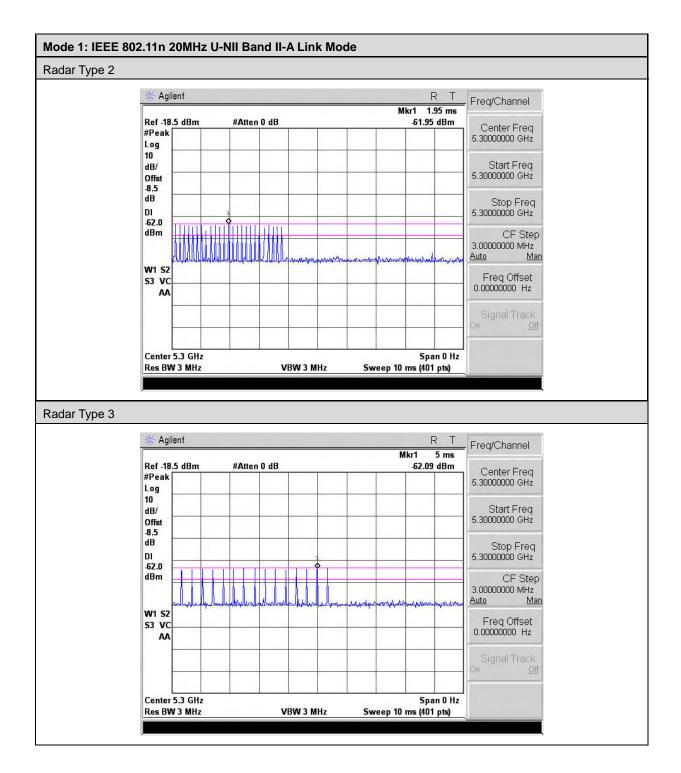


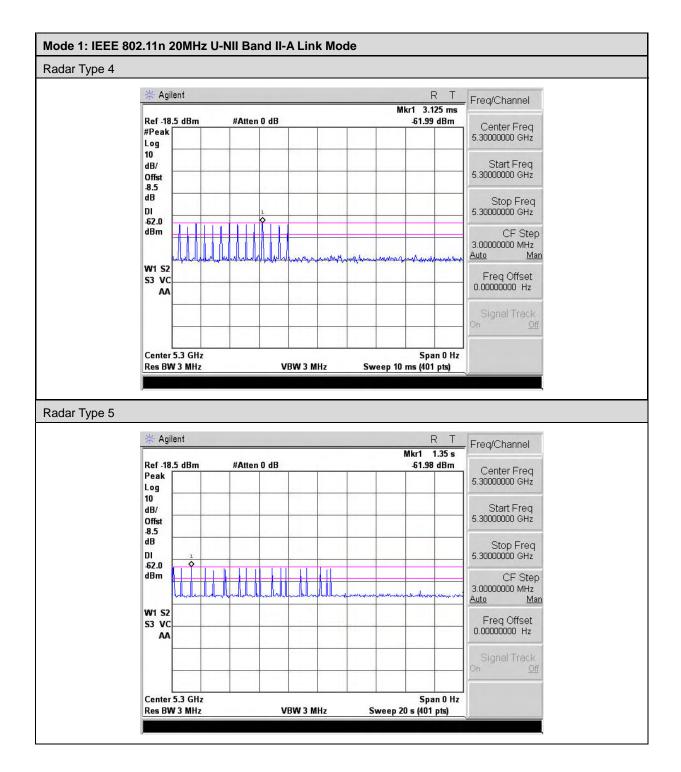
5 Results for 20 MHz Bandwidth

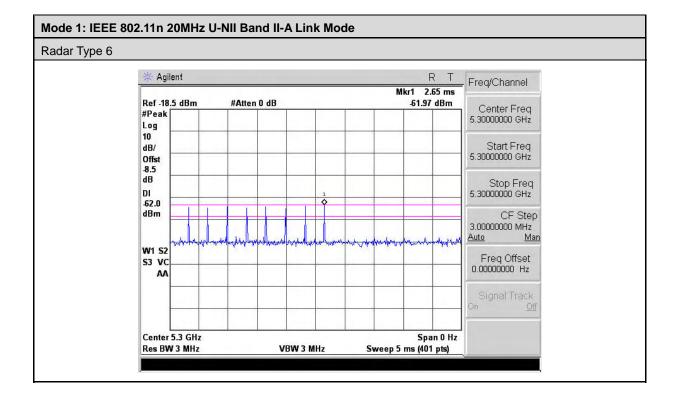
5.1. Radar Waveforms and Traffic

5.1.1. Results

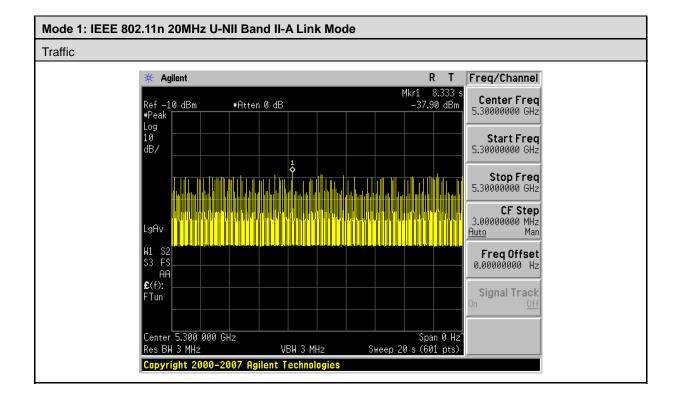


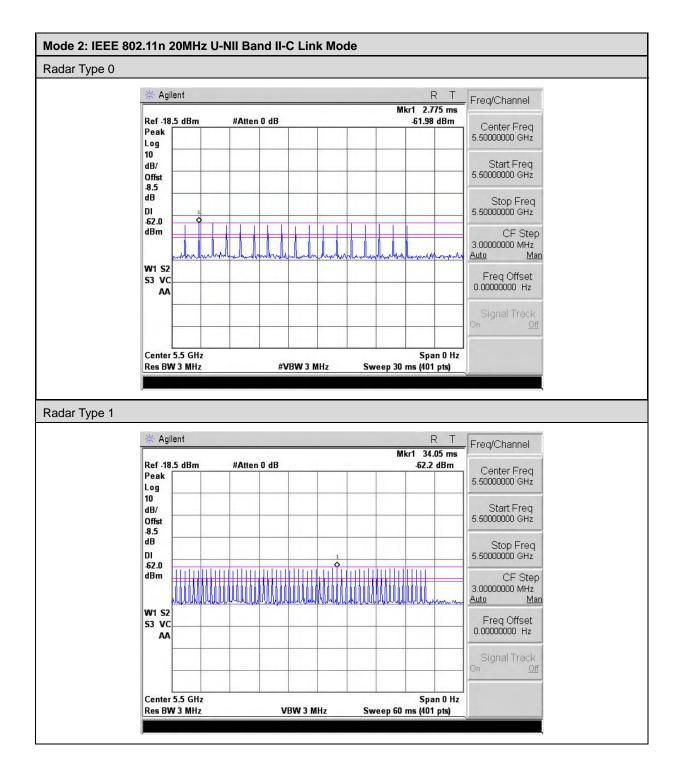


