

*EMC Test Report*

*Application for Grant of Equipment Authorization*

*FCC Part 15 Subpart C*

*Models: 7265D2W and 7265D2W AN*

FCC ID: PD97265D2

APPLICANT: Intel Mobile Communications  
100 Center Point Circle, Suite 200  
Columbia, SC 29210, USA

TEST SITE(S): National Technical Systems - Silicon Valley  
41039 Boyce Road.  
Fremont, CA. 94538-2435

IC SITE REGISTRATION #: 2845B-3; 2845B-4, 2845B-5, 2845B-7

REPORT DATE: July 8, 2014

FINAL TEST DATES: June 5 through June 20, 2014

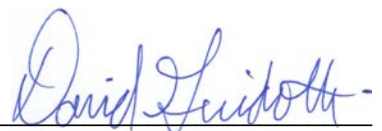
TOTAL NUMBER OF PAGES: 210

PROGRAM MGR /  
TECHNICAL REVIEWER:



David W. Bare  
Chief Engineer

QUALITY ASSURANCE DELEGATE /  
FINAL REPORT PREPARER:



David Guidotti  
Senior Technical Writer



National Technical Systems - Silicon Valley is accredited by the A2LA, certificate number 0214.26, to perform the test(s) listed in this report, except where noted otherwise. This report and the information contained herein represent the results of testing test articles identified and selected by the client performed to specifications and/or procedures selected by the client. National Technical Systems (NTS) makes no representations, expressed or implied, that such testing is adequate (or inadequate) to demonstrate efficiency, performance, reliability, or any other characteristic of the articles being tested, or similar products. This report should not be relied upon as an endorsement or certification by NTS of the equipment tested, nor does it represent any statement whatsoever as to its merchantability or fitness of the test article, or similar products, for a particular purpose. This report shall not be reproduced except in full

**REVISION HISTORY**

| Rev# | Date         | Comments      | Modified By |
|------|--------------|---------------|-------------|
| -    | July 8, 2014 | First release |             |

**TABLE OF CONTENTS**

|                                                                                    |            |
|------------------------------------------------------------------------------------|------------|
| <b>REVISION HISTORY .....</b>                                                      | <b>2</b>   |
| <b>TABLE OF CONTENTS .....</b>                                                     | <b>3</b>   |
| <b>SCOPE.....</b>                                                                  | <b>4</b>   |
| <b>OBJECTIVE .....</b>                                                             | <b>4</b>   |
| <b>STATEMENT OF COMPLIANCE.....</b>                                                | <b>5</b>   |
| <b>DEVIATIONS FROM THE STANDARDS.....</b>                                          | <b>5</b>   |
| <b>TEST RESULTS SUMMARY .....</b>                                                  | <b>6</b>   |
| DIGITAL TRANSMISSION SYSTEMS (2400 – 2483.5MHz) .....                              | 6          |
| GENERAL REQUIREMENTS APPLICABLE TO ALL BANDS.....                                  | 6          |
| MEASUREMENT UNCERTAINTIES.....                                                     | 7          |
| <b>EQUIPMENT UNDER TEST (EUT) DETAILS.....</b>                                     | <b>8</b>   |
| GENERAL.....                                                                       | 8          |
| ANTENNA SYSTEM .....                                                               | 8          |
| ENCLOSURE.....                                                                     | 8          |
| MODIFICATIONS.....                                                                 | 8          |
| SUPPORT EQUIPMENT.....                                                             | 8          |
| EUT INTERFACE PORTS .....                                                          | 9          |
| EUT OPERATION .....                                                                | 9          |
| <b>TEST SITE.....</b>                                                              | <b>10</b>  |
| GENERAL INFORMATION .....                                                          | 10         |
| CONDUCTED EMISSIONS CONSIDERATIONS .....                                           | 10         |
| RADIATED EMISSIONS CONSIDERATIONS .....                                            | 10         |
| <b>MEASUREMENT INSTRUMENTATION .....</b>                                           | <b>11</b>  |
| RECEIVER SYSTEM .....                                                              | 11         |
| INSTRUMENT CONTROL COMPUTER .....                                                  | 11         |
| LINE IMPEDANCE STABILIZATION NETWORK (LISN).....                                   | 11         |
| FILTERS/ATTENUATORS .....                                                          | 12         |
| ANTENNAS.....                                                                      | 12         |
| ANTENNA MAST AND EQUIPMENT TURNTABLE.....                                          | 12         |
| INSTRUMENT CALIBRATION.....                                                        | 12         |
| <b>TEST PROCEDURES .....</b>                                                       | <b>13</b>  |
| EUT AND CABLE PLACEMENT .....                                                      | 13         |
| CONDUCTED EMISSIONS.....                                                           | 13         |
| RADIATED EMISSIONS .....                                                           | 14         |
| CONDUCTED EMISSIONS FROM ANTENNA PORT .....                                        | 16         |
| BANDWIDTH MEASUREMENTS .....                                                       | 16         |
| SPECIFICATION LIMITS AND SAMPLE CALCULATIONS.....                                  | 17         |
| CONDUCTED EMISSIONS SPECIFICATION LIMITS: FCC 15.207; FCC 15.107(A), RSS GEN ..... | 17         |
| GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS .....                  | 18         |
| RECEIVER RADIATED SPURIOUS EMISSIONS SPECIFICATION LIMITS.....                     | 18         |
| OUTPUT POWER LIMITS – DIGITAL TRANSMISSION SYSTEMS .....                           | 18         |
| TRANSMIT MODE SPURIOUS RADIATED EMISSIONS LIMITS – FHSS AND DTS SYSTEMS.....       | 19         |
| SAMPLE CALCULATIONS - CONDUCTED EMISSIONS .....                                    | 19         |
| SAMPLE CALCULATIONS - RADIATED EMISSIONS.....                                      | 19         |
| SAMPLE CALCULATIONS - FIELD STRENGTH TO EIRP CONVERSION.....                       | 20         |
| <b>APPENDIX A TEST EQUIPMENT CALIBRATION DATA .....</b>                            | <b>21</b>  |
| <b>APPENDIX B TEST DATA .....</b>                                                  | <b>24</b>  |
| <b>END OF REPORT .....</b>                                                         | <b>210</b> |

## SCOPE

An electromagnetic emissions test has been performed on the Intel Mobile Communications model 7265D2W, pursuant to the following rules:

FCC Part 15 Subpart C

Conducted and radiated emissions data has been collected, reduced, and analyzed within this report in accordance with measurement guidelines set forth in the following reference standards and as outlined in National Technical Systems - Silicon Valley test procedures:

ANSI C63.10-2009

FCC DTS Measurement Guidance KDB558074

The intentional radiator above has been tested in a simulated typical installation to demonstrate compliance with the relevant Industry Canada performance and procedural standards.

Final system data was gathered in a mode that tended to maximize emissions by varying orientation of EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

Every practical effort was made to perform an impartial test using appropriate test equipment of known calibration. All pertinent factors have been applied to reach the determination of compliance.

## OBJECTIVE

The primary objective of the manufacturer is compliance with the regulations outlined in the previous section.

Prior to marketing in the USA, all unlicensed transmitters and transceivers require certification. Receive-only devices operating between 30 MHz and 960 MHz are subject to either certification or a manufacturer's declaration of conformity, with all other receive-only devices exempt from the technical requirements.

Prior to marketing in Canada, Class I transmitters, receivers and transceivers require certification. Class II devices are required to meet the appropriate technical requirements but are exempt from certification requirements.

Certification is a procedure where the manufacturer submits test data and technical information to a certification body and receives a certificate or grant of equipment authorization upon successful completion of the certification body's review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Testing was performed only on model 7265D2W. This model was considered representative of the following models:

7265D2W and 7265D2W AN

## STATEMENT OF COMPLIANCE

The tested sample of Intel Mobile Communications model 7265D2W complied with the requirements of the following regulations:

Industry Canada RSS-Gen Issue 3

RSS 210 Issue 8 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment"

FCC Part 15 Subpart C

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

The test results recorded herein are based on a single type test of Intel Mobile Communications model 7265D2W and therefore apply only to the tested sample. The sample was selected and prepared by Steven Hackett of Intel Mobile Communications.

## DEVIATIONS FROM THE STANDARDS

No deviations were made from the published requirements listed in the scope of this report.

**TEST RESULTS SUMMARY****DIGITAL TRANSMISSION SYSTEMS (2400 – 2483.5MHz)**

| FCC Rule Part                                                                      | RSS Rule Part    | Description                                    | Measured Value / Comments                                                                                                                 | Limit / Requirement                                   | Result   |
|------------------------------------------------------------------------------------|------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------|
| 15.247(a)                                                                          | RSS 210 A8.2     | Digital Modulation                             | Systems uses OFDM / DSSS techniques                                                                                                       | System must utilize a digital transmission technology | Complies |
| 15.247 (a) (2)                                                                     | RSS 210 A8.2 (1) | 6dB Bandwidth                                  | 10.04 MHz                                                                                                                                 | >500kHz                                               | Complies |
| 15.247 (b) (3)                                                                     | RSS 210 A8.2 (4) | Output Power (multipoint systems)              | b mode: 18.3 dBm<br>g mode: 20.4 dBm<br>n20 mode: 22.8 dBm<br>n40 mode: 21.8 dBm<br>BLE mode: 3.5 dBm<br>EIRP = 0.400 W <sup>Note 1</sup> | 1Watt, EIRP limited to 4 Watts.                       | Complies |
| 15.247(d)                                                                          | RSS 210 A8.2 (2) | Power Spectral Density                         | 1.3 dBm / 3kHz                                                                                                                            | 8dBm/3kHz                                             | Complies |
| 15.247(c)                                                                          | RSS 210 A8.5     | Antenna Port Spurious Emissions 30MHz – 25 GHz | All spurious emissions < -20dBc                                                                                                           | < -20dBc <sup>Note 2</sup>                            | Complies |
| 15.247(c) / 15.209                                                                 | RSS 210 A8.5     | Radiated Spurious Emissions 30MHz – 25 GHz     | 53.5 dBμV/m @ 2390.0 MHz (-0.5 dB)                                                                                                        | 15.207 in restricted bands, all others < -20dBc       | Complies |
| Note 1: EIRP calculated using antenna gain of 3.2 dBi for the highest EIRP system. |                  |                                                |                                                                                                                                           |                                                       |          |

**GENERAL REQUIREMENTS APPLICABLE TO ALL BANDS**

| FCC Rule Part               | RSS Rule part   | Description              | Measured Value / Comments                                              | Limit / Requirement                     | Result (margin) |
|-----------------------------|-----------------|--------------------------|------------------------------------------------------------------------|-----------------------------------------|-----------------|
| 15.203                      | -               | RF Connector             | Unique iPex-4 connector                                                | Unique or integral antenna required     | Complies        |
| 15.207                      | RSS GEN Table 4 | AC Conducted Emissions   | 62.0 dBμV @ 0.152 MHz (-3.9 dB)                                        | Refer to page 17                        | Complies        |
| 15.247 (b) (5) / 15.407 (f) | RSS 102         | RF Exposure Requirements | Refer to SAR report and RSS 102 declaration and User Manual statements | Refer to OET 65, FCC Part 1 and RSS 102 | Complies        |

**MEASUREMENT UNCERTAINTIES**

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with UKAS document LAB 34.

| Measurement Type                        | Measurement Unit | Frequency Range   | Expanded Uncertainty |
|-----------------------------------------|------------------|-------------------|----------------------|
| RF power, conducted (power meter)       | dBm              | 25 to 7000 MHz    | $\pm 0.52$ dB        |
| RF power, conducted (Spectrum analyzer) | dBm              | 25 to 7000 MHz    | $\pm 0.7$ dB         |
| Conducted emission of transmitter       | dBm              | 25 to 26500 MHz   | $\pm 0.7$ dB         |
| Conducted emission of receiver          | dBm              | 25 to 26500 MHz   | $\pm 0.7$ dB         |
| Radiated emission (substitution method) | dBm              | 25 to 26500 MHz   | $\pm 2.5$ dB         |
| Radiated emission (field strength)      | dB $\mu$ V/m     | 25 to 1000 MHz    | $\pm 3.6$ dB         |
|                                         |                  | 1000 to 40000 MHz | $\pm 6.0$ dB         |
| Conducted Emissions (AC Power)          | dB $\mu$ V       | 0.15 to 30 MHz    | $\pm 2.4$ dB         |

**EQUIPMENT UNDER TEST (EUT) DETAILS****GENERAL**

The Intel Mobile Communications models 7265D2W and 7265D2W AN are 2x2 Wi-Fi and Bluetooth radio modules which support 802.11abgnac in 2x2 (MIMO) and 1x1 (SISO) modes & BT 4.0 (Basic rate, EDR and BLE modes). Since the EUT would be placed on a tabletop during operation, the EUT was treated as tabletop equipment during testing to simulate the end-user environment. The electrical rating of the EUT is 3.3 VDC.

The sample was received on June 5, 2014 and tested on June 5 through June 20, 2014. The EUT consisted of the following component(s):

| Manufacturer                | Model   | Description                                                                              | Serial Number                             | FCC and Canada IDs        |
|-----------------------------|---------|------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|
| Intel Mobile Communications | 7265D2W | M.2 Card form factor<br>Bluetooth / IEEE<br>802.11a/b/g/n/ac wireless<br>network adapter | 00:15:00:F1:5B:5D or<br>00:15:00:F1:5B:3A | PD97265D2<br>1000M-7265D2 |

**ANTENNA SYSTEM**

The EUT antenna is a two-antenna PIFA antenna system – Shanghai Universe Communication Electron Co., Ltd. One or both antennas are used for WiFi operation and one for Bluetooth operation. For Bluetooth: Tx is chain B, Rx is chain B. For WiFi, only Chain A is used for transmit in the 2.4GHz band when Bluetooth is active, both chains can be used in 5GHz bands.

**ENCLOSURE**

The EUT has no enclosure. It is designed to be installed within the enclosure of a host computer.

**MODIFICATIONS**

No modifications were made to the EUT during the time the product was at NTS Silicon Valley.

**SUPPORT EQUIPMENT**

The following equipment was used as support equipment for testing:

| Company  | Model                    | Description      | Serial Number | FCC ID |
|----------|--------------------------|------------------|---------------|--------|
| Dell     | DCCY                     | Desktop computer | BJYN64J       | -      |
| Hanns G  | HX191DPBUFLF6            | LCD monitor      | 017GR3XY00286 | -      |
| Logitech | 5680157                  | Mouse            | LNA20956449   | -      |
| Intel    | NGFF Extension REV<br>01 | Extension Board  | 4164912-200   | -      |

**EUT INTERFACE PORTS**

The I/O cabling configuration during testing was as follows:

| Port                    | Connected To    | Description | Cable(s)               |           |
|-------------------------|-----------------|-------------|------------------------|-----------|
|                         |                 |             | Shielded or Unshielded | Length(m) |
| Antenna (x2)            | Antenna         | RF cable    | Shielded               | 0.3       |
| Desktop Mini PCIe Slot  | Extension Board | Ribbon      | Unshielded             | 0.8       |
| Desktop USB             | Extension Board | Multiwire   | Unshielded             | 1.2       |
| Desktop AC power supply | AC Main         | power cable | Unshielded             | 2.3       |
| Power (test fixture)    | Computer        | Multiwire   | Unshielded             | 1.5       |
| Desktop USB             | Keyboard        | Multiwire   | Shielded               | 1.0       |
| Desktop USB             | Mouse           | Multiwire   | Shielded               | 1.0       |
| Desktop Display         | Monitor         | Multiwire   | Shielded               | 1.0       |

**EUT OPERATION**

During emissions testing the EUT was transmitting on the frequency & at the power level selected in the proprietary DRTU control software.

## TEST SITE

### GENERAL INFORMATION

Final test measurements were taken at the test sites listed below. Pursuant to section 2.948 of the FCC's Rules and section 3.3 of RSP-100, construction, calibration, and equipment data has been filed with the Commission and with industry Canada.

| Site      | Designation / Registration Numbers |         | Location                                      |
|-----------|------------------------------------|---------|-----------------------------------------------|
|           | FCC                                | Canada  |                                               |
| Chamber 3 | US0027                             | 2845B-3 | 41039 Boyce Road<br>Fremont,<br>CA 94538-2435 |
| Chamber 4 | US0027                             | 2845B-4 |                                               |
| Chamber 5 | US0027                             | 2845B-5 |                                               |
| Chamber 7 | US0027                             | 2845B-7 |                                               |

ANSI C63.4 recommends that ambient noise at the test site be at least 6 dB below the allowable limits. Ambient levels are below this requirement. The test site(s) contain separate areas for radiated and conducted emissions testing. Considerable engineering effort has been expended to ensure that the facilities conform to all pertinent requirements of ANSI C63.4.

### CONDUCTED EMISSIONS CONSIDERATIONS

Conducted emissions testing is performed in conformance with ANSI C63.10. Measurements are made with the EUT connected to the public power network through a nominal, standardized RF impedance, which is provided by a line impedance stabilization network, known as a LISN. A LISN is inserted in series with each current-carrying conductor in the EUT power cord.

### RADIATED EMISSIONS CONSIDERATIONS

The FCC has determined that radiation measurements made in a shielded enclosure are not suitable for determining levels of radiated emissions. Radiated measurements are performed in an open field environment or in a semi-anechoic chamber. The test sites are maintained free of conductive objects within the CISPR defined elliptical area incorporated in ANSI C63.4 guidelines and meet the Normalized Site Attenuation (NSA) requirements of ANSI C63.4.

## MEASUREMENT INSTRUMENTATION

### RECEIVER SYSTEM

An EMI receiver as specified in CISPR 16-1-1 is used for emissions measurements. The receivers used can measure over the frequency range of 9 kHz up to 2000 MHz. These receivers allow both ease of measurement and high accuracy to be achieved. The receivers have Peak, Average, and CISPR (Quasi-peak) detectors built into their design so no external adapters are necessary. The receiver automatically sets the required bandwidth for the CISPR detector used during measurements. If the repetition frequency of the signal being measured is below 20Hz, peak measurements are made in lieu of Quasi-Peak measurements.

For measurements above the frequency range of the receivers, a spectrum analyzer is utilized because it provides visibility of the entire spectrum along with the precision and versatility required to support engineering analysis. Average measurements above 1000MHz are performed on the spectrum analyzer using the linear-average method with a resolution bandwidth of 1 MHz and a video bandwidth of 10 Hz, unless the signal is pulsed in which case the average (or video) bandwidth of the measuring instrument is reduced to onset of pulse desensitization and then increased.

### INSTRUMENT CONTROL COMPUTER

The receivers utilize either a Rohde & Schwarz EZM Spectrum Monitor/Controller or contain an internal Spectrum Monitor/Controller to view and convert the receiver measurements to the field strength at an antenna or voltage developed at the LISN measurement port, which is then compared directly with the appropriate specification limit. This provides faster, more accurate readings by performing the conversions described under Sample Calculations within the Test Procedures section of this report. Results are printed in a graphic and/or tabular format, as appropriate. A personal computer is used to record all measurements made with the receivers.

The Spectrum Monitor provides a visual display of the signal being measured. In addition, the controller or a personal computer run automated data collection programs which control the receivers. This provides added accuracy since all site correction factors, such as cable loss and antenna factors are added automatically.

### LINE IMPEDANCE STABILIZATION NETWORK (LISN)

Line conducted measurements utilize a fifty microhenry Line Impedance Stabilization Network as the monitoring point. The LISN used also contains a 250 uH CISPR adapter. This network provides for calibrated radio frequency noise measurements by the design of the internal low pass and high pass filters on the EUT and measurement ports, respectively.

#### *FILTERS/ATTENUATORS*

External filters and precision attenuators are often connected between the receiving antenna or LISN and the receiver. This eliminates saturation effects and non-linear operation due to high amplitude transient events.

#### *ANTENNAS*

A loop antenna is used below 30 MHz. For the measurement range 30 MHz to 1000 MHz either a combination of a biconical antenna and a log periodic or a bi-log antenna is used. Above 1000 MHz, horn antennas are used. The antenna calibration factors to convert the received voltage to an electric field strength are included with appropriate cable loss and amplifier gain factors to determine an overall site factor, which is then programmed into the test receivers or incorporated into the test software.

#### *ANTENNA MAST AND EQUIPMENT TURNTABLE*

The antennas used to measure the radiated electric field strength are mounted on a non-conductive antenna mast equipped with a motor-drive to vary the antenna height. Measurements below 30 MHz are made with the loop antenna at a fixed height of 1m above the ground plane.

ANSI C63.10 specifies that the test height above ground for table mounted devices shall be 80 centimeters. Floor mounted equipment shall be placed on the ground plane if the device is normally used on a conductive floor or separated from the ground plane by insulating material from 3 to 12 mm if the device is normally used on a non-conductive floor as specified in ANSI C63.4. During radiated measurements, the EUT is positioned on a motorized turntable in conformance with this requirement.

#### *INSTRUMENT CALIBRATION*

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

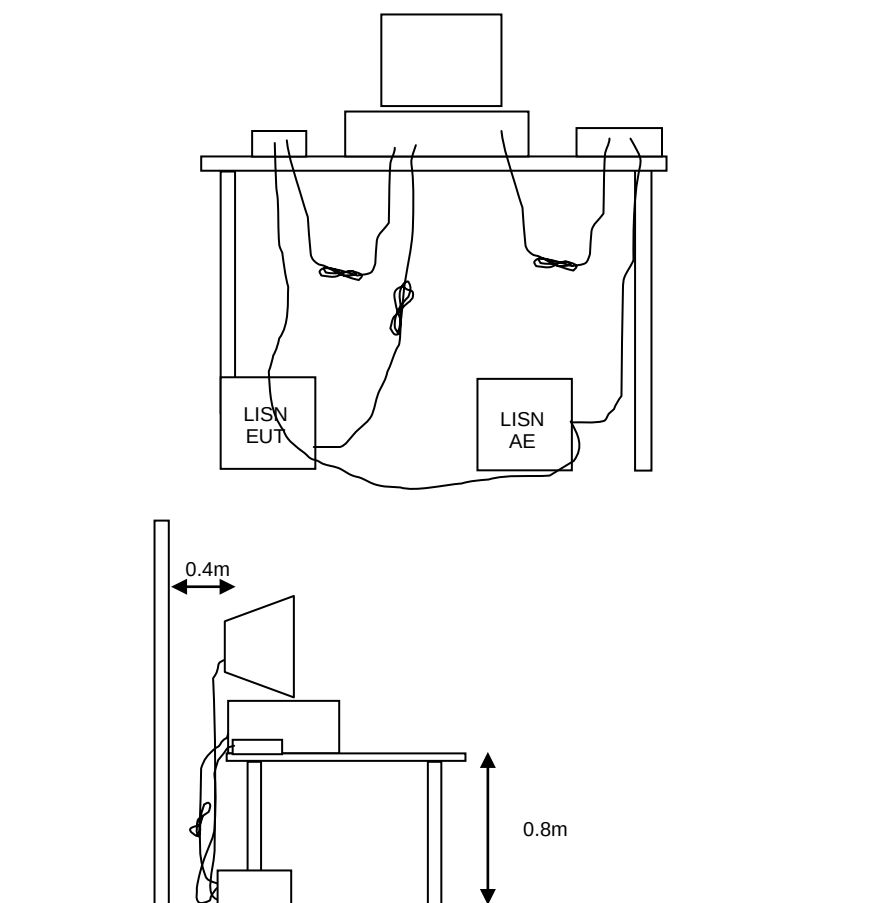
## TEST PROCEDURES

### EUT AND CABLE PLACEMENT

The regulations require that interconnecting cables be connected to the available ports of the unit and that the placement of the unit and the attached cables simulate the worst case orientation that can be expected from a typical installation, so far as practicable. To this end, the position of the unit and associated cabling is varied within the guidelines of ANSI C63.10, and the worst-case orientation is used for final measurements.

### CONDUCTED EMISSIONS

Conducted emissions are measured at the plug end of the power cord supplied with the EUT. Excess power cord length is wrapped in a bundle between 30 and 40 centimeters in length near the center of the cord. Preliminary measurements are made to determine the highest amplitude emission relative to the specification limit for all the modes of operation. Placement of system components and varying of cable positions are performed in each mode. A final peak mode scan is then performed in the position and mode for which the highest emission was noted on all current carrying conductors of the power cord.



**Figure 1 Typical Conducted Emissions Test Configuration**

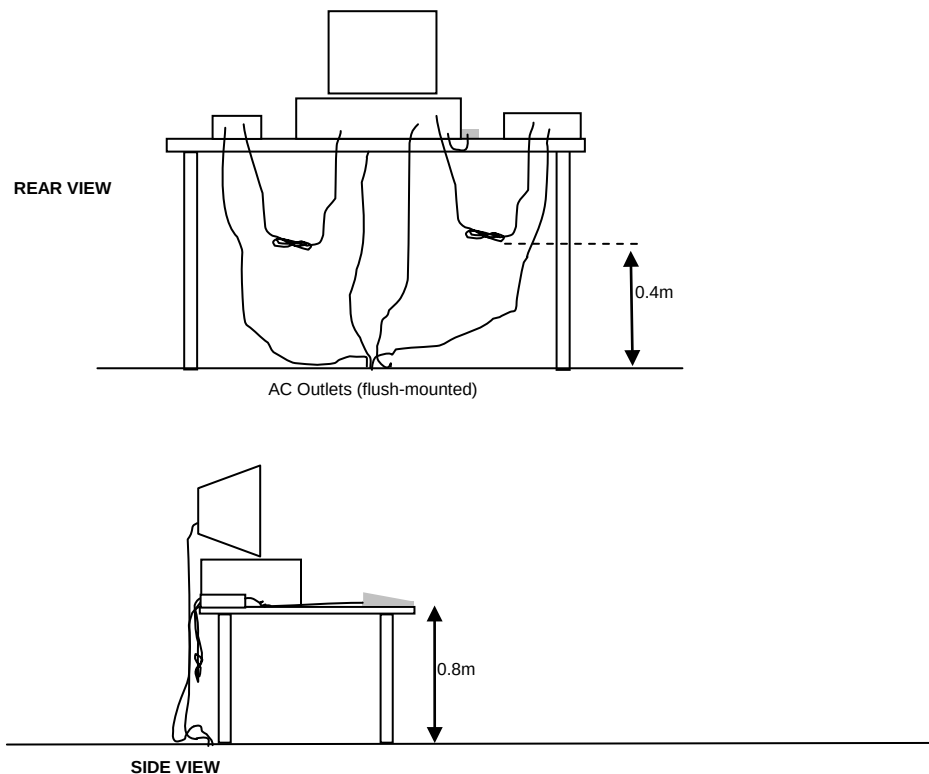
**RADIATED EMISSIONS**

A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). During the preliminary scans, the EUT is rotated through 360°, the antenna height is varied (for measurements above 30 MHz) and cable positions are varied to determine the highest emission relative to the limit. Preliminary scans may be performed in a fully anechoic chamber for the purposes of identifying the frequencies of the highest emissions from the EUT.

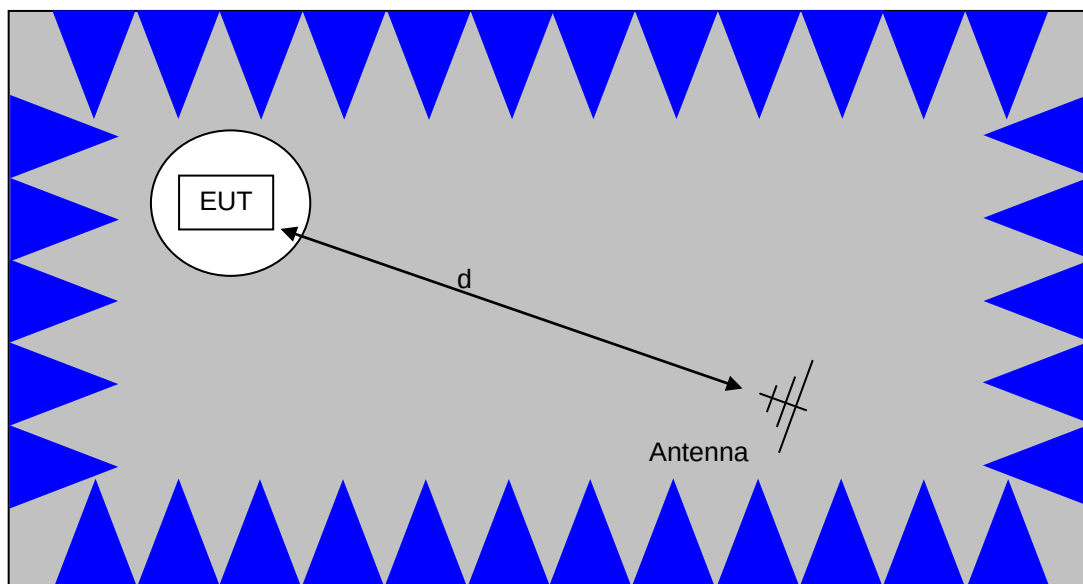
A speaker is provided in the receiver to aid in discriminating between EUT and ambient emissions. Other methods used during the preliminary scan for EUT emissions involve scanning with near field magnetic loops, monitoring I/O cables with RF current clamps, and cycling power to the EUT.

Final maximization is a phase in which the highest amplitude emissions identified in the spectral search are viewed while the EUT azimuth angle is varied from 0 to 360 degrees relative to the receiving antenna. The azimuth, which results in the highest emission is then maintained while varying the antenna height from one to four meters (for measurements above 30 MHz, measurements below 30 MHz are made with the loop antenna at a fixed height of 1m). The result is the identification of the highest amplitude for each of the highest peaks. Each recorded level is corrected in the receiver using appropriate factors for cables, connectors, antennas, and preamplifier gain.

When testing above 18 GHz, the receive antenna is located at 1 meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.

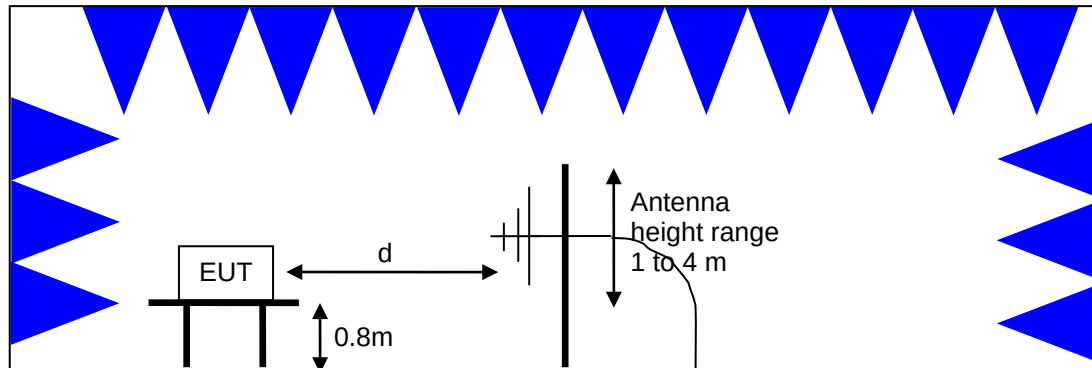


Typical Test Configuration for Radiated Field Strength Measurements



The anechoic materials on the walls and ceiling ensure compliance with the normalized site attenuation requirements of CISPR 16 / CISPR 22 / ANSI C63.4 for an alternate test site at the measurement distances used.

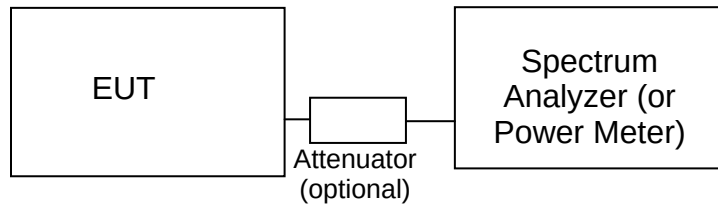
Floor-standing equipment is placed on the floor with insulating supports between the unit and the ground plane.



Test Configuration for Radiated Field Strength Measurements  
Semi-Anechoic Chamber, Plan and Side Views

**CONDUCTED EMISSIONS FROM ANTENNA PORT**

Direct measurements of power, bandwidth and power spectral density are performed, where possible, with the antenna port of the EUT connected to either the power meter or spectrum analyzer via a suitable attenuator and/or filter. These are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission.

**Test Configuration for Antenna Port Measurements**

Measurement bandwidths (video and resolution) are set in accordance with the relevant standards and NTS Silicon Valley's test procedures for the type of radio being tested. When power measurements are made using a resolution bandwidth less than the signal bandwidth the power is calculated by summing the power across the signal bandwidth using either the analyzer channel power function or by capturing the trace data and calculating the power using software. In both cases the summed power is corrected to account for the equivalent noise bandwidth (ENBW) of the resolution bandwidth used.

If power averaging is used (typically for certain digital modulation techniques), the EUT is configured to transmit continuously. Power averaging is performed using either the built-in function of the analyzer or, if the analyzer does not feature power averaging, using external software. In both cases the average power is calculated over a number of sweeps (typically 100). When the EUT cannot be configured to continuously transmit then either the analyzer is configured to perform a gated sweep to ensure that the power is averaged over periods that the device is transmitting or power averaging is disabled and a max-hold feature is used.

If a power meter is used to make output power measurements the sensor head type (peak or average) is stated in the test data table.

**BANDWIDTH MEASUREMENTS**

The 6dB, 20dB, 26dB and/or 99% signal bandwidth are measured using the bandwidths recommended by ANSI C63.10 and RSS GEN.

**SPECIFICATION LIMITS AND SAMPLE CALCULATIONS**

The limits for conducted emissions are given in units of microvolts, and the limits for radiated emissions are given in units of microvolts per meter at a specified test distance. Data is measured in the logarithmic form of decibels relative to one microvolt, or dB microvolts (dBuV). For radiated emissions, the measured data is converted to the field strength at the antenna in dB microvolts per meter (dBuV/m). The results are then converted to the linear forms of uV and uV/m for comparison to published specifications.

For reference, converting the specification limits from linear to decibel form is accomplished by taking the base ten logarithm, then multiplying by 20. These limits in both linear and logarithmic form are as follows:

**CONDUCTED EMISSIONS SPECIFICATION LIMITS: FCC 15.207; FCC 15.107(a), RSS GEN**

The table below shows the limits for the emissions on the AC power line from an intentional radiator and a receiver.

| Frequency<br>(MHz) | Average<br>Limit<br>(dBuV)                                                | Quasi Peak<br>Limit<br>(dBuV)                                             |
|--------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 0.150 to 0.500     | Linear decrease on<br>logarithmic frequency axis<br>between 56.0 and 46.0 | Linear decrease on<br>logarithmic frequency axis<br>between 66.0 and 56.0 |
| 0.500 to 5.000     | 46.0                                                                      | 56.0                                                                      |
| 5.000 to 30.000    | 50.0                                                                      | 60.0                                                                      |

**GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS**

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands<sup>1</sup> (with the exception of transmitters operating under FCC Part 15 Subpart D and RSS 210 Annex 9), the limits for all emissions from a low power device operating under the general rules of RSS 310 (tables 3 and 4), RSS 210 (table 2) and FCC Part 15 Subpart C section 15.209.

| Frequency Range (MHz) | Limit (uV/m)                        | Limit (dBuV/m @ 3m)                               |
|-----------------------|-------------------------------------|---------------------------------------------------|
| 0.009-0.490           | $2400/F_{\text{KHz}} @ 300\text{m}$ | $67.6-20*\log_{10}(F_{\text{KHz}}) @ 300\text{m}$ |
| 0.490-1.705           | $24000/F_{\text{KHz}} @ 30\text{m}$ | $87.6-20*\log_{10}(F_{\text{KHz}}) @ 30\text{m}$  |
| 1.705 to 30           | 30 @ 30m                            | 29.5 @ 30m                                        |
| 30 to 88              | 100 @ 3m                            | 40 @ 3m                                           |
| 88 to 216             | 150 @ 3m                            | 43.5 @ 3m                                         |
| 216 to 960            | 200 @ 3m                            | 46.0 @ 3m                                         |
| Above 960             | 500 @ 3m                            | 54.0 @ 3m                                         |

**RECEIVER RADIATED SPURIOUS EMISSIONS SPECIFICATION LIMITS**

The table below shows the limits for the spurious emissions from receivers as detailed in FCC Part 15.109, RSS 210 Table 2, RSS GEN Table 1 and RSS 310 Table 3. Note that receivers operating outside of the frequency range 30 MHz – 960 MHz are exempt from the requirements of 15.109.

| Frequency Range (MHz) | Limit (uV/m @ 3m) | Limit (dBuV/m @ 3m) |
|-----------------------|-------------------|---------------------|
| 30 to 88              | 100               | 40                  |
| 88 to 216             | 150               | 43.5                |
| 216 to 960            | 200               | 46.0                |
| Above 960             | 500               | 54.0                |

**OUTPUT POWER LIMITS – DIGITAL TRANSMISSION SYSTEMS**

The table below shows the limits for output power and output power density. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

| Operating Frequency (MHz) | Output Power    | Power Spectral Density |
|---------------------------|-----------------|------------------------|
| 902 – 928                 | 1 Watt (30 dBm) | 8 dBm/3kHz             |
| 2400 – 2483.5             | 1 Watt (30 dBm) | 8 dBm/3kHz             |
| 5725 – 5850               | 1 Watt (30 dBm) | 8 dBm/3kHz             |

The maximum permitted output power is reduced by 1dB for every dB the antenna gain exceeds 6dBi. Fixed point-to-point applications using the 5725 – 5850 MHz band are not subject to this restriction.

<sup>1</sup> The restricted bands are detailed in FCC 15.203, RSS 210 Table 1 and RSS 310 Table 2

*TRANSMIT MODE SPURIOUS RADIATED EMISSIONS LIMITS – FHSS and DTS SYSTEMS*

The limits for unwanted (spurious) emissions from the transmitter falling in the restricted bands are those specified in the general limits sections of FCC Part 15 and RSS 210. All other unwanted (spurious) emissions shall be at least 20dB below the level of the highest in-band signal level (30dB if the power is measured using the sample detector/power averaging method).

*SAMPLE CALCULATIONS - CONDUCTED EMISSIONS*

Receiver readings are compared directly to the conducted emissions specification limit (decibel form) as follows:

$$R_T - S = M$$

where:

$R_T$  = Receiver Reading in dBuV

$S$  = Specification Limit in dBuV

$M$  = Margin to Specification in +/- dB

*SAMPLE CALCULATIONS - RADIATED EMISSIONS*

Receiver readings are compared directly to the specification limit (decibel form). The receiver internally corrects for cable loss, preamplifier gain, and antenna factor. The calculations are in the reverse direction of the actual signal flow, thus cable loss is added and the amplifier gain is subtracted. The Antenna Factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

A distance factor, when used for electric field measurements above 30MHz, is calculated by using the following formula:

$$F_d = 20 * \log_{10} (D_m/D_s)$$

where:

$F_d$  = Distance Factor in dB

$D_m$  = Measurement Distance in meters

$D_s$  = Specification Distance in meters

For electric field measurements below 30MHz the extrapolation factor is either determined by making measurements at multiple distances or a theoretical value is calculated using the formula:

$$F_d = 40 * \log_{10} (D_m/D_s)$$

Measurement Distance is the distance at which the measurements were taken and Specification Distance is the distance at which the specification limits are based. The antenna factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

The margin of a given emission peak relative to the limit is calculated as follows:

$$R_C = R_R + F_d$$

and

$$M = R_C - L_S$$

where:

$R_R$  = Receiver Reading in dBuV/m

$F_d$  = Distance Factor in dB

$R_C$  = Corrected Reading in dBuV/m

$L_S$  = Specification Limit in dBuV/m

$M$  = Margin in dB Relative to Spec

#### SAMPLE CALCULATIONS - FIELD STRENGTH TO EIRP CONVERSION

Where the radiated electric field strength is expressed in terms of the equivalent isotropic radiated power (eirp), or where a field strength measurement of output power is made in lieu of a direct measurement, the following formula is used to convert between eirp and field strength at a distance of d (meters) from the equipment under test:

$$E = \frac{1000000 \sqrt{30 P}}{d} \quad \text{microvolts per meter}$$

where P is the eirp (Watts)

For a measurement at 3m the conversion from a logarithmic value for field strength (dBuV/m) to an eirp power (dBm) is -95.3dB.