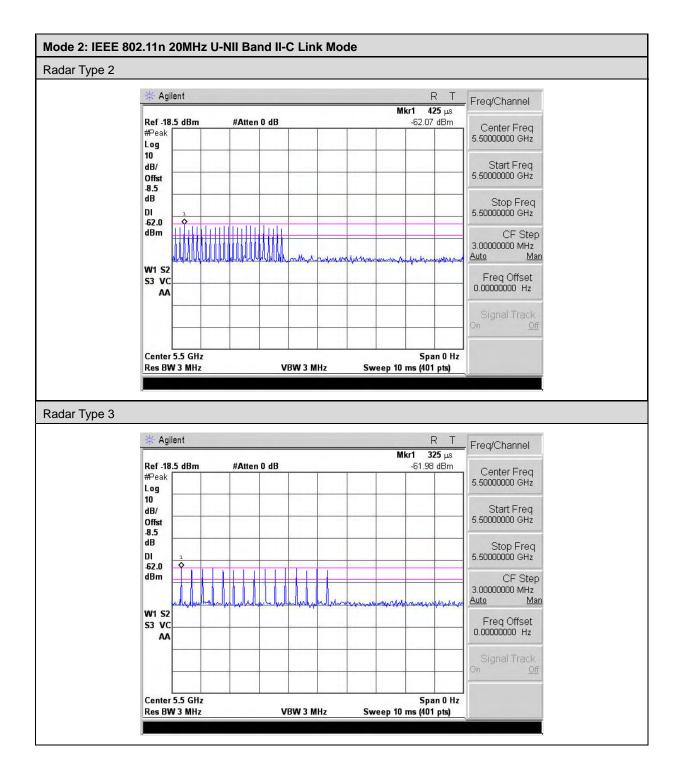


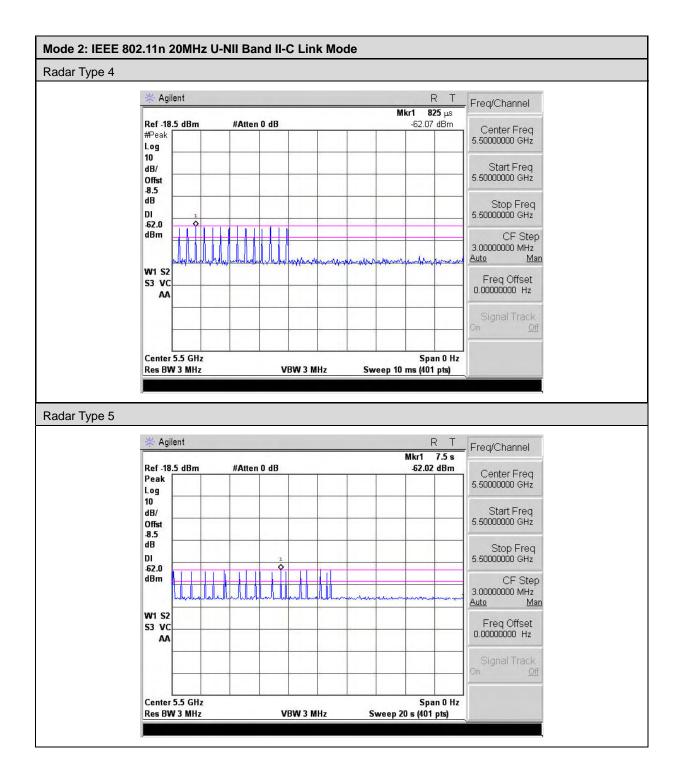


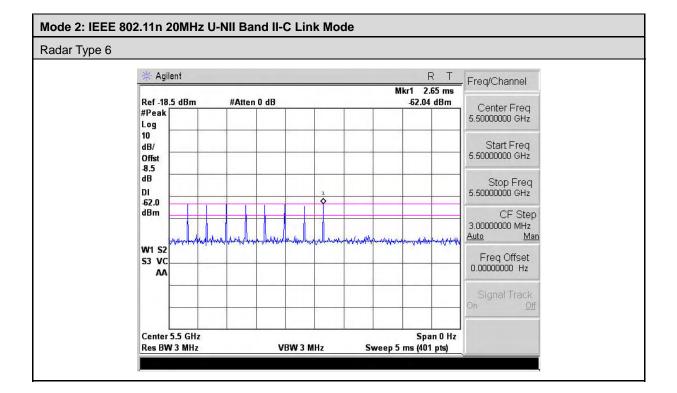




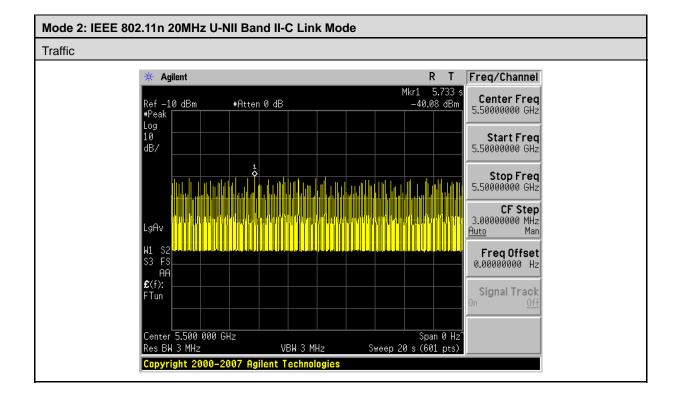














5.2. Channel Availability Check Time

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.