**Appendix A Test Equipment Calibration Data****Radio Antenna Port (Power and Spurious Emissions), 05-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>             | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|--------------------------------|--------------|----------------|----------------|
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz | ESIB7        | 1538           | 12/14/2014     |

**Radiated Spurious Emissions, Bandedges, 2.4 GHz, 06-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                    | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|---------------------------------------|--------------|----------------|----------------|
| EMCO                | Antenna, Horn, 1-18 GHz<br>(SA40-Red) | 3115         | 1142           | 8/23/2014      |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz        | ESIB7        | 1538           | 12/14/2014     |

**Radiated Spurious Emissions, Bandedges, 2.4 GHz, 09-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                    | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|---------------------------------------|--------------|----------------|----------------|
| EMCO                | Antenna, Horn, 1-18 GHz<br>(SA40-Red) | 3115         | 1142           | 8/23/2014      |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz        | ESIB7        | 1538           | 12/14/2014     |

**Radiated Spurious Emissions, Bandedges, 2.4 GHz, 10-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                    | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|---------------------------------------|--------------|----------------|----------------|
| EMCO                | Antenna, Horn, 1-18 GHz<br>(SA40-Red) | 3115         | 1142           | 8/23/2014      |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz        | ESIB7        | 1538           | 12/14/2014     |

**Radiated Spurious Emissions, 1000 - 25,000 MHz, 11-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                       | <u>Model</u>   | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|------------------------------------------|----------------|----------------|----------------|
| EMCO                | Antenna, Horn, 1-18 GHz<br>(SA40-Red)    | 3115           | 1142           | 8/23/2014      |
| Hewlett Packard     | SpecAn 9 kHz - 40 GHz, FT<br>(SA40) Blue | 8564E (84125C) | 1393           | 5/6/2015       |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz           | ESIB7          | 1538           | 12/14/2014     |
| Hewlett Packard     | Microwave Preamplifier, 1-<br>26.5GHz    | 8449B          | 1780           | 11/26/2014     |
| Micro-Tronics       | Band Reject Filter, 2400-2500<br>MHz     | BRM50702-02    | 2249           | 10/3/2014      |

**Radiated Emissions, 1,000 - 6,500 MHz and 18,000 - 26,000MHz, 12-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                          | <u>Model</u>       | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|---------------------------------------------|--------------------|----------------|----------------|
| Hewlett Packard     | SpecAn 9 kHz - 40 GHz, FT<br>(SA40) Blue    | 8564E (84125C)     | 1393           | 5/6/2015       |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz              | ESIB7              | 1538           | 12/14/2014     |
| EMCO                | Antenna, Horn, 1-18 GHz                     | 3115               | 1561           | 7/12/2014      |
| Hewlett Packard     | Head (Inc flex cable,<br>(1742,1743) Blue)  | 84125C             | 1620           | 5/6/2015       |
| Hewlett Packard     | HF Amplifier, 45 MHz -50 GHz<br>(with 1620) | 83051A (84125C)    | 1742           | 5/6/2015       |
| Hewlett Packard     | HF Amplifier, 45 MHz -50 GHz<br>(with 1620) | 83051A (84125C)    | 1743           | 5/6/2015       |
| A. H. Systems       | Purple System Horn, 18-40GHz                | SAS-574, p/n: 2581 | 2160           | 6/28/2014      |

**Radiated Emissions, 1,000 - 26,000 MHz, 16-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                 | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|------------------------------------|--------------|----------------|----------------|
| Hewlett Packard     | SpecAn 9 KHz-26.5 GHz, Non-Program | 8563E        | 284            | 2/26/2015      |
| EMCO                | Antenna, Horn, 1-18 GHz            | 3115         | 786            | 12/20/2015     |
| Hewlett Packard     | Microwave Preamplifier, 1-26.5GHz  | 8449B        | 870            | 2/20/2015      |
| Micro-Tronics       | Band Reject Filter, 2400-2500 MHz  | BRM50702-02  | 1683           | 8/2/2014       |

**Radiated Emissions, 1,000 - 6,000 MHz, 16-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>             | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|--------------------------------|--------------|----------------|----------------|
| EMCO                | Antenna, Horn, 1-18 GHz        | 3115         | 786            | 12/20/2015     |
| Rohde & Schwarz     | EMI Test Receiver, 20 Hz-7 GHz | ESIB7        | 1538           | 12/14/2014     |

**Radiated Emissions, 1,000 - 18,000 MHz, 16-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                 | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|------------------------------------|--------------|----------------|----------------|
| Hewlett Packard     | SpecAn 9 KHz-26.5 GHz, Non-Program | 8563E        | 284            | 2/26/2015      |
| EMCO                | Antenna, Horn, 1-18 GHz            | 3115         | 786            | 12/20/2015     |
| Hewlett Packard     | Microwave Preamplifier, 1-26.5GHz  | 8449B        | 870            | 2/20/2015      |
| Micro-Tronics       | Band Reject Filter, 2400-2500 MHz  | BRM50702-02  | 1683           | 8/2/2014       |

**Radiated Emissions, 18,000 - 26,500 MHz, 17-Jun-14**

| <u>Manufacturer</u> | <u>Description</u>                       | <u>Model</u>       | <u>Asset #</u> | <u>Cal Due</u> |
|---------------------|------------------------------------------|--------------------|----------------|----------------|
| Hewlett Packard     | SpecAn 9 kHz - 40 GHz, FT (SA40) Blue    | 8564E (84125C)     | 1393           | 5/6/2015       |
| Hewlett Packard     | HF Amplifier, 45 MHz -50 GHz (with 1620) | 83051A (84125C)    | 1742           | 5/6/2015       |
| Hewlett Packard     | HF Amplifier, 45 MHz -50 GHz (with 1620) | 83051A (84125C)    | 1743           | 5/6/2015       |
| A. H. Systems       | Purple System Horn, 18-40GHz             | SAS-574, p/n: 2581 | 2160           | 6/28/2014      |

**Radio Antenna Port (Power and Spurious Emissions), 17-Jun-14**

| <u>Manufacturer</u>  | <u>Description</u>                                                        | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|----------------------|---------------------------------------------------------------------------|--------------|----------------|----------------|
| Agilent Technologies | PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX, | E4446A       | 2139           | 4/8/2015       |
| Agilent Technologies | USB Average Power Sensor                                                  | U2001A       | 2442           | 12/19/2014     |

**Radio Antenna Port (Power and Spurious Emissions), 18-Jun-14**

| <u>Manufacturer</u>  | <u>Description</u>                                                          | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|----------------------|-----------------------------------------------------------------------------|--------------|----------------|----------------|
| Rohde & Schwarz      | Power Meter, Single Channel                                                 | NRVS         | 1422           | 1/24/2015      |
| Rohde & Schwarz      | Power Sensor 100 uW - 2 Watts use with 20dB attenuator sn:1031.6959.00 only | NRV-Z32      | 1423           | 9/17/2014      |
| Agilent Technologies | PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX,   | E4446A       | 2139           | 4/8/2015       |

**Radio Antenna Port (Power and Spurious Emissions), 19-Jun-14**

| <u>Manufacturer</u>  | <u>Description</u>                                                                | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|----------------------|-----------------------------------------------------------------------------------|--------------|----------------|----------------|
| Rohde & Schwarz      | Power Sensor, 1 uW-100 mW,<br>DC-18 GHz, 50ohms                                   | NRV-Z51      | 1070           | 6/6/2015       |
| Rohde & Schwarz      | Power Meter, Dual Channel                                                         | NRVD         | 1071           | 3/24/2015      |
| Rohde & Schwarz      | Power Sensor 100 uW - 2 Watts<br>use with 20dB attenuator<br>sn:1031.6959.00 only | NRV-Z32      | 1423           | 9/17/2014      |
| Agilent Technologies | PSA, Spectrum Analyzer,<br>(installed options, 111, 115, 123,<br>1DS, B7J, HYX,   | E4446A       | 2139           | 4/8/2015       |

**Radio Antenna Port (Power and Spurious Emissions), 20-Jun-14**

| <u>Manufacturer</u>  | <u>Description</u>                                                                | <u>Model</u> | <u>Asset #</u> | <u>Cal Due</u> |
|----------------------|-----------------------------------------------------------------------------------|--------------|----------------|----------------|
| Rohde & Schwarz      | Power Meter, Dual Channel                                                         | NRVD         | 1071           | 3/24/2015      |
| Rohde & Schwarz      | Power Sensor 100 uW - 2 Watts<br>use with 20dB attenuator<br>sn:1031.6959.00 only | NRV-Z32      | 1423           | 9/17/2014      |
| Agilent Technologies | PSA, Spectrum Analyzer,<br>(installed options, 111, 115, 123,<br>1DS, B7J, HYX,   | E4446A       | 2139           | 4/8/2015       |

## *Appendix B Test Data*

T95471 Pages 25 – 166

T95472 Pages 167 - 209



## EMC Test Data

|                        |                                  |                      |                   |
|------------------------|----------------------------------|----------------------|-------------------|
| Client:                | Intel Corporation                | Job Number:          | J94914            |
| Product                | 7265D2W                          | T-Log Number:        | T95471            |
|                        |                                  | Project Manager:     | Christine Krebill |
| Contact:               | Steve Hackett                    | Project Coordinator: | -                 |
| Emissions Standard(s): | FCC Part 15.247, 15.407, RSS-210 | Class:               | B                 |
| Immunity Standard(s):  | -                                | Environment:         | Radio             |

## EMC Test Data

For The

**Intel Corporation**

Product

7265D2W

Date of Last Test: 7/10/2014

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Power vs. Data Rate

In normal operating modes the card uses power settings stored on EEPROM to set the output power. For a given nominal output power the actual transmit power normally is reduced as the data rate increases, therefore testing was performed at the data rate in the mode with highest power to determine compliance with the requirements.

The following power measurements were made using a GATED average power meter and with the device configured in a continuous transmit mode on Chain 1 at the various data rates in each mode to verify the highest power mode:

### Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

BT Address: 001500F15B61 DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Date of Test: 6/5/2014

Test Engineer: John Caizzi

Test Location: Lab 4

Insertion loss of cable = .4 dB at 2.4 GHz.

| Mode    | Data Rate | Power (dBm) | Power setting |
|---------|-----------|-------------|---------------|
| 802.11b | 1         | 9.7         | 7.0           |
|         | 2         | 9.6         |               |
|         | 5.5       | 9.5         |               |
|         | 11        | 9.4         |               |
| 802.11g | 6         | 4.6         | 7.0           |
|         | 9         | 4.5         |               |
|         | 12        | 4.5         |               |
|         | 18        | 4.4         |               |
|         | 24        | 4.3         |               |
|         | 36        | 4.3         |               |
|         | 48        | 4.2         |               |
|         | 54        | 4.2         |               |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

| Mode                | Data Rate | Power (dBm) | Power setting |
|---------------------|-----------|-------------|---------------|
| 802.11n<br>20MHz    | HT0       | 4.6         | 7.0           |
|                     | HT1       | 4.5         |               |
|                     | HT2       | 4.5         |               |
|                     | HT3       | 4.4         |               |
|                     | HT4       | 4.2         |               |
|                     | HT5       | 4.1         |               |
|                     | HT6       | 4.2         |               |
|                     | HT7       | 4.2         |               |
| 802.11n/ac<br>40MHz | HT0       | 4.4         | 7.0           |
|                     | HT1       | 4.3         |               |
|                     | HT2       | 4.2         |               |
|                     | HT3       | 4.1         |               |
|                     | HT4       | 4.0         |               |
|                     | HT5       | 3.9         |               |
|                     | HT6       | 3.9         |               |
|                     | HT7       | 3.9         |               |

Note : Power setting - the software power setting used during testing, included for reference only.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Duty Cycle

Date of Test: 6/5/14 & 6/12/14  
 Test Engineer: John Caizzi  
 Test Location: Lab 4 / Chamber 7

Duty cycle measurements performed on the worse case data rate for power.

Notes: Measurements taken with maximum RBW/VBW settings allowed.

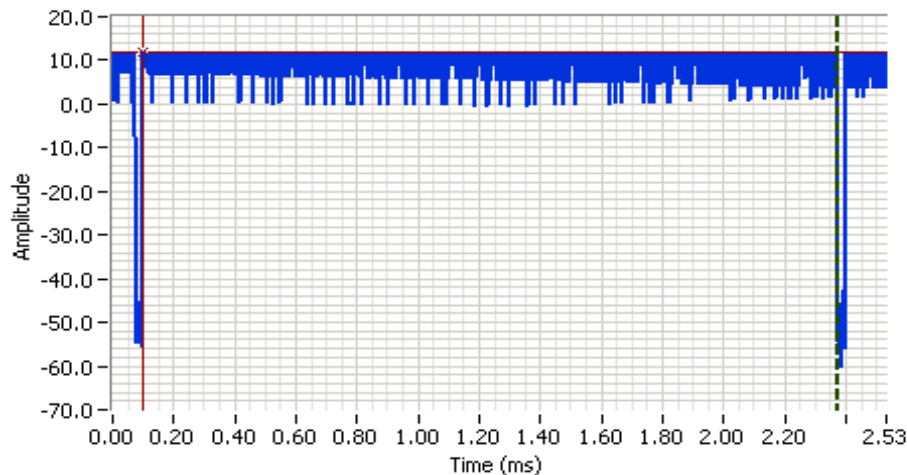
| Mode     | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|----------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b      | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g      | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20      | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40      | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |
| BT basic | -         | 0.77           | Yes          | 2.906  | 1.1             | 2.2                   | 344                 |
| BT EDR   | -         | 0.77           | Yes          | 2.885  | 1.1             | 2.3                   | 347                 |
| BTLE     | -         | 0.63           | Yes          | 0.391  | 2.0             | 3.9                   | 2558                |

\* Correction factor when using RMS/Power averaging -  $10 \cdot \log(1/x)$

\*\* Correction factor when using linear voltage average -  $20 \cdot \log(1/x)$

T = Minimum transmission duration

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



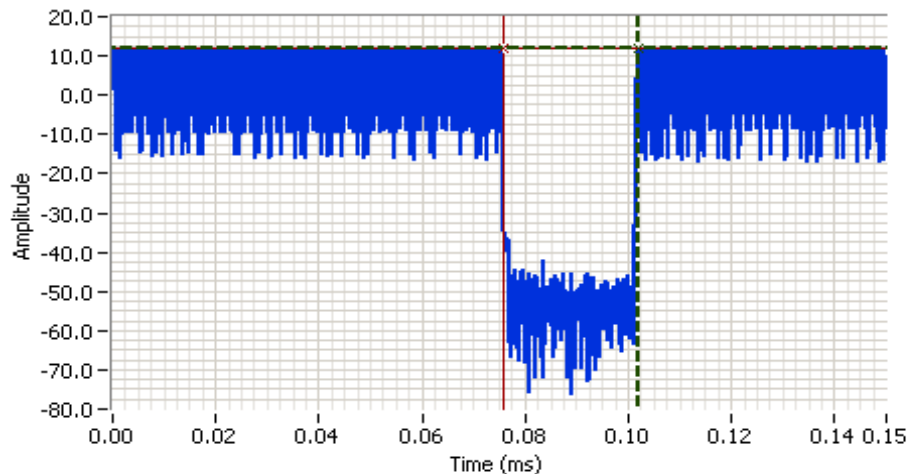
## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 2.5ms  
 Ref Lvl: 20.0 DBM

## Comments

11b, on time = 2.272 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 2.3738 | 21.28 |  | Delta Time (ms) | 2.272 |
| Cursor 2 | 0.1019 | 11.78 |  | Delta Amplitude | 9.50  |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 150.0us  
 Ref Lvl: 20.0 DBM

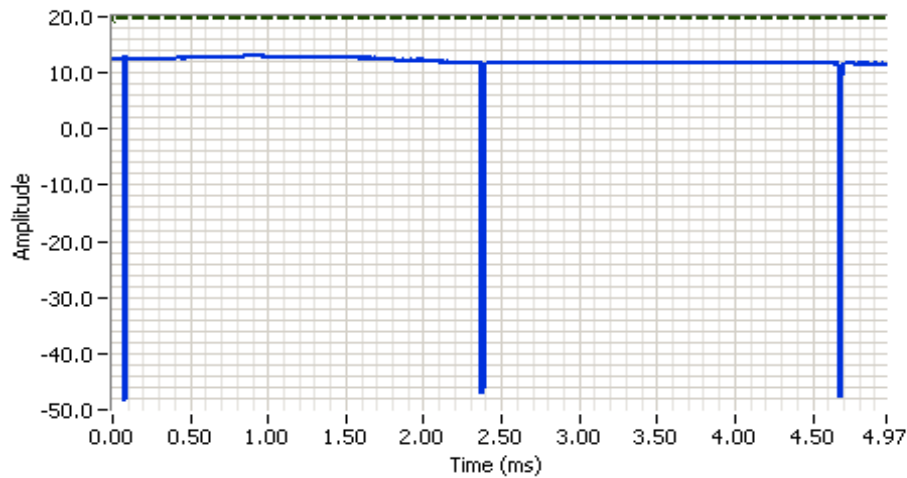
## Comments

11b, off time = .026 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 0.1020 | 12.08 |  | Delta Time (ms) | 0.026 |
| Cursor 2 | 0.0758 | 12.08 |  | Delta Amplitude | 0.00  |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

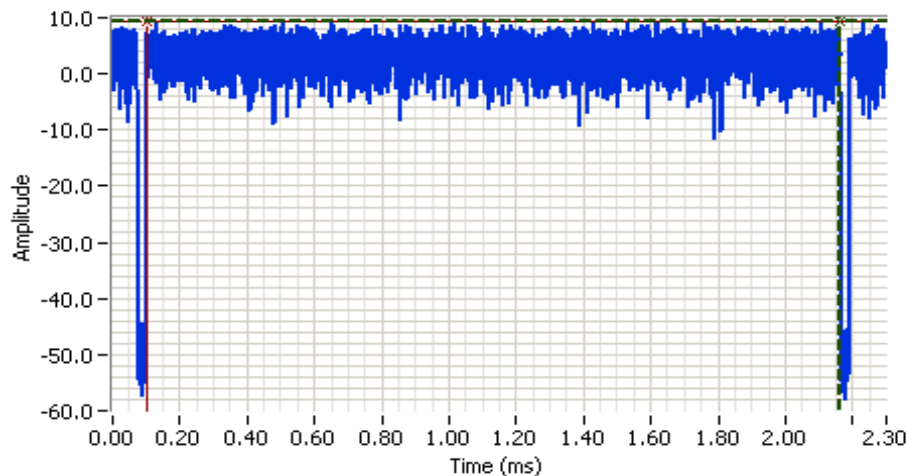
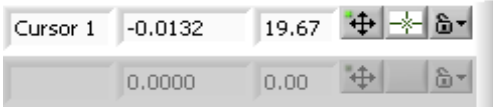


## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 5.1ms  
 Ref Lvl: 20.0 DBM

## Comments

11b, constant duty cycle



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 2.3ms  
 Ref Lvl: 20.0 DBM

## Comments

11g, on time = 2.060 ms

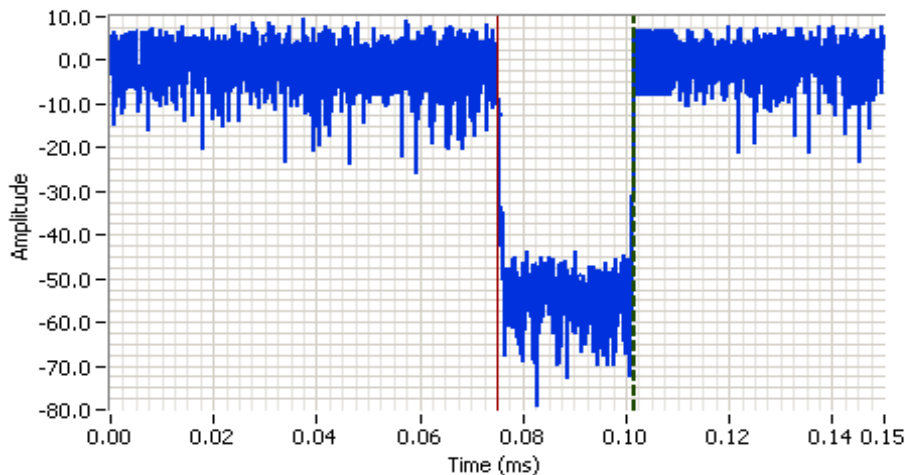


Delta Time (ms) 2.060

Delta Amplitude 0.00



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



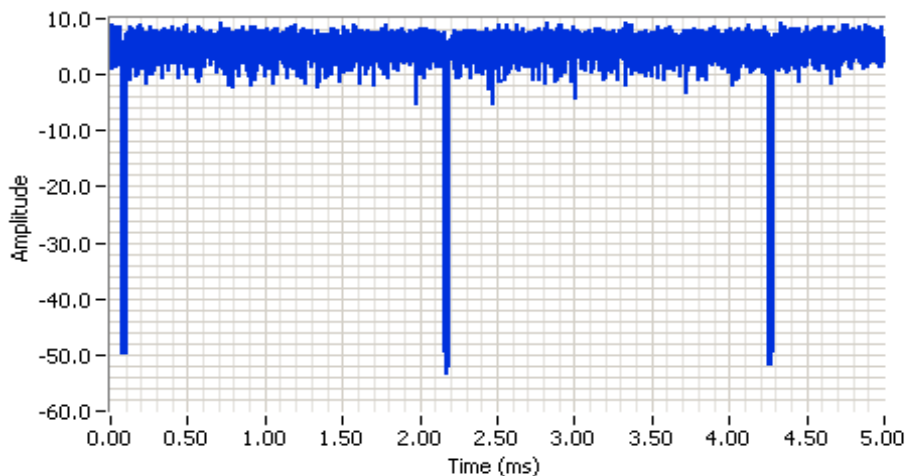
## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 150.0us  
 Ref Lvl: 20.0 DBM

## Comments

11g, off time = .027 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 0.1016 | 12.13 |  | Delta Time (ms) | 0.027 |
| Cursor 2 | 0.0750 | 12.13 |  | Delta Amplitude | 0.00  |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 5.0ms  
 Ref Lvl: 20.0 DBM

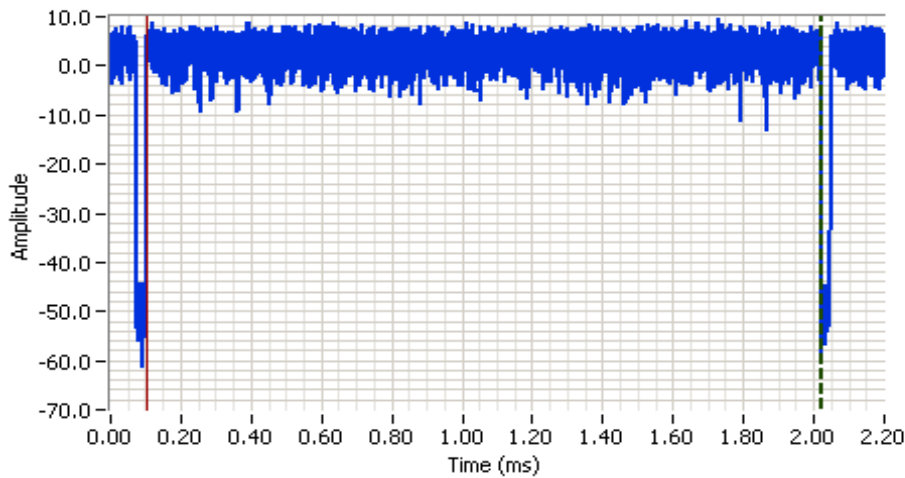
## Comments

11g, constant duty cycle

|          |         |       |  |                 |       |
|----------|---------|-------|--|-----------------|-------|
| Cursor 1 | -0.8073 | 13.32 |  | Delta Time (ms) | 0.234 |
| Cursor 2 | -0.5729 | 12.65 |  | Delta Amplitude | 0.66  |



|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



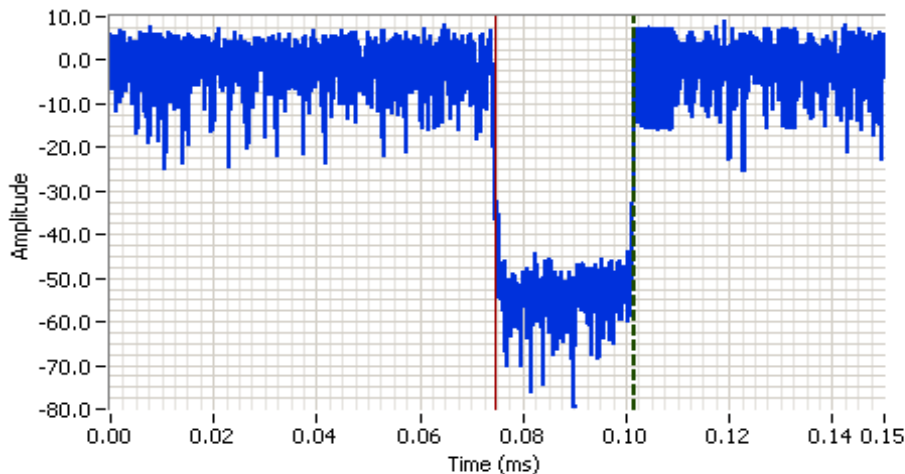
## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 2.2ms  
 Ref Lvl: 20.0 DBM

## Comments

n20, on time = 1.919 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 2.0224 | 12.27 |  | Delta Time (ms) | 1.919 |
| Cursor 2 | 0.1031 | 11.90 |  | Delta Amplitude | 0.38  |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 150.0us  
 Ref Lvl: 20.0 DBM

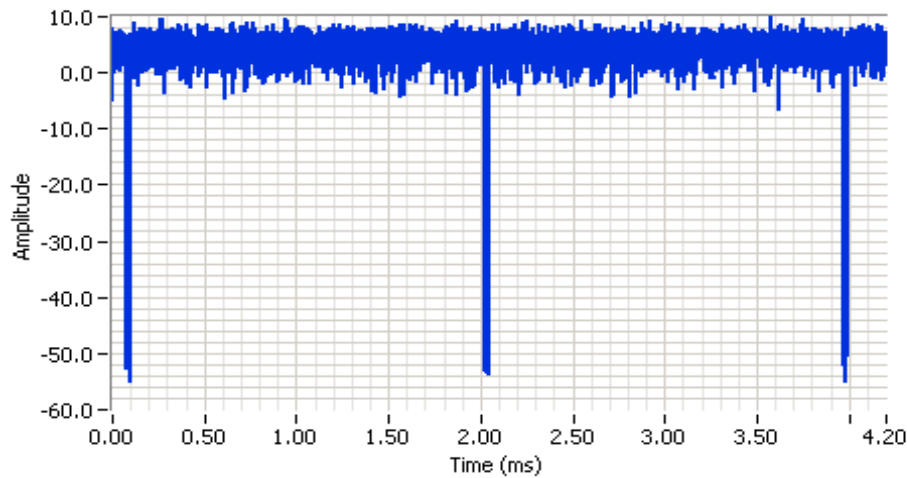
## Comments

n20, off time = .027 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 0.1016 | 12.13 |  | Delta Time (ms) | 0.027 |
| Cursor 2 | 0.0746 | 12.99 |  | Delta Amplitude | 0.85  |



|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



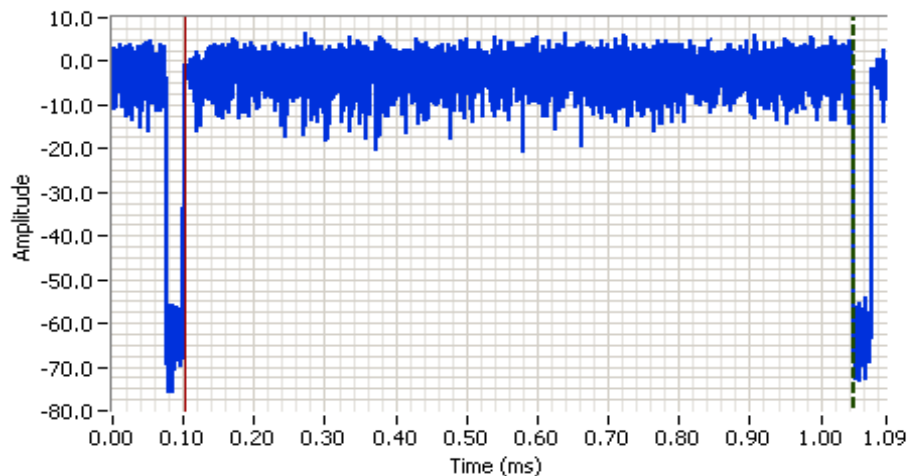
## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 30 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 4.2ms  
 Ref Lvl: 20.0 DBM

## Comments

n20, constant duty cycle

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 4.5172 | 14.31 |  | Delta Time (ms) | 0.142 |
| Cursor 2 | 4.3750 | 12.32 |  | Delta Amplitude | 1.99  |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 20 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 1.1ms  
 Ref Lvl: 10.0 DBM

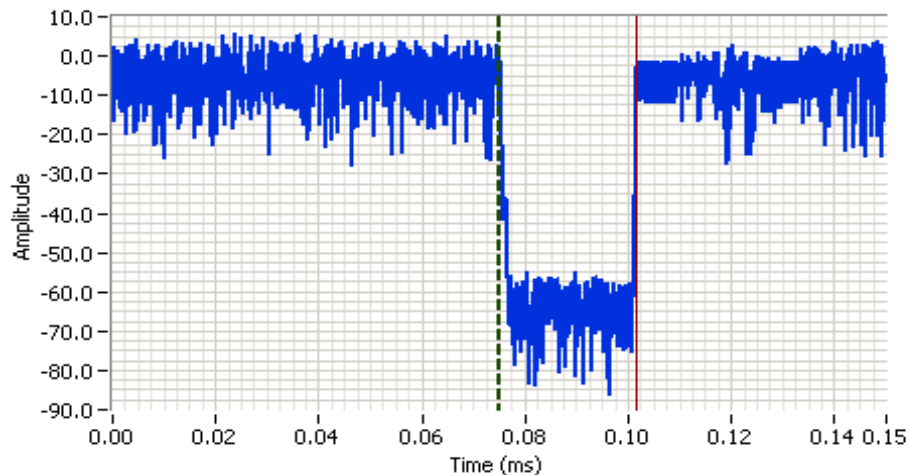
## Comments

n40, on time = .944 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 1.0466 | 12.99 |  | Delta Time (ms) | 0.944 |
| Cursor 2 | 0.1024 | 12.56 |  | Delta Amplitude | 0.43  |



|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



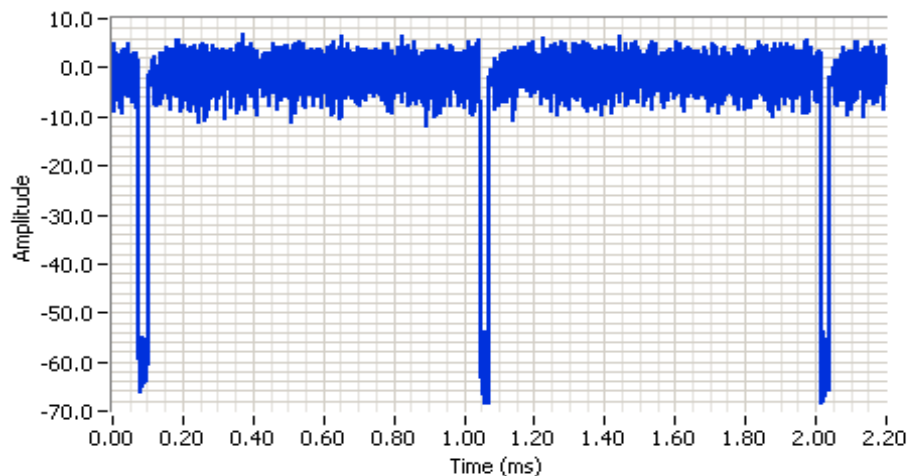
## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 20 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 150.0us  
 Ref Lvl: 10.0 DBM

## Comments

n40, off time = .027 ms

|          |        |       |  |                 |       |
|----------|--------|-------|--|-----------------|-------|
| Cursor 1 | 0.0750 | 11.42 |  | Delta Time (ms) | 0.027 |
| Cursor 2 | 0.1016 | 12.37 |  | Delta Amplitude | 0.95  |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2437.000 MHz  
 SPAN: 0.000 MHz  
 RB: 8.000 MHz  
 VB: 50.000 MHz  
 Detector: POS  
 Attn: 20 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 2.2ms  
 Ref Lvl: 10.0 DBM

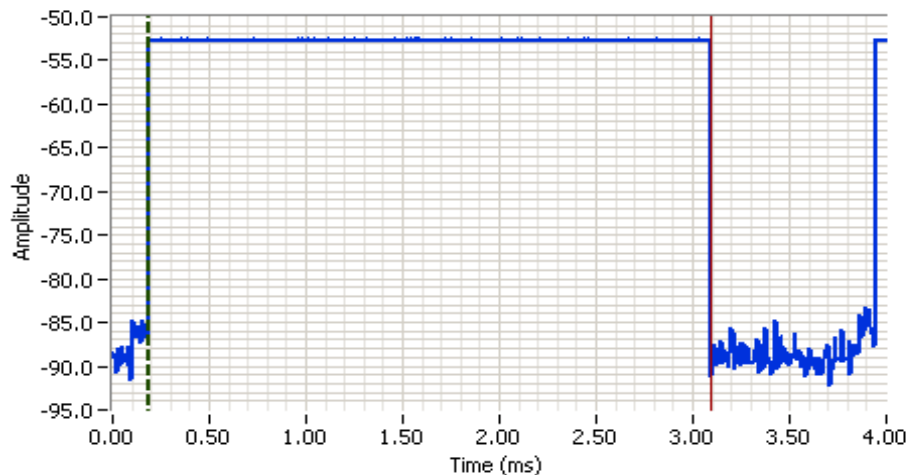
## Comments

n40, constant duty cycle

|          |         |       |  |                 |       |
|----------|---------|-------|--|-----------------|-------|
| Cursor 1 | -0.0802 | 13.79 |  | Delta Time (ms) | 0.017 |
| Cursor 2 | -0.0974 | 13.03 |  | Delta Amplitude | 0.76  |



|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



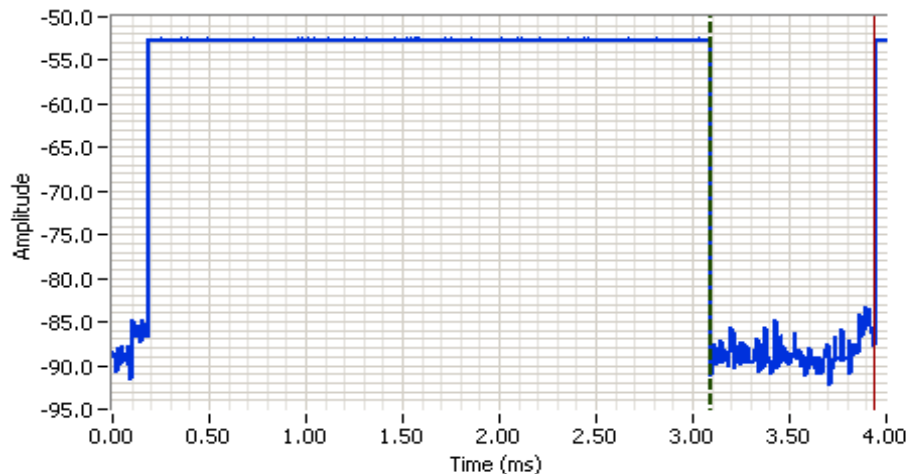
## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 4.0ms  
 Ref Lvl: -35.0 DBM

## Comments

BT basic DHS PRBS  
 On time = 2.906 ms

|          |        |        |  |                 |       |
|----------|--------|--------|--|-----------------|-------|
| Cursor 1 | 0.1875 | -48.29 |  | Delta Time (ms) | 2.906 |
| Cursor 2 | 3.0937 | -47.44 |  | Delta Amplitude | 0.85  |



## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 4.0ms  
 Ref Lvl: -35.0 DBM

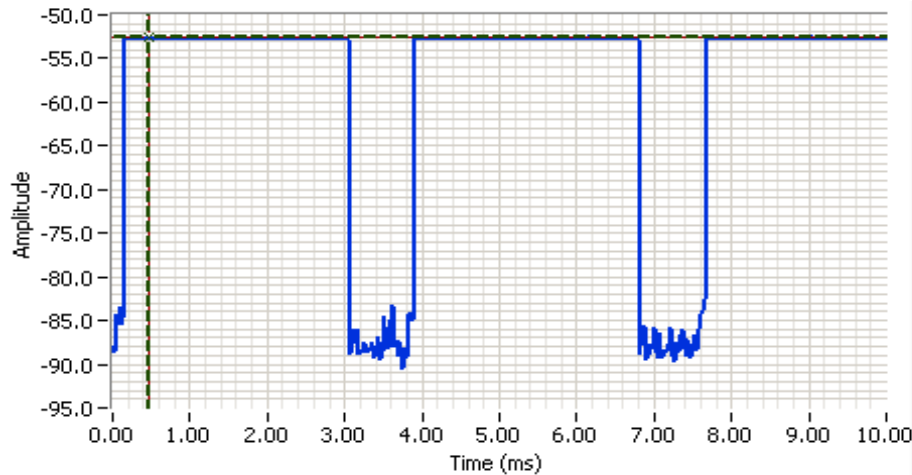
## Comments

BT basic DHS PRBS  
 Off time = .844 ms

|          |        |        |  |                 |       |
|----------|--------|--------|--|-----------------|-------|
| Cursor 1 | 3.0937 | -48.29 |  | Delta Time (ms) | 0.844 |
| Cursor 2 | 3.9375 | -47.44 |  | Delta Amplitude | 0.85  |



|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |



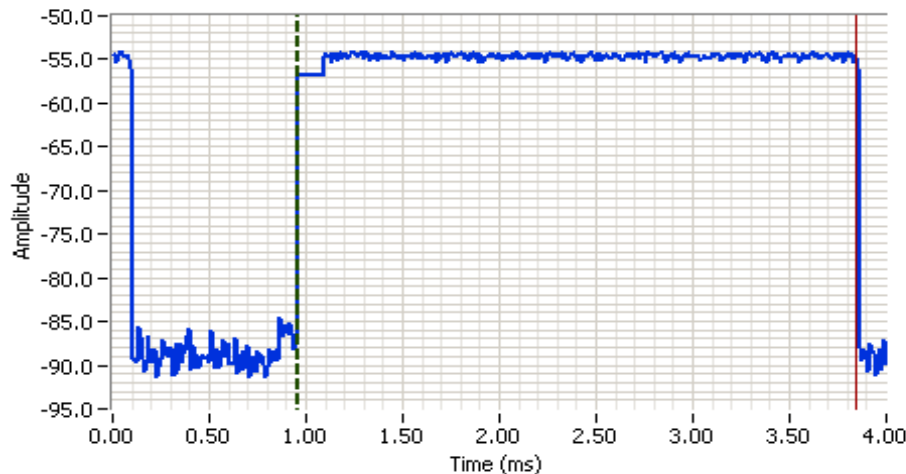
## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 10.0ms  
 Ref Lvl: -35.0 DBM

## Comments

BT basic DHS PRBS  
 constant duty cycle

Cursor 1 0.4810 -52.58  
 Cursor 2 0.4810 -52.58  
 Delta Time (ms) 0.000  
 Delta Amplitude 0.00



## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 4.0ms  
 Ref Lvl: -35.0 DBM

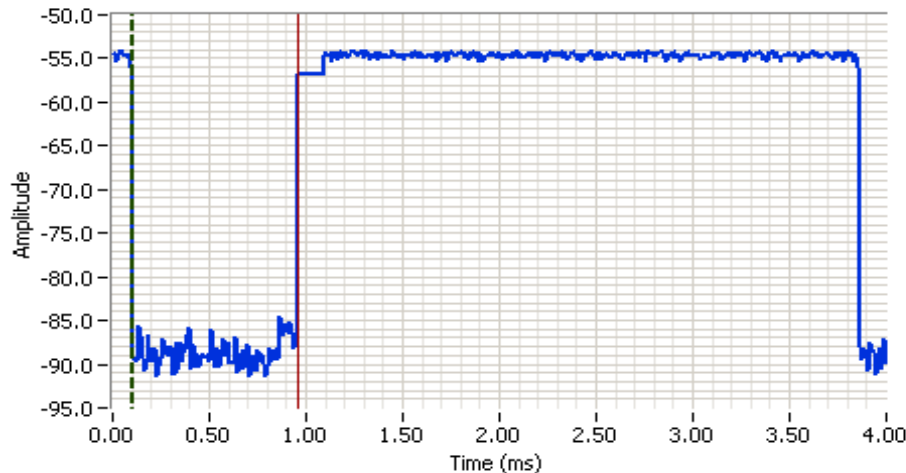
## Comments

BT EDR 3-DHS PRBS  
 On time = 2.885 ms

Cursor 1 0.9583 -46.59  
 Cursor 2 3.8437 -48.29  
 Delta Time (ms) 2.885  
 Delta Amplitude 1.71



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



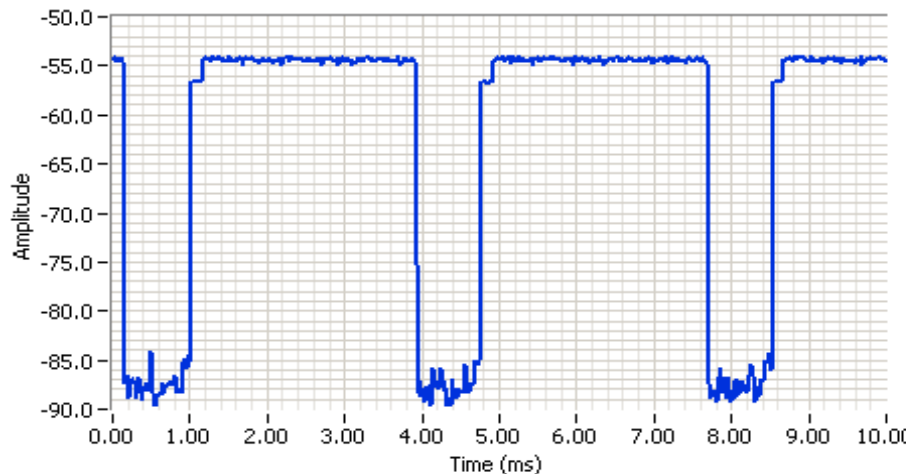
## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 4.0ms  
 Ref Lvl: -35.0 DBM

## Comments

BT EDR 3-DHS PRBS  
 Off time = .854 ms

|          |        |        |  |                 |       |
|----------|--------|--------|--|-----------------|-------|
| Cursor 1 | 0.1042 | -46.59 |  | Delta Time (ms) | 0.854 |
| Cursor 2 | 0.9583 | -48.29 |  | Delta Amplitude | 1.71  |



## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2441.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 10.0ms  
 Ref Lvl: -35.0 DBM

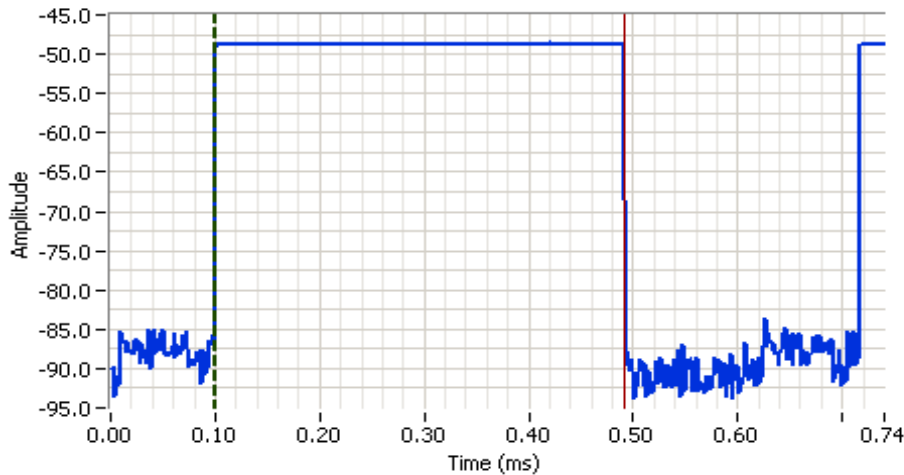
## Comments

BT EDR 3-DHS PRBS  
 constant duty cycle

|          |         |        |  |                 |       |
|----------|---------|--------|--|-----------------|-------|
| Cursor 1 | 11.0156 | -48.29 |  | Delta Time (ms) | 0.703 |
| Cursor 2 | 10.3125 | -48.10 |  | Delta Amplitude | 0.19  |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



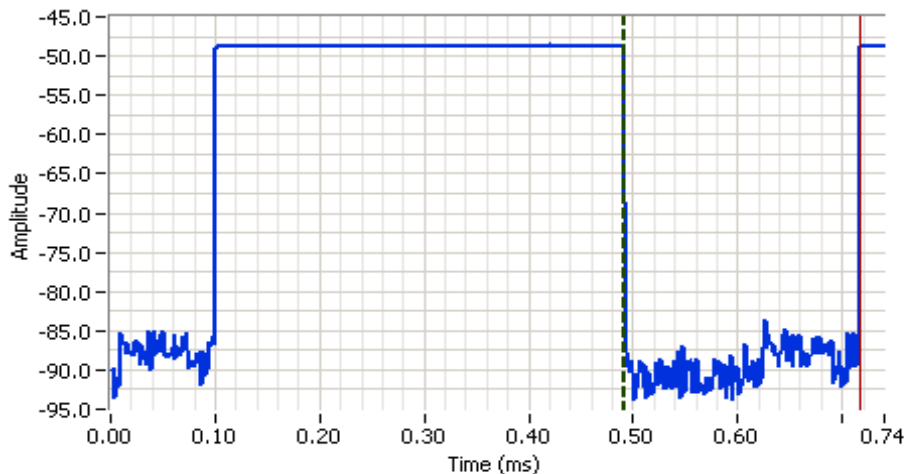
## Analyzer Settings

Rohde&Schwarz,ESI  
 CF: 2442.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 0.7ms  
 Ref Lvl: -35.0 DBM

## Comments

BTLE  
 On time = .391 ms

Cursor 1 0.1002 -42.16  
 Cursor 2 0.4914 -43.10  
 Delta Time (ms) 0.391  
 Delta Amplitude 0.95



## Analyzer Settings

Rohde&Schwarz,ESI  
 CF: 2442.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 0.7ms  
 Ref Lvl: -35.0 DBM

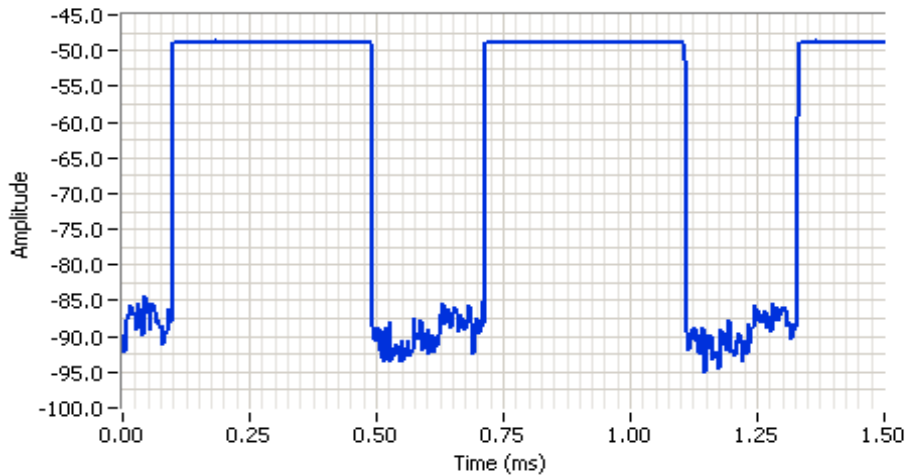
## Comments

BTLE  
 Off time = .225 ms

Cursor 1 0.4914 -42.16  
 Cursor 2 0.7169 -43.10  
 Delta Time (ms) 0.225  
 Delta Amplitude 0.95



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



## Analyzer Settings

Rohde&Schwarz, ESI  
 CF: 2442.000 MHz  
 SPAN: 0.000 MHz  
 RB: 10.000 MHz  
 VB: 10.000 MHz  
 Detector: POS  
 Attn: 0 DB  
 RL Offset: 0.0 DB  
 Sweep Time: 1.5ms  
 Ref Lvl: -35.0 DBM

## Comments

BTLE, constant duty cycle

|          |         |        |                                                                                     |                                                                                     |                                                                                     |
|----------|---------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cursor 1 | -0.1429 | -40.31 |  |  |  |
| Cursor 2 | -0.2103 | -42.91 |  |  |  |

Delta Time (ms) 0.067

Delta Amplitude 2.61

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Antenna Port Measurements Power, PSD, Bandwidth and Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/18/2014  
 Test Engineer: John Caizzi / Jack Liu  
 Test Location: Lab 4A

Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3Vdc

### General Test Configuration

The EUT was connected to the spectrum analyzer or power meter via a suitable attenuator. All measurements were made on a single chain.