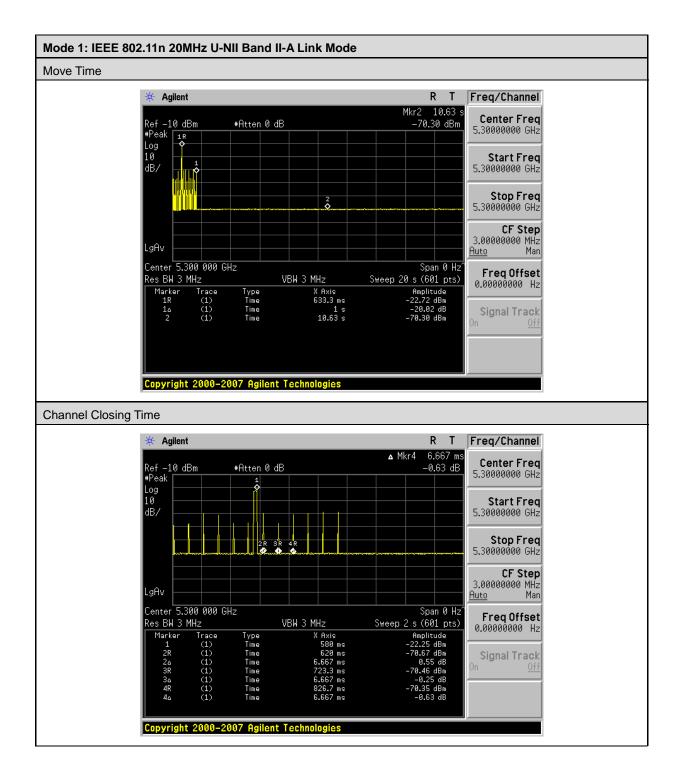
The aggregate channel closing transmission time is calculated as follows: Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

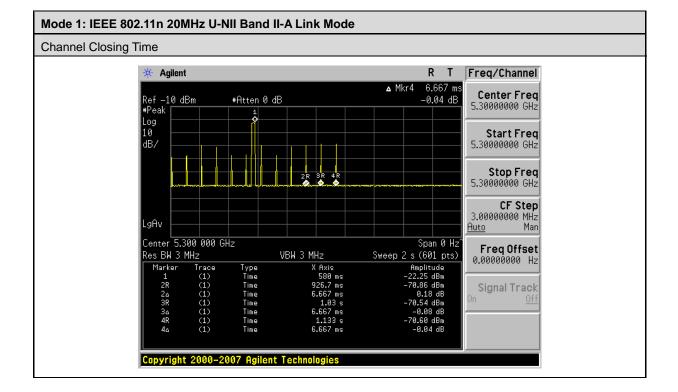
The observation period over which the FCC aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

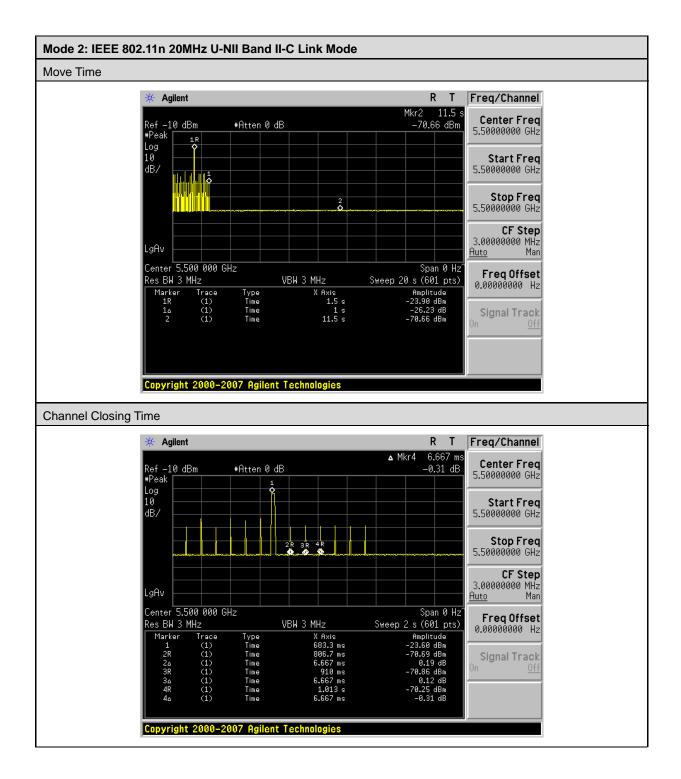
5.4.2. Results

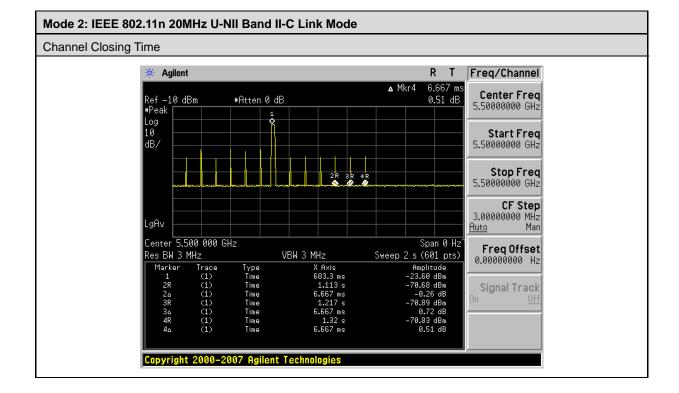
| Mode 1: IEEE 802.11n 20MHz U-NII Band II-A Link Mode | | | | | |
|--|---|--------|--|--|--|
| Agency | Channel Move Time | Limit | | | |
| Ageney | (sec) | (sec) | | | |
| FCC | 1.000 | 10 | | | |
| Agency | Aggregate Channel Closing Transmission Time | Limit | | | |
| Agency | (msec) | (msec) | | | |
| FCC | 40.002 | 60 | | | |

| Mode 2: IEEE 802.11n 20MHz U-NII Band II-C Link Mode | | | | | |
|--|---|--------|--|--|--|
| Δαορογ | Channel Move Time | Limit | | | |
| Agency | (sec) | (sec) | | | |
| FCC | 1.000 | 10 | | | |
| Agonov | Aggregate Channel Closing Transmission Time | Limit | | | |
| Agency | (msec) | (msec) | | | |
| FCC | 40.002 | 60 | | | |







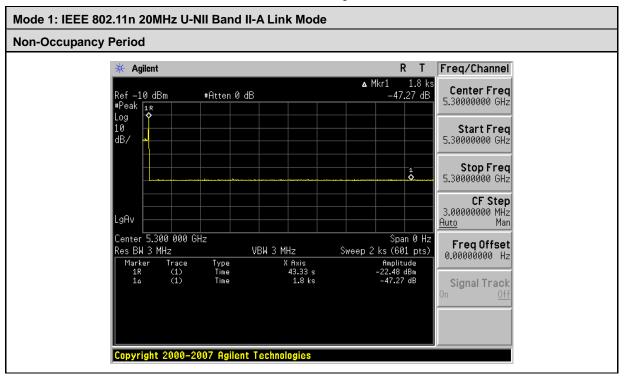


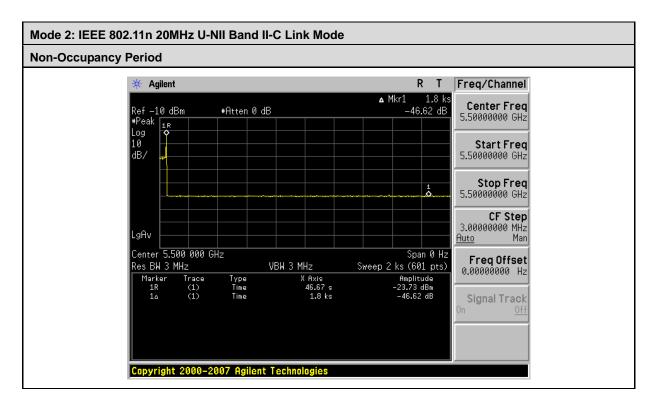


5.5. Non-Occupancy Period

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

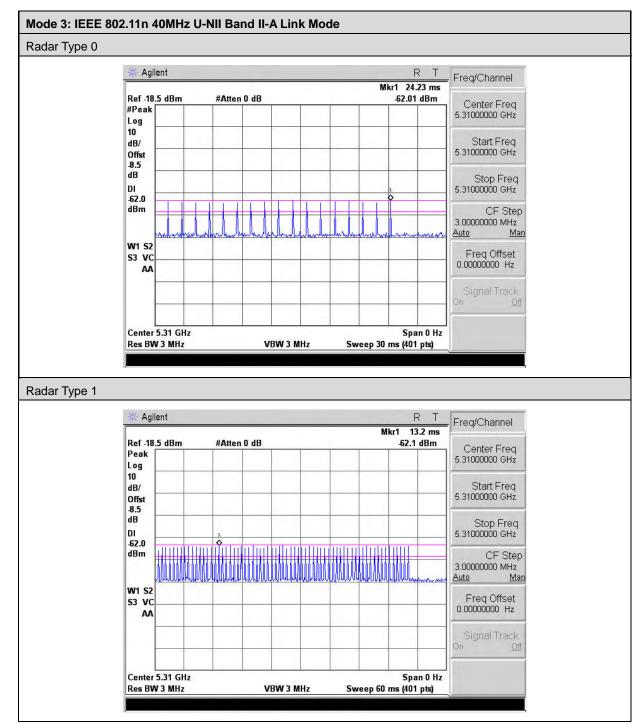
These tests are not applicable.