All measurements have been corrected to allow for the external attenuators used.

Ambient Conditions:                      Temperature:      18-20 °C  
                                                          Rel. Humidity:      30-35 %

### Summary of Results

| Run # | Pwr setting | Avg Pwr | Test Performed               | Limit     | Pass / Fail | Result / Margin                                                                  |
|-------|-------------|---------|------------------------------|-----------|-------------|----------------------------------------------------------------------------------|
| 1     |             |         | Output Power                 | 15.247(b) | Pass        | b mode: 18.2 dBm<br>g mode: 20.4 dBm<br>n20 mode: 21.2 dBm<br>n40 mode: 20.6 dBm |
| 2     |             |         | Power spectral Density (PSD) | 15.247(d) | Pass        | 1.1 dBm/10kHz                                                                    |
| 3     |             |         | Minimum 6dB Bandwidth        | 15.247(a) | Pass        | 10.043 MHz                                                                       |
| 3     |             |         | 99% Bandwidth                | RSS GEN   | -           | 36.16 MHz                                                                        |
| 4     |             |         | Spurious emissions           | 15.247(b) | Pass        | All emissions < -20 dBc                                                          |

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.

### Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b  | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g  | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

# EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Output Power

Mode: 11b

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |      | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW   |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 14.5                       | 2412            | 17.6               | 57.5 | 3.2                | Pass   | 20.8 | 0.120 | 16.8               | 47.9 |
| 15.0                       | 2442            | 18.2               | 66.1 | 3.2                | Pass   | 21.4 | 0.138 | 17.3               | 53.7 |
| 14.0                       | 2462            | 17.5               | 56.2 | 3.2                | Pass   | 20.7 | 0.117 | 16.7               | 46.8 |

Mode: 11g

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |       | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|-------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW    |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 17.0                       | 2412            | 17.1               | 51.3  | 3.2                | Pass   | 20.3 | 0.107 | 14.2               | 26.3 |
| 21.0                       | 2442            | 20.4               | 109.6 | 3.2                | Pass   | 23.6 | 0.229 | 17.5               | 56.2 |
| 15.0                       | 2462            | 15.5               | 35.5  | 3.2                | Pass   | 18.7 | 0.074 | 12.8               | 19.1 |

Mode: n20

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |       | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|-------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW    |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 17.0                       | 2412            | 17.1               | 51.3  | 3.2                | Pass   | 20.3 | 0.107 | 14.1               | 25.7 |
| 22.0                       | 2442            | 21.2               | 131.8 | 3.2                | Pass   | 24.4 | 0.275 | 17.7               | 58.9 |
| 15.0                       | 2462            | 15.5               | 35.5  | 3.2                | Pass   | 18.7 | 0.074 | 12.6               | 18.2 |

Mode: n40

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |       | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|-------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW    |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 16.5                       | 2422            | 15.6               | 36.3  | 3.2                | Pass   | 18.8 | 0.076 | 13.5               | 22.4 |
| 21.0                       | 2437            | 20.6               | 114.8 | 3.2                | Pass   | 23.8 | 0.240 | 16.7               | 46.8 |
| 15.5                       | 2452            | 14.9               | 30.9  | 3.2                | Pass   | 18.1 | 0.065 | 12.8               | 19.1 |

Note 1: Output power measured using a peak power meter, spurious limit is -20dBc.

Note 2: Power setting - the software power setting used during testing, included for reference only.

Note 3: Power measured using average power meter (non-gated) and is included for reference only.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Power spectral Density

Mode: 11b

| Power Setting | Frequency (MHz) | PSD<br>(dBm/10kHz) <sup>Note 1</sup> | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|--------------------------------------|-------------------|--------|
| 14.5          | 2412            | 0.5                                  | 8.0               | Pass   |
| 15.0          | 2442            | 1.1                                  | 8.0               | Pass   |
| 14.0          | 2462            | 0.2                                  | 8.0               | Pass   |

Mode: 11g

| Power Setting | Frequency (MHz) | PSD<br>(dBm/10kHz) <sup>Note 1</sup> | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|--------------------------------------|-------------------|--------|
| 17.0          | 2412            | -5.3                                 | 8.0               | Pass   |
| 21.0          | 2442            | -2.4                                 | 8.0               | Pass   |
| 15.0          | 2462            | -8.5                                 | 8.0               | Pass   |

Mode: n20

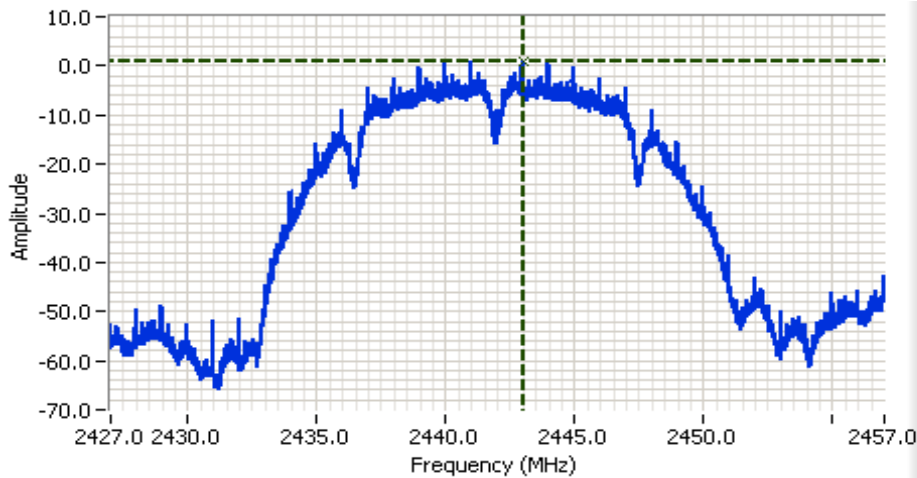
| Power Setting | Frequency (MHz) | PSD<br>(dBm/10kHz) <sup>Note 1</sup> | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|--------------------------------------|-------------------|--------|
| 17.0          | 2412            | -5.2                                 | 8.0               | Pass   |
| 23.0          | 2442            | -1.0                                 | 8.0               | Pass   |
| 15.0          | 2462            | -8.1                                 | 8.0               | Pass   |

Mode: n40

| Power Setting | Frequency (MHz) | PSD<br>(dBm/10kHz) <sup>Note 1</sup> | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|--------------------------------------|-------------------|--------|
| 16.5          | 2422            | -10.0                                | 8.0               | Pass   |
| 23.0          | 2437            | -4.0                                 | 8.0               | Pass   |
| 15.5          | 2452            | -9.7                                 | 8.0               | Pass   |

Note 1: Test performed per method PKSPD, in KDB 558074. Power spectral density measured using:  $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ ,  $\text{VBW}=3*\text{RBW}$ , peak detector, span =  $1.5*\text{DTS BW}$ , auto sweep time, max hold.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

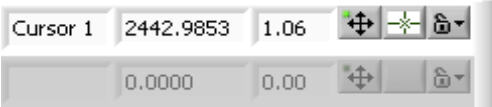


## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2442.000 MHz  
 SPAN: 30.000 MHz  
 RB: 10.0 kHz  
 VB: 30.0 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 286.9ms  
 Ref Lvl: 10.0 DBM

## Comments

11b chain A  
 PSD = 1.06 dBm/10 kHz



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3: Signal Bandwidth

Mode: 11b

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (kHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 15.0          | 2442            | 10.043          | 12.43 | 100               | 300 |

Mode: 11g

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 20.5          | 2442            | 15.135          | 16.81 | 100               | 300 |

Mode: n20

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 21.0          | 2442            | 15.125          | 18.17 | 100               | 300 |

Mode: n40

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 17.5          | 2442            | 35.132          | 36.16 | 100               | 470 |

Note 1: DTS BW: RBW=100kHz, VBW  $\geq 3 \times$  RBW, peak detector, max hold, auto sweep time.  
 99% BW: RBW=1-5% of 99%BW, VBW  $\geq 3 \times$  RBW, peak detector, max hold, auto sweep time.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4a: Out of Band Spurious Emissions

Date of Test: 6/17/2014

Test Engineer: Jack Liu

Test Location: FT Lab# 4A

Config. Used: 1

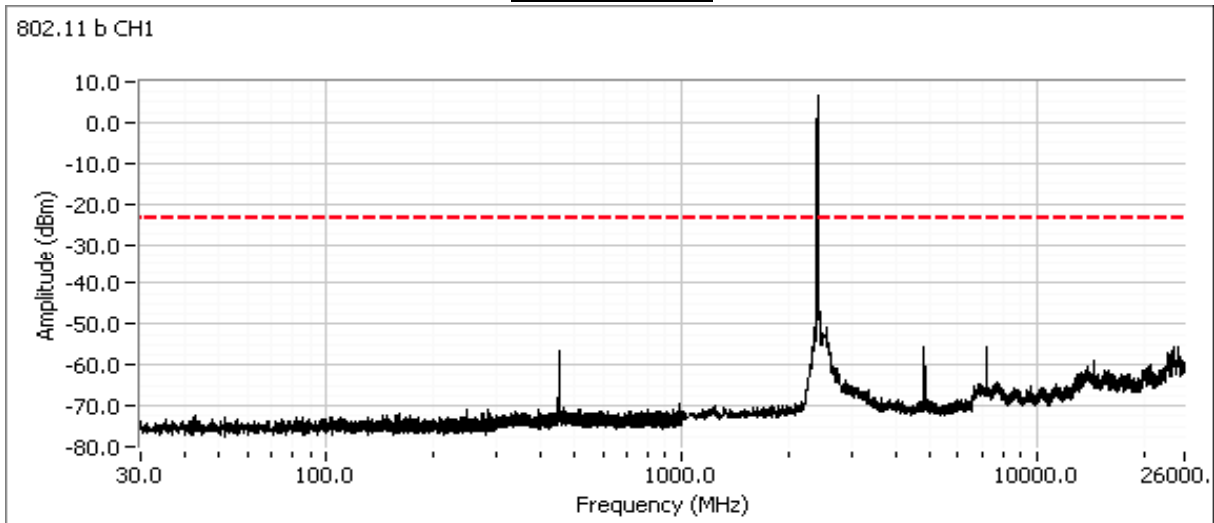
Config Change: None

EUT Voltage: 3.3Vdc

Mode: 802.11b

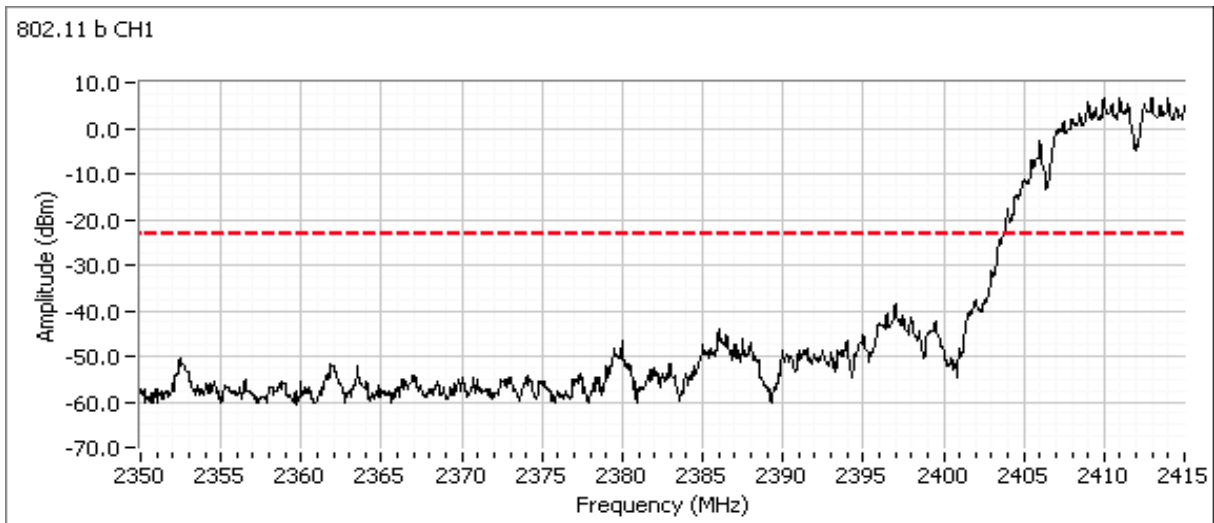
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 14.5          | b    | -30dBc | Pass   |
| 2442            | 15.0          | b    | -30dBc | Pass   |
| 2462            | 14.0          | b    | -30dBc | Pass   |

Plots for low channel

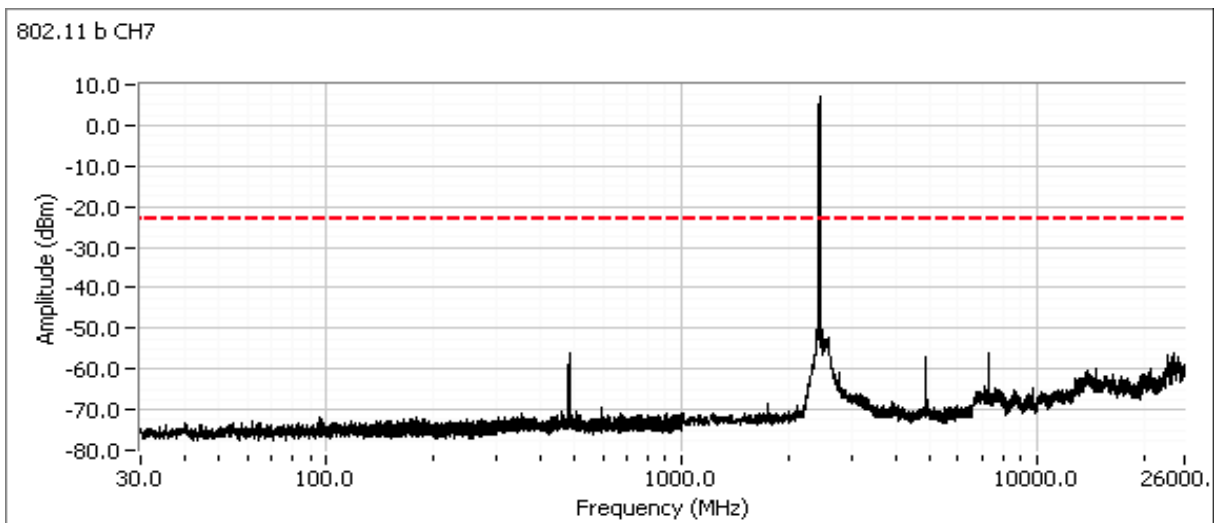


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -30dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

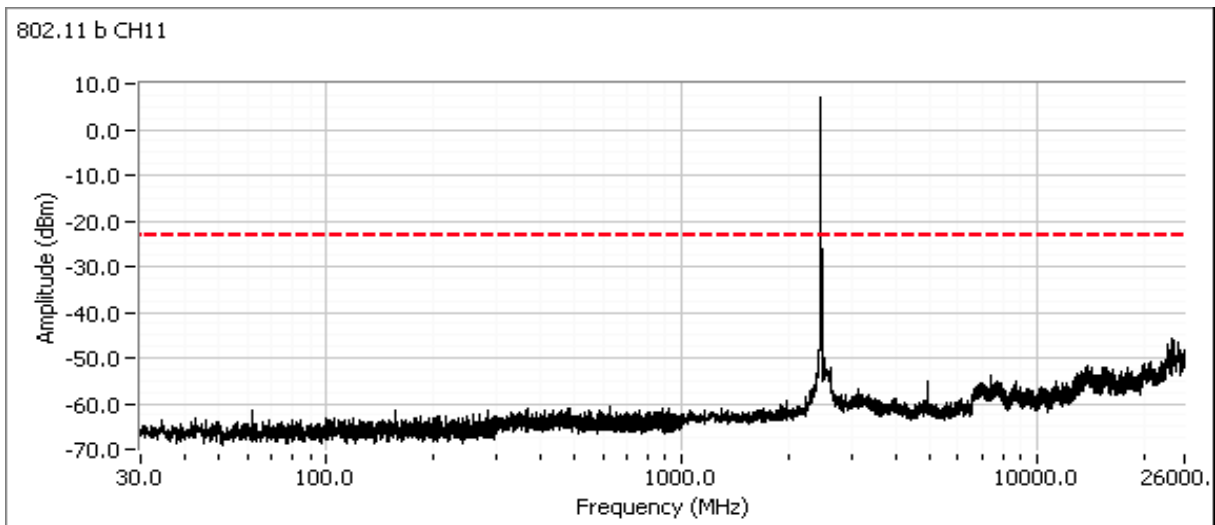


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4b: Out of Band Spurious Emissions

Date of Test: 6/17/2014

Test Engineer: Jack Liu, M. Birgani

Test Location: FT Lab# 4A

Config. Used: 1

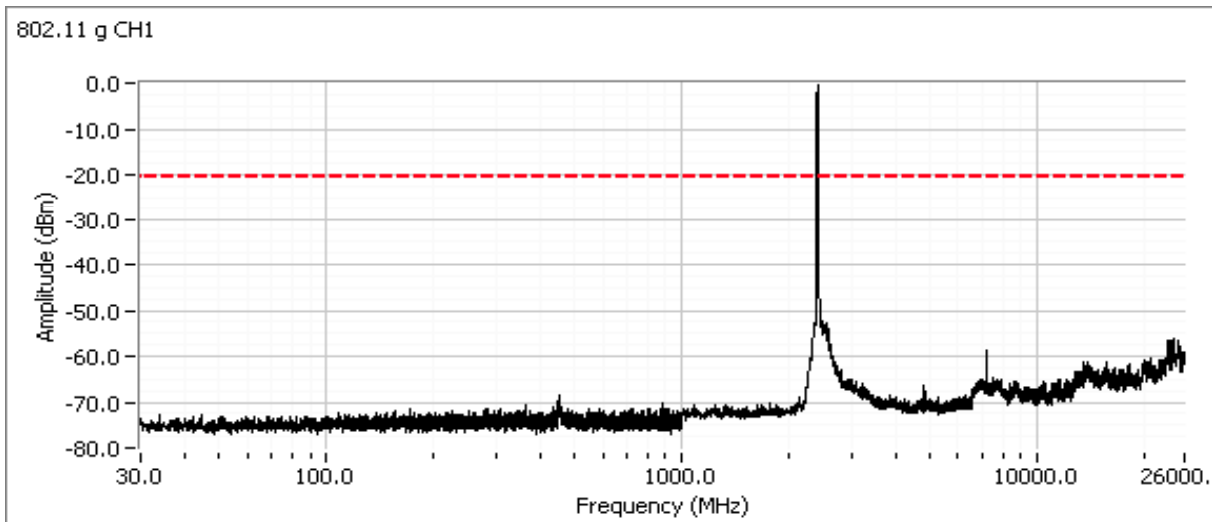
Config Change: None

EUT Voltage: 3.3Vdc

Mode: 802.11g

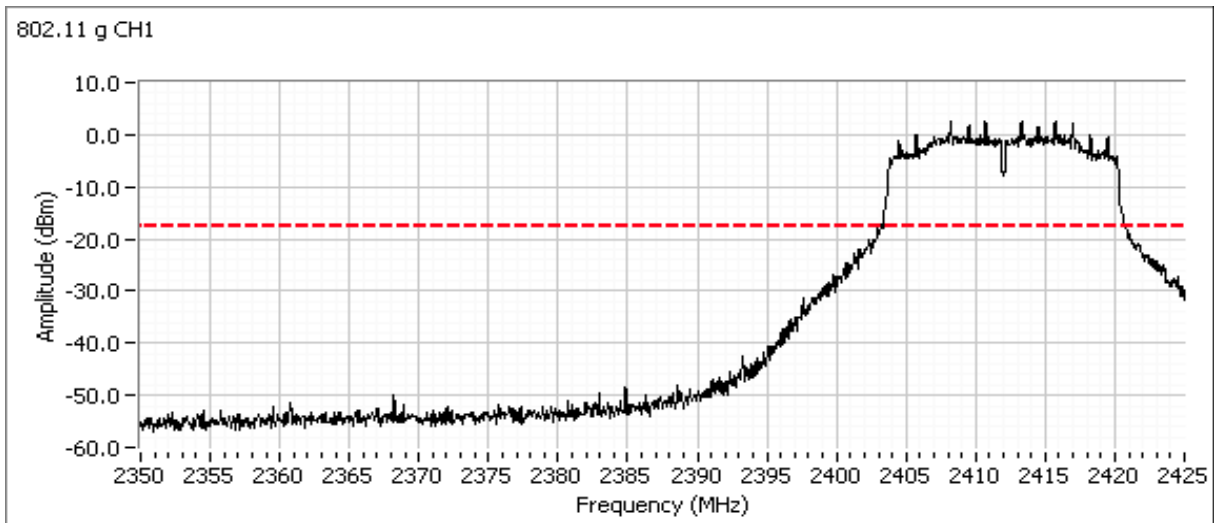
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 17.0          | g    | -20dBc | Pass   |
| 2442            | 21.0          | g    | -20dBc | Pass   |
| 2462            | 15.0          | g    | -20dBc | Pass   |

### Plots for low channel

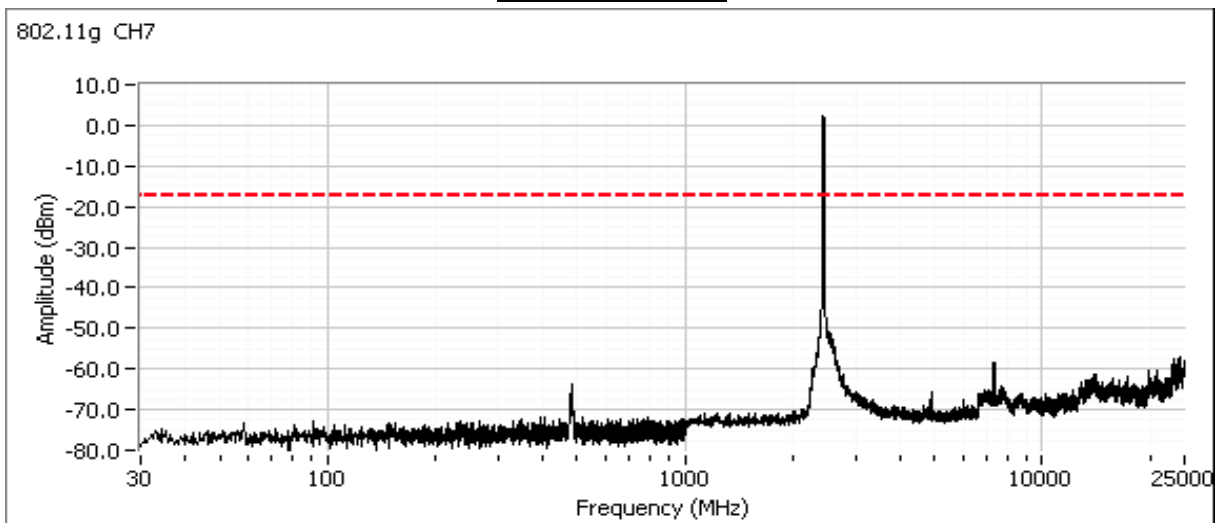


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

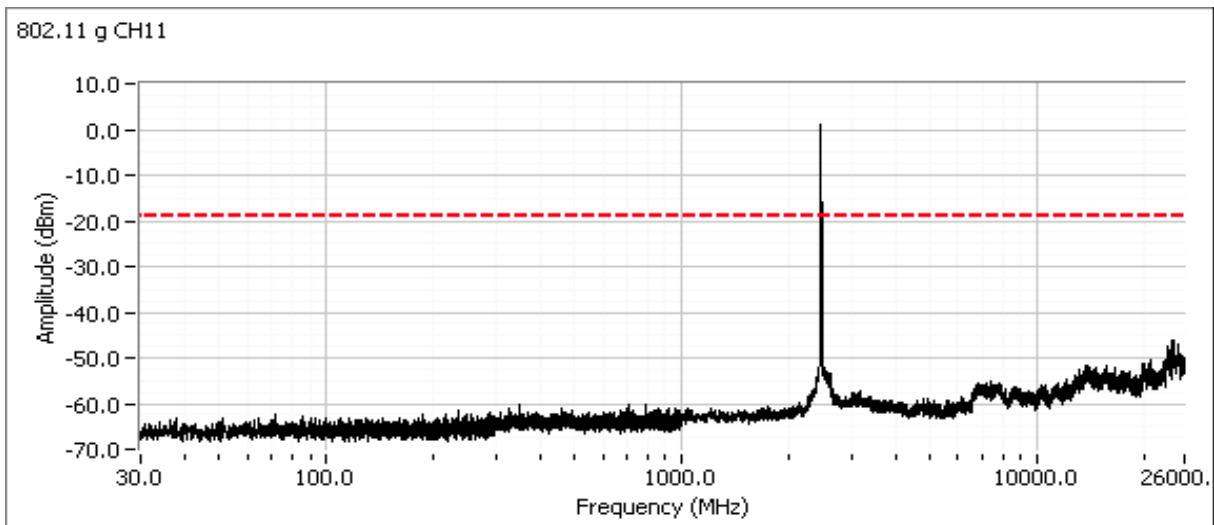


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4c: Out of Band Spurious Emissions

Date of Test: 6/17/2014

Test Engineer: M. Birgani

Test Location: FT Lab# 4A

Config. Used: 1

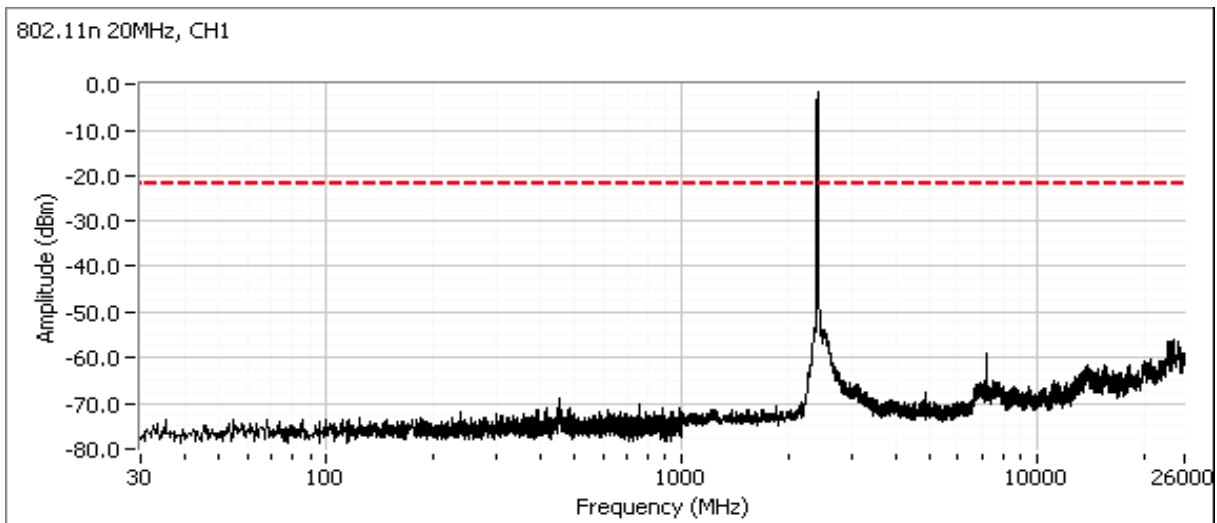
Config Change: None

EUT Voltage: 3.3Vdc

Mode: 802.11n20

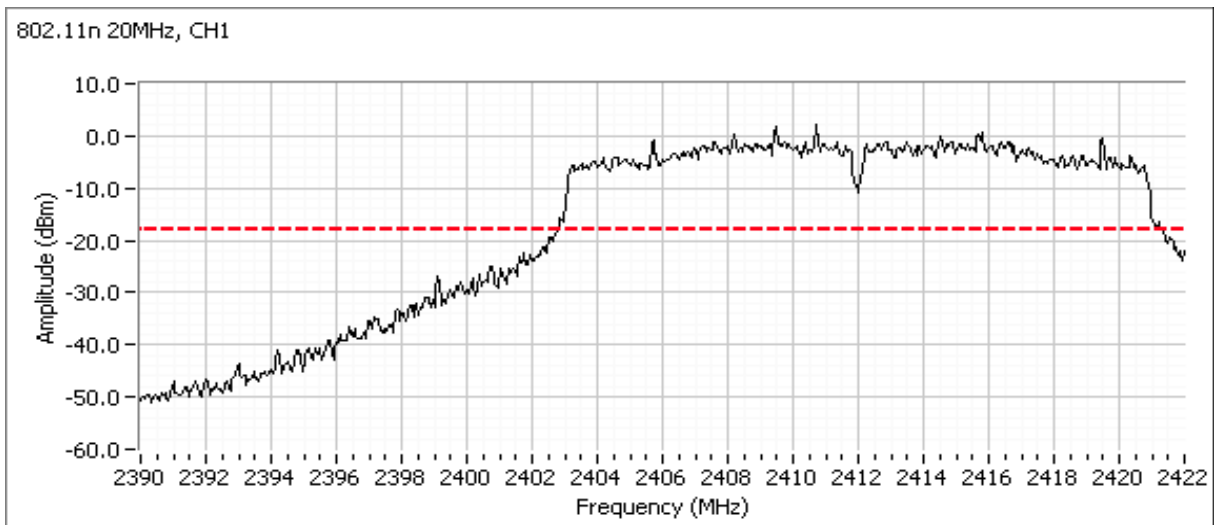
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 17.0          | n20  | -20dBc | Pass   |
| 2442            | 23.0          | n20  | -20dBc | Pass   |
| 2462            | 15.0          | n20  | -20dBc | Pass   |

### Plots for low channel

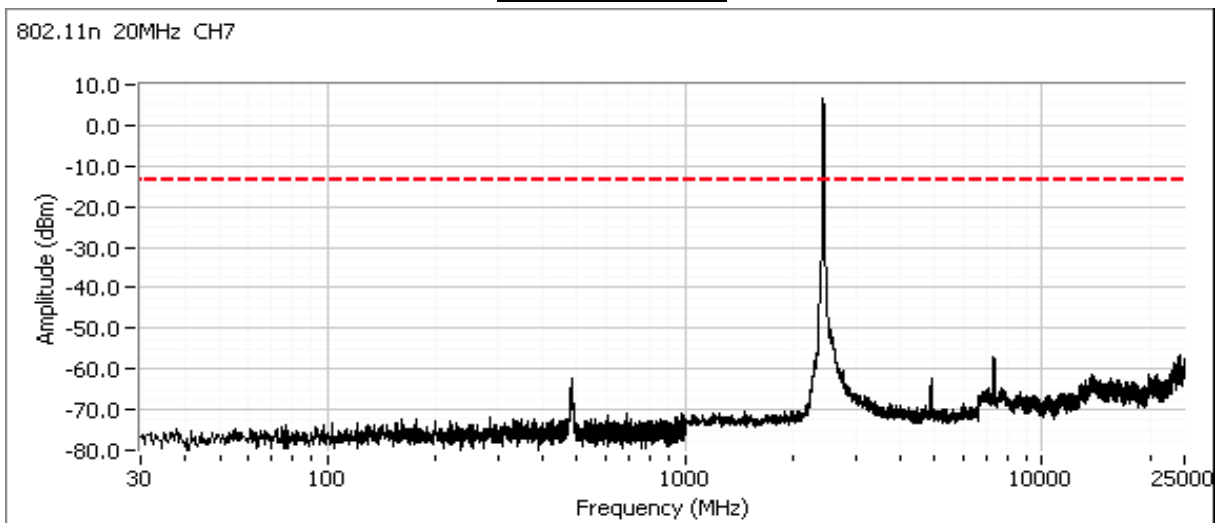


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

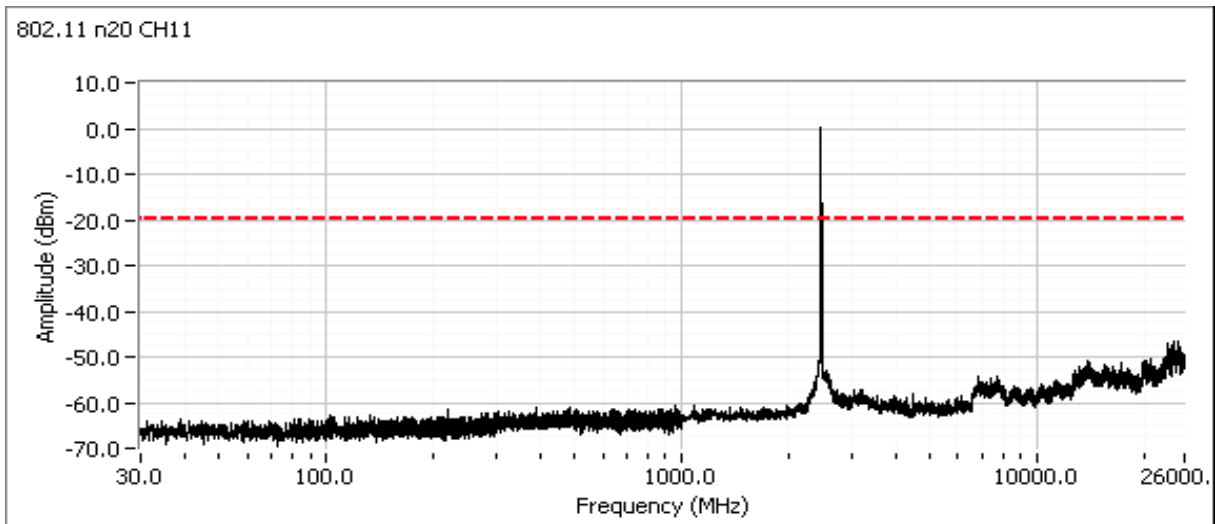


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4d: Out of Band Spurious Emissions

Date of Test: 6/17/2014

Test Engineer: M. Birgani

Test Location: FT Lab# 4A

Config. Used: 1

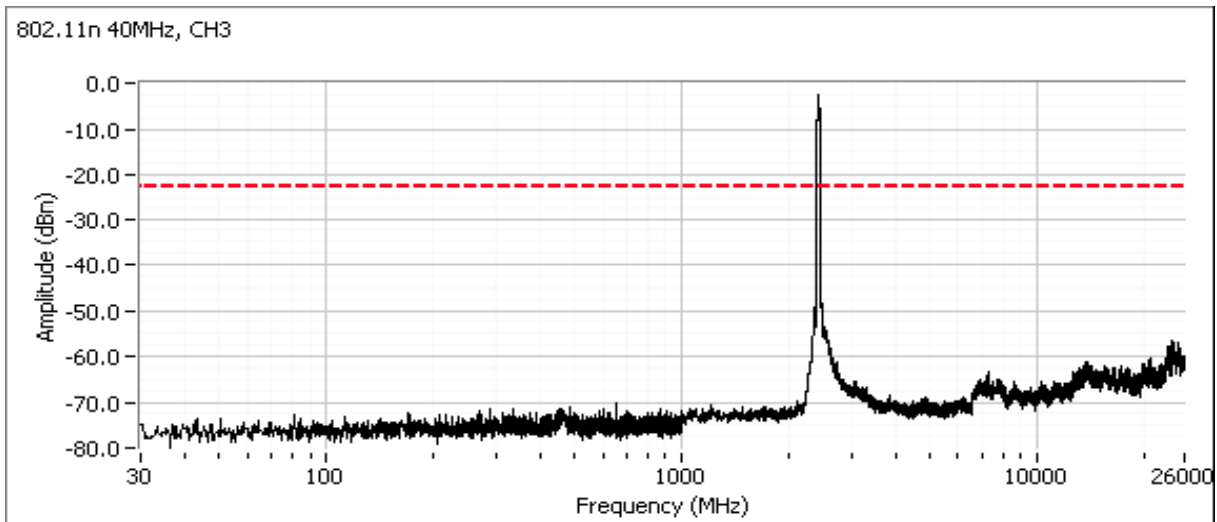
Config Change: None

EUT Voltage: 3.3Vdc

Mode: 802.11n40

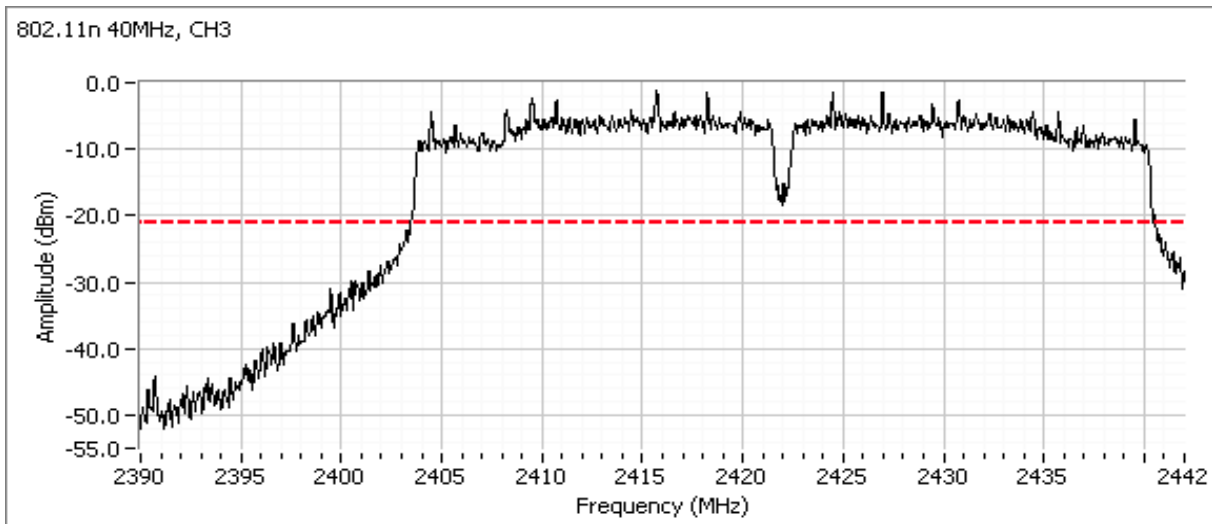
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2422            | 16.5          | n40  | -20dBc | Pass   |
| 2437            | 23.0          | n40  | -20dBc | Pass   |
| 2452            | 15.5          | n40  | -20dBc | Pass   |

### Plots for low channel

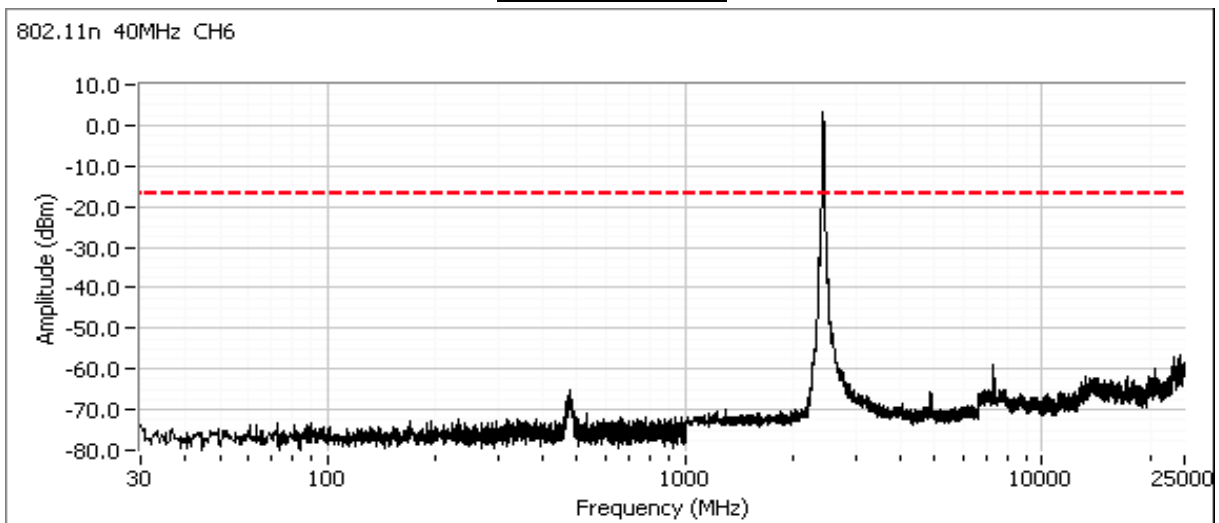


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -30dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

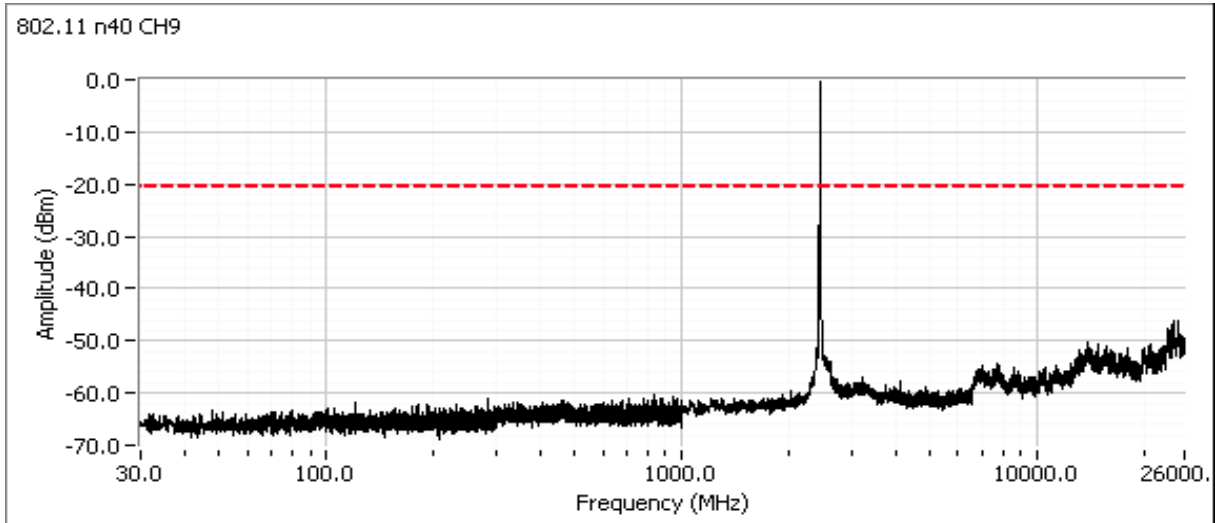


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Antenna Port Measurements Power, PSD, Bandwidth and Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/18/2014  
 Test Engineer: John Caizzi / Jack Liu  
 Test Location: Lab 4A

Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3Vdc

### General Test Configuration

The EUT was connected to the spectrum analyzer or power meter via a suitable attenuator. All measurements were made on a single chain.

All measurements have been corrected to allow for the external attenuators used.

### Ambient Conditions:

Temperature: 24 °C  
 Rel. Humidity: 38 %

### Summary of Results

| Run # | Pwr setting | Avg Pwr | Test Performed               | Limit     | Pass / Fail | Result / Margin                                                                  |
|-------|-------------|---------|------------------------------|-----------|-------------|----------------------------------------------------------------------------------|
| 1     |             |         | Output Power                 | 15.247(b) | Pass        | b mode: 18.3 dBm<br>g mode: 20.2 dBm<br>n20 mode: 20.8 dBm<br>n40 mode: 19.7 dBm |
| 2     |             |         | Power spectral Density (PSD) | 15.247(d) | Pass        | 1.3 dBm/10kHz                                                                    |
| 3     |             |         | Minimum 6dB Bandwidth        | 15.247(a) | Pass        | 10.043 MHz                                                                       |
| 3     |             |         | 99% Bandwidth                | RSS GEN   | -           | 36.33 MHz                                                                        |
| 4     |             |         | Spurious emissions           | 15.247(b) | Pass        | All emissions < -20 dBc                                                          |

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b  | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g  | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

# EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Output Power

Mode: 11b

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |      | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW   |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 21.5                       | 2412            | 18.3               | 67.6 | 3.2                | Pass   | 21.5 | 0.141 | 16.6               | 45.7 |
| 22.0                       | 2442            | 18.2               | 66.1 | 3.2                | Pass   | 21.4 | 0.138 | 17.7               | 58.9 |
| 21.0                       | 2462            | 17.8               | 60.3 | 3.2                | Pass   | 21.0 | 0.126 | 16.6               | 45.7 |

Mode: 11g

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |       | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|-------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW    |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 24.0                       | 2412            | 18.2               | 66.1  | 3.2                | Pass   | 21.4 | 0.138 | 14.6               | 28.8 |
| 27.0                       | 2442            | 20.2               | 104.7 | 3.2                | Pass   | 23.4 | 0.219 | 17.3               | 53.7 |
| 21.5                       | 2462            | 15.5               | 35.5  | 3.2                | Pass   | 18.7 | 0.074 | 12.4               | 17.4 |

Mode: n20

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |       | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|-------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW    |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 24.0                       | 2412            | 18.3               | 67.6  | 3.2                | Pass   | 21.5 | 0.141 | 14.8               | 30.2 |
| 29.0                       | 2442            | 20.8               | 120.2 | 3.2                | Pass   | 24.0 | 0.251 | 17.4               | 55.0 |
| 22.0                       | 2462            | 16.1               | 40.7  | 3.2                | Pass   | 19.3 | 0.085 | 12.8               | 19.1 |

Mode: n40

| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |      | Antenna Gain (dBi) | Result | EIRP |       | Output Power       |      |
|----------------------------|-----------------|--------------------|------|--------------------|--------|------|-------|--------------------|------|
|                            |                 | (dBm) <sup>1</sup> | mW   |                    |        | dBm  | W     | (dBm) <sup>3</sup> | mW   |
| 21.5                       | 2422            | 14.7               | 29.5 | 3.2                | Pass   | 17.9 | 0.062 | 13.5               | 22.4 |
| 25.0                       | 2442            | 19.5               | 89.1 | 3.2                | Pass   | 22.7 | 0.186 | 15.2               | 33.1 |
| 20.5                       | 2452            | 14.1               | 25.7 | 3.2                | Pass   | 17.3 | 0.054 | 11.4               | 13.8 |

Note 1: Output power measured using a peak power meter, spurious limit is -20dBc.

Note 2: Power setting - the software power setting used during testing, included for reference only.

Note 3: Power measured using average power meter (non-gated) and is included for reference only.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Power spectral Density

Mode: 11b

| Power Setting | Frequency (MHz) | PSD                           | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-------------------------------|-------------------|--------|
|               |                 | (dBm/10kHz) <sup>Note 1</sup> |                   |        |
| 21.5          | 2412            | 1.3                           | 8.0               | Pass   |
| 22.0          | 2442            | 1.2                           | 8.0               | Pass   |
| 21.0          | 2462            | 0.5                           | 8.0               | Pass   |

Mode: 11g

| Power Setting | Frequency (MHz) | PSD                           | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-------------------------------|-------------------|--------|
|               |                 | (dBm/10kHz) <sup>Note 1</sup> |                   |        |
| 24.0          | 2412            | -4.4                          | 8.0               | Pass   |
| 27.0          | 2442            | -3.2                          | 8.0               | Pass   |
| 21.5          | 2462            | -7.1                          | 8.0               | Pass   |

Mode: n20

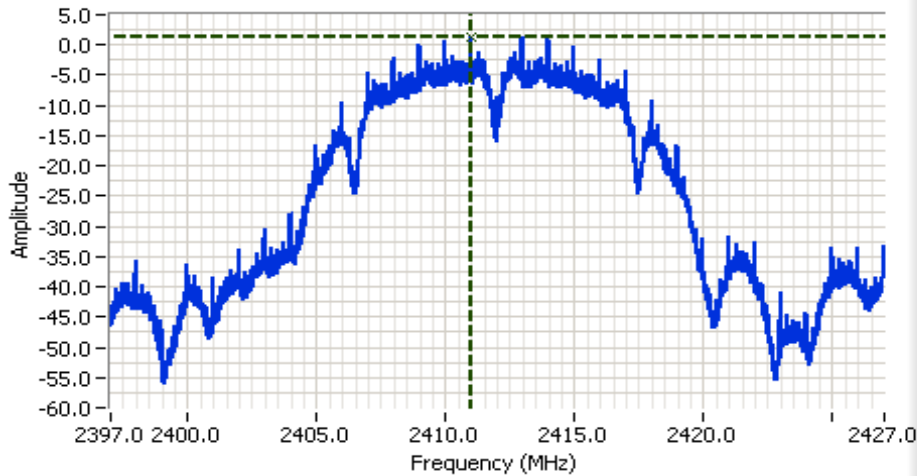
| Power Setting | Frequency (MHz) | PSD                           | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-------------------------------|-------------------|--------|
|               |                 | (dBm/10kHz) <sup>Note 1</sup> |                   |        |
| 24.0          | 2412            | -5.1                          | 8.0               | Pass   |
| 29.0          | 2442            | -1.7                          | 8.0               | Pass   |
| 22.0          | 2462            | -7.7                          | 8.0               | Pass   |

Mode: n40

| Power Setting | Frequency (MHz) | PSD                           | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-------------------------------|-------------------|--------|
|               |                 | (dBm/10kHz) <sup>Note 1</sup> |                   |        |
| 21.5          | 2422            | -9.3                          | 8.0               | Pass   |
| 28.0          | 2442            | -5.6                          | 8.0               | Pass   |
| 20.5          | 2452            | -11.3                         | 8.0               | Pass   |

Note 1: Test performed per method PKSPD, in KDB 558074. Power spectral density measured using:  $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ ,  $\text{VBW}=3*\text{RBW}$ , peak detector, span =  $1.5*\text{DTS BW}$ , auto sweep time, max hold.

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |

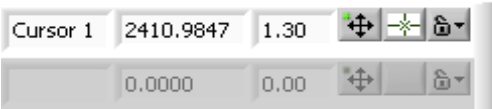


## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2412.000 MHz  
 SPAN: 30.000 MHz  
 RB: 10.0 kHz  
 VB: 30.0 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 286.9ms  
 Ref Lvl: 10.0 DBM

## Comments

11b chain B  
 PSD = 1.30 dBm/10kHz



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3: Signal Bandwidth

Mode: 11b

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (kHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 22.0          | 2442            | 10.043          | 12.47 | 100               | 300 |

Mode: 11g

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 27.0          | 2442            | 15.125          | 16.92 | 100               | 300 |

Mode: n20

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 29.0          | 2442            | 15.125          | 19.15 | 100               | 300 |

Mode: n40

| Power Setting | Frequency (MHz) | Bandwidth (MHz) |       | RBW Setting (MHz) |     |
|---------------|-----------------|-----------------|-------|-------------------|-----|
|               |                 | 6dB             | 99%   | 6dB               | 99% |
| 28.0          | 2442            | 35.078          | 36.33 | 100               | 510 |

Note 1: DTS BW: RBW=100kHz, VBW  $\geq 3 \times$  RBW, peak detector, max hold, auto sweep time.  
 99% BW: RBW=1-5% of 99%BW, VBW  $\geq 3 \times$  RBW, peak detector, max hold, auto sweep time.

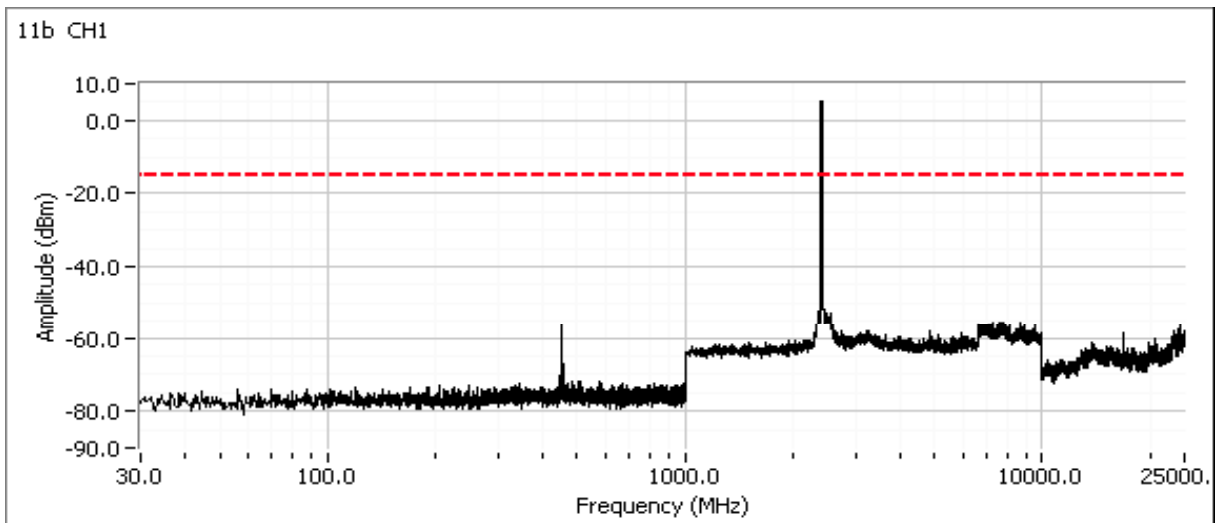
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4a: Out of Band Spurious Emissions

Mode: 802.11b

| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 21.5          | b    | -20dBc | Pass   |
| 2442            | 22.0          | b    | -20dBc | Pass   |
| 2462            | 21.0          | b    | -20dBc | Pass   |

Plots for low channel

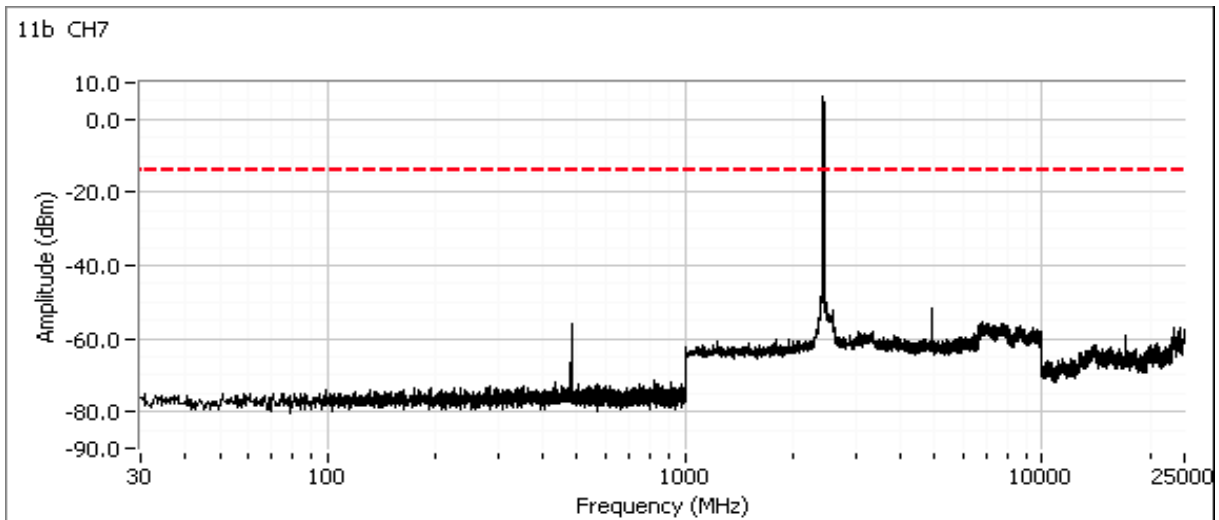


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

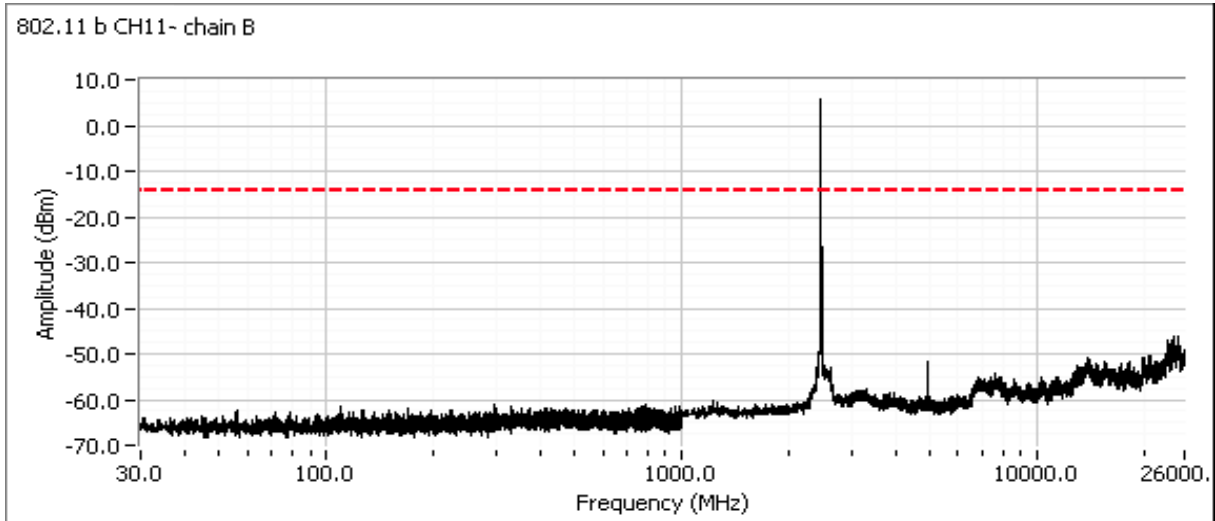


Plot for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plot for high channel



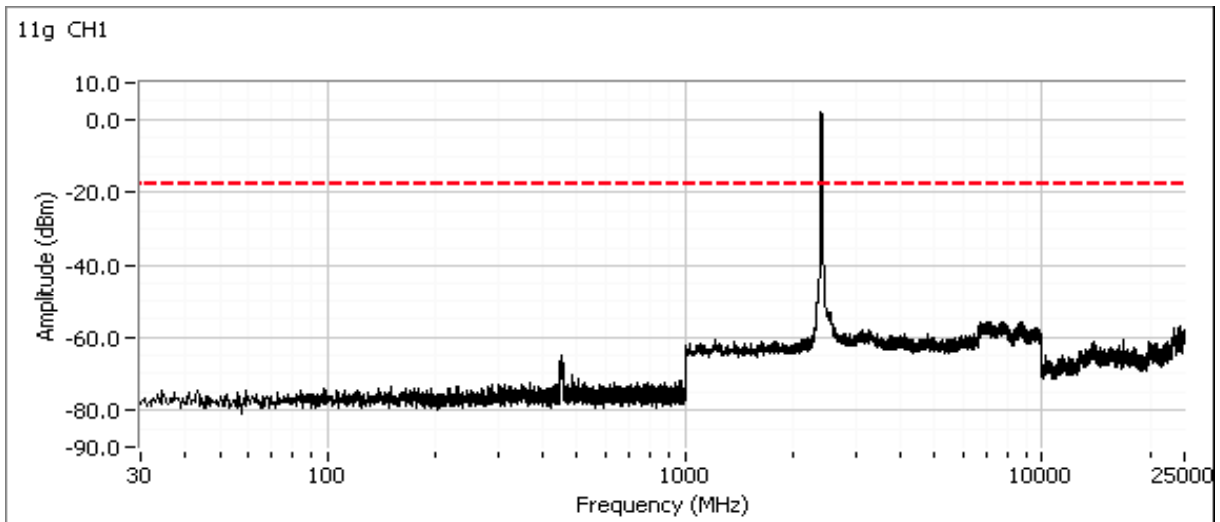
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4b: Out of Band Spurious Emissions

Mode: 802.11g

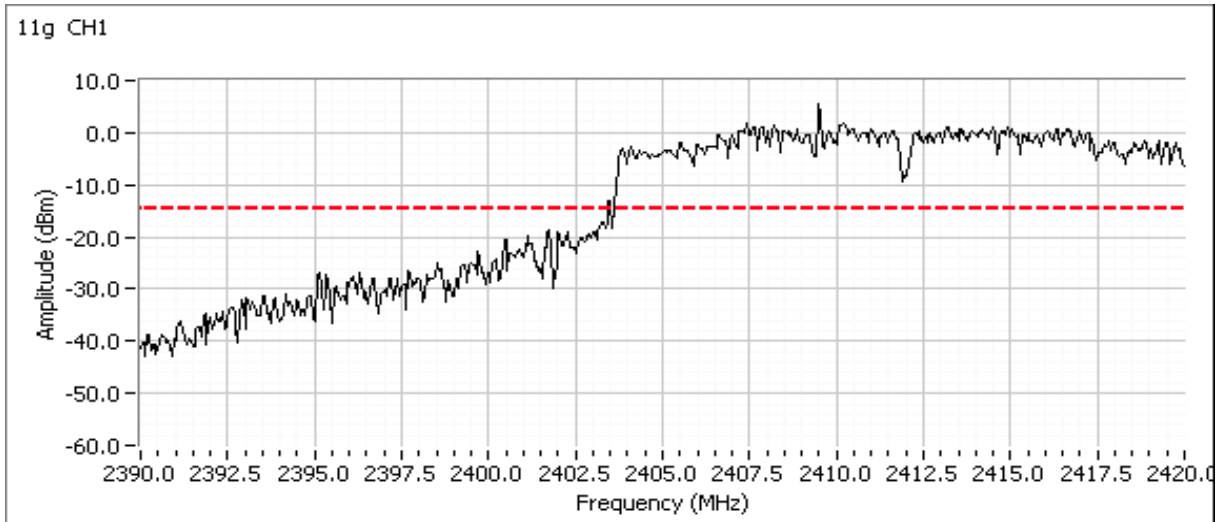
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 27.0          | g    | -20dBc | Pass   |
| 2442            | 27.0          | g    | -20dBc | Pass   |
| 2462            | 21.5          | g    | -20dBc | Pass   |

Plots for low channel

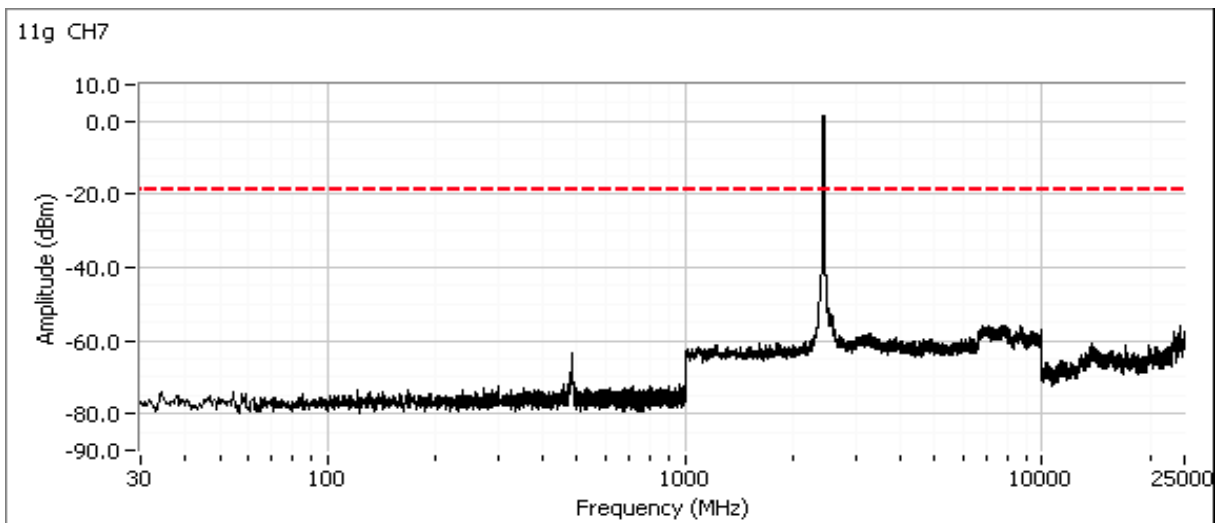


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

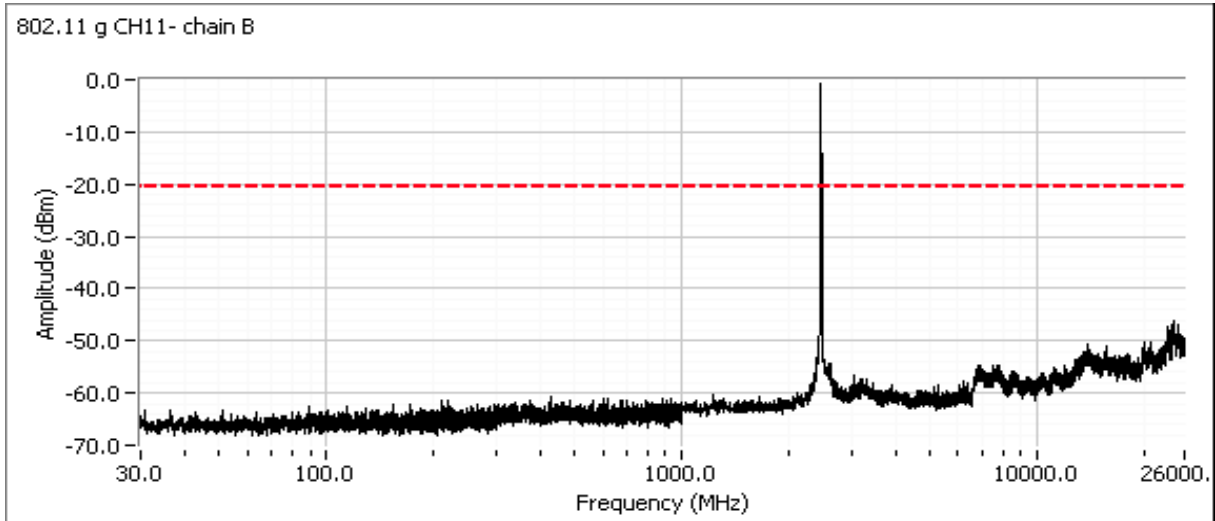


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



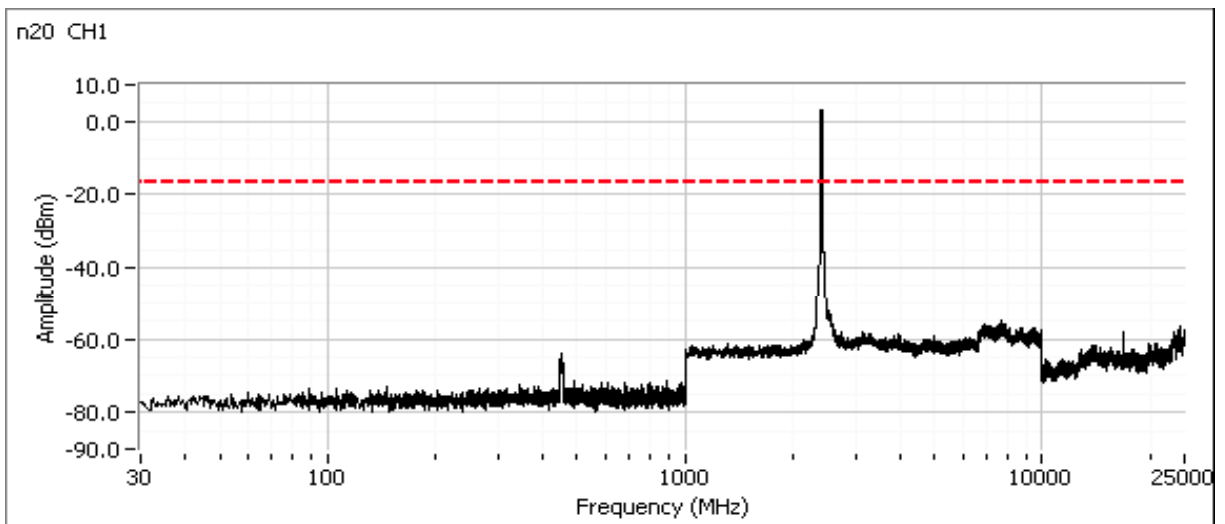
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4c: Out of Band Spurious Emissions

Mode: 802.11n20

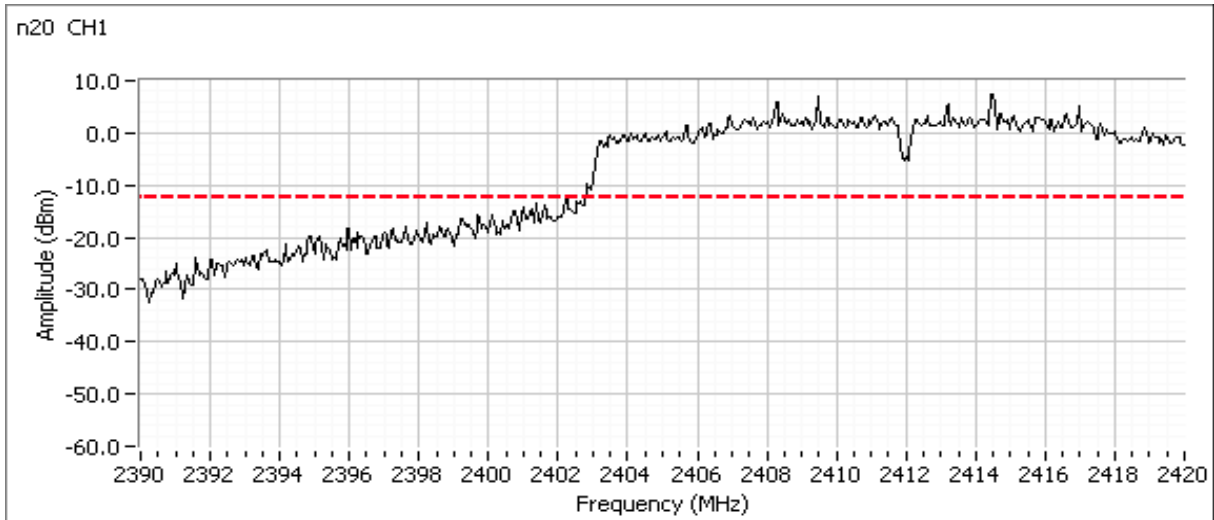
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2412            | 29.0          | n20  | -20dBc | Pass   |
| 2442            | 29.0          | n20  | -20dBc | Pass   |
| 2462            | 22.0          | n20  | -20dBc | Pass   |

Plot for low channel

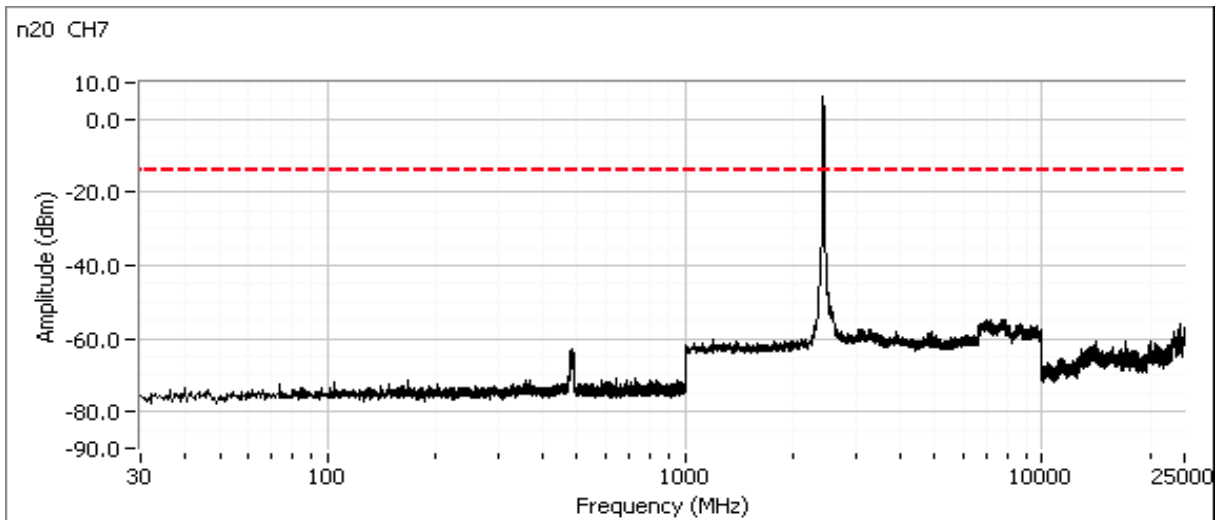


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

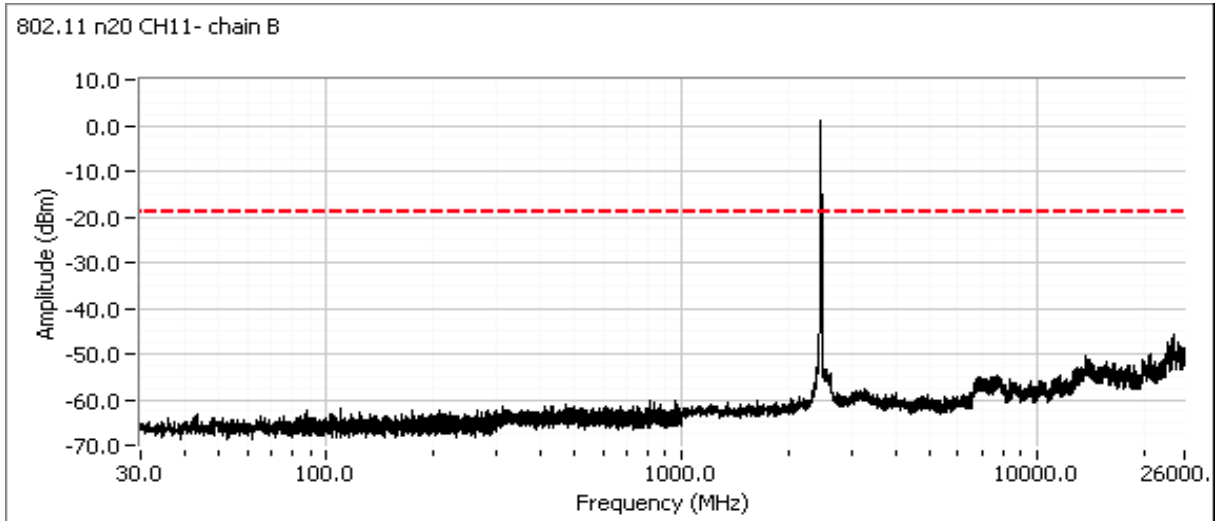


Plot for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plot for high channel



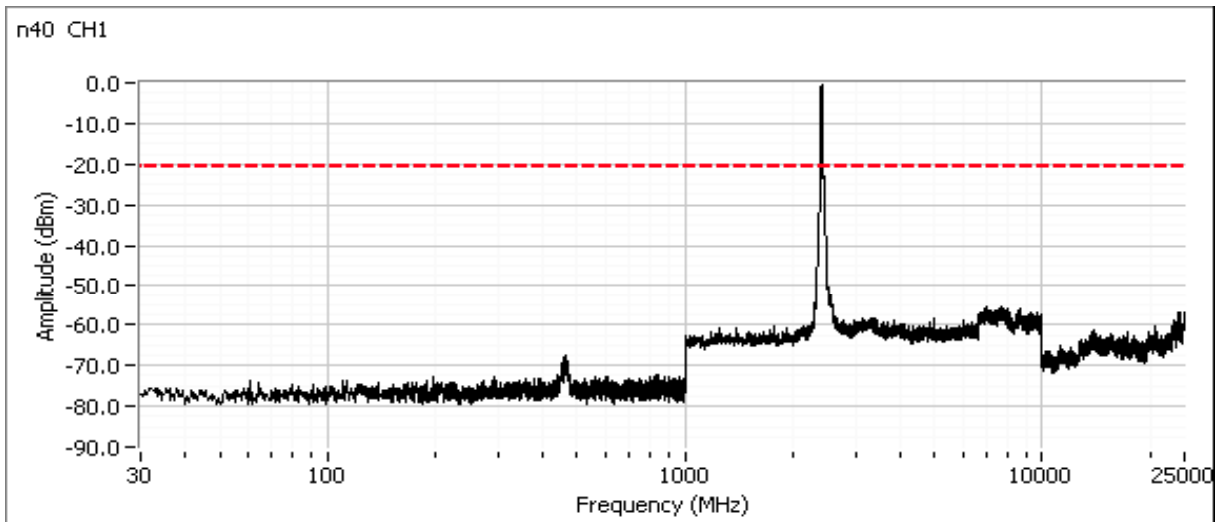
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4d: Out of Band Spurious Emissions

Mode: 802.11n40

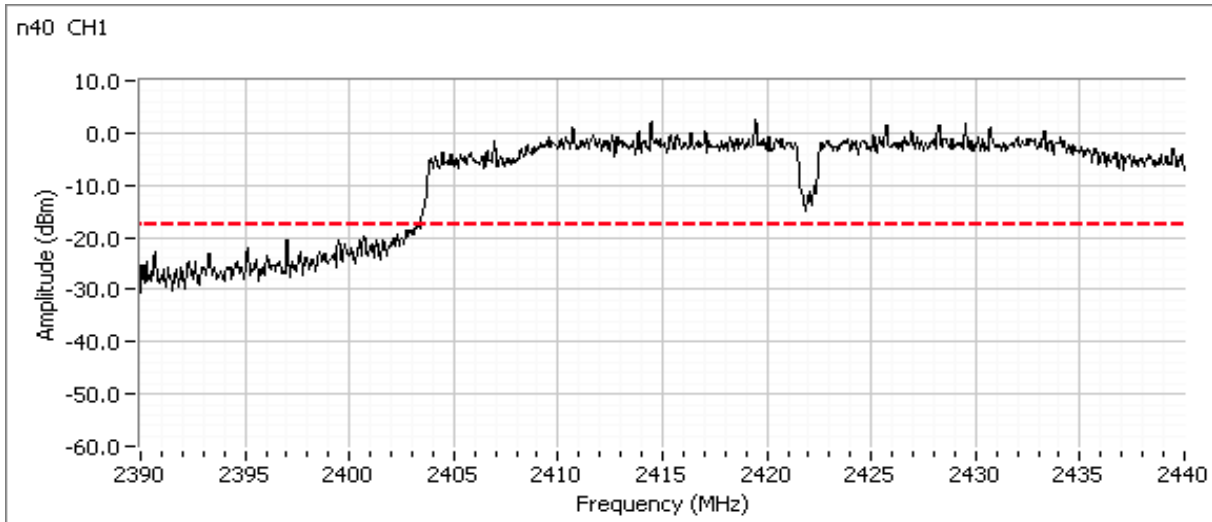
| Frequency (MHz) | Power Setting | Mode | Limit  | Result |
|-----------------|---------------|------|--------|--------|
| 2422            | 28.0          | n40  | -20dBc | Pass   |
| 2442            | 28.0          | n40  | -20dBc | Pass   |
| 2452            | 20.5          | n40  | -20dBc | Pass   |

Plot for low channel

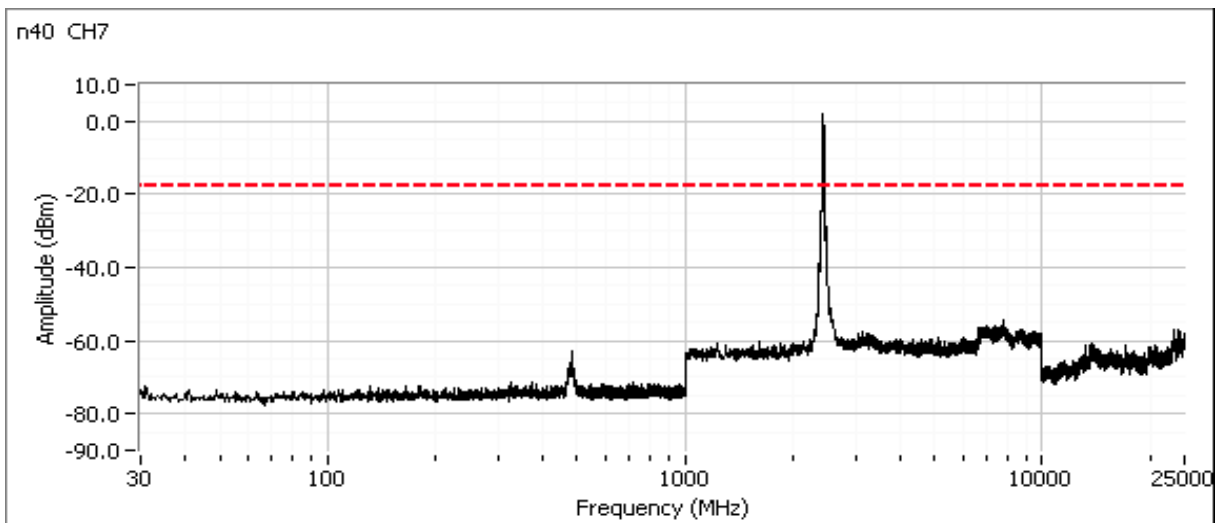


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

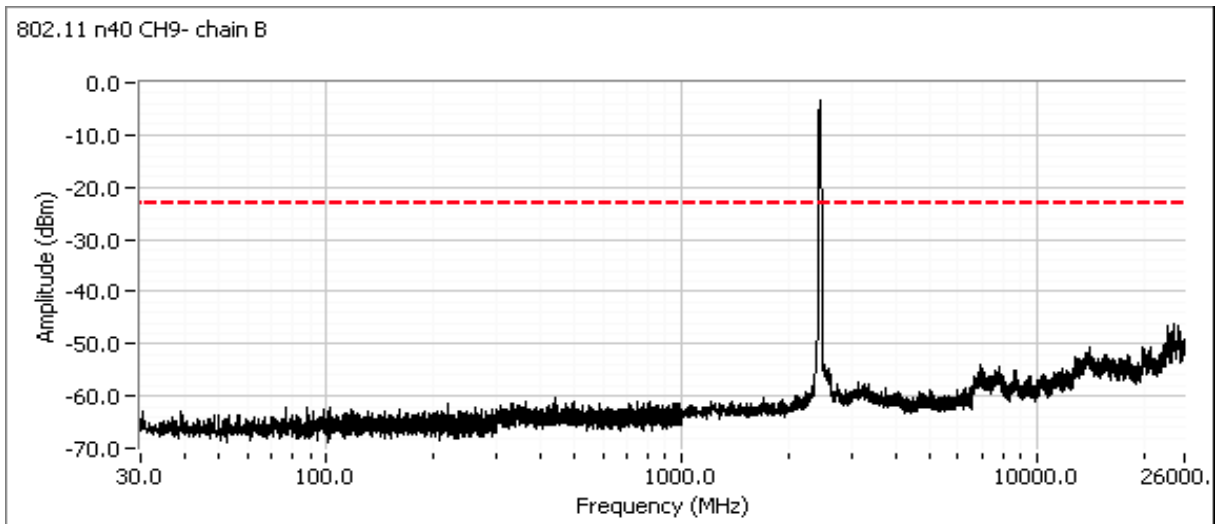


Plots for center channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Antenna Port Measurements Power, PSD, Bandwidth and Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/18/2014  
Test Engineer: J. Liu, M. Birgani  
Test Location: Lab 4A

Config. Used: 1  
Config Change: none  
EUT Voltage: 3.3Vdc

### General Test Configuration

The EUT was connected to the spectrum analyzer or power meter via a suitable attenuator. All measurements were made on a single chain.

All measurements have been corrected to allow for the external attenuators used.

Ambient Conditions:                      Temperature:                      24 °C  
                                                         Rel. Humidity:                      38 %

### Summary of Results

| Run # | Pwr setting | Avg Pwr | Test Performed               | Limit     | Pass / Fail | Result / Margin                                               |
|-------|-------------|---------|------------------------------|-----------|-------------|---------------------------------------------------------------|
| 1     |             |         | Output Power                 | 15.247(b) | Pass        | n20: 22.8 dBm<br>n40: 21.8 dBm                                |
| 2     |             |         | Power spectral Density (PSD) | 15.247(d) | Pass        | n20: 0.6dBm/10kHz<br>n40: -2.7 dBm/10kHz                      |
| 3     |             |         | Minimum 6dB Bandwidth        | 15.247(a) |             | These measurements<br>are covered by the<br>single chain data |
| 3     |             |         | 99% Bandwidth                | RSS GEN   |             |                                                               |
| 4     |             |         | Spurious emissions           | 15.247(b) |             |                                                               |

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

## Antenna Gain Information

| Freq        | Antenna Gain (dBi) / Chain |     |   |   | BF | MultiChain Legacy | CDD | Sectorized / Xpol | Dir G (PWR) | Dir G (PSD) |
|-------------|----------------------------|-----|---|---|----|-------------------|-----|-------------------|-------------|-------------|
|             | 1                          | 2   | 3 | 4 |    |                   |     |                   |             |             |
| 2400-2483.5 | 3.2                        | 3.2 |   |   | No | No                | Yes | No                | 3.2         | 6.2         |

## For devices that support CDD modes

Min # of spatial streams: 1  
 Max # of spatial streams: 2

|        |                                                                                                                                                                                                                                                                 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | BF = beamforming mode supported, Multichain Legacy = 802.11 legacy data rates supported for multichain transmissions, CDD = Cyclic Delay Diversity (or Cyclic Shift Diversity) modes supported, Sectorized / Xpol = antennas are sectorized or cross polarized. |
| Notes: | Dir G (PWR) = total gain (Gant + Array Gain) for power calculations; Dir G (PSD) = total gain for PSD calculations Both are based on FCC KDB 662911. Depending on the modes supported, the Array Gain value for power could be different from the PSD value.    |



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Run #1: Output Power

Operating Mode: 802.11n20  
Directional Gain (dBi): 3.2

| Frequency (MHz) | Chain | Software Setting | Power <sup>1</sup> dBm | Total Power mW | Total Power dBm | Limit dBm | Max Power (W) | Result | Power eirp (W) | Power (dBm) <sup>2</sup> |
|-----------------|-------|------------------|------------------------|----------------|-----------------|-----------|---------------|--------|----------------|--------------------------|
| 2412            | 1     | 16.0             | 14.3                   | 62.4           | 18.0            | 30.0      | 0.191         | Pass   | 0.400          | 12.0                     |
|                 | 2     | 21.5             | 15.5                   |                |                 |           |               |        |                | 12.2                     |
| 2442            | 1     | 23.0             | 19.5                   | 191.5          | 22.8            | 30.0      |               | Pass   |                | 17.3                     |
|                 | 2     | 29.0             | 20.1                   |                |                 |           |               |        |                | 17.4                     |
| 2462            | 1     | 16.5             | 15.1                   | 61.9           | 17.9            | 30.0      |               | Pass   |                | 12.0                     |
|                 | 2     | 21.0             | 14.7                   |                |                 |           |               |        |                | 10.3                     |

Operating Mode: 802.11n40  
Directional Gain (dBi): 3.2

| Frequency (MHz) | Chain | Software Setting | Power <sup>1</sup> dBm | Total Power mW | Total Power dBm | Limit dBm | Max Power (W) | Result | Power eirp (W) | Power (dBm) <sup>2</sup> |
|-----------------|-------|------------------|------------------------|----------------|-----------------|-----------|---------------|--------|----------------|--------------------------|
| 2422            | 1     | 14.0             | 11.5                   | 27.0           | 14.3            | 30.0      | 0.152         | Pass   | 0.317          | 9.7                      |
|                 | 2     | 19.5             | 11.1                   |                |                 |           |               |        |                | 9.6                      |
| 2437            | 1     | 23.0             | 18.8                   | 151.7          | 21.8            | 30.0      |               | Pass   |                | 16.7                     |
|                 | 2     | 28.0             | 18.8                   |                |                 |           |               |        |                | 16.7                     |
| 2452            | 1     | 13.5             | 11.7                   | 28.9           | 14.6            | 30.0      |               | Pass   |                | 9.4                      |
|                 | 2     | 19.5             | 11.5                   |                |                 |           |               |        |                | 9.4                      |

Note 1: Output power measured using a peak power meter, spurious limit is -20dBc.