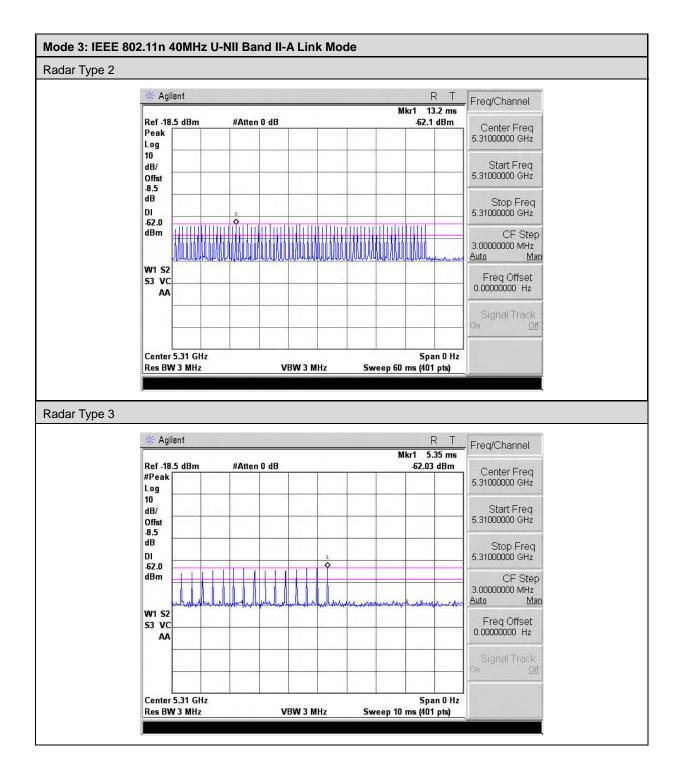


6 Results for 40 MHz Bandwidth

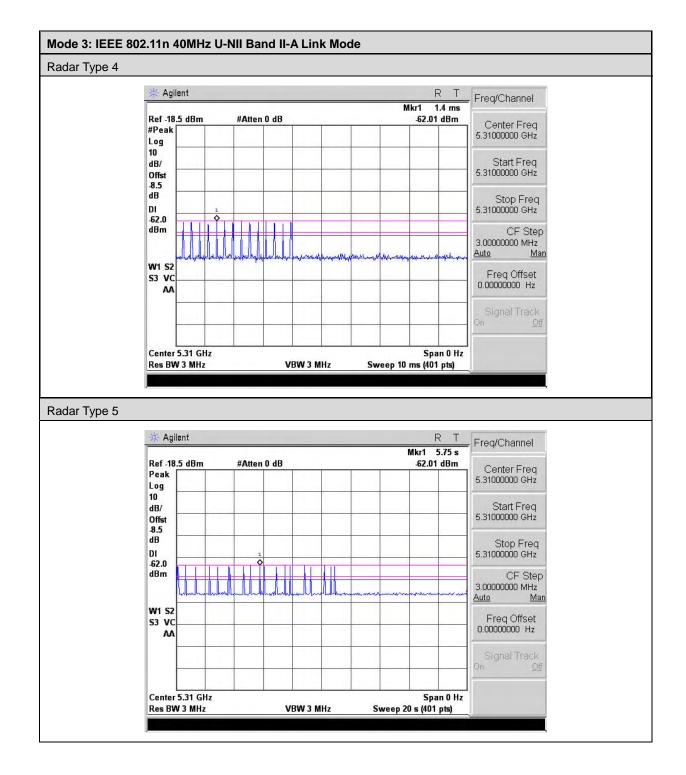
6.1. Radar Waveforms and Traffic

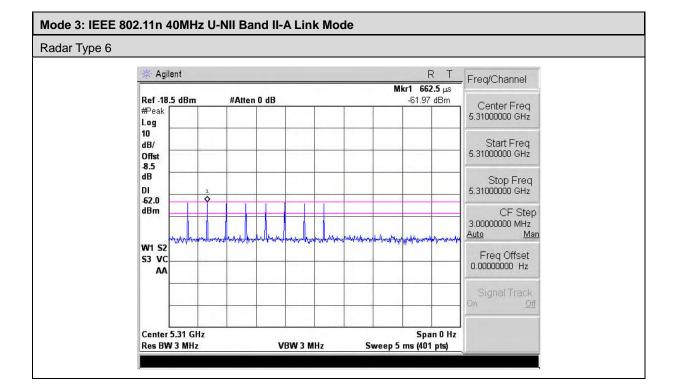
6.1.1. Results



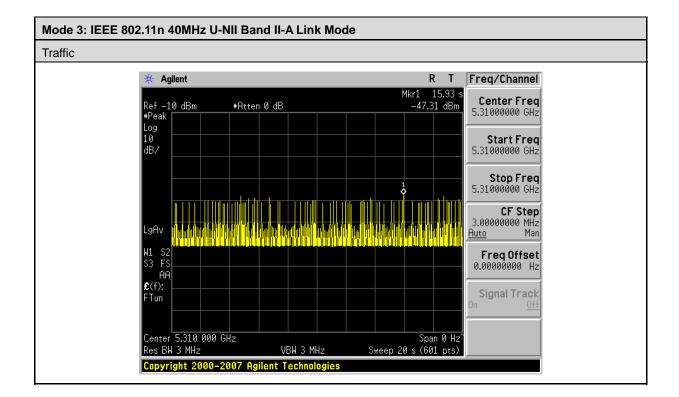


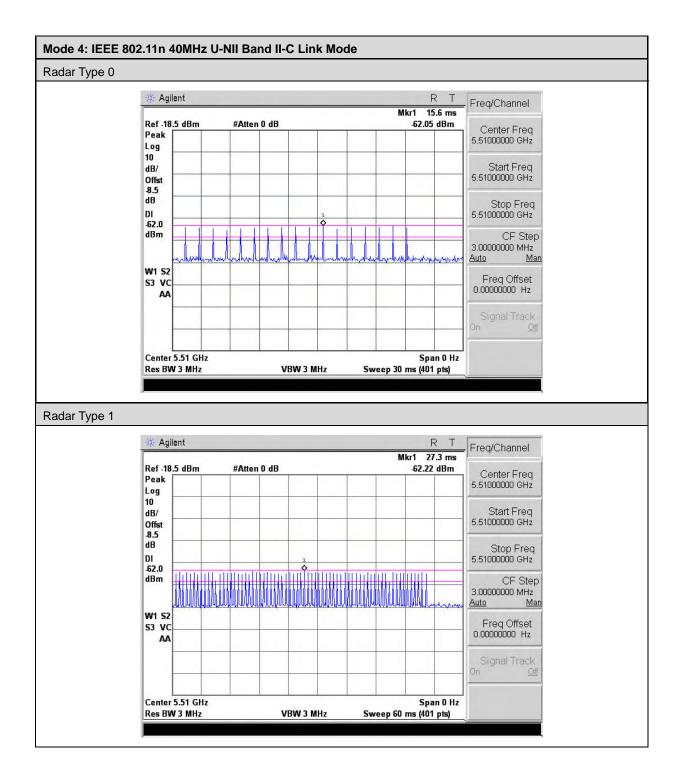


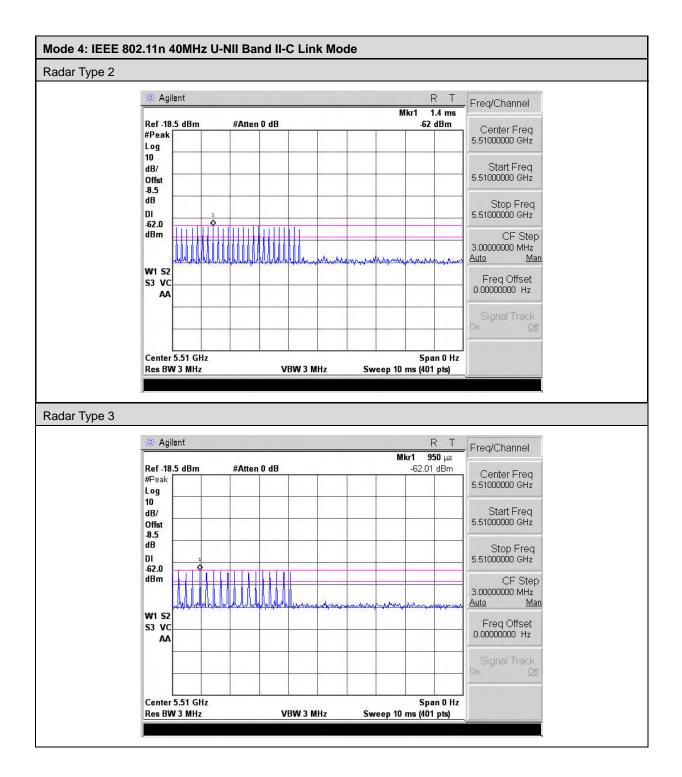


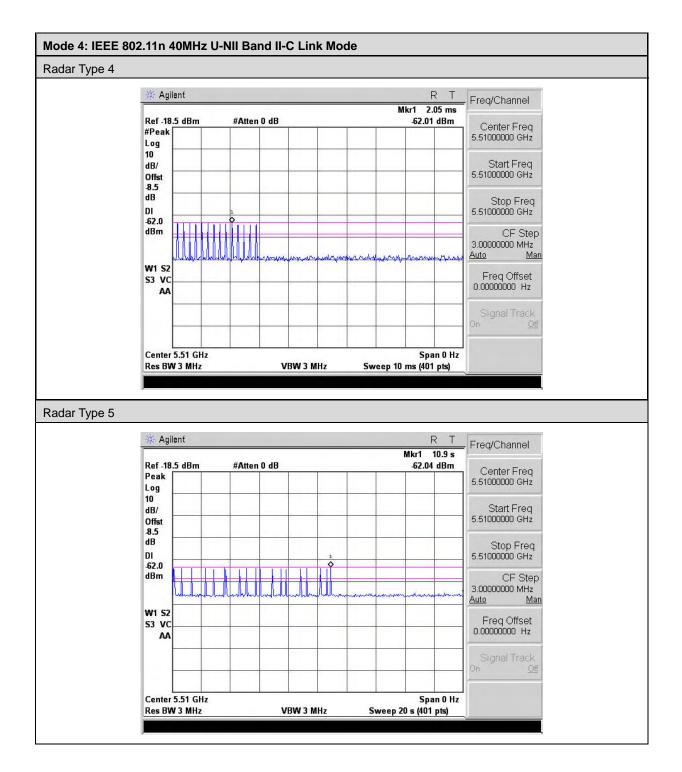