Note 2: Power measured using average power meter (non-gated) and is included for reference only.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Power spectral Density

Mode: n20

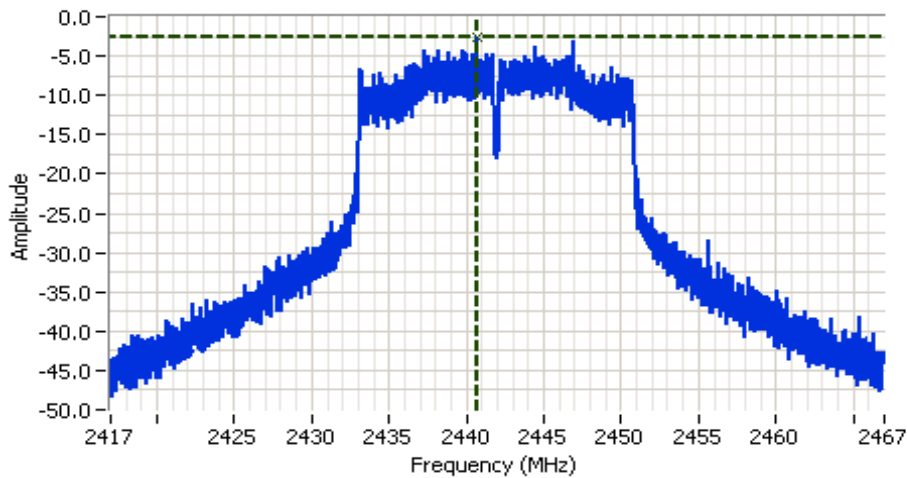
| Power Setting | Frequency (MHz) | PSD (dBm/10kHz) <sup>Note 1</sup> |         |         |         | Total | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-----------------------------------|---------|---------|---------|-------|-------------------|--------|
|               |                 | Chain 1                           | Chain 2 | Chain 3 | Chain 4 |       |                   |        |
| 16.0 / 21.5   | 2412            | -9.3                              | -7.5    |         |         | -5.3  | 7.8               | Pass   |
| 23.0 / 29.0   | 2442            | -2.6                              | -2.2    |         |         | 0.6   | 7.8               | Pass   |
| 16.5 / 21.0   | 2462            | -8.7                              | -8.1    |         |         | -5.4  | 7.8               | Pass   |

Mode: n40

| Power Setting | Frequency (MHz) | PSD (dBm/10kHz) <sup>Note 1</sup> |         |         |         | Total | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-----------------------------------|---------|---------|---------|-------|-------------------|--------|
|               |                 | Chain 1                           | Chain 2 | Chain 3 | Chain 4 |       |                   |        |
| 14.0 / 19.5   | 2422            | -12.7                             | -14.3   |         |         | -10.4 | 7.8               | Pass   |
| 23.0 / 28.0   | 2437            | -5.2                              | -6.4    |         |         | -2.7  | 7.8               | Pass   |
| 13.5 / 19.5   | 2462            | -12.4                             | -14.0   |         |         | -10.1 | 7.8               | Pass   |

|         |                                                                                                                                                                                                                                                    |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Test performed per method PKSPD, in KDB 558074. Power spectral density measured using: 3kHz ≤ RBW ≤ 100kHz, VBW=3*RBW, peak detector, span = 1.5*DTS BW, auto sweep time, max hold.                                                                |
| Note 2: | Power setting - if a single number the same power setting was used for each chain. If multiple numbers the power setting for each chain is separated by a comma (e.g. x,y would indicate power setting x for chain 1, power setting y for chain 2. |

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Client: Intel Corporation                  | Job Number: J94914                 |
| Model: 7265D2W                             | T-Log Number: T95471               |
| Contact: Steve Hackett                     | Project Manager: Christine Krebill |
| Standard: FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: -             |
|                                            | Class: N/A                         |

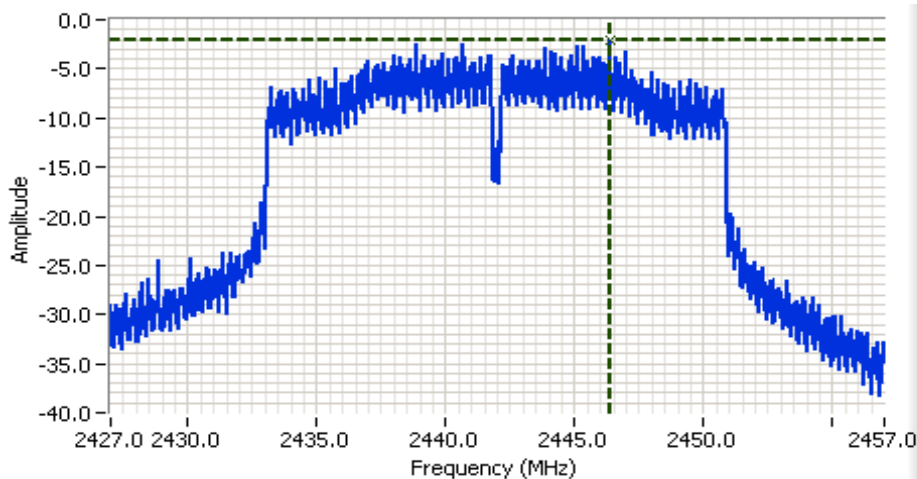
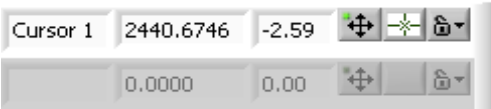


## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2442.000 MHz  
 SPAN: 50.000 MHz  
 RB: 10.0 kHz  
 VB: 30.0 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 0.5s  
 Ref Lvl: 4.0 DBM

## Comments

MIMO n20 Chain A  
 PSD= -2.6dBm/10kHz

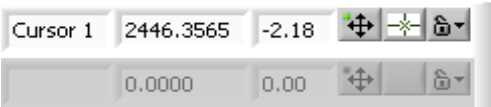


## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2442.000 MHz  
 SPAN: 30.000 MHz  
 RB: 10.0 kHz  
 VB: 30.0 kHz  
 Detector: POS  
 Attn: 20 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 286.9ms  
 Ref Lvl: 20.0 DBM

## Comments

MIMO n20 Chain B  
 PSD= -2.18dBm/10kHz



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.  
 For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

### Ambient Conditions:

Temperature: 25 °C  
 Rel. Humidity: 30 %

### Summary of Results - Device Operating in the 2400-2483.5 MHz Band

| Run # | Mode | Channel      | Target Power | Power Setting | Test Performed                    | Limit                              | Result / Margin                    |                                    |
|-------|------|--------------|--------------|---------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 1     | b    | 1 - 2412MHz  | 16.5         | 14.5          | Restricted Band Edge (2390 MHz)   | FCC Part 15.209 / 15.247( c)       | 47.9 dBµV/m @ 2385.4 MHz (-6.1 dB) |                                    |
|       |      | 11 - 2462MHz | 16.5         | 14.0          | Restricted Band Edge (2483.5 MHz) |                                    | 48.6 dBµV/m @ 2488.8 MHz (-5.4 dB) |                                    |
| 2     | g    | 1 - 2412MHz  | 14.0         | 17.0          | Restricted Band Edge (2390 MHz)   |                                    | 47.8 dBµV/m @ 2390.0 MHz (-6.2 dB) |                                    |
|       |      | 2 - 2417MHz  | 15.5         | 18.5          |                                   |                                    | 47.5 dBµV/m @ 2390.0 MHz (-6.5 dB) |                                    |
|       |      | 10 - 2457MHz | 15.5         | 18.5          | Restricted Band Edge (2483.5 MHz) |                                    | 47.6 dBµV/m @ 2483.6 MHz (-6.4 dB) |                                    |
|       |      | 11 - 2462MHz | 12.5         | 15.0          |                                   |                                    | 45.3 dBµV/m @ 2483.5 MHz (-8.7 dB) |                                    |
| 3     | n20  | 1 - 2412MHz  | 14.0         | 17.0          | Restricted Band Edge (2390 MHz)   |                                    | FCC Part 15.209 / 15.247( c)       | 48.2 dBµV/m @ 2390.0 MHz (-5.8 dB) |
|       |      | 2 - 2417MHz  | 15.5         | 19.0          |                                   |                                    |                                    | 48.8 dBµV/m @ 2390.0 MHz (-5.2 dB) |
|       |      | 10 - 2457MHz | 15.5         | 18.5          | Restricted Band Edge (2483.5 MHz) | 48.9 dBµV/m @ 2483.5 MHz (-5.1 dB) |                                    |                                    |
|       |      | 11 - 2462MHz | 12.5         | 15.0          |                                   | 47.1 dBµV/m @ 2483.5 MHz (-6.9 dB) |                                    |                                    |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

|   |     |                  |      |      |                                      |                                 |                                       |
|---|-----|------------------|------|------|--------------------------------------|---------------------------------|---------------------------------------|
| 4 | n40 | 3 -<br>2422MHz   | 13.5 | 13.5 | Restricted Band Edge<br>(2390 MHz)   | FCC Part 15.209 /<br>15.247( c) | 52.1 dBµV/m @ 2389.8<br>MHz (-1.9 dB) |
|   | n40 | 4 -<br>2427MHz - | 14.5 | 14.4 | Restricted Band Edge<br>(2483.5 MHz) |                                 | 51.5 dBµV/m @ 2483.5<br>MHz (-2.5 dB) |
|   | n40 | 7 -<br>2442MHz   | 14.5 | 14.5 | Restricted Band Edge<br>(2483.5 MHz) |                                 | 50.4 dBµV/m @ 2483.5<br>MHz (-3.6 dB) |
|   | n40 | 8 -<br>2447MHz   | 13.5 | 13.7 | Restricted Band Edge<br>(2483.5 MHz) |                                 | 52.4 dBµV/m @ 2483.5<br>MHz (-1.6 dB) |
|   | n40 | 9 -<br>2452MHz   | 12.5 | 12.8 | Restricted Band Edge<br>(2483.5 MHz) |                                 | 52.3 dBµV/m @ 2483.5<br>MHz (-1.7 dB) |

## Modifications Made During Testing

No modifications were made to the EUT during testing

## Deviations From The Standard

No deviations were made from the requirements of the standard.

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Antenna: Skycross WiMax/WLAN

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time

Unless otherwise stated/noted, emission has duty cycle  $\geq 98\%$  and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b  | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g  | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

## Measurement Specific Notes:

|         |                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Emission in non-restricted band, but limit of 15.209 used.                                                                                                                                                                           |
| Note 2: | Emission in non-restricted band, the limit was set 20dB below the level of the fundamental and measured in 100kHz.                                                                                                                   |
| Note 3: | Emission has duty cycle $< 98\%$ , but constant, average measurement performed: RBW=1MHz, VBW=10Hz, peak detector, linear averaging, auto sweep, trace average 100 traces, measurement corrected by Linear Voltage correction factor |
| Note 4: | Plots of the average bandedge do not account for any duty cycle correction. Refer to the tabular results for final measurements.                                                                                                     |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Radiated Bandedge Measurements

Date of Test: 6/6/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

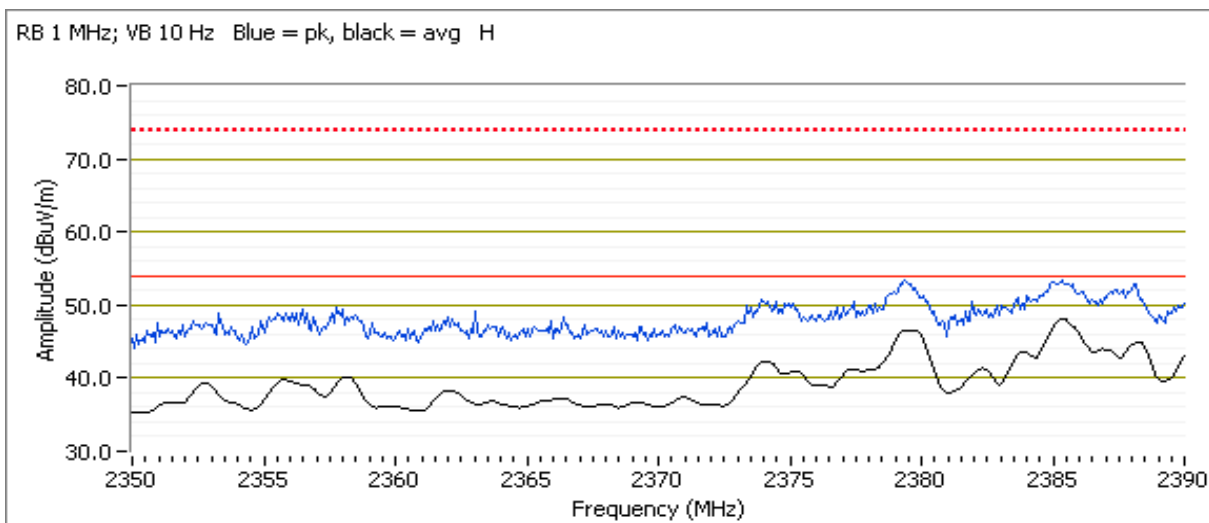
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: b  
 Tx Chain: A Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.8           | 14.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2385.270  | 47.1         | V   | 54.0            | -6.9   | AVG       | 278     | 1.04   | POS; RB 1 MHz; VB: 10 Hz |
| 2379.820  | 52.9         | V   | 74.0            | -21.1  | PK        | 278     | 1.04   | POS; RB 1 MHz; VB: 3 MHz |
| 2385.350  | 47.9         | H   | 54.0            | -6.1   | AVG       | 308     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2385.510  | 53.8         | H   | 74.0            | -20.2  | PK        | 308     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |



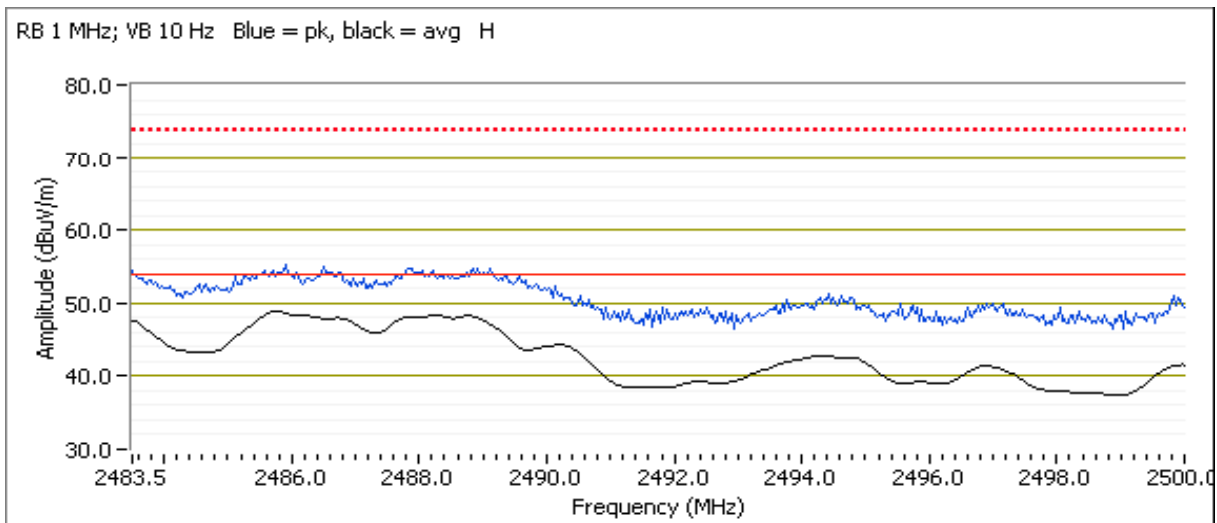
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11                      Mode: b  
 Tx Chain: A                      Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.7           | 14.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2488.720  | 46.5   | V   | 54.0            | -7.5   | AVG       | 279     | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.880  | 52.8   | V   | 74.0            | -21.2  | PK        | 279     | 1.11   | POS; RB 1 MHz; VB: 3 MHz |
| 2488.760  | 48.6   | H   | 54.0            | -5.4   | AVG       | 252     | 1.12   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.720  | 54.6   | H   | 74.0            | -19.4  | PK        | 252     | 1.12   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Radiated Bandedge Measurements

Date of Test: 6/6/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

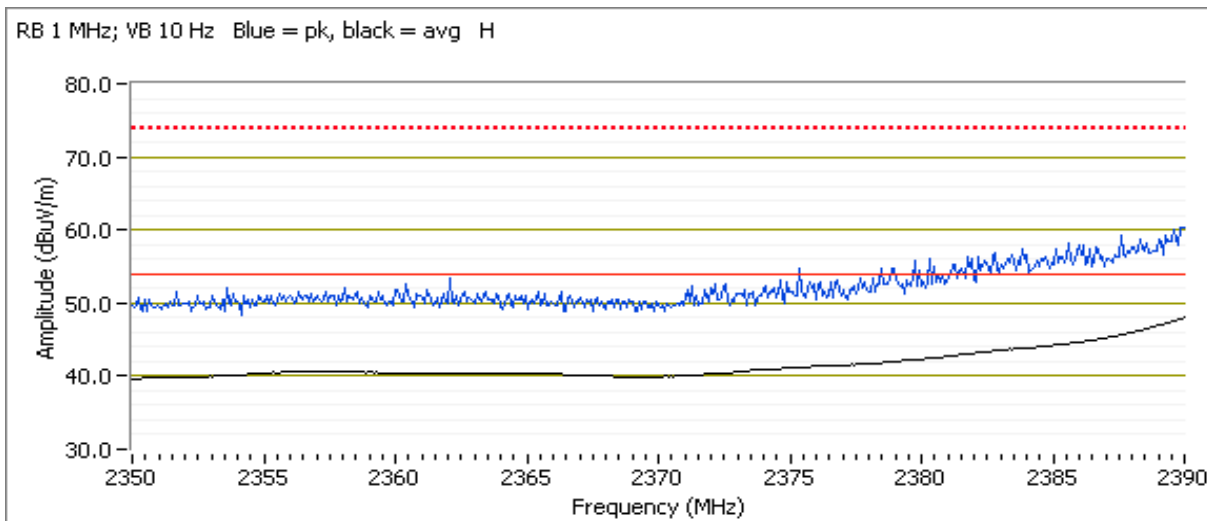
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: g  
 Tx Chain: A Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.0           | 14.2           | 17.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 46.2         | V   | 54.0            | -7.8   | AVG       | 282     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.280  | 58.0         | V   | 74.0            | -16.0  | PK        | 282     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 47.8         | H   | 54.0            | -6.2   | AVG       | 249     | 1.46   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.920  | 59.9         | H   | 74.0            | -14.1  | PK        | 249     | 1.46   | POS; RB 1 MHz; VB: 3 MHz |



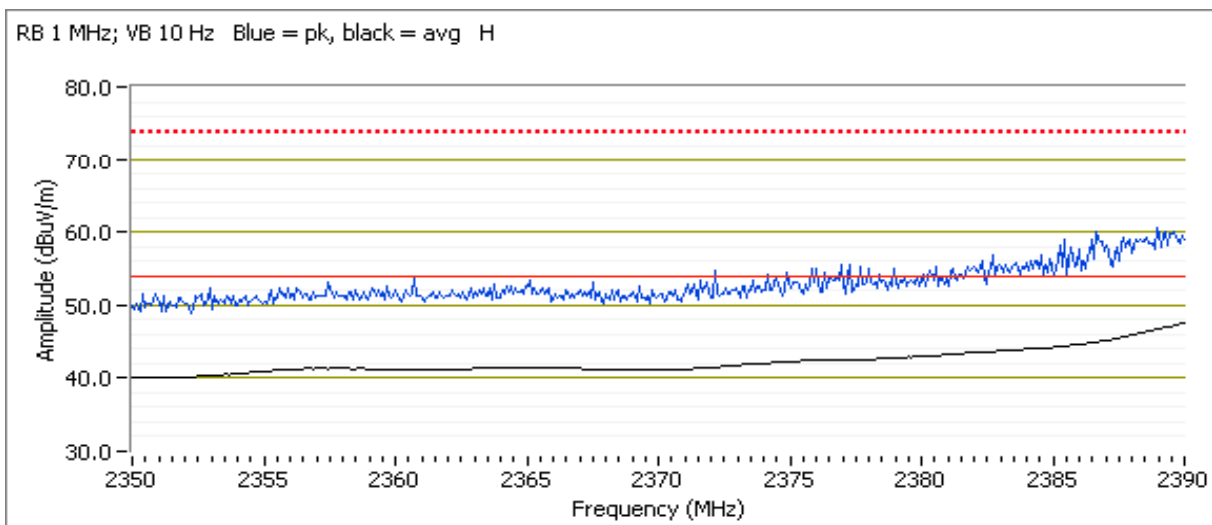
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 2                      Mode: g  
 Tx Chain: A                    Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.5           | 18.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 45.9         | V   | 54.0            | -8.1   | AVG       | 282     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2387.350  | 60.6         | V   | 74.0            | -13.4  | PK        | 282     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 47.5         | H   | 54.0            | -6.5   | AVG       | 249     | 1.45   | POS; RB 1 MHz; VB: 10 Hz |
| 2384.790  | 60.5         | H   | 74.0            | -13.5  | PK        | 249     | 1.45   | POS; RB 1 MHz; VB: 3 MHz |



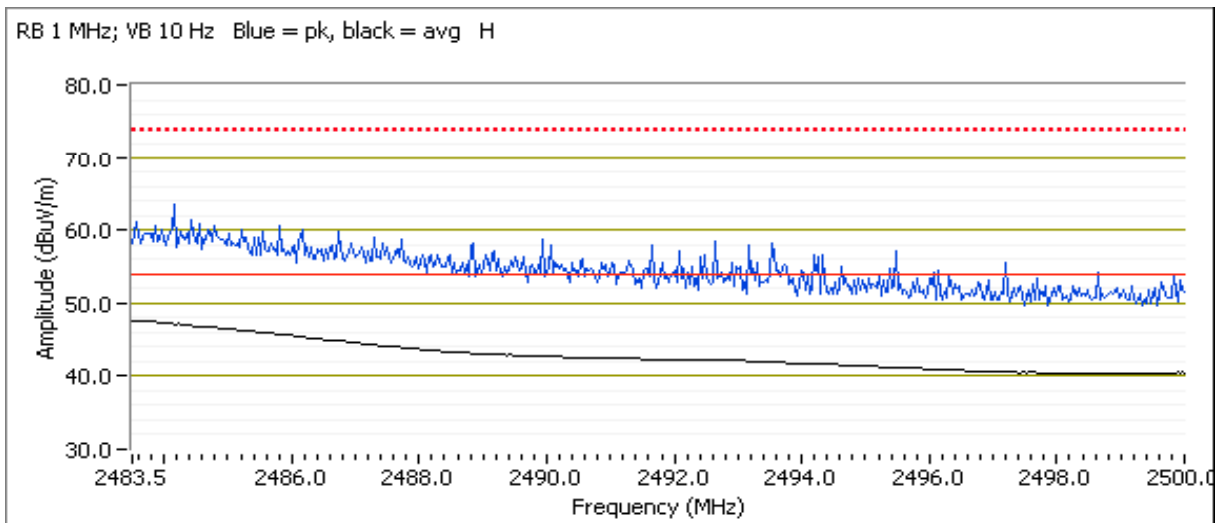
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 10                      Mode: g  
 Tx Chain: A                      Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.8           | 18.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.500  | 45.8   | V   | 54.0            | -8.2   | AVG       | 215     | 1.60   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.550  | 59.7   | V   | 74.0            | -14.3  | PK        | 215     | 1.60   | POS; RB 1 MHz; VB: 3 MHz |
| 2483.570  | 47.6   | H   | 54.0            | -6.4   | AVG       | 230     | 1.57   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.880  | 62.3   | H   | 74.0            | -11.7  | PK        | 230     | 1.57   | POS; RB 1 MHz; VB: 3 MHz |



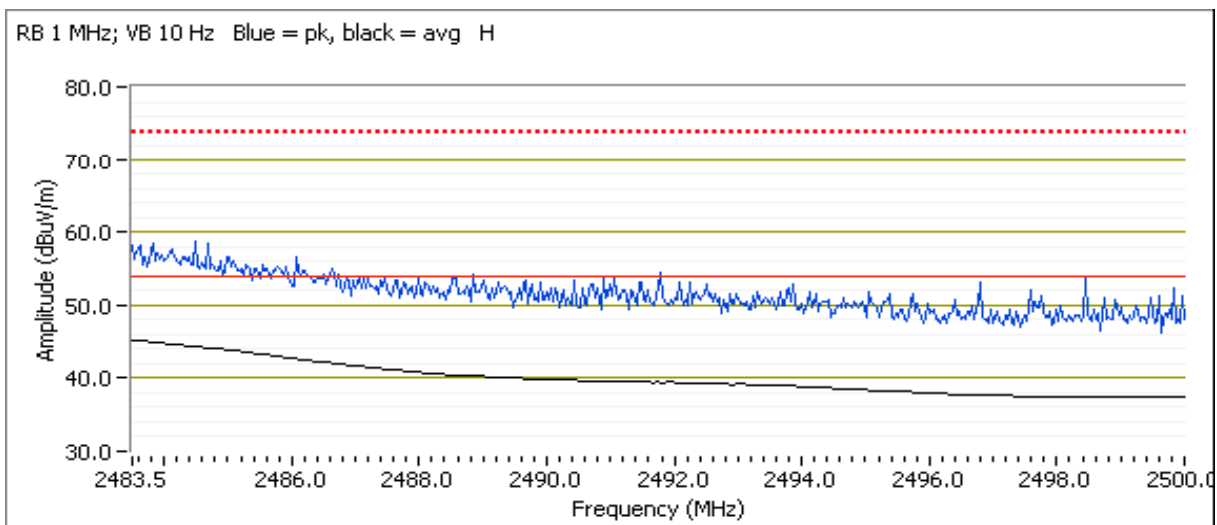
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11 Mode: g  
 Tx Chain: A Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.8           | 15.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.570  | 44.6         | V   | 54.0            | -9.4   | AVG       | 225     | 1.59   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.130  | 58.1         | V   | 74.0            | -15.9  | PK        | 225     | 1.59   | POS; RB 1 MHz; VB: 3 MHz |
| 2483.500  | 45.3         | H   | 54.0            | -8.7   | AVG       | 230     | 1.57   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.320  | 58.7         | H   | 74.0            | -15.3  | PK        | 230     | 1.57   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3: Radiated Bandedge Measurements

Date of Test: 6/6/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

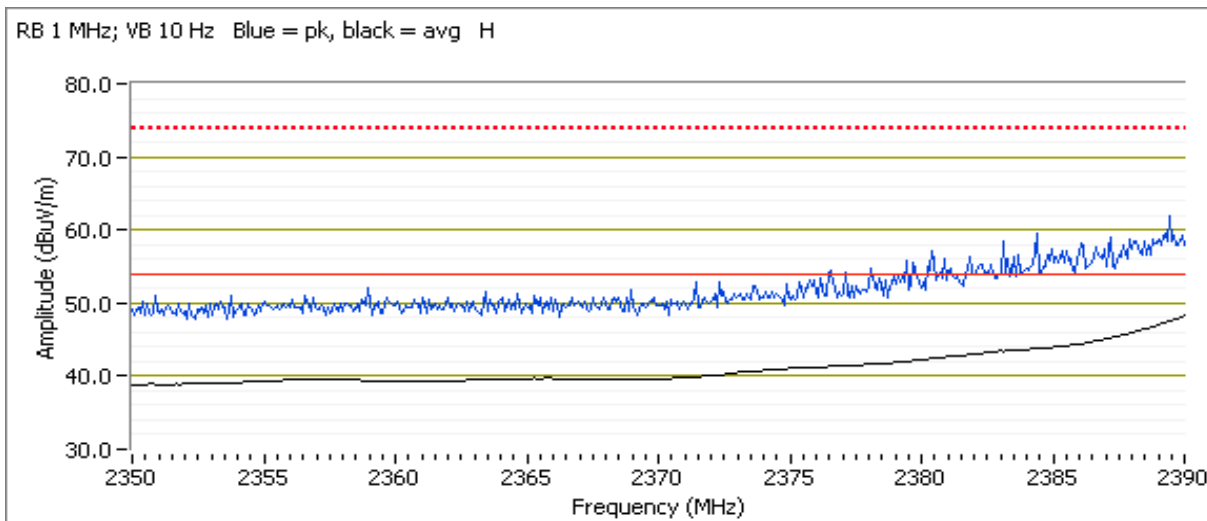
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: n20  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.0           | 14.1           | 17.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 45.1   | V   | 54.0            | -8.9   | AVG       | 278     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2384.630  | 58.4   | V   | 74.0            | -15.6  | PK        | 278     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 48.2   | H   | 54.0            | -5.8   | AVG       | 248     | 1.44   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.760  | 62.9   | H   | 74.0            | -11.1  | PK        | 248     | 1.44   | POS; RB 1 MHz; VB: 3 MHz |



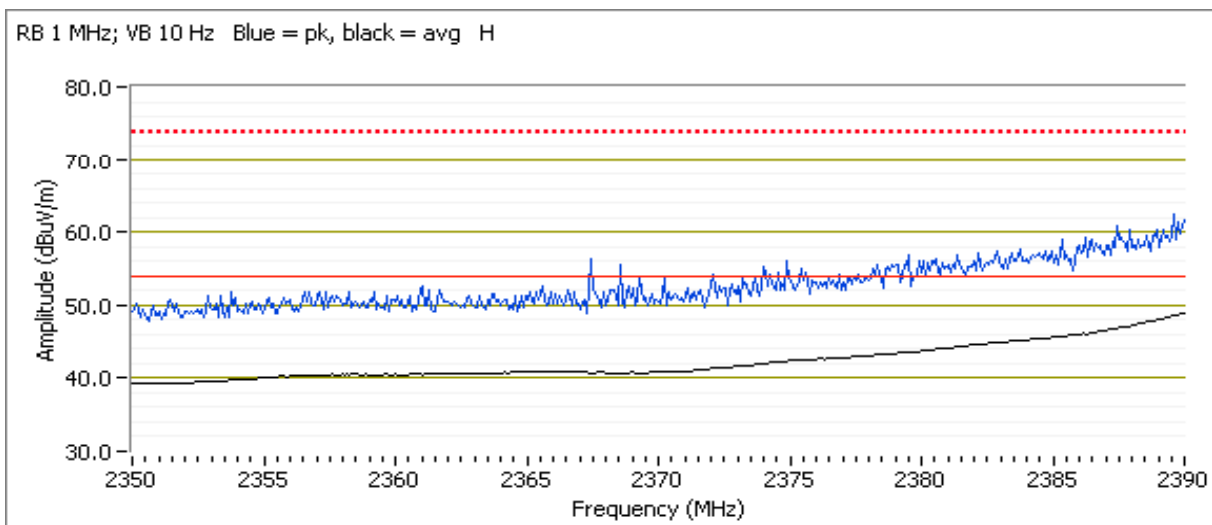
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 2                      Mode: n20  
 Tx Chain: A                    Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.8           | 19.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 48.0         | V   | 54.0            | -6.0   | AVG       | 278     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.920  | 59.8         | V   | 74.0            | -14.2  | PK        | 278     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 48.8         | H   | 54.0            | -5.2   | AVG       | 244     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.120  | 62.2         | H   | 74.0            | -11.8  | PK        | 244     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |



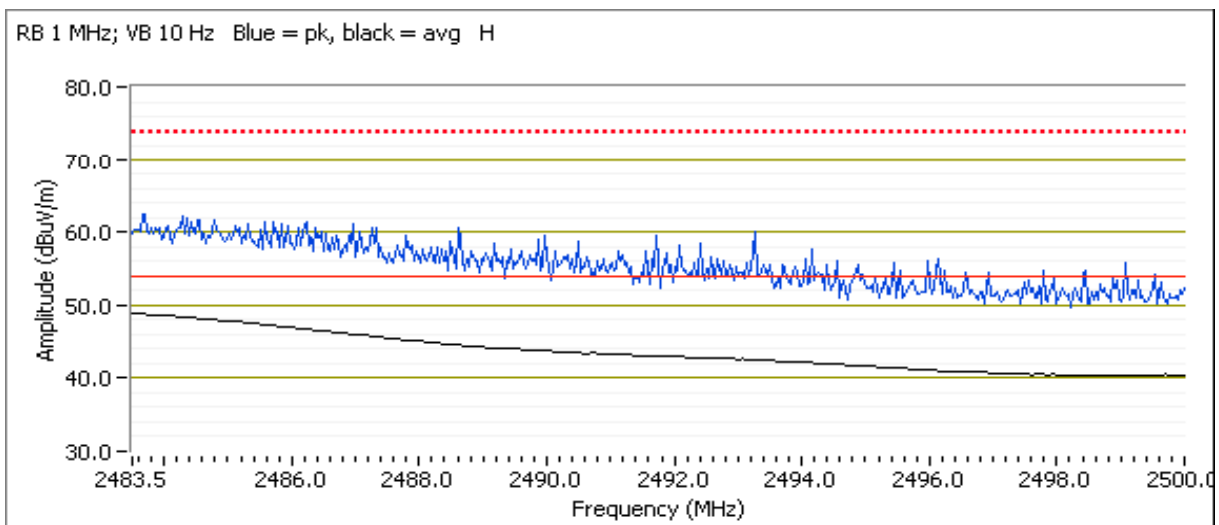
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 10                      Mode: n20  
 Tx Chain: A                      Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.7           | 18.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.500  | 46.6   | V   | 54.0            | -7.4   | AVG       | 279     | 1.13   | POS; RB 1 MHz; VB: 10 Hz |
| 2483.930  | 61.1   | V   | 74.0            | -12.9  | PK        | 279     | 1.13   | POS; RB 1 MHz; VB: 3 MHz |
| 2483.530  | 48.9   | H   | 54.0            | -5.1   | AVG       | 252     | 1.14   | POS; RB 1 MHz; VB: 10 Hz |
| 2483.960  | 62.7   | H   | 74.0            | -11.3  | PK        | 252     | 1.14   | POS; RB 1 MHz; VB: 3 MHz |



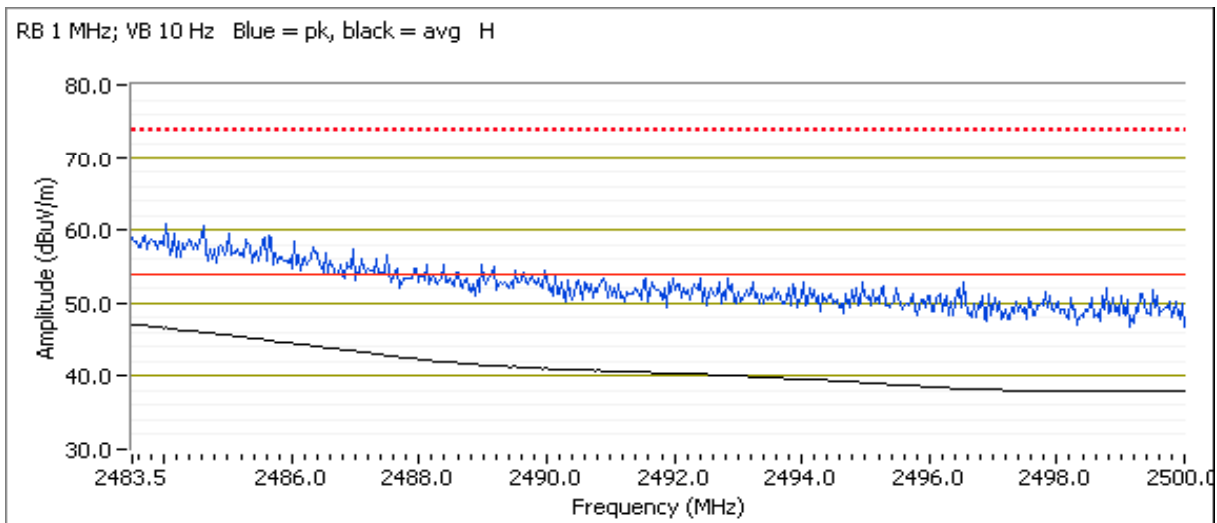
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11      Mode: n20  
 Tx Chain: A      Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.6           | 15.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.530  | 47.1   | H   | 54.0            | -6.9   | AVG       | 251     | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2483.900  | 61.6   | H   | 74.0            | -12.4  | PK        | 251     | 1.11   | POS; RB 1 MHz; VB: 3 MHz |
| 2483.570  | 44.5   | V   | 54.0            | -9.5   | AVG       | 281     | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2485.320  | 58.0   | V   | 74.0            | -16.0  | PK        | 281     | 1.11   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4: Radiated Bandedge Measurements

Date of Test: 6/6/2014 0:00  
 Test Engineer: Joseph Cadigal  
 Test Location: FT Chamber#7

Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

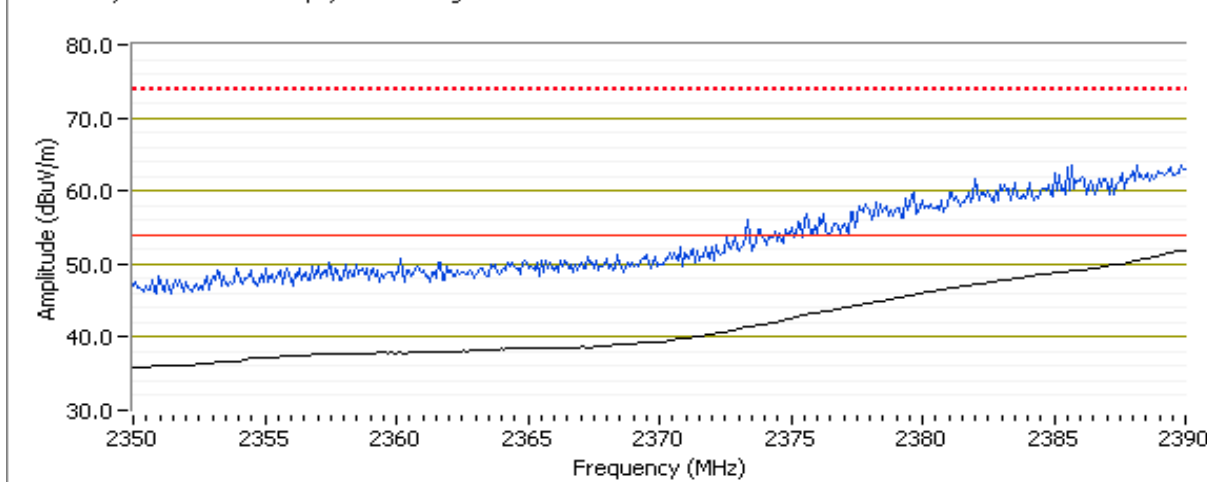
Channel: 3 Mode: n40  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 13.5           | 13.5           | 16.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2389.840  | 52.1         | H   | 54.0            | -1.9   | AVG       | 304     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2389.600  | 62.3         | H   | 74.0            | -11.7  | PK        | 304     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2389.840  | 48.3         | V   | 54.0            | -5.7   | AVG       | 276     | 1.3    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2388.880  | 59.5         | V   | 74.0            | -14.5  | PK        | 276     | 1.3    | POS; RB 1 MHz; VB: 3 MHz         |

RB 1 MHz; VB 10 Hz Blue = pk, black = avg H



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

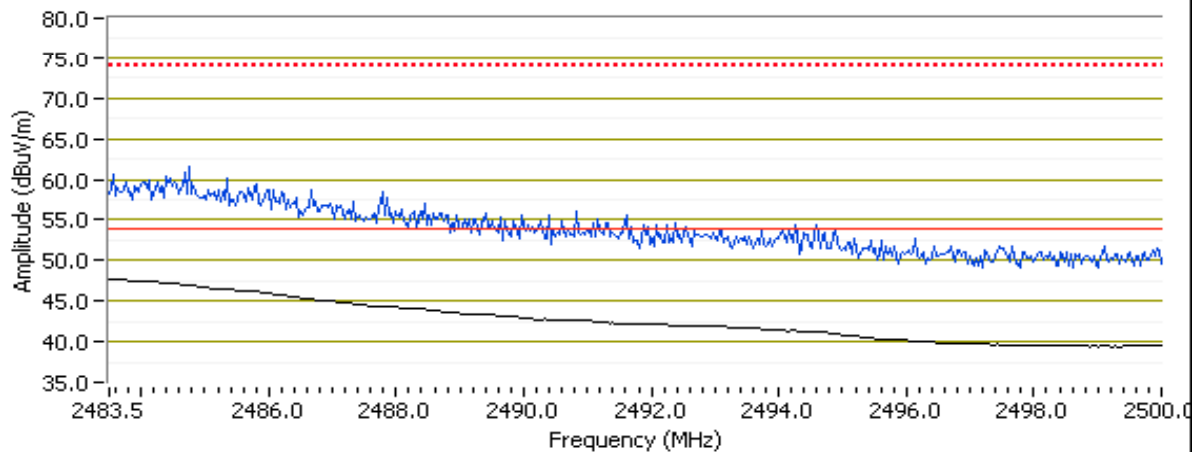
Channel: 4 Mode: n40  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | 14.4           | 17.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 51.5         | H   | 54.0            | -2.5   | AVG       | 304     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.500  | 62.3         | H   | 74.0            | -11.7  | PK        | 304     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.500  | 48.5         | V   | 54.0            | -5.5   | AVG       | 276     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.500  | 58.6         | V   | 74.0            | -15.4  | PK        | 276     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |