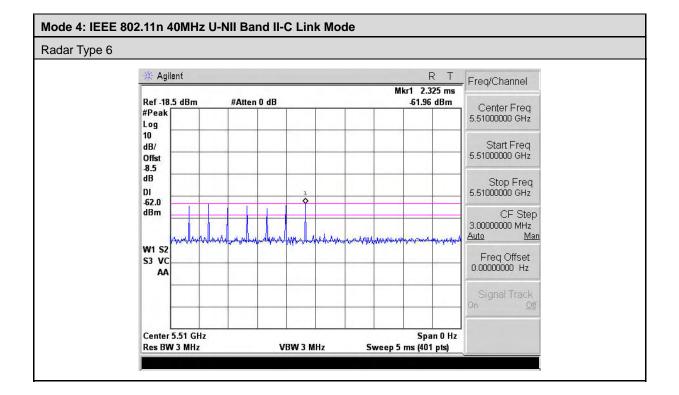




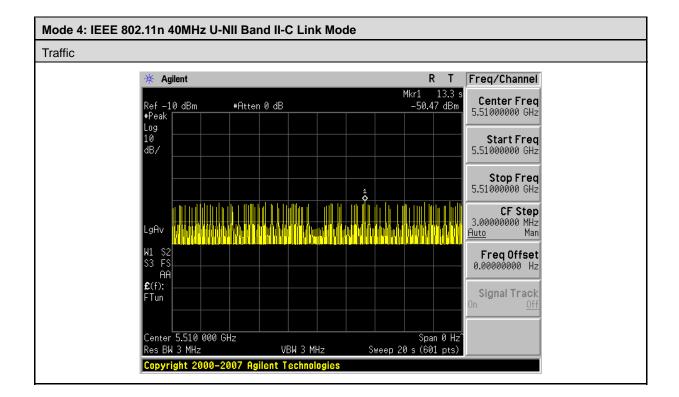














6.2. Channel Availability Check Time

6.2.1. 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.

6.2.2. 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.

6.2.3. Quantitative Results

These tests are not applicable.

6.3. Overlapping Channel Tests

These tests are not applicable.