RB 1 MHz; VB 10 Hz Blue = pk, black = avg H



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

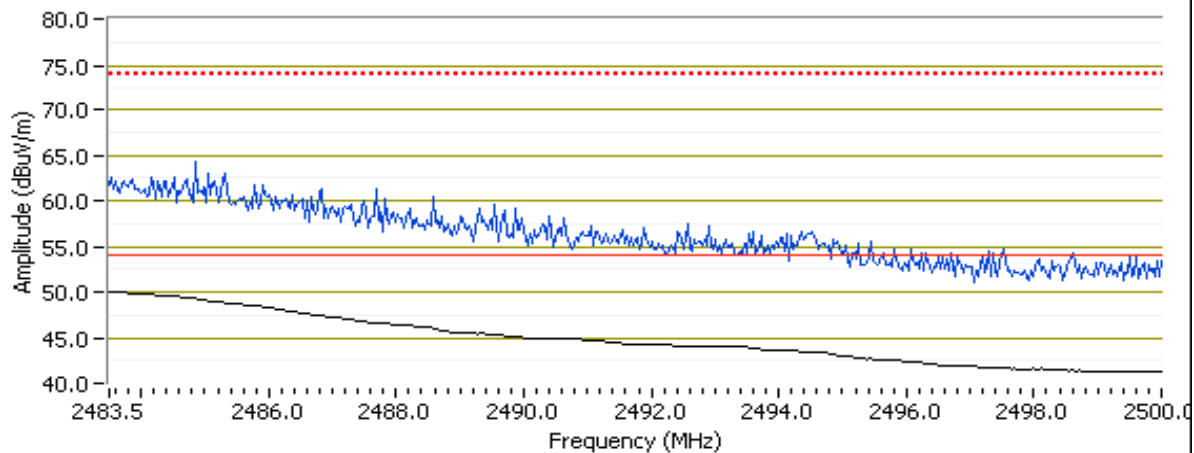
Channel: 7 Mode: n40  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | 14.5           | 17.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 50.4         | V   | 54.0            | -3.6   | AVG       | 274     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.930  | 60.7         | V   | 74.0            | -13.3  | PK        | 274     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.500  | 48.0         | H   | 54.0            | -6.0   | AVG       | 299     | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.730  | 59.8         | H   | 74.0            | -14.2  | PK        | 299     | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |

RB 1 MHz; VB 10 Hz Blue = pk, black = avg v



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

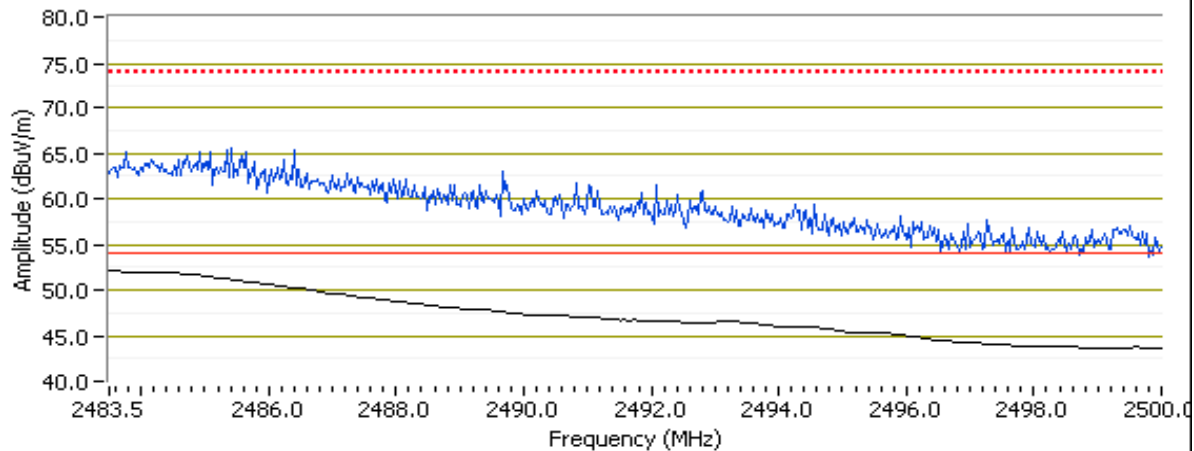
Channel: 8 Mode: n40  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 13.5           | 13.7           | 16.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.530  | 52.4   | H   | 54.0            | -1.6   | AVG       | 194     | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.100  | 65.4   | H   | 74.0            | -8.6   | PK        | 194     | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.530  | 51.5   | V   | 54.0            | -2.5   | AVG       | 275     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.670  | 62.0   | V   | 74.0            | -12.0  | PK        | 275     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |

RB 1 MHz; VB 10 Hz Blue = pk, black = avg H



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

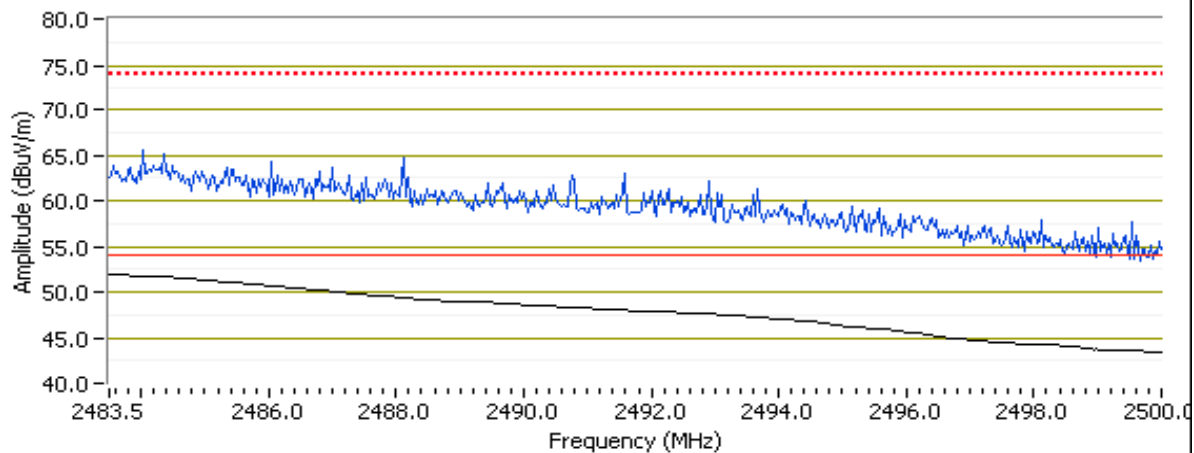
Channel: 9 Mode: n40  
 Tx Chain: A Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.8           | 15.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 52.3         | H   | 54.0            | -1.7   | AVG       | 303     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.530  | 64.9         | H   | 74.0            | -9.1   | PK        | 303     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.500  | 51.5         | V   | 54.0            | -2.5   | AVG       | 282     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.100  | 63.4         | V   | 74.0            | -10.6  | PK        | 282     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |

RB 1 MHz; VB 10 Hz Blue = pk, black = avg H



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.  
For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

### Ambient Conditions:

Temperature: 25 °C  
Rel. Humidity: 30 %

### Summary of Results - Device Operating in the 2400-2483.5 MHz Band

| Run # | Mode | Channel      | Target Power | Power Setting | Test Performed                    | Limit                        | Result / Margin                    |
|-------|------|--------------|--------------|---------------|-----------------------------------|------------------------------|------------------------------------|
| 1     | b    | 1 - 2412MHz  | 16.5         | 21.5          | Restricted Band Edge (2390 MHz)   | FCC Part 15.209 / 15.247( c) | 47.9 dBµV/m @ 2389.3 MHz (-6.1 dB) |
|       |      | 11 - 2462MHz | 16.5         | 21.0          | Restricted Band Edge (2483.5 MHz) |                              | 47.1 dBµV/m @ 2488.8 MHz (-6.9 dB) |
| 2     | g    | 1 - 2412MHz  | 14.5         | 24.0          | Restricted Band Edge (2390 MHz)   |                              | 48.0 dBµV/m @ 2390.0 MHz (-6.0 dB) |
|       |      | 2 - 2417MHz  | 15.5         | 25.0          |                                   |                              | 47.8 dBµV/m @ 2390.0 MHz (-6.2 dB) |
|       |      | 10 - 2457MHz | 15.5         | 25.0          | Restricted Band Edge (2483.5 MHz) |                              | 46.2 dBµV/m @ 2483.5 MHz (-7.8 dB) |
|       |      | 11 - 2462MHz | 12.5         | 21.5          |                                   |                              | 46.1 dBµV/m @ 2483.5 MHz (-7.9 dB) |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

| 3 | n20 | 1 -<br>2412MHz   | 14.5 | 24.0 | Restricted Band Edge<br>(2390 MHz)   | FCC Part 15.209 /<br>15.247( c)       | 49.6 dBµV/m @ 2390.0<br>MHz (-4.4 dB) |
|---|-----|------------------|------|------|--------------------------------------|---------------------------------------|---------------------------------------|
|   |     | 2 -<br>2417MHz   | 15.5 | 25.0 |                                      |                                       | 47.6 dBµV/m @ 2390.0<br>MHz (-6.4 dB) |
|   |     | 10 -<br>2457MHz  | 15.5 | 25.5 | Restricted Band Edge<br>(2483.5 MHz) |                                       | 47.2 dBµV/m @ 2483.6<br>MHz (-6.8 dB) |
|   |     | 11 -<br>2462MHz  | 12.5 | 22.0 |                                      |                                       | 46.7 dBµV/m @ 2483.5<br>MHz (-7.3 dB) |
| 4 | n40 | 3 -<br>2422MHz   | 13.5 | 21.5 | Restricted Band Edge<br>(2390 MHz)   |                                       | 53.0 dBµV/m @ 2390.0<br>MHz (-1.0 dB) |
|   |     | 4 -<br>2427MHz - | 14.5 | 22.5 |                                      |                                       | 53.5 dBµV/m @ 2390.0<br>MHz (-0.5 dB) |
|   |     | 6 -<br>2437MHz   | 16.5 | 25.0 | Restricted Band Edge<br>(2483.5 MHz) |                                       | 53.4 dBµV/m @ 2483.5<br>MHz (-0.6 dB) |
|   |     | 7 -<br>2442MHz   | 13.5 | 23.0 |                                      |                                       | 51.4 dBµV/m @ 2483.5<br>MHz (-2.6 dB) |
|   |     | 8 -<br>2447MHz   | 12.5 | 22.0 |                                      | 51.8 dBµV/m @ 2483.5<br>MHz (-2.2 dB) |                                       |
|   |     | 9 -<br>2452MHz   | 11.5 | 20.5 |                                      | 49.8 dBµV/m @ 2483.5<br>MHz (-4.2 dB) |                                       |

## Modifications Made During Testing

No modifications were made to the EUT during testing

## Deviations From The Standard

No deviations were made from the requirements of the standard.

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Antenna: Skycross WiMax/WLAN



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time

Unless otherwise stated/noted, emission has duty cycle  $\geq 98\%$  and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b  | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g  | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

### Measurement Specific Notes:

|         |                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 3: | Emission has duty cycle $< 98\%$ , but constant, average measurement performed: RBW=1MHz, VBW=10Hz, peak detector, linear averaging, auto sweep, trace average 100 traces, measurement corrected by Linear Voltage correction factor |
| Note 6: | Plots of the average bandedge do not account for any duty cycle correction. Refer to the tabular results for final measurements.                                                                                                     |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Radiated Bandedge Measurements

Date of Test: 6/6/2014 0:00

Test Engineer: Joseph Cadigal

Test Location: FT Chamber#7

Config. Used: 1

Config Change: none

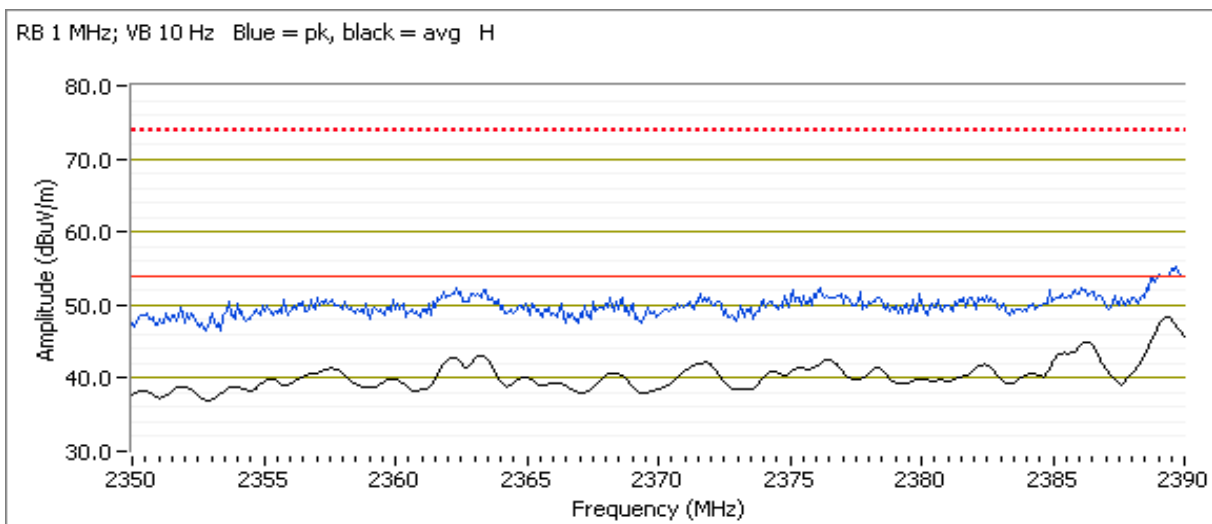
EUT Voltage: 3.3 VDC

Channel: 1 Mode: b  
 Tx Chain: B Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.6           | 21.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2389.280  | 47.9         | H   | 54.0            | -6.1   | AVG       | 172     | 1.2    | POS; RB 1 MHz; VB: 10 Hz |
| 2389.840  | 54.0         | H   | 74.0            | -20.0  | PK        | 172     | 1.2    | POS; RB 1 MHz; VB: 3 MHz |
| 2389.360  | 44.9         | V   | 54.0            | -9.1   | AVG       | 14      | 1.1    | POS; RB 1 MHz; VB: 10 Hz |
| 2371.160  | 53.3         | V   | 74.0            | -20.7  | PK        | 14      | 1.1    | POS; RB 1 MHz; VB: 3 MHz |



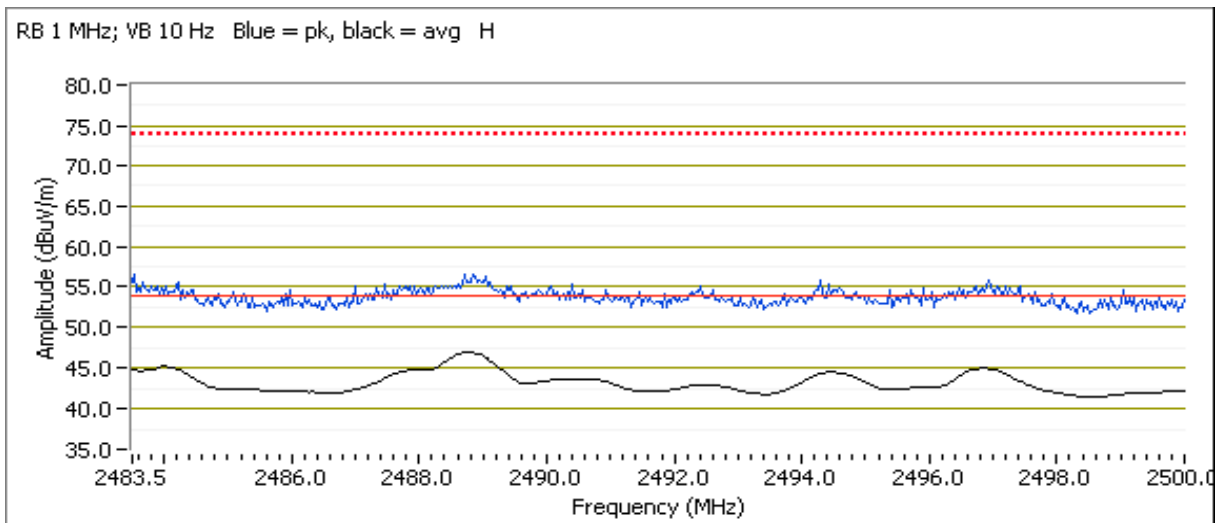
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11 Mode: b  
 Tx Chain: B Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.6           | 21.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2488.790  | 47.1         | H   | 54.0            | -6.9   | AVG       | 172     | 1.1    | POS; RB 1 MHz; VB: 10 Hz |
| 2488.430  | 55.0         | H   | 74.0            | -19.0  | PK        | 172     | 1.1    | POS; RB 1 MHz; VB: 3 MHz |
| 2488.790  | 43.2         | V   | 54.0            | -10.8  | AVG       | 20      | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 2496.990  | 52.8         | V   | 74.0            | -21.2  | PK        | 20      | 1.0    | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Radiated Bandedge Measurements

Date of Test: 6/9/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

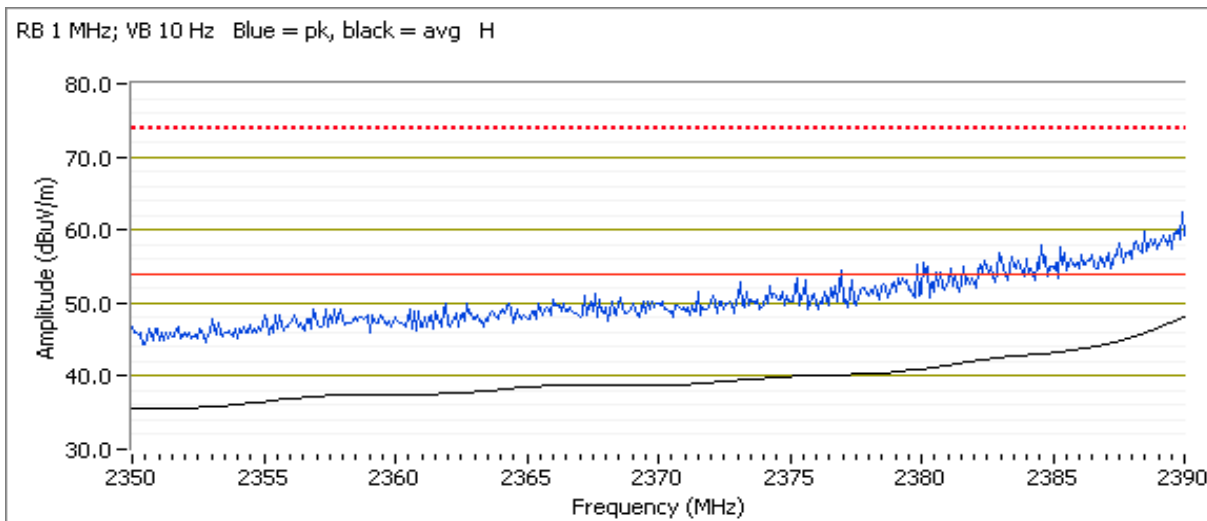
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: g  
 Tx Chain: B Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | 14.6           | 24.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 48.0   | H   | 54.0            | -6.0   | AVG       | 166     | 1.10   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.600  | 62.4   | H   | 74.0            | -11.6  | PK        | 166     | 1.10   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 44.8   | V   | 54.0            | -9.2   | AVG       | 84      | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.760  | 57.7   | V   | 74.0            | -16.3  | PK        | 84      | 1.00   | POS; RB 1 MHz; VB: 3 MHz |



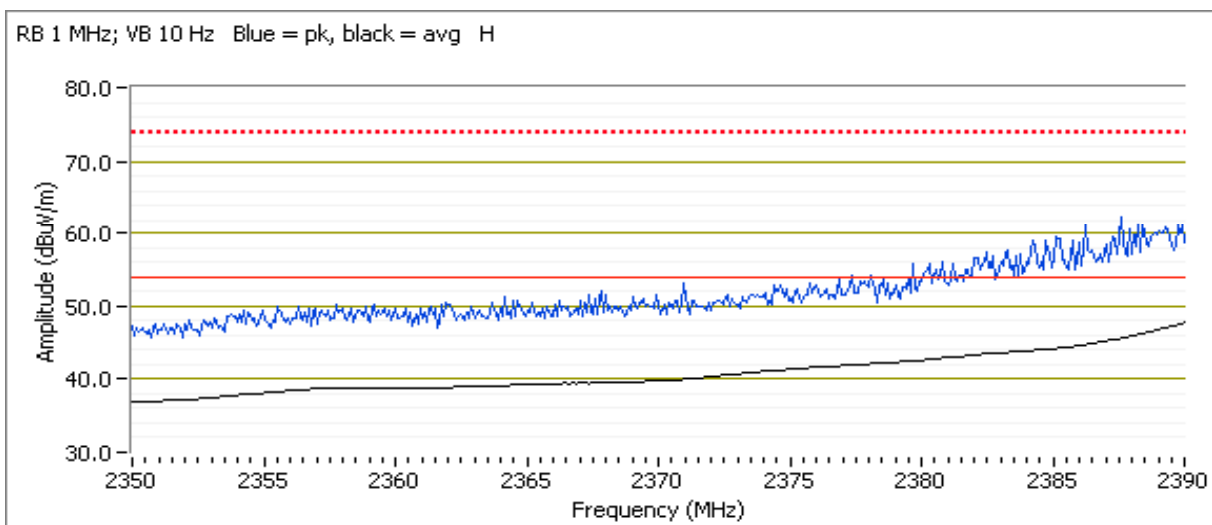
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 2                      Mode: g  
 Tx Chain: B                    Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.7           | 25.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 47.8         | H   | 54.0            | -6.2   | AVG       | 193     | 1.00   | POS; RB 1 MHz; VB: 10 Hz |
| 2385.670  | 64.7         | H   | 74.0            | -9.3   | PK        | 193     | 1.00   | POS; RB 1 MHz; VB: 3 MHz |



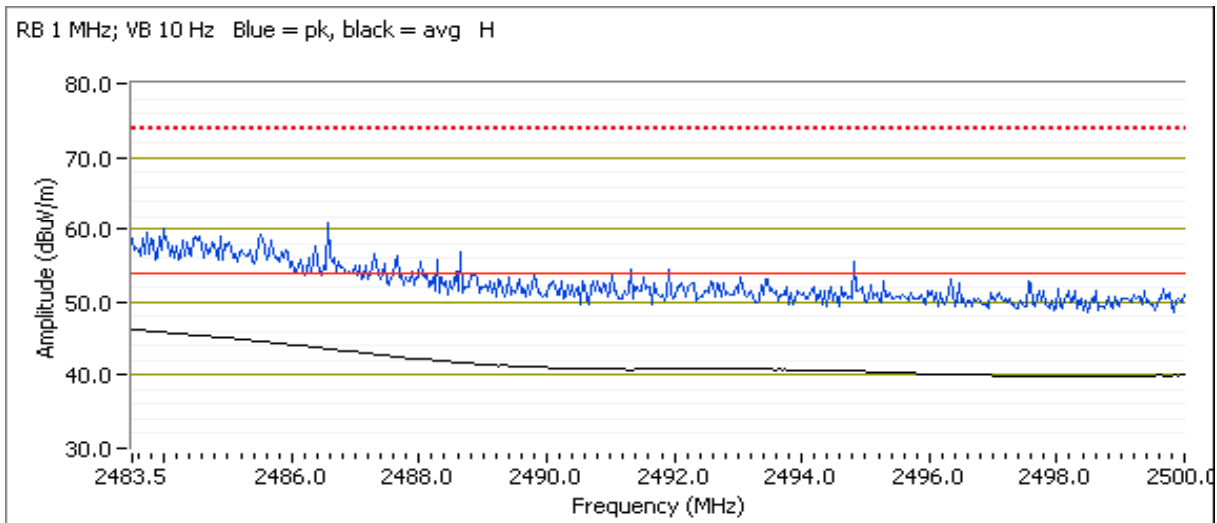
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 10 Mode: g  
 Tx Chain: B Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.5           | 25.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.530  | 46.2         | H   | 54.0            | -7.8   | AVG       | 170     | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.950  | 61.6         | H   | 74.0            | -12.4  | PK        | 170     | 1.11   | POS; RB 1 MHz; VB: 3 MHz |



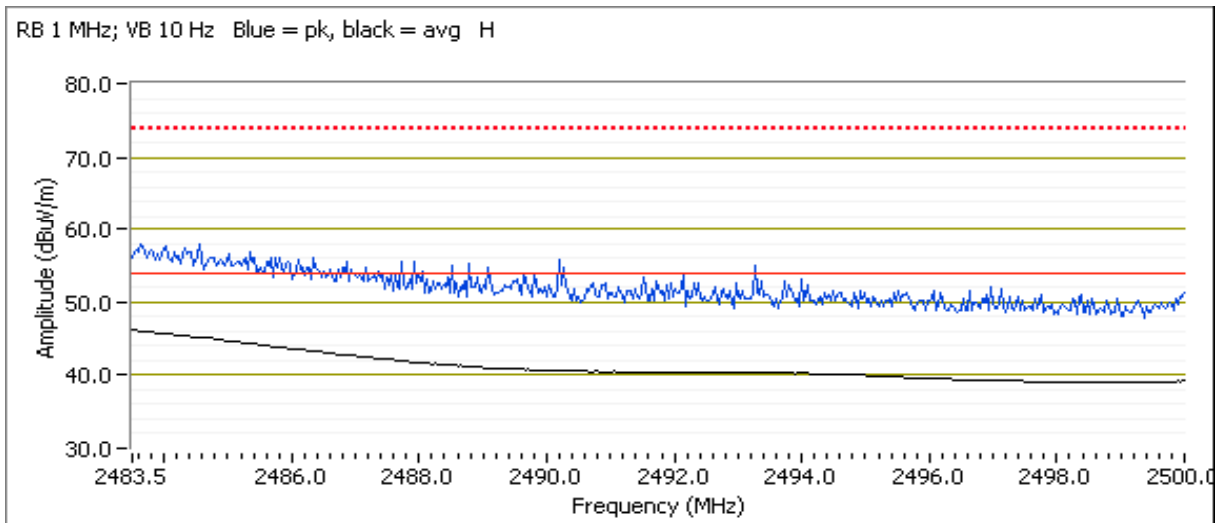
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11      Mode: g  
 Tx Chain: B      Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.4           | 21.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.500  | 46.1         | H   | 54.0            | -7.9   | AVG       | 164     | 1.10   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.760  | 61.2         | H   | 74.0            | -12.8  | PK        | 164     | 1.10   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3: Radiated Bandedge Measurements

Date of Test: 6/9/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

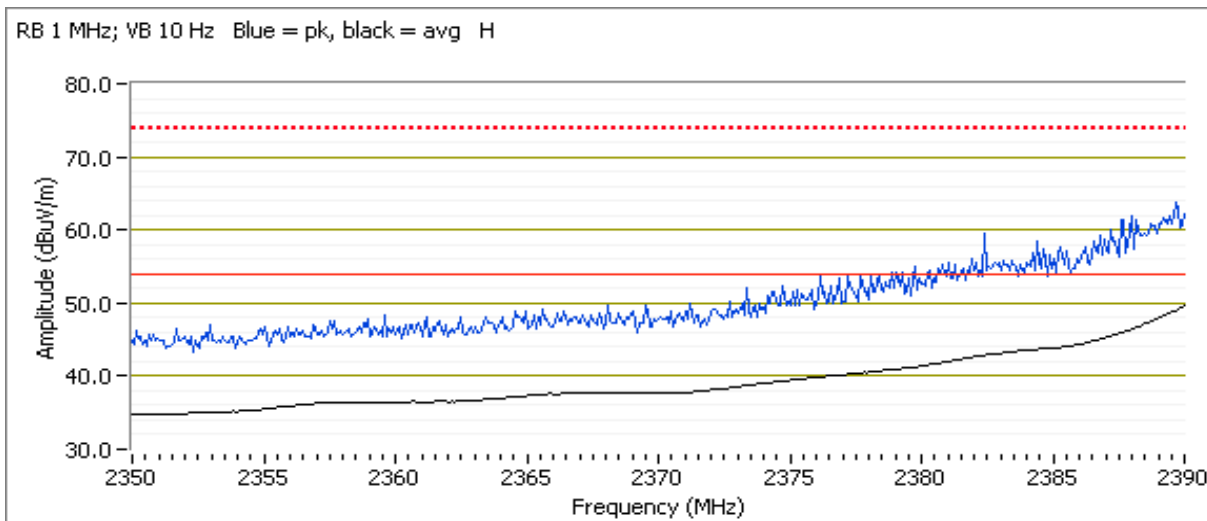
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: n20  
 Tx Chain: B Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | 14.8           | 24.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 49.6         | H   | 54.0            | -4.4   | AVG       | 162     | 1.14   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.120  | 63.2         | H   | 74.0            | -10.8  | PK        | 162     | 1.14   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 48.6         | V   | 54.0            | -5.4   | AVG       | 98      | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2388.320  | 63.4         | V   | 74.0            | -10.6  | PK        | 98      | 1.11   | POS; RB 1 MHz; VB: 3 MHz |



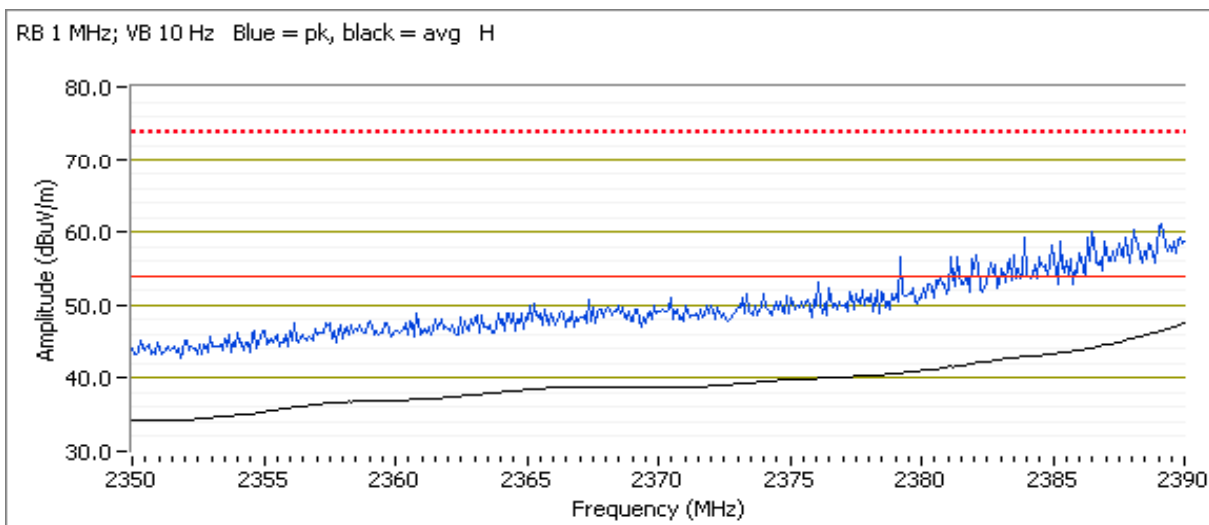
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 2                      Mode: n20  
 Tx Chain: B                    Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.6           | 25.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 47.6         | H   | 54.0            | -6.4   | AVG       | 161     | 1.11   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.760  | 62.0         | H   | 74.0            | -12.0  | PK        | 161     | 1.11   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 45.9         | V   | 54.0            | -8.1   | AVG       | 98      | 1.09   | POS; RB 1 MHz; VB: 10 Hz |
| 2388.080  | 61.1         | V   | 74.0            | -12.9  | PK        | 98      | 1.09   | POS; RB 1 MHz; VB: 3 MHz |



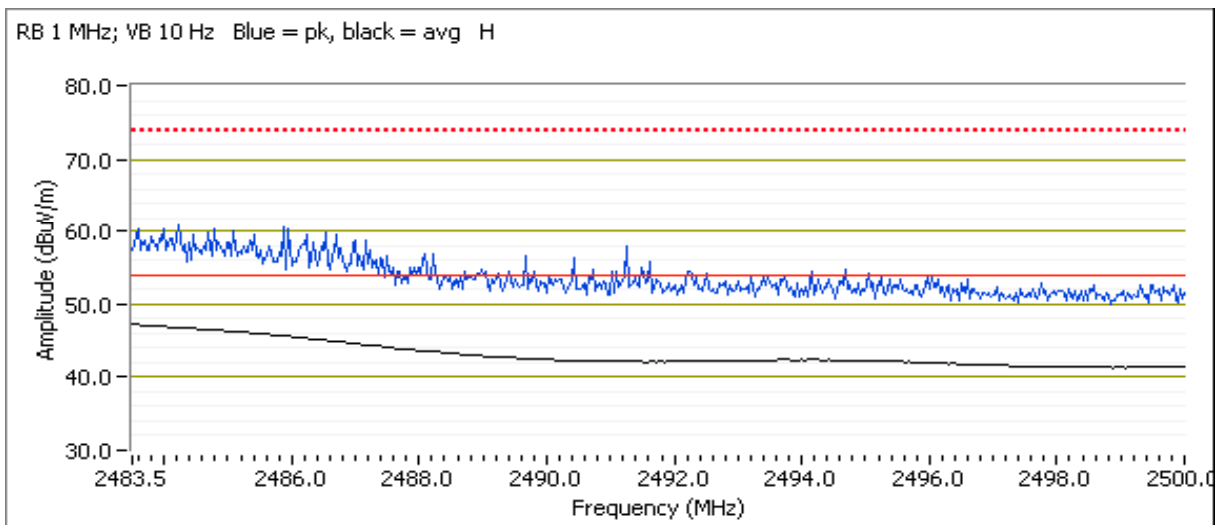
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 10      Mode: n20  
 Tx Chain: B      Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 15.5           | 15.7           | 25.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.570  | 47.2         | H   | 54.0            | -6.8   | AVG       | 167     | 1.10   | POS; RB 1 MHz; VB: 10 Hz |
| 2486.510  | 60.3         | H   | 74.0            | -13.7  | PK        | 167     | 1.10   | POS; RB 1 MHz; VB: 3 MHz |



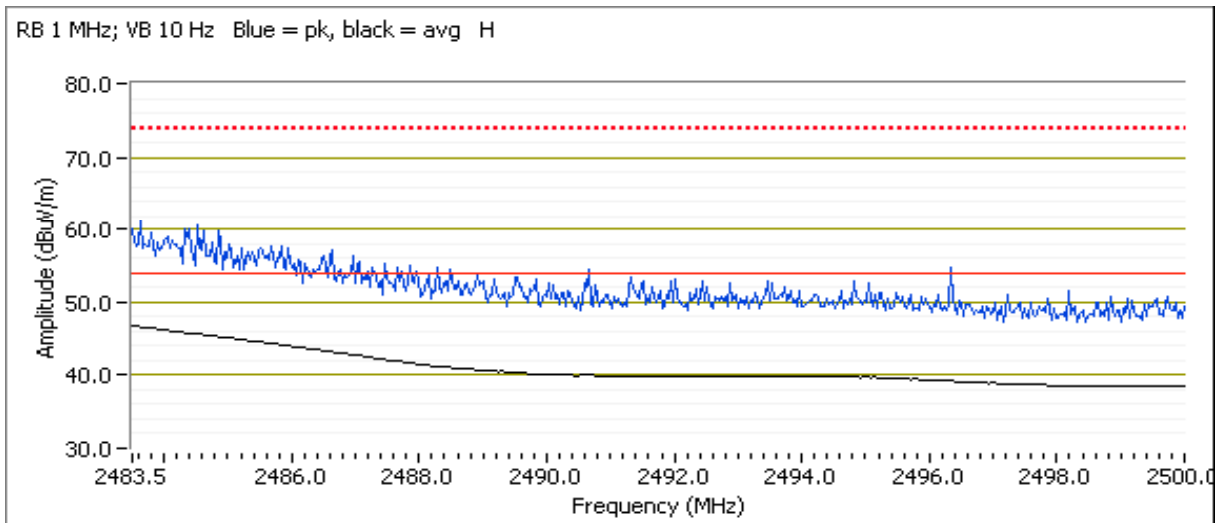
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 11      Mode: n20  
 Tx Chain: B      Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.8           | 22.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.500  | 46.7         | H   | 54.0            | -7.3   | AVG       | 162     | 1.10   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.000  | 61.0         | H   | 74.0            | -13.0  | PK        | 162     | 1.10   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4: Radiated Bandedge Measurements

Date of Test: 6/9/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

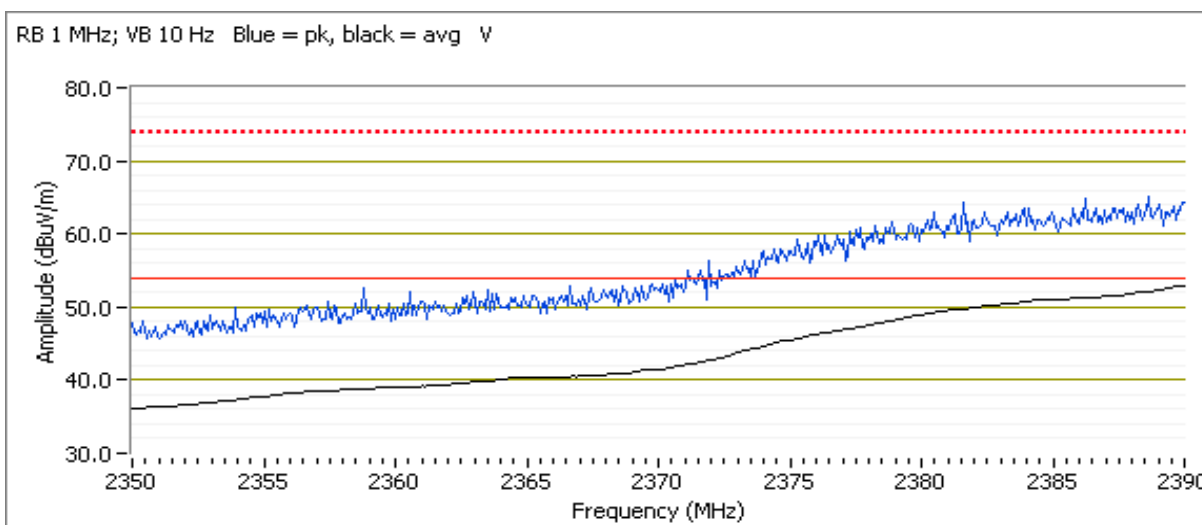
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 3                      Mode: n40  
 Tx Chain: B                    Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 13.5           | 13.5           | 21.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2390.000  | 53.0   | V   | 54.0            | -1.0   | AVG       | 98      | 1.09   | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2389.760  | 66.5   | V   | 74.0            | -7.5   | PK        | 98      | 1.09   | POS; RB 1 MHz; VB: 3 MHz         |
| 2390.000  | 52.6   | H   | 54.0            | -1.4   | AVG       | 165     | 1.14   | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2388.400  | 65.0   | H   | 74.0            | -9.0   | PK        | 165     | 1.14   | POS; RB 1 MHz; VB: 3 MHz         |



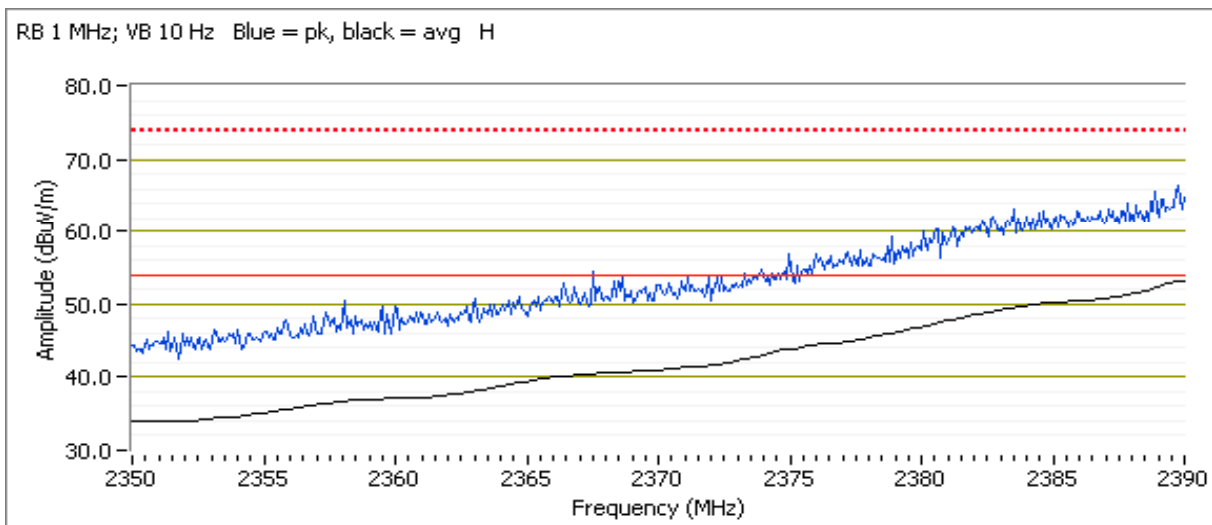
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 4                      Mode: n40  
 Tx Chain: B                    Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | -              | 22.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2390.000  | 53.5         | H   | 54.0            | -0.5   | AVG       | 166     | 1.13   | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2389.600  | 66.7         | H   | 74.0            | -7.3   | PK        | 166     | 1.13   | POS; RB 1 MHz; VB: 3 MHz         |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Date of Test: 6/9/2014 0:00  
 Test Engineer: Jack Liu  
 Test Location: Chamber 7

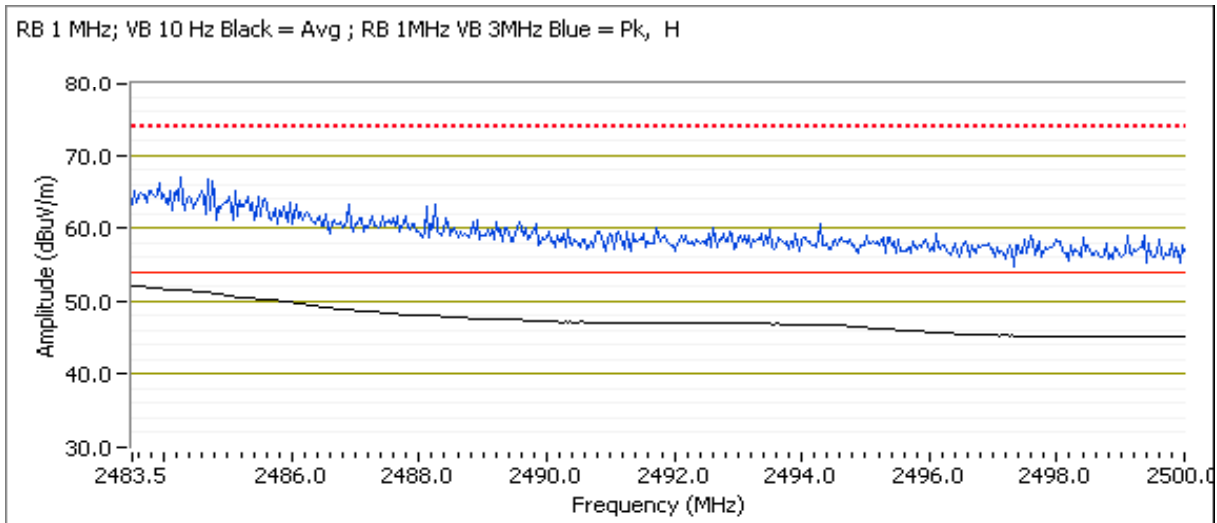
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 6 Mode: n40  
 Tx Chain: B Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 15.2           | 25.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 53.4         | H   | 54.0            | -0.6   | AVG       | 171     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2483.960  | 67.9         | H   | 74.0            | -6.1   | PK        | 171     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Date of Test: 6/9/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