6.4. Move and Closing Time

6.4.1. 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.

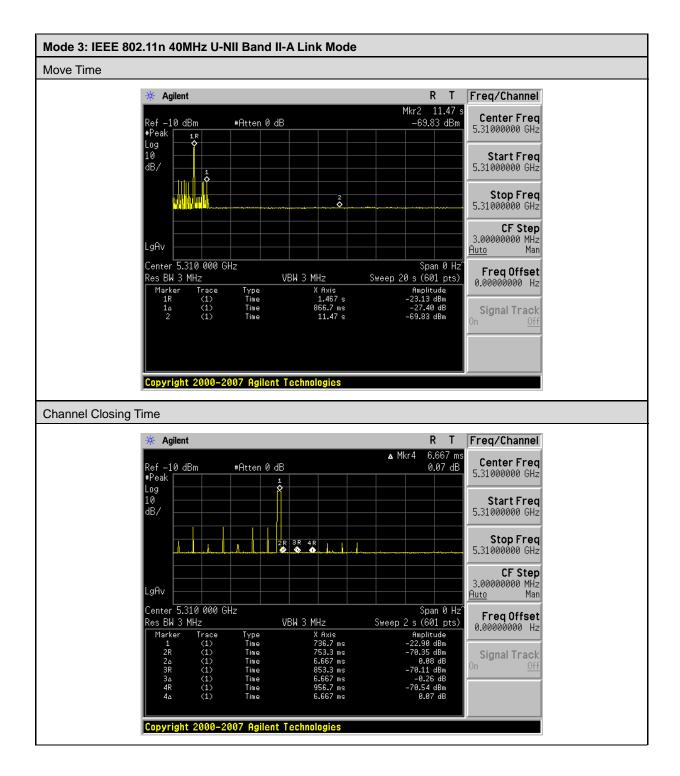
The aggregate channel closing transmission time is calculated as follows: Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

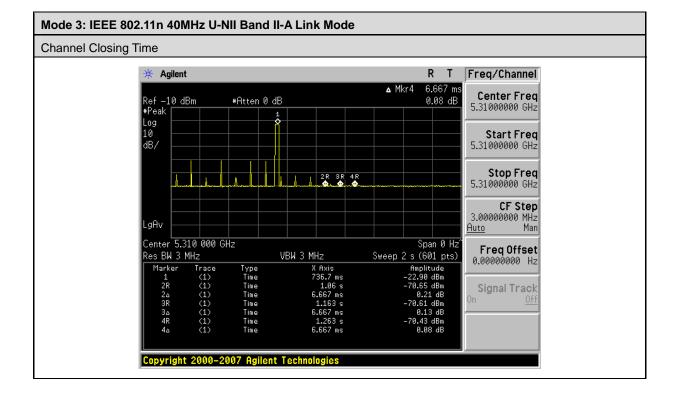
The observation period over which the FCC aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

6.4.2. Results

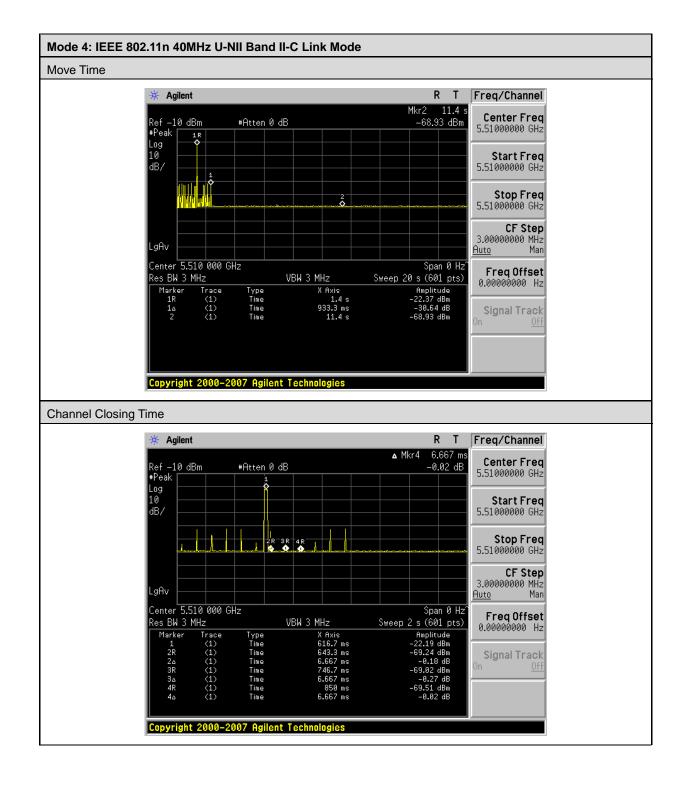
| Mode 3: IEEE 802.11n 40MHz U-NII Band II-A Link Mode | | | |
|--|---|--------|--|
| Agency | Channel Move Time | Limit | |
| | (sec) | (sec) | |
| FCC | 0.867 | 10 | |
| Agency | Aggregate Channel Closing Transmission Time | Limit | |
| | (msec) | (msec) | |
| FCC | 40.002 | 60 | |

| Mode 4: IEEE 802.11n 40MHz U-NII Band II-C Link Mode | | | |
|--|---|--------|--|
| Agency | Channel Move Time | Limit | |
| | (sec) | (sec) | |
| FCC | 0.933 | 10 | |
| Agency | Aggregate Channel Closing Transmission Time | Limit | |
| | (msec) | (msec) | |
| FCC | 40.002 | 60 | |

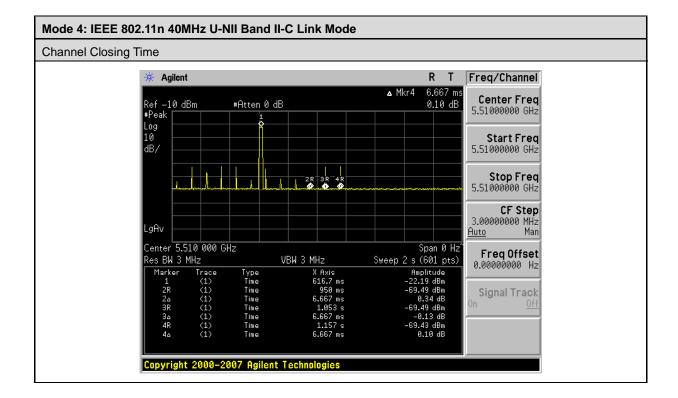










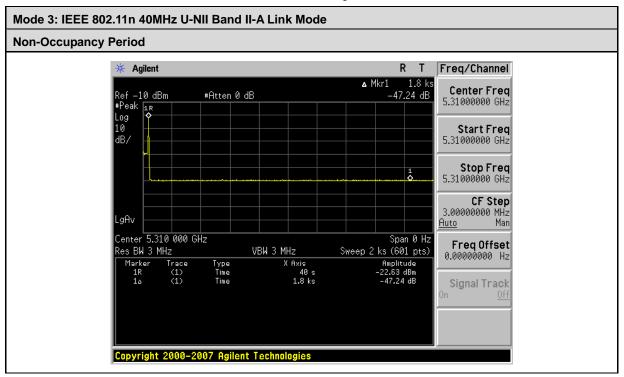


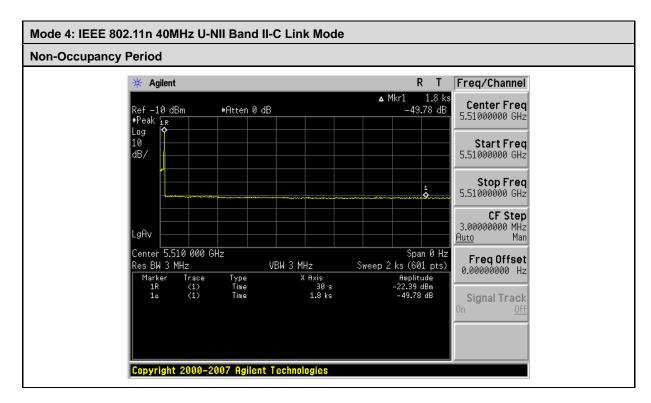


6.5. Non-Occupancy Period

6.5.1. Results

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







6.6. Detection Bandwidth

These tests are not applicable.

6.7. In-Service Monitoring

These tests are not applicable.