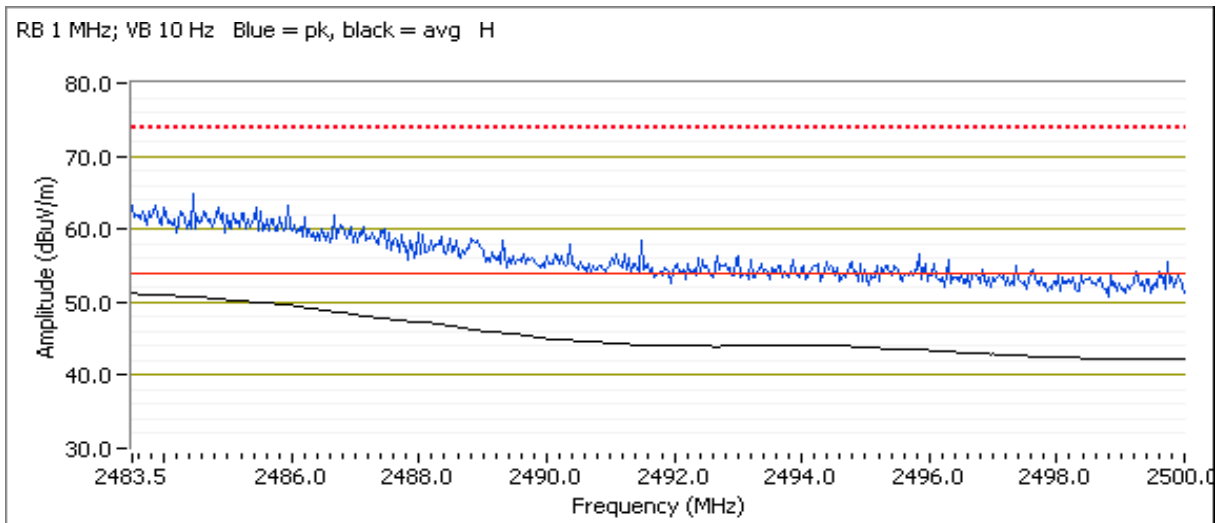
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 7 Mode: n40  
 Tx Chain: B Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 13.5           | 13.7           | 23.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 51.4         | H   | 54.0            | -2.6   | AVG       | 170     | 1.12   | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.920  | 64.6         | H   | 74.0            | -9.4   | PK        | 170     | 1.12   | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.530  | 48.0         | V   | 54.0            | -6.0   | AVG       | 76      | 1.00   | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.290  | 60.8         | V   | 74.0            | -13.2  | PK        | 76      | 1.00   | POS; RB 1 MHz; VB: 3 MHz         |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Date of Test: 6/9/2014 0:00  
 Test Engineer: Jack Liu  
 Test Location: Chamber 7

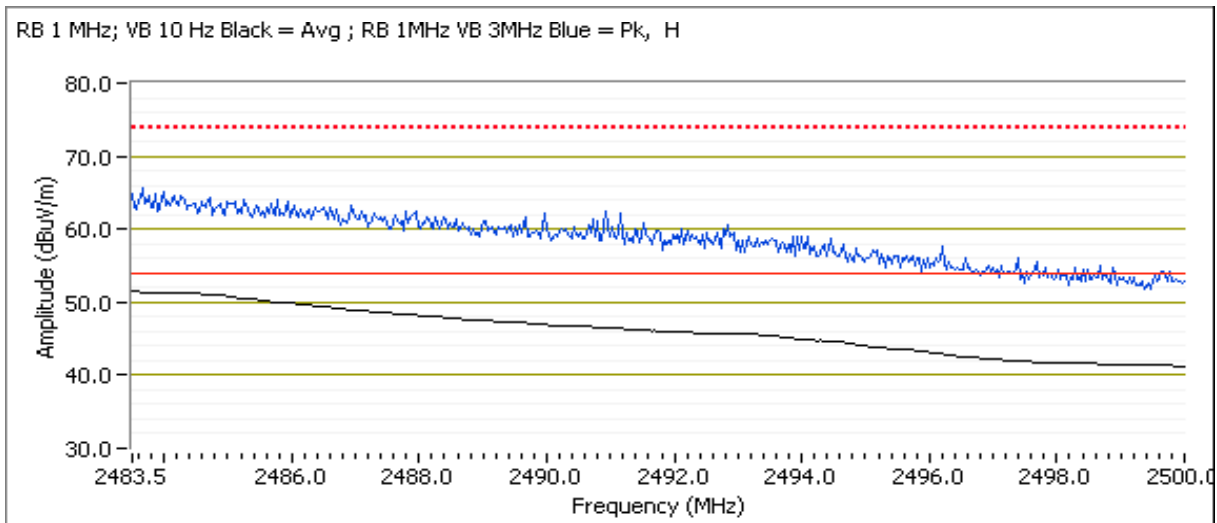
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 8 Mode: n40  
 Tx Chain: B Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 12.5           | 12.7           | 22.0             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 51.8         | H   | 54.0            | -2.2   | AVG       | 176     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.720  | 65.3         | H   | 74.0            | -8.7   | PK        | 176     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.570  | 46.9         | V   | 54.0            | -7.1   | AVG       | 74      | 1.8    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2485.420  | 59.5         | V   | 74.0            | -14.5  | PK        | 74      | 1.8    | POS; RB 1 MHz; VB: 3 MHz         |



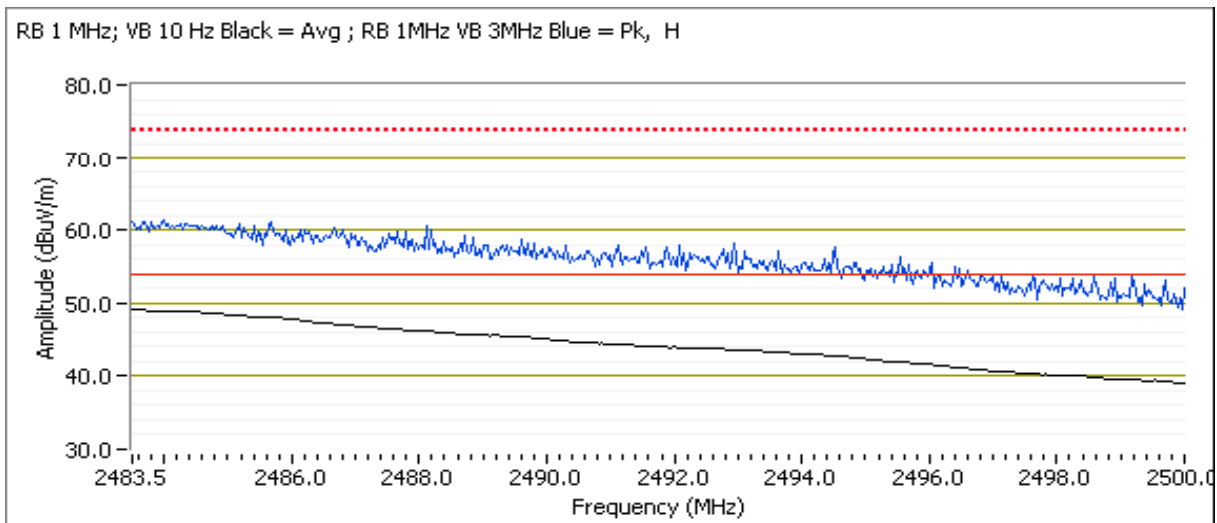
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 9                      Mode: n40  
 Tx Chain: B                    Data Rate: HT0

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 11.5           | 11.4           | 20.5             |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 49.8   | H   | 54.0            | -4.2   | AVG       | 179     | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.130  | 61.7   | H   | 74.0            | -12.3  | PK        | 179     | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.500  | 47.0   | V   | 54.0            | -7.0   | AVG       | 62      | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 3 |
| 2484.360  | 59.7   | V   | 74.0            | -14.3  | PK        | 62      | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |





## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

#### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

#### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.  
For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

#### Ambient Conditions:

Temperature: 24 °C  
Rel. Humidity: 35 %

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Summary of Results - Device Operating in the 2400-2483.5 MHz Band

| Run # | Mode | Channel       | Target Power | Power Setting | Test Performed                    | Limit                              | Result / Margin                    |
|-------|------|---------------|--------------|---------------|-----------------------------------|------------------------------------|------------------------------------|
| 1     | n20  | 1 - 2412MHz   | 12.0, 12.0   | 16.0<br>21.5  | Restricted Band Edge (2390 MHz)   | FCC Part 15.209 / 15.247( c)       | 50.7 dBµV/m @ 2389.9 MHz (-3.3 dB) |
|       |      | 2 - 2417MHz   | 13.5, 13.5   | 17.0<br>22.5  |                                   |                                    | 49.4 dBµV/m @ 2390.0 MHz (-4.6 dB) |
|       |      | 3 - 2422MHz   | 17.5, 17.5   | 23.0<br>28.0  |                                   |                                    | 52.8 dBµV/m @ 2389.7 MHz (-1.2 dB) |
|       |      | 9 - 2452MHz   | 17.5, 17.5   | 21.5<br>27.0  | Restricted Band Edge (2483.5 MHz) |                                    | 52.9 dBµV/m @ 2483.5 MHz (-1.1 dB) |
|       |      | 10 - 2457MHz  | 13.5, 13.5   | 16.0<br>21.5  |                                   |                                    | 49.2 dBµV/m @ 2483.6 MHz (-4.8 dB) |
|       |      | 11 - 2462MHz  | 12.0, 12.0   | 16.5<br>21.0  |                                   |                                    | 52.8 dBµV/m @ 2483.5 MHz (-1.2 dB) |
| 2     | n40  | 3 - 2422MHz   | 9.5, 9.5     | 14.0<br>19.5  | Restricted Band Edge (2390 MHz)   | 47.4 dBµV/m @ 2389.9 MHz (-6.6 dB) |                                    |
|       |      | 4 - 2427MHz - | 11.5, 11.5   | 15.5<br>21.0  |                                   | 49.1 dBµV/m @ 2389.4 MHz (-4.9 dB) |                                    |
|       |      | 7 - 2442MHz   | 11.5, 11.5   | 9.5<br>20.0   | Restricted Band Edge (2483.5 MHz) | 52.2 dBµV/m @ 2483.5 MHz (-1.8 dB) |                                    |
|       |      | 8 - 2447MHz   | 10.5, 10.5   | 15.0<br>21.0  |                                   | 52.9 dBµV/m @ 2483.5 MHz (-1.1 dB) |                                    |
|       |      | 9 - 2452MHz   | 9.5, 9.5     | 13.5<br>19.5  |                                   | 53.0 dBµV/m @ 2483.5 MHz (-1.0 dB) |                                    |
|       |      |               |              |               |                                   |                                    |                                    |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Modifications Made During Testing

No modifications were made to the EUT during testing

## Deviations From The Standard

No deviations were made from the requirements of the standard.

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Antenna: Skycross WiMax/WLAN

## Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time

Unless otherwise stated/noted, emission has duty cycle  $\geq 98\%$  and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |

## Measurement Specific Notes:

|         |                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Emission has duty cycle $< 98\%$ , but constant, average measurement performed: RBW=1MHz, VBW=10Hz, peak detector, linear averaging, auto sweep, trace average 100 traces, measurement corrected by Linear Voltage correction factor |
| Note 2: | Plots of the average bandedge do not account for any duty cycle correction. Refer to the tabular results for final measurements.                                                                                                     |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Radiated Bandedge Measurements

Date of Test: 6/10/2014 0:00  
 Test Engineer: John Caizzi  
 Test Location: Chamber 7

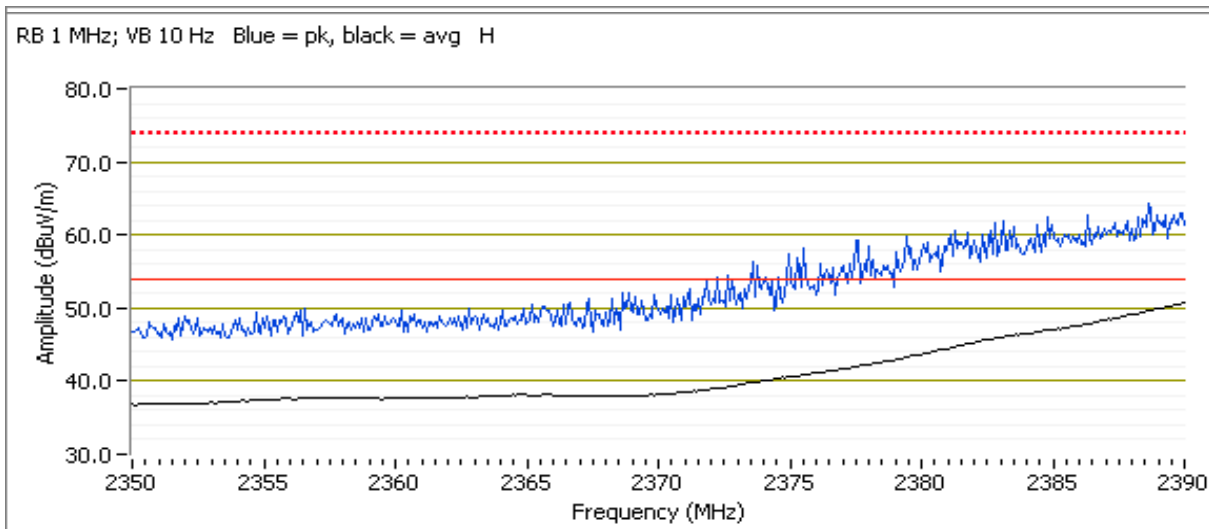
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 1 Mode: n20  
 Tx Chain: Both Data Rate: HT0

|       | Power Settings |      |   |       |                |      |   |       |                  |
|-------|----------------|------|---|-------|----------------|------|---|-------|------------------|
|       | Target (dBm)   |      |   |       | Measured (dBm) |      |   |       | Software Setting |
| Chain | A              | B    | C | Total | A              | B    | C | Total |                  |
|       | 12.0           | 12.0 |   | 15.0  | 12.0           | 12.2 |   | 15.1  | 16.0, 21.5       |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2389.920  | 50.7         | H   | 54.0            | -3.3   | AVG       | 71      | 1.27   | POS; RB 1 MHz; VB: 10 Hz |
| 2388.160  | 64.0         | H   | 74.0            | -10.0  | PK        | 71      | 1.27   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 45.9         | V   | 54.0            | -8.1   | AVG       | 212     | 2.41   | POS; RB 1 MHz; VB: 10 Hz |
| 2384.150  | 59.2         | V   | 74.0            | -14.8  | PK        | 212     | 2.41   | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

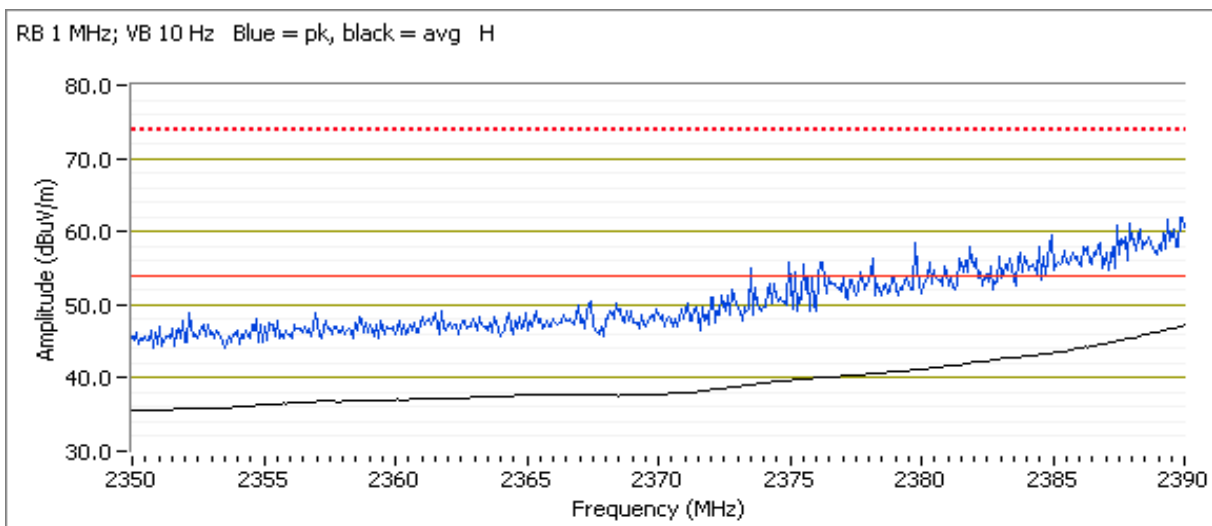
Channel: 2                      Mode: n20  
 Tx Chain: Both                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 13.5         | 13.5 |   | 16.5  | 13.5                          | 13.6 |   |       |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2390.000  | 47.2   | H   | 54.0            | -6.8   | AVG       | 69      | 1.27   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.600  | 61.2   | H   | 74.0            | -12.8  | PK        | 69      | 1.27   | POS; RB 1 MHz; VB: 3 MHz |
| 2390.000  | 49.4   | V   | 54.0            | -4.6   | AVG       | 149     | 1.26   | POS; RB 1 MHz; VB: 10 Hz |
| 2389.440  | 62.9   | V   | 74.0            | -11.1  | PK        | 149     | 1.26   | POS; RB 1 MHz; VB: 3 MHz |

Note 7 The setting .5 dB below target gave a result higher than .5 dB below limit.



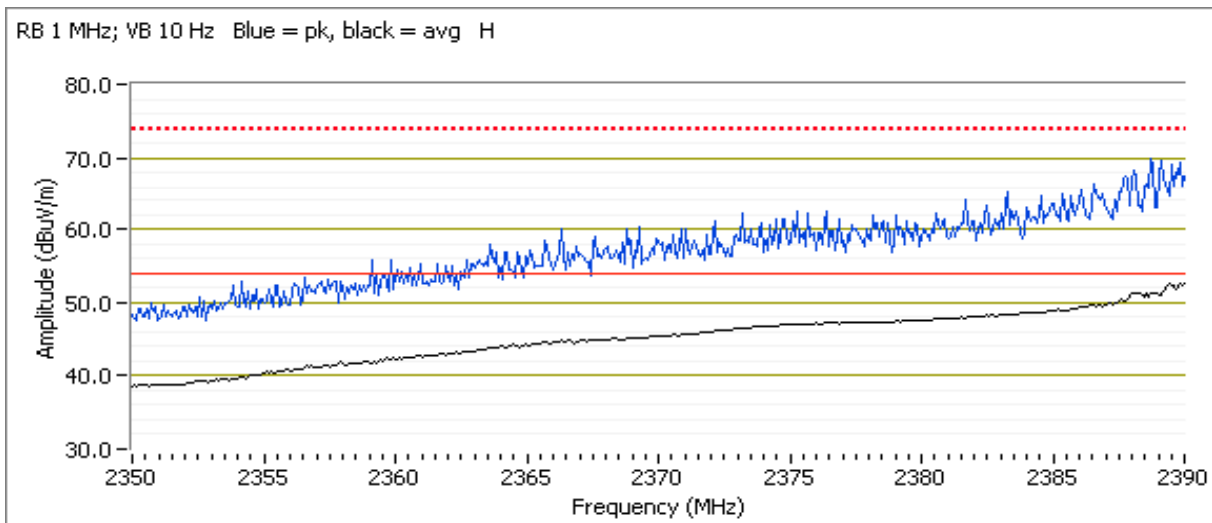
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 3                      Mode: n20  
 Tx Chain: Both                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 17.5         | 17.5 |   | 20.5  | 17.3                          | 17.5 |   |       |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2389.680  | 52.8         | H   | 54.0            | -1.2   | AVG       | 216     | 1.19   | POS; RB 1 MHz; VB: 10 Hz |
| 2386.470  | 71.1         | H   | 74.0            | -2.9   | PK        | 216     | 1.19   | POS; RB 1 MHz; VB: 3 MHz |



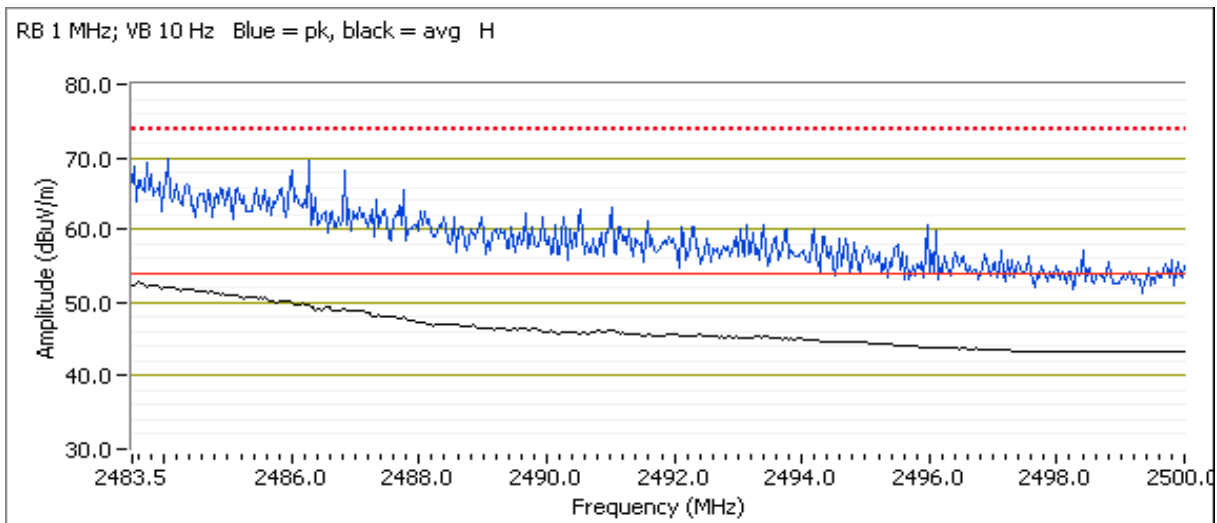
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 9                      Mode: n20  
 Tx Chain: Both                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 17.5         | 17.5 |   | 20.5  | 17.5                          | 17.6 |   |       |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.530  | 52.9   | H   | 54.0            | -1.1   | AVG       | 172     | 1.15   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.000  | 69.3   | H   | 74.0            | -4.7   | PK        | 172     | 1.15   | POS; RB 1 MHz; VB: 3 MHz |



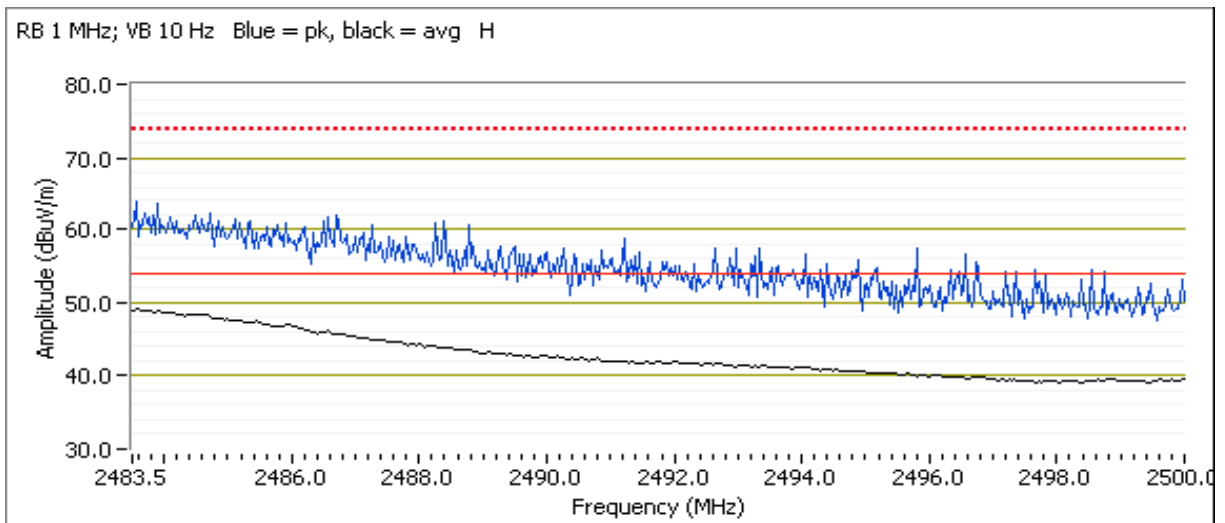
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 10                      Mode: n20  
 Tx Chain: Both                  Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 13.5         | 13.5 |   | 16.5  | 13.5                          | 13.5 |   |       |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.600  | 49.2   | H   | 54.0            | -4.8   | AVG       | 174     | 1.17   | POS; RB 1 MHz; VB: 10 Hz |
| 2484.290  | 63.5   | H   | 74.0            | -10.5  | PK        | 174     | 1.17   | POS; RB 1 MHz; VB: 3 MHz |



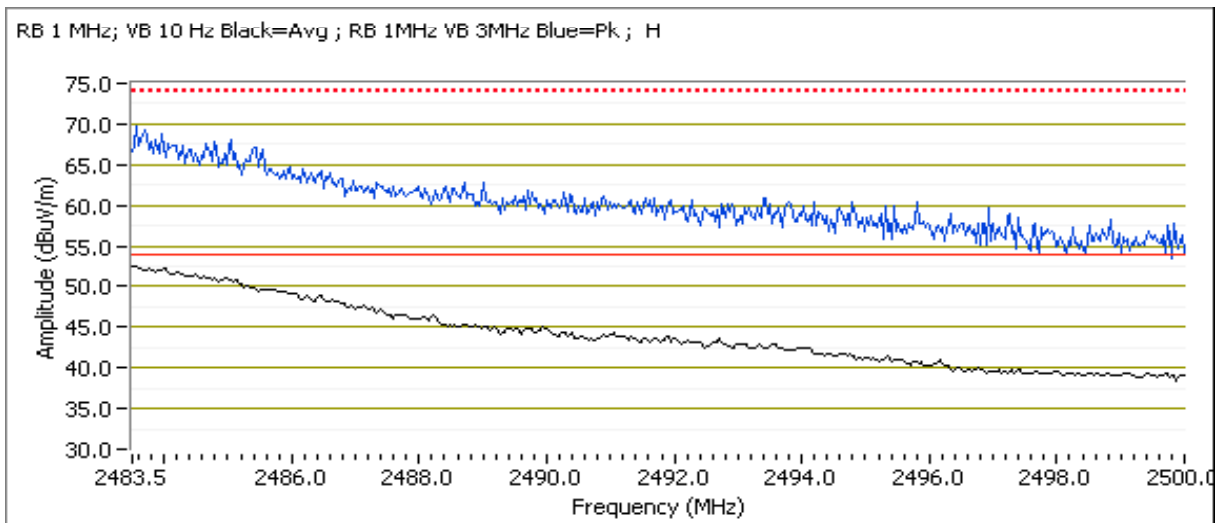
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

|                |                |                |         |
|----------------|----------------|----------------|---------|
| Date of Test:  | 6/10/2014 0:00 | Config. Used:  | 1       |
| Test Engineer: | Jack Liu       | Config Change: | none    |
| Test Location: | Chamber 7      | EUT Voltage:   | 3.3 VDC |
| Channel:       | 11             | Mode:          | n20     |
| Tx Chain:      | Both           | Data Rate:     | HT0     |

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 12.0         | 12.0 |   | 15.0  | 12.0                          | 10.3 |   | 14.2  |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2483.530  | 52.8         | H   | 54.0            | -1.2   | AVG       | 176     | 1.1    | POS; RB 1 MHz; VB: 10 Hz |
| 2483.630  | 68.1         | H   | 74.0            | -5.9   | PK        | 176     | 1.1    | POS; RB 1 MHz; VB: 3 MHz |
| 2483.500  | 43.7         | V   | 54.0            | -10.3  | AVG       | 20      | 1.4    | POS; RB 1 MHz; VB: 10 Hz |
| 2483.530  | 59.2         | V   | 74.0            | -14.8  | PK        | 20      | 1.4    | POS; RB 1 MHz; VB: 3 MHz |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2: Radiated Bandedge Measurements

Date of Test: 6/10/2014 0:00  
 Test Engineer: Joseph Cadigal  
 Test Location: FT Chamber#7

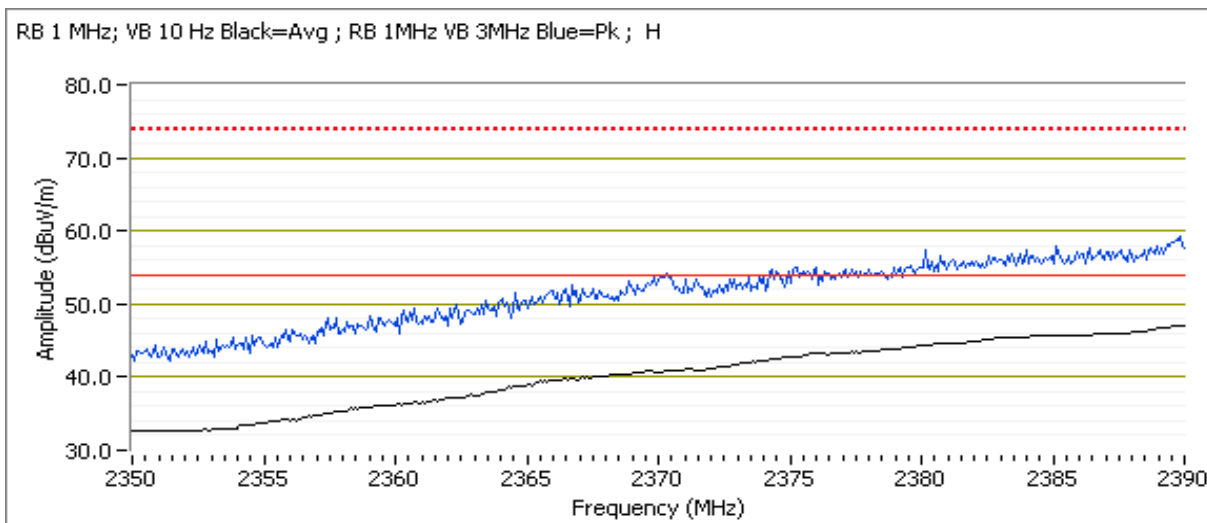
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Channel: 3 Mode: n40  
 Tx Chain: Both Data Rate: HT0

| Chain | Target (dBm) |     |   |       | Power Settings Measured (dBm) |     |   |       | Software Setting |
|-------|--------------|-----|---|-------|-------------------------------|-----|---|-------|------------------|
|       | A            | B   | C | Total | A                             | B   | C | Total |                  |
|       | 9.5          | 9.5 |   | 12.5  | 9.7                           | 9.6 |   | 12.7  | 14.0, 19.5       |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2389.920  | 47.4         | H   | 54.0            | -6.6   | AVG       | 221     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2389.440  | 57.6         | H   | 74.0            | -16.4  | PK        | 221     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2390.000  | 45.0         | V   | 54.0            | -9.0   | AVG       | 195     | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2389.680  | 55.8         | V   | 74.0            | -18.2  | PK        | 195     | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |



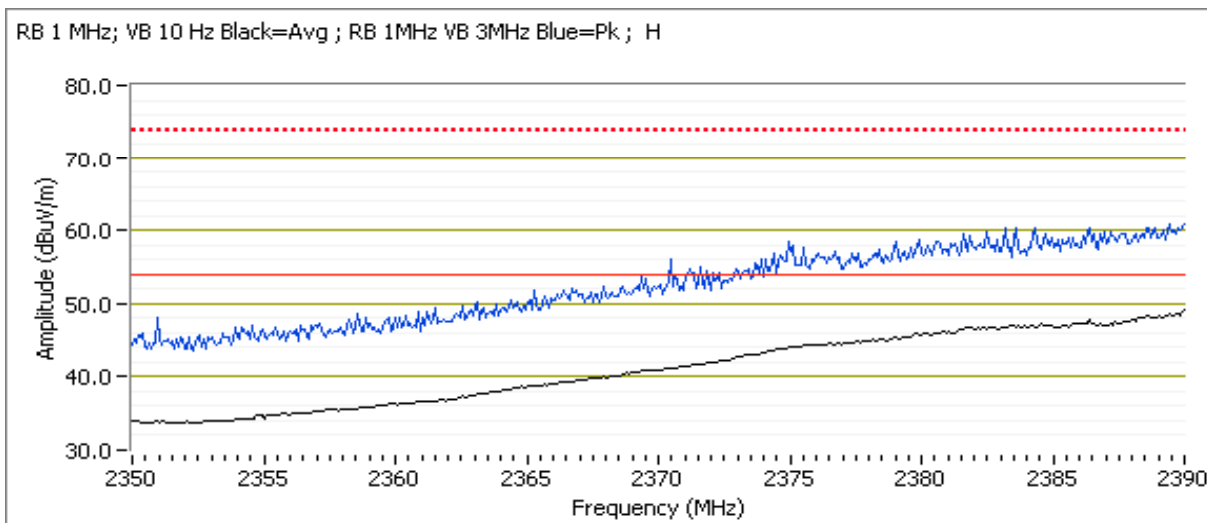
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 4                      Mode: n40  
 Tx Chain: Both                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 11.5         | 11.5 |   | 14.5  | 11.0                          | 11.0 |   | 14.0  |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dBuV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2389.360  | 49.1   | H   | 54.0            | -4.9   | AVG       | 220     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2383.750  | 59.8   | H   | 74.0            | -14.2  | PK        | 220     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2390.000  | 43.2   | V   | 54.0            | -11.0  | AVG       | 248     | 2.3    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2389.280  | 52.7   | V   | 74.0            | -21.3  | PK        | 248     | 2.3    | POS; RB 1 MHz; VB: 3 MHz         |



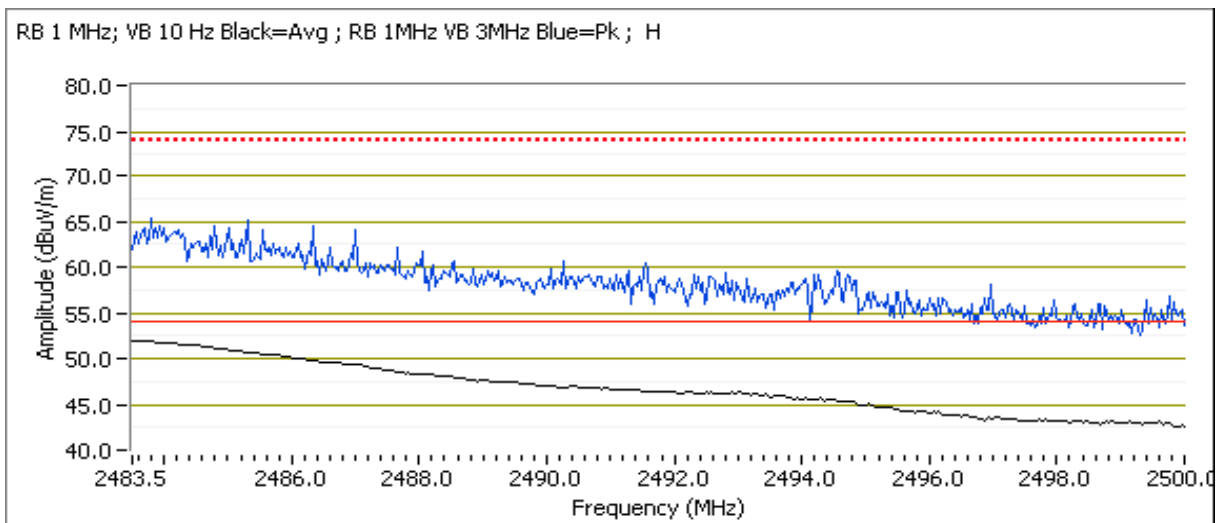
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 7      Mode: n40  
 Tx Chain: Both      Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 11.5         | 11.5 |   | 14.5  | 9.5                           | 11.0 |   | 13.3  | 14.0, 20.0       |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 52.2         | H   | 54.0            | -1.8   | AVG       | 172     | 1.2    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2484.360  | 62.8         | H   | 74.0            | -14.2  | PK        | 172     | 1.2    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.530  | 43.8         | V   | 54.0            | -11.0  | AVG       | 282     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2483.700  | 58.3         | V   | 74.0            | -21.3  | PK        | 282     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |



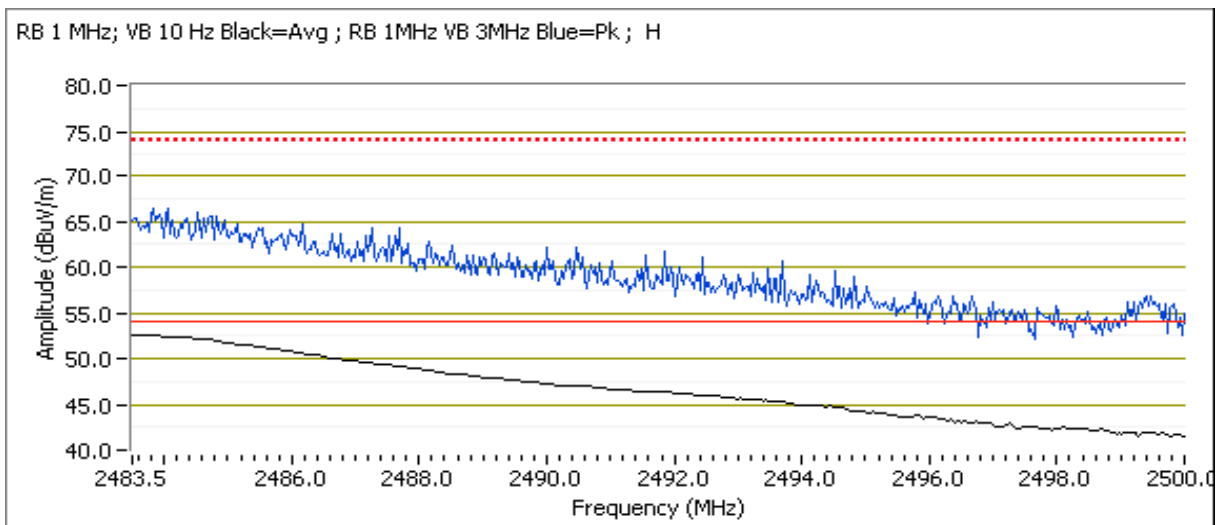
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 8                      Mode: n40  
 Tx Chain: Both                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 10.5         | 10.5 |   | 13.5  | 10.8                          | 10.8 |   | 13.8  |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 52.9         | H   | 54.0            | -1.1   | AVG       | 172     | 1.7    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2484.160  | 65.4         | H   | 74.0            | -14.2  | PK        | 172     | 1.7    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.630  | 46.4         | V   | 54.0            | -11.0  | AVG       | 282     | 1.0    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2484.560  | 59.1         | V   | 74.0            | -21.3  | PK        | 282     | 1.0    | POS; RB 1 MHz; VB: 3 MHz         |



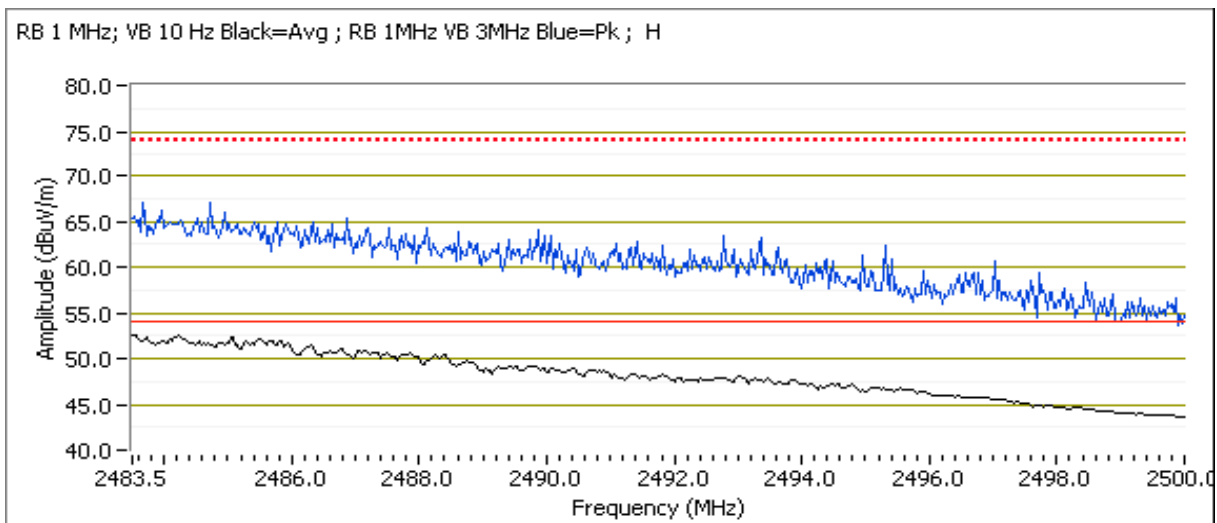
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Channel: 9 Mode: n40  
 Tx Chain: Both Data Rate: HT0

| Chain | Target (dBm) |     |   |       | Power Settings Measured (dBm) |     |   |       | Software Setting |
|-------|--------------|-----|---|-------|-------------------------------|-----|---|-------|------------------|
|       | A            | B   | C | Total | A                             | B   | C | Total |                  |
|       | 9.5          | 9.5 |   | 12.5  | 9.4                           | 9.4 |   | 12.4  |                  |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                         |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                  |
| 2483.500  | 53.0         | H   | 54.0            | -1.0   | AVG       | 169     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2484.890  | 64.8         | H   | 74.0            | -14.2  | PK        | 169     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |
| 2483.670  | 47.4         | V   | 54.0            | -11.0  | AVG       | 282     | 1.1    | POS; RB 1 MHz; VB: 10 Hz, Note 1 |
| 2484.130  | 58.7         | V   | 74.0            | -21.3  | PK        | 282     | 1.1    | POS; RB 1 MHz; VB: 3 MHz         |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

### Ambient Conditions:

Temperature: ??? °C  
 Rel. Humidity: ??? %

### Summary of Results - Device Operating in the 2400-2483.5 MHz Band

| Run # | Mode        | Channel      | Target Power | Power Setting | Test Performed                 | Limit                        | Result / Margin                     |
|-------|-------------|--------------|--------------|---------------|--------------------------------|------------------------------|-------------------------------------|
| 1     | b - Chain A | 1 - 2412MHz  | 16.5         | 15.5          | Radiated Emissions, 1 - 25 GHz | FCC Part 15.209 / 15.247( c) | 49.3 dBµV/m @ 3000.2 MHz (-4.7 dB)  |
|       |             | 7 - 2442MHz  | 17.5         | 15.0          |                                |                              | 39.5 dBµV/m @ 4884.0 MHz (-14.5 dB) |
|       |             | 11 - 2462MHz | 16.5         | 14.0          |                                |                              | 46.7 dBµV/m @ 4924.0 MHz (-7.3 dB)  |
| 2     | b - Chain B | 1 - 2412MHz  | 16.5         | 21.5          |                                |                              | 40.6 dBµV/m @ 4824.0 MHz (-13.4 dB) |
|       |             | 7 - 2442MHz  | 17.5         | 22.0          |                                |                              | 39.9 dBµV/m @ 4884.0 MHz (-14.1 dB) |
|       |             | 11 - 2462MHz | 16.5         | 21.0          |                                |                              | 42.7 dBµV/m @ 4924.0 MHz (-11.3 dB) |

Scans on center channel in all three OFDM modes to determine the worst case mode.

|   |                 |             |      |             |                                |                              |                                      |
|---|-----------------|-------------|------|-------------|--------------------------------|------------------------------|--------------------------------------|
| 3 | g - Chain A     | 7 - 2442MHz | 17.5 | 21.0        | Radiated Emissions, 1 - 25 GHz | FCC Part 15.209 / 15.247( c) | 40.3 dBµV/m @ 1599.1 MHz (-13.7 dB)  |
|   | g - Chain B     | 7 - 2442MHz | 17.5 | 27.0        |                                |                              | 39.4 dBµV/m @ 11678.9 MHz (-14.6 dB) |
|   | n20 - Chain A+B | 7 - 2442MHz | 17.5 | 23.0 / 29.0 |                                |                              | 33.4 dBµV/m @ 1598.8 MHz (-20.6 dB)  |
|   | n40 - Chain A+B | 6 - 2437MHz | 16.5 | 23.0 / 28.0 |                                |                              | 35.4 dBµV/m @ 1598.6 MHz (-18.6 dB)  |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Measurements on low and high channels in worst-case OFDM mode.

|   |                 |              |         |         |                                   |                                 |                                |
|---|-----------------|--------------|---------|---------|-----------------------------------|---------------------------------|--------------------------------|
| 4 | g - Chain B     | 1 - 2412MHz  | 14.5    | 24.0    | Radiated Emissions,<br>1 - 25 GHz | FCC Part 15.209 /<br>15.247( c) | No radio realated<br>emissions |
|   | g - Chain B     | 11 - 2462MHz | 0.0     | 8.0     |                                   |                                 | No radio realated<br>emissions |
|   | n20 - Chain A+B | 1 - 2412MHz  | 12 / 12 | 16 / 21 | Radiated Emissions,<br>1 - 25 GHz | FCC Part 15.209 /<br>15.247( c) | No radio realated<br>emissions |
|   | n20 - Chain A+B | 11 - 2462MHz | 0.0     | 4 / 8.5 |                                   |                                 | No radio realated<br>emissions |

## Modifications Made During Testing

No modifications were made to the EUT during testing

## Deviations From The Standard

No deviations were made from the requirements of the standard.

## Sample Notes

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Antenna:

## Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time.

Unless otherwise stated/noted, emission has duty cycle  $\geq 98\%$  and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

2.4GHz band reject filter used

| Mode | Data Rate | Duty Cycle (x) | Constant DC? | T (ms) | Pwr Cor Factor* | Lin Volt Cor Factor** | Min VBW for FS (Hz) |
|------|-----------|----------------|--------------|--------|-----------------|-----------------------|---------------------|
| 11b  | 1         | 0.99           | Yes          | 2.272  | 0.0             | 0.0                   | 440                 |
| 11g  | 6         | 0.99           | Yes          | 2.06   | 0.0             | 0.0                   | 485                 |
| n20  | HT0       | 0.99           | Yes          | 1.919  | 0.0             | 0.0                   | 521                 |
| n40  | HT0       | 0.97           | Yes          | 0.944  | 0.1             | 0.2                   | 1059                |



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Measurement Specific Notes:

|         |                                                                                                                                                                                                                                  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Emission in non-restricted band, but limit of 15.209 used.                                                                                                                                                                       |
| Note 2: | Emission in non-restricted band, the limit was set 20dB below the level of the fundamental and measured in 100kHz.                                                                                                               |
| Note 3: | Emission has duty cycle < 98%, but constant, average measurement performed: RBW=1MHz, VBW=10Hz, peak detector, linear averaging, auto sweep, trace average 100 traces, measurement corrected by Linear Voltage correction factor |
| Note 4: | Signal does not change with channel, not radio related, measured in run 1a.                                                                                                                                                      |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #1: Radiated Spurious Emissions, 1,000 - 25000 MHz. Operating Mode: 802.11b

Date of Test: 6/11/2014, 6/12/2014  
 Test Engineer: John Caizzi / Deniz Demirci  
 Test Location: Chamber 7

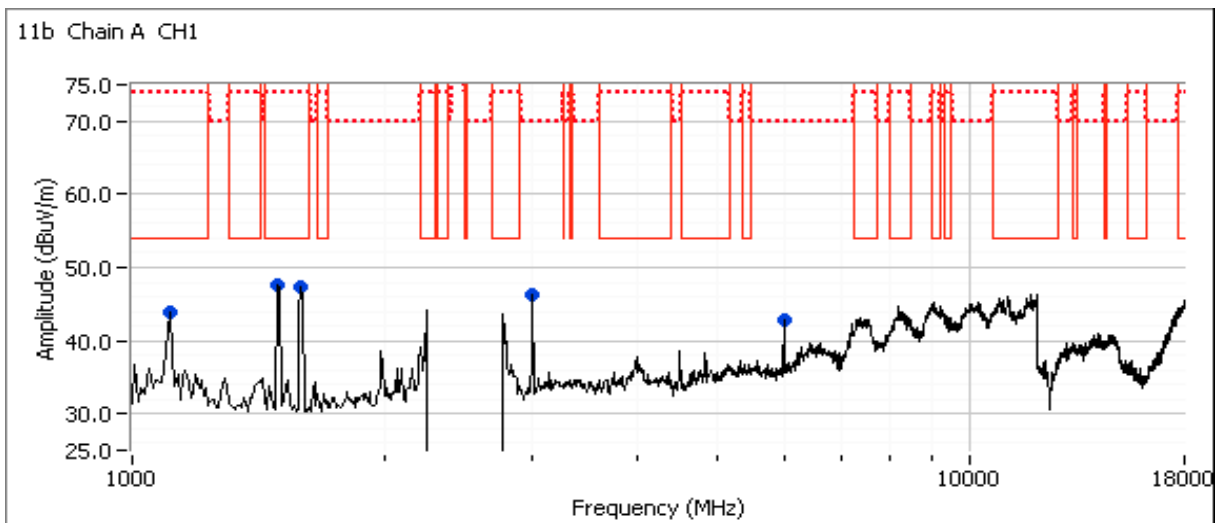
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

Run #1a: Low Channel

Channel: 1  
 Tx Chain: A  
 Mode: b  
 Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 17.7           | 15.5             |

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| 1499.200  | 44.9         | H   | 54.0            | -9.1   | AVG       | 210     | 1.25   |          |
| 1499.370  | 52.5         | H   | 74.0            | -21.5  | PK        | 210     | 1.25   |          |
| 1599.000  | 40.1         | V   | 54.0            | -13.9  | AVG       | 286     | 1.02   |          |
| 1592.170  | 56.5         | V   | 74.0            | -17.5  | PK        | 286     | 1.02   |          |
| 3000.220  | 49.3         | V   | 54.0            | -4.7   | PK        | 10      | 1.00   | Note 1   |
| 6000.450  | 45.8         | V   | 54.0            | -8.2   | PK        | 12      | 1.00   | Note 1   |



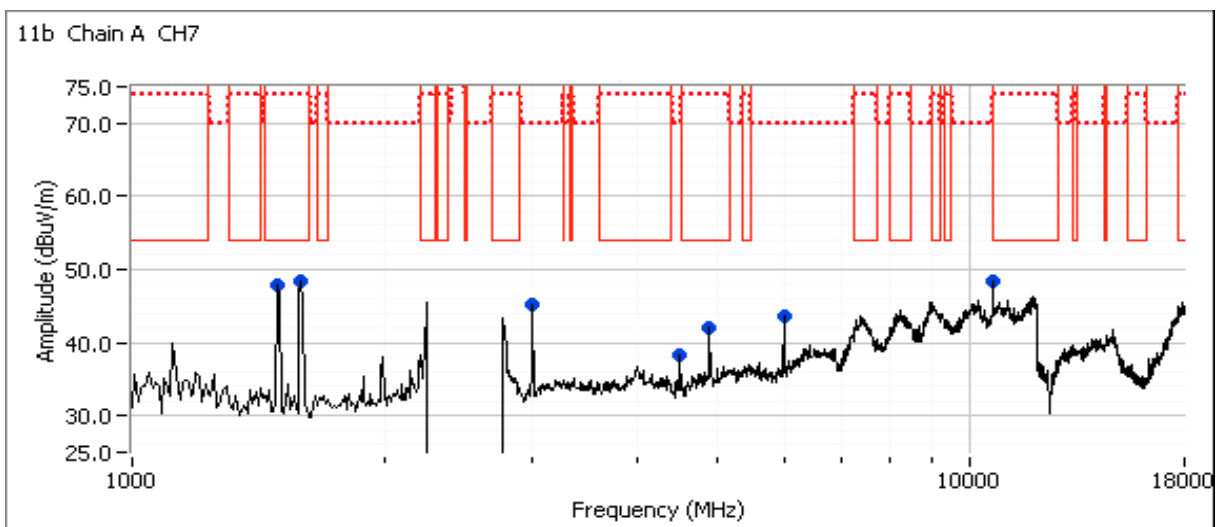
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1b: Center Channel

Channel: 7      Mode: b  
 Tx Chain: A      Data Rate: 1

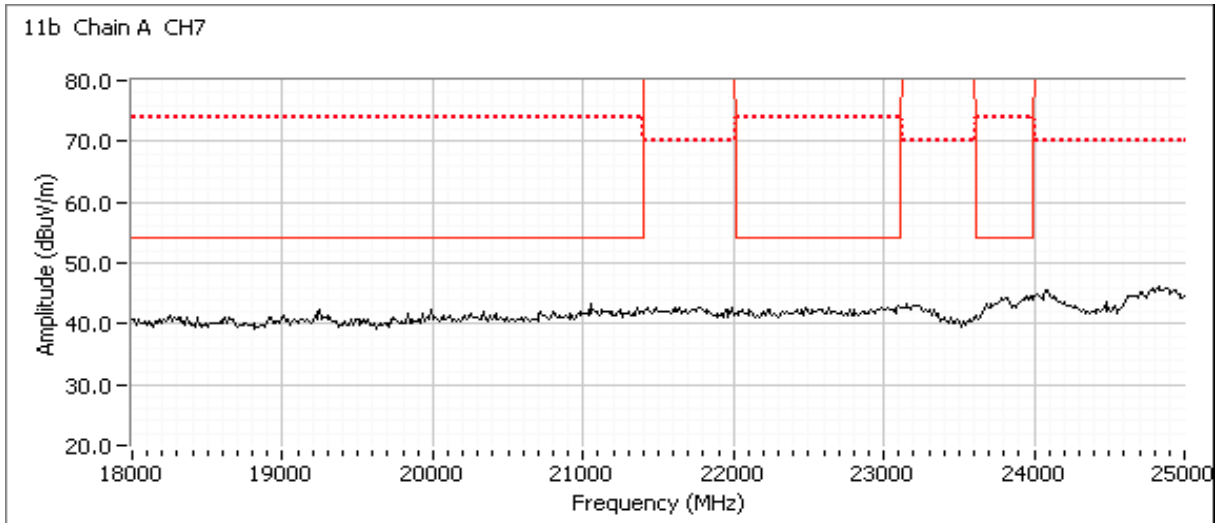
| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 17.5           | 17.3           | 15.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                            |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|-------------------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                                     |
| 10620.000 | 48.4   | H   | 54.0            | -5.6   | Peak      | 350     | 2.5    | Emission not seen when investigated |
| 1591.670  | 48.3   | V   | 54.0            | -5.7   | Peak      | 258     | 1.0    | Note 4                              |
| 1491.670  | 47.9   | H   | 54.0            | -6.1   | Peak      | 208     | 1.5    | Note 4                              |
| 3000.000  | 45.3   | V   | 54.0            | -8.7   | Peak      | 3       | 1.0    | Note 1, note 4                      |
| 5991.670  | 43.7   | V   | 54.0            | -10.3  | Peak      | 10      | 1.0    | Note 1, note 4                      |
| 4500.000  | 38.3   | V   | 54.0            | -15.7  | Peak      | 278     | 1.0    | Note 1                              |
| 4883.990  | 39.5   | V   | 54.0            | -14.5  | AVG       | 111     | 1.02   |                                     |
| 4884.020  | 45.2   | V   | 74.0            | -28.8  | PK        | 111     | 1.02   |                                     |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

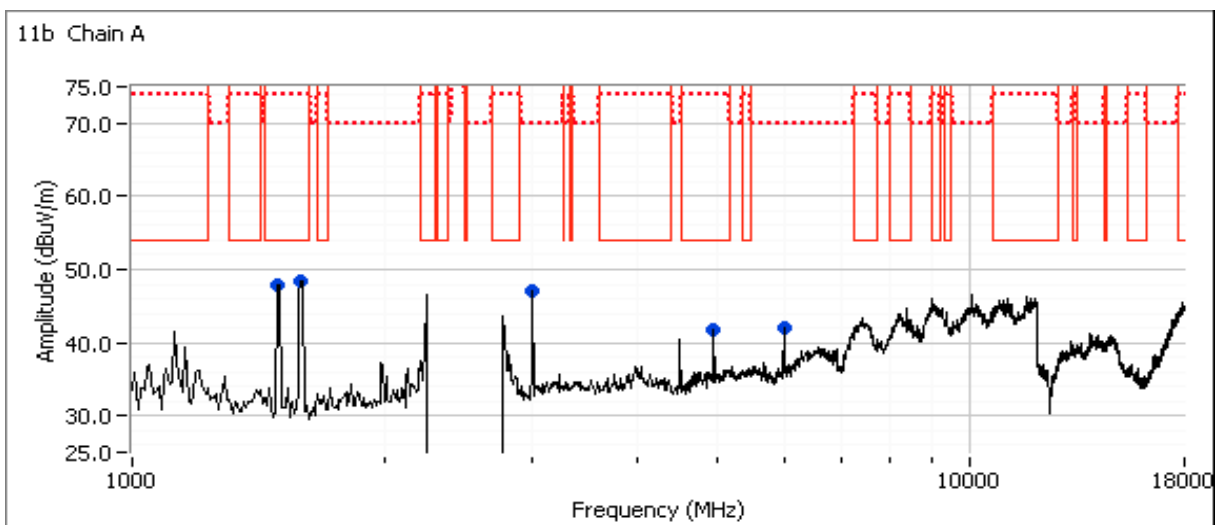
## Run #1c: High Channel

Channel: 11 Mode: b  
 Tx Chain: A Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.7           | 14.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 4924.010  | 46.7   | V   | 54.0            | -7.3   | AVG       | 163     | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 4924.220  | 56.4   | V   | 74.0            | -17.6  | PK        | 163     | 1.0    | POS; RB 1 MHz; VB: 3 MHz |
| 4924.020  | 45.9   | H   | 54.0            | -8.1   | AVG       | 140     | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 4923.790  | 56.5   | H   | 74.0            | -17.5  | PK        | 140     | 1.0    | POS; RB 1 MHz; VB: 3 MHz |
| 1591.670  | 48.4   | V   | 54.0            | -5.6   | Peak      | 272     | 1.0    | Note 4                   |
| 1491.670  | 47.8   | H   | 54.0            | -6.2   | Peak      | 220     | 1.5    | Note 4                   |
| 3000.000  | 47.2   | V   | 54.0            | -6.8   | Peak      | 12      | 1.0    | Note 1, note 4           |
| 5991.670  | 42.0   | V   | 54.0            | -12.0  | Peak      | 12      | 1.0    | Note 1, note 4           |

Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

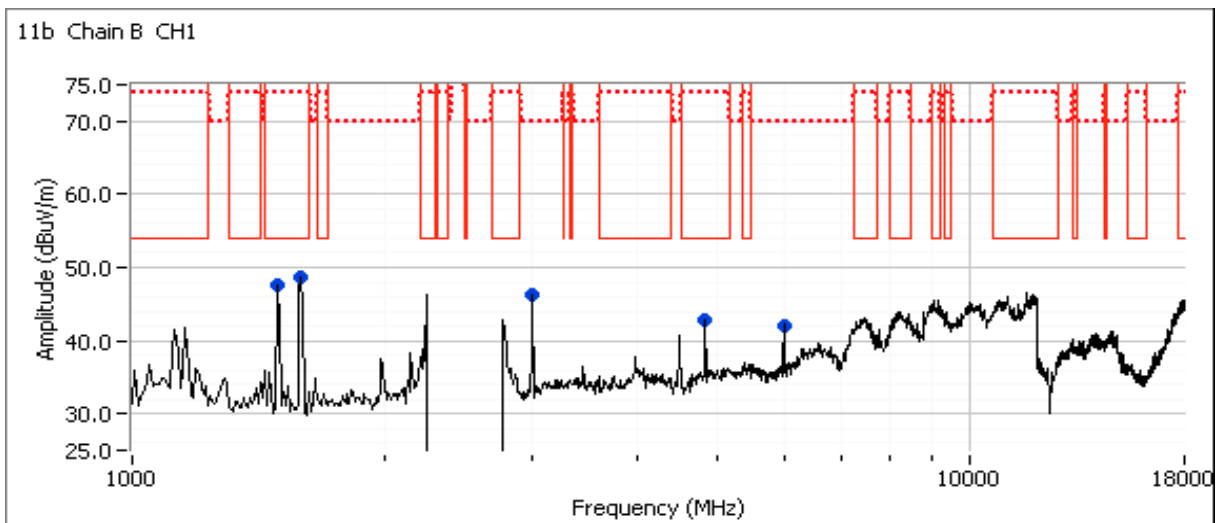
Run #2: Radiated Spurious Emissions, 1,000 - 25000 MHz. Operating Mode: 802.11b

Run #2a: Low Channel

Channel: 1 Mode: b  
 Tx Chain: B Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 17.4           | 21.5             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments       |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                |
| 1591.670  | 48.8   | V   | 54.0            | -5.2   | Peak      | 280     | 1.0    | Note 4         |
| 1491.670  | 47.6   | H   | 54.0            | -6.4   | Peak      | 228     | 1.5    | Note 4         |
| 3000.000  | 46.2   | V   | 54.0            | -7.8   | Peak      | 12      | 1.0    | Note 1, note 4 |
| 5991.670  | 42.0   | V   | 54.0            | -12.0  | Peak      | 254     | 1.0    | Note 1, note 4 |
| 4823.980  | 40.6   | V   | 54.0            | -13.4  | AVG       | 223     | 1.0    |                |
| 4823.830  | 45.7   | V   | 74.0            | -28.3  | PK        | 223     | 1.0    |                |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

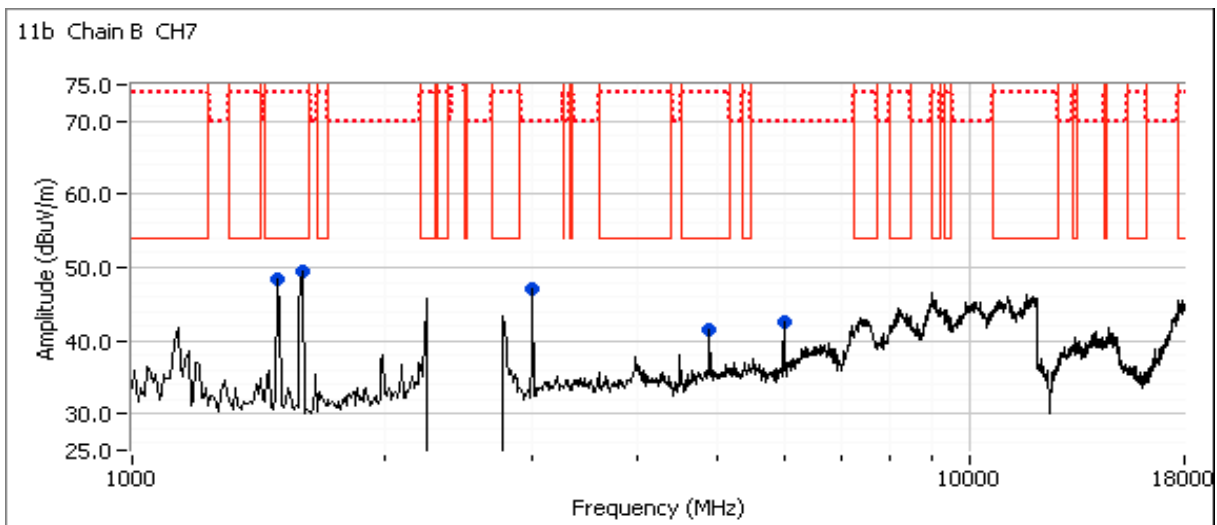
## Run #2b: Center Channel

Channel: 7                      Mode: b  
 Tx Chain: B                      Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 17.5           | 17.7           | 22.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments       |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                |
| 1600.000  | 49.6   | V   | 54.0            | -4.4   | Peak      | 260     | 1.0    | Note 4         |
| 1491.670  | 48.4   | H   | 54.0            | -5.6   | Peak      | 211     | 1.5    | Note 4         |
| 3000.000  | 47.0   | V   | 54.0            | -7.0   | Peak      | 5       | 1.0    | Note 1, note 4 |
| 4883.330  | 41.6   | V   | 54.0            | -12.4  | Peak      | 222     | 1.0    |                |
| 5991.670  | 42.5   | V   | 54.0            | -11.5  | Peak      | 249     | 1.0    | Note 1, note 4 |
| 4883.950  | 39.9   | V   | 54.0            | -14.1  | AVG       | 226     | 1.00   |                |
| 4884.160  | 45.3   | V   | 74.0            | -28.7  | PK        | 226     | 1.00   |                |

Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range



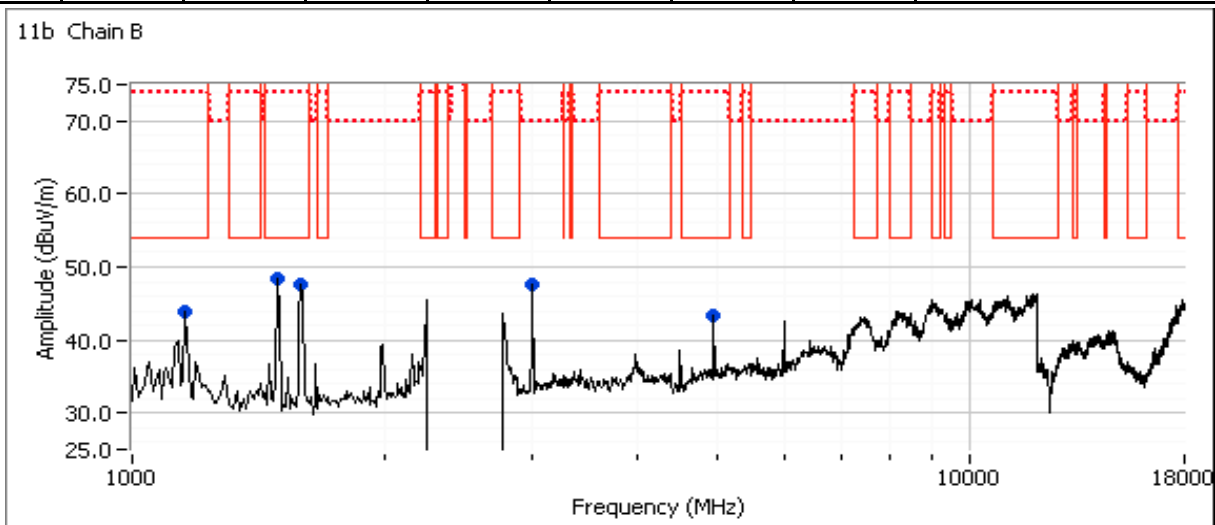
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #2c: High Channel

Channel: 11 Mode: b  
 Tx Chain: B Data Rate: 1

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 16.5           | 16.6           | 21.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 4924.020  | 42.7   | V   | 54.0            | -11.3  | AVG       | 307     | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 4916.970  | 55.2   | V   | 74.0            | -18.8  | PK        | 307     | 1.0    | POS; RB 1 MHz; VB: 3 MHz |
| 4924.020  | 42.4   | H   | 54.0            | -11.6  | AVG       | 191     | 1.3    | POS; RB 1 MHz; VB: 10 Hz |
| 4926.790  | 55.0   | H   | 74.0            | -19.0  | PK        | 191     | 1.3    | POS; RB 1 MHz; VB: 3 MHz |
| 4943.950  | 39.8   | V   | 54.0            | -14.2  | AVG       | 159     | 1.14   |                          |
| 1491.670  | 48.3   | H   | 54.0            | -5.7   | Peak      | 217     | 1.5    | Note 4                   |
| 3000.000  | 47.7   | V   | 54.0            | -6.3   | Peak      | 7       | 1.0    | Note 1, note 4           |
| 1591.670  | 47.6   | V   | 54.0            | -6.4   | Peak      | 257     | 1.0    | Note 4                   |
| 1158.330  | 43.9   | V   | 54.0            | -10.1  | Peak      | 215     | 1.0    |                          |
| 6000.000  | 43.6   | V   | 54.0            | -10.4  | Peak      | 12      | 1.0    | Note 1, note 4           |
| 4941.670  | 43.4   | V   | 54.0            | -10.6  | Peak      | 194     | 1.0    |                          |



Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

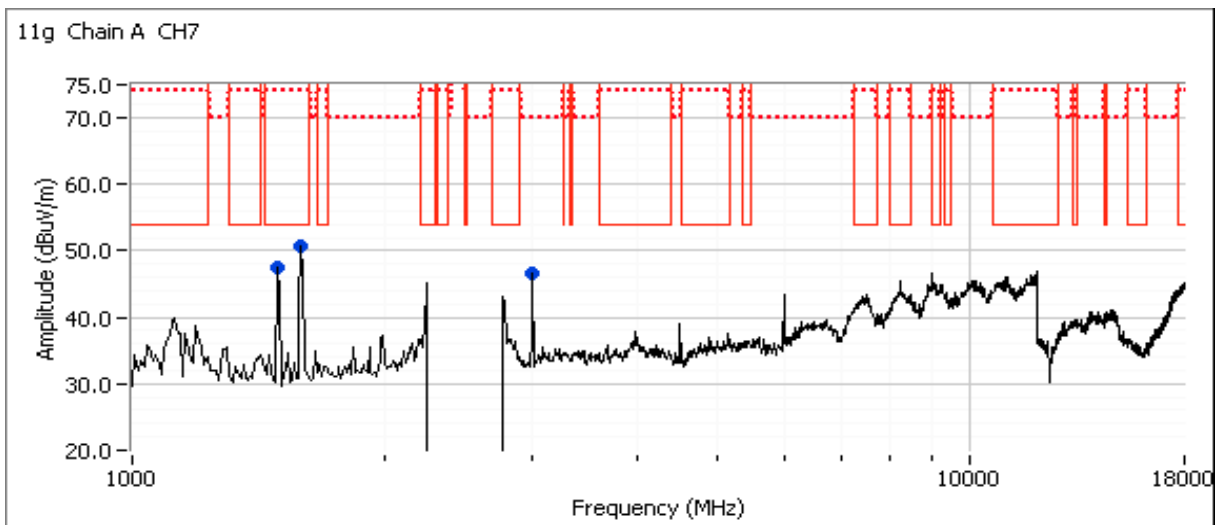
Run #3: Radiated Spurious Emissions, 1,000 - 25000 MHz. Operating Mode: OFDM  
 Date of Test: 6/11/2014 0:00 Config. Used: 1  
 Test Engineer: John Caizzi / Jack Liu Config Change: none  
 Test Location: Chamber 7 EUT Voltage: 3.3 VDC

Run #3a: Center Channel

Channel: 7 Mode: g  
 Tx Chain: A Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 17.5           | 17.5           | 21.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments       |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|----------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                |
| 1591.670  | 50.8   | V   | 54.0            | -3.2   | Peak      | 289     | 1.0    |                |
| 1491.670  | 47.4   | H   | 54.0            | -6.6   | Peak      | 227     | 1.5    | Note 4         |
| 3000.000  | 46.5   | V   | 54.0            | -7.5   | Peak      | 12      | 1.0    | Note 1, note 4 |
| 6000.000  | 42.1   | V   | 54.0            | -11.9  | Peak      | 253     | 1.0    | Note 1, note 4 |
| 1599.140  | 40.3   | V   | 54.0            | -13.7  | AVG       | 276     | 1.0    | Note 4         |
| 1592.200  | 57.1   | V   | 74.0            | -16.9  | PK        | 276     | 1.0    | Note 4         |



Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Date of Test: 6/11/2014 0:00  
 Test Engineer: Jack Liu  
 Test Location: Chamber 7

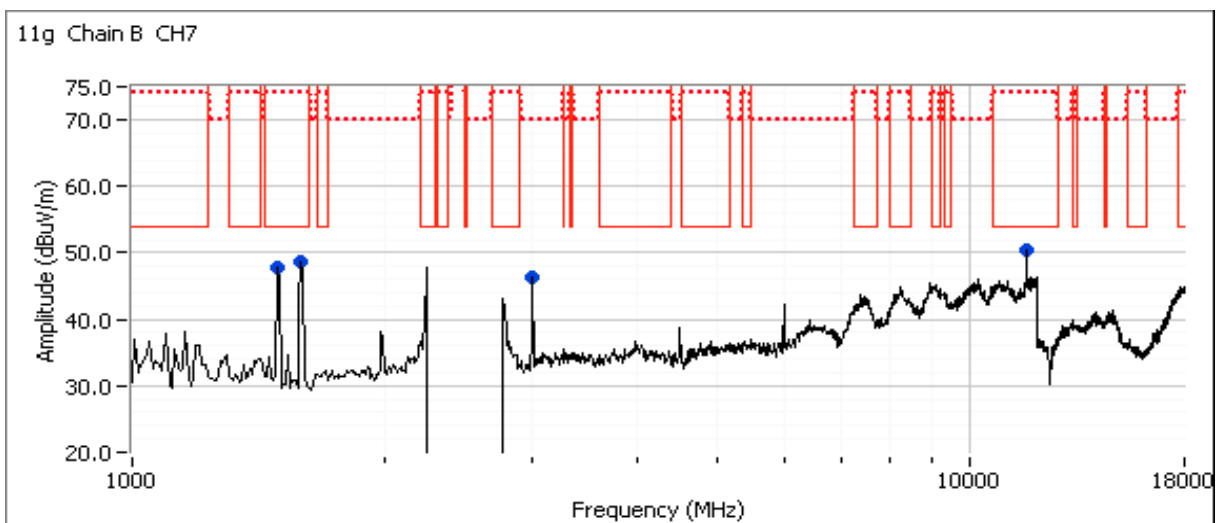
Config. Used: 1  
 Config Change: none  
 EUT Voltage: 3.3 VDC

## Run #3b: Center Channel

Channel: 7                      Mode: g  
 Tx Chain: B                    Data Rate: 6

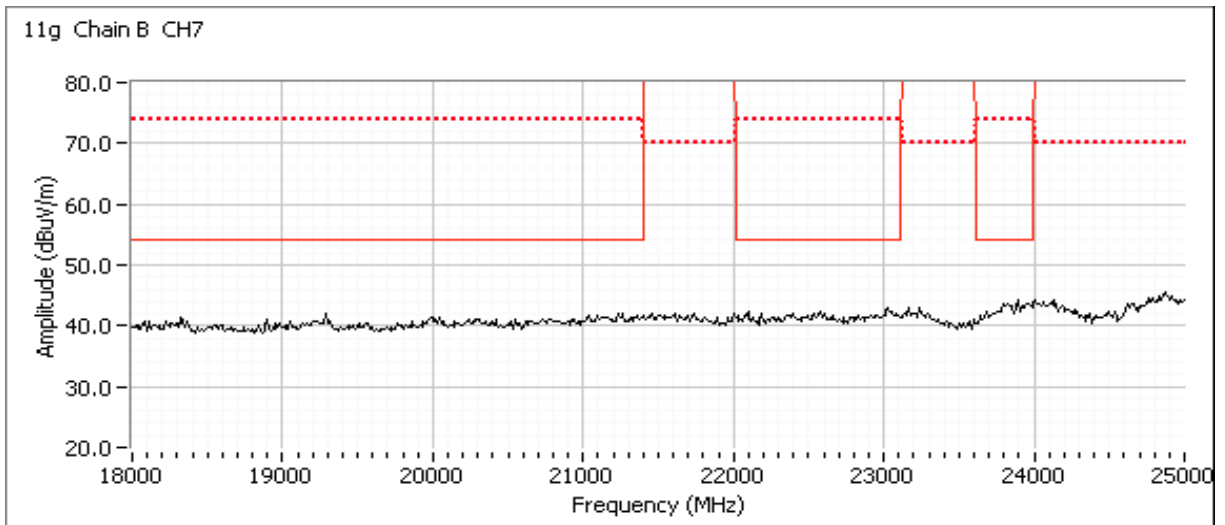
| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 17.5           | 17.3           | 27.0             |

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 11678.900 | 39.4         | H   | 54.0            | -14.6  | AVG       | 201     | 1.0    |            |
| 11667.070 | 50.8         | H   | 74.0            | -23.2  | PK        | 201     | 1.0    |            |
| 3000.120  | 50.1         | V   | 54.0            | -3.9   | PK        | 9       | 1.0    | Notes 1, 4 |
| 1499.120  | 43.9         | H   | 54.0            | -10.1  | AVG       | 223     | 1.3    | Note 4     |
| 1497.850  | 51.7         | H   | 74.0            | -22.3  | PK        | 223     | 1.3    | Note 4     |
| 1598.950  | 34.0         | V   | 54.0            | -20.0  | AVG       | 239     | 1.0    | Note 4     |
| 1596.580  | 54.6         | V   | 74.0            | -19.4  | PK        | 239     | 1.0    | Note 4     |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

|       |                                                                                                                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note: | Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

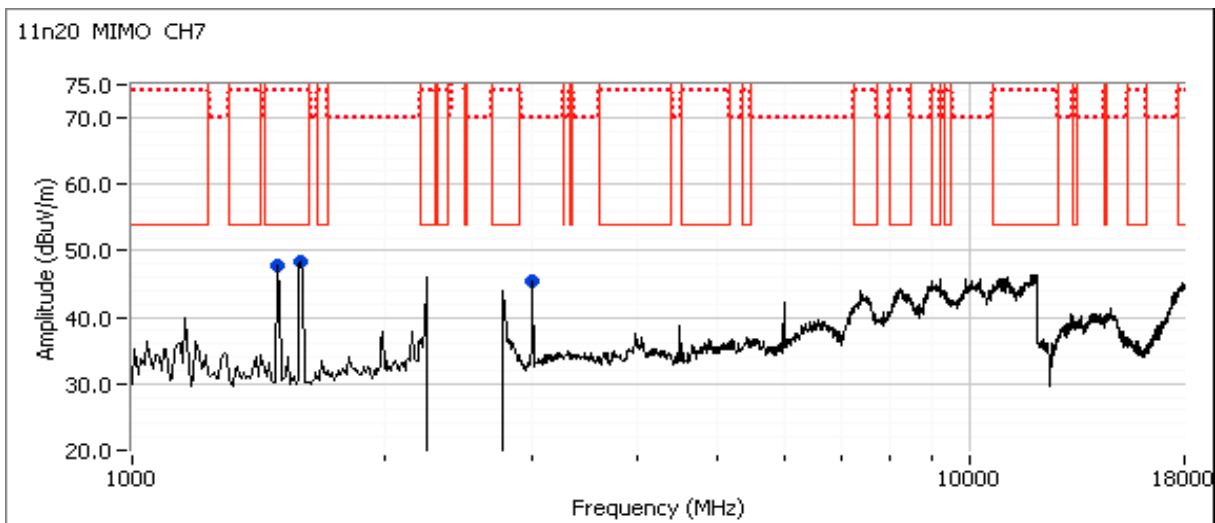
## Run #3c: Center Channel

Channel: 7 Mode: n20  
 Tx Chain: A+B Data Rate: HT0

| Chain | Power Settings |      |   |       |                |      |   |       |                  |
|-------|----------------|------|---|-------|----------------|------|---|-------|------------------|
|       | Target (dBm)   |      |   |       | Measured (dBm) |      |   |       | Software Setting |
|       | A              | B    | C | Total | A              | B    | C | Total |                  |
|       | 17.5           | 17.5 |   | 20.5  | 17.3           | 17.4 |   | 20.4  | 23.0, 29.0       |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 1598.750  | 33.4   | V   | 54.0            | -20.6  | AVG       | 268     | 1.0    | Note 4     |
| 1595.680  | 55.8   | V   | 74.0            | -18.2  | PK        | 268     | 1.0    | Note 4     |
| 3000.210  | 49.4   | V   | 54.0            | -4.6   | PK        | 9       | 1.0    | Notes 1, 4 |
| 1499.110  | 44.0   | H   | 54.0            | -10.0  | AVG       | 219     | 1.2    | Note 4     |
| 1497.740  | 51.3   | H   | 74.0            | -22.7  | PK        | 219     | 1.2    | Note 4     |

Note: Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range



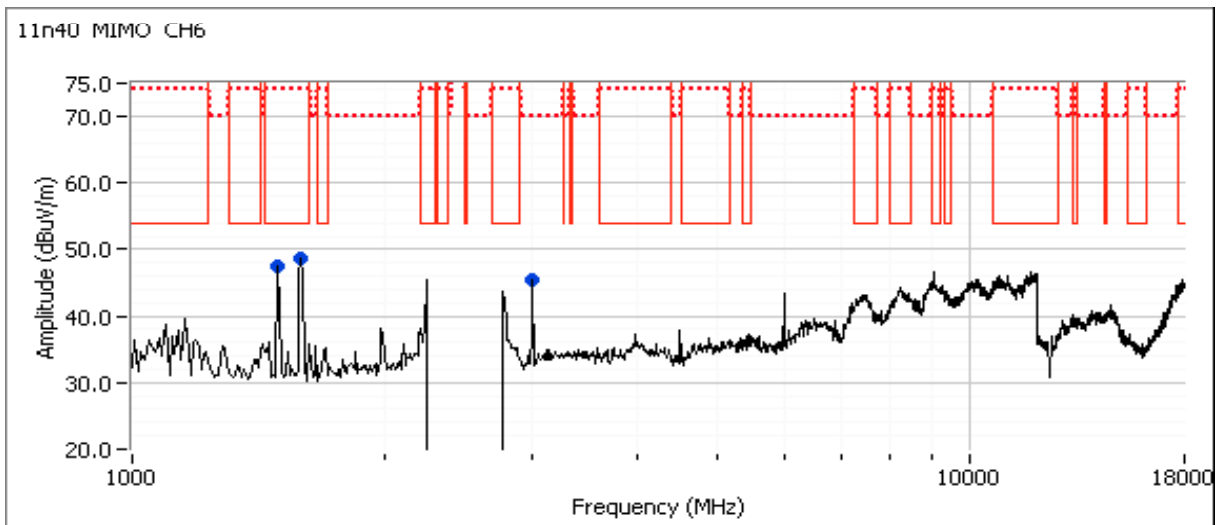
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3d: Center Channel

Channel: 6 Mode: n40  
 Tx Chain: A+B Data Rate: HT0

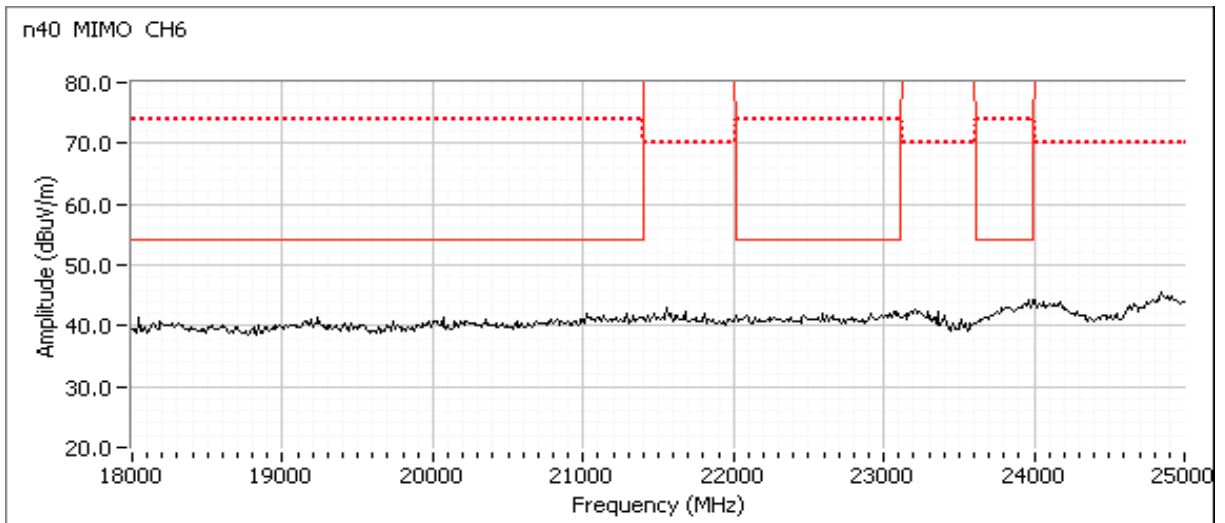
|       | Power Settings |      |   |       |                |      |   |       |                  |
|-------|----------------|------|---|-------|----------------|------|---|-------|------------------|
|       | Target (dBm)   |      |   |       | Measured (dBm) |      |   |       | Software Setting |
|       | A              | B    | C | Total | A              | B    | C | Total |                  |
| Chain | 16.5           | 16.5 |   | 19.5  | 16.7           | 16.7 |   | 19.7  | 23.0, 28.0       |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 1598.640  | 35.4   | V   | 54.0            | -18.6  | AVG       | 275     | 1.0    | Note 4     |
| 1593.840  | 55.9   | V   | 74.0            | -18.1  | PK        | 275     | 1.0    | Note 4     |
| 3000.250  | 48.8   | V   | 54.0            | -5.2   | PK        | 7       | 1.0    | Notes 1, 4 |
| 1498.970  | 43.5   | H   | 54.0            | -10.5  | AVG       | 219     | 1.4    | Note 4     |
| 1498.270  | 52.2   | H   | 74.0            | -21.8  | PK        | 219     | 1.4    | Note 4     |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

**Note:** Scans made between 18 - 25 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range





## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #4: Radiated Spurious Emissions, 1,000 - 25000 MHz. Operating Mode: Worse case from Run #2

Date of Test: 6/12/2014

Config. Used: 1

Test Engineer: Deniz Demirci

Config Change: None

Test Location: FT Ch# 7

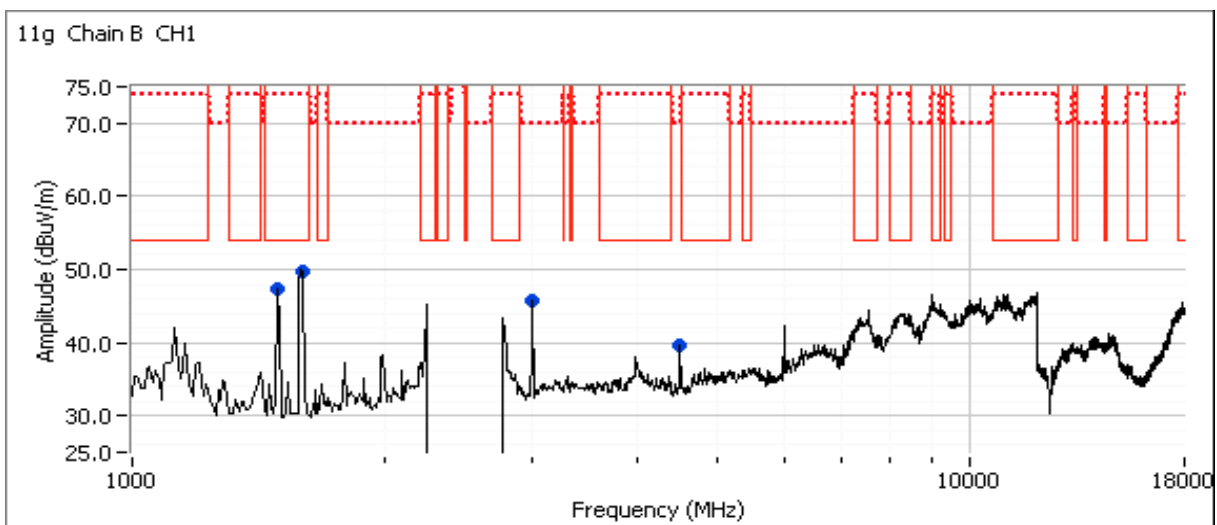
EUT Voltage: 3.3 VDC

Run #4a: Low Channel

Channel: 1 Mode: g  
Tx Chain: B Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 14.5           | 14.6           | 24.0             |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 3000.200  | 46.8   | V   | 54.0            | -7.2   | AVG       | 8       | 1.0    | Notes 1, 4 |
| 3000.210  | 49.8   | V   | 74.0            | -24.2  | PK        | 8       | 1.0    | Notes 1, 4 |
| 4496.730  | 33.9   | V   | 54.0            | -20.1  | AVG       | 266     | 1.0    | Note 4     |
| 4498.280  | 46.5   | V   | 74.0            | -27.5  | PK        | 266     | 1.0    | Note 4     |
| 1598.910  | 35.9   | V   | 54.0            | -18.1  | AVG       | 268     | 1.0    | Note 4     |
| 1592.490  | 57.8   | V   | 74.0            | -16.2  | PK        | 268     | 1.0    | Note 4     |
| 1498.890  | 43.1   | H   | 54.0            | -10.9  | AVG       | 210     | 1.2    | Note 4     |
| 1499.460  | 53.6   | H   | 74.0            | -20.4  | PK        | 210     | 1.2    | Note 4     |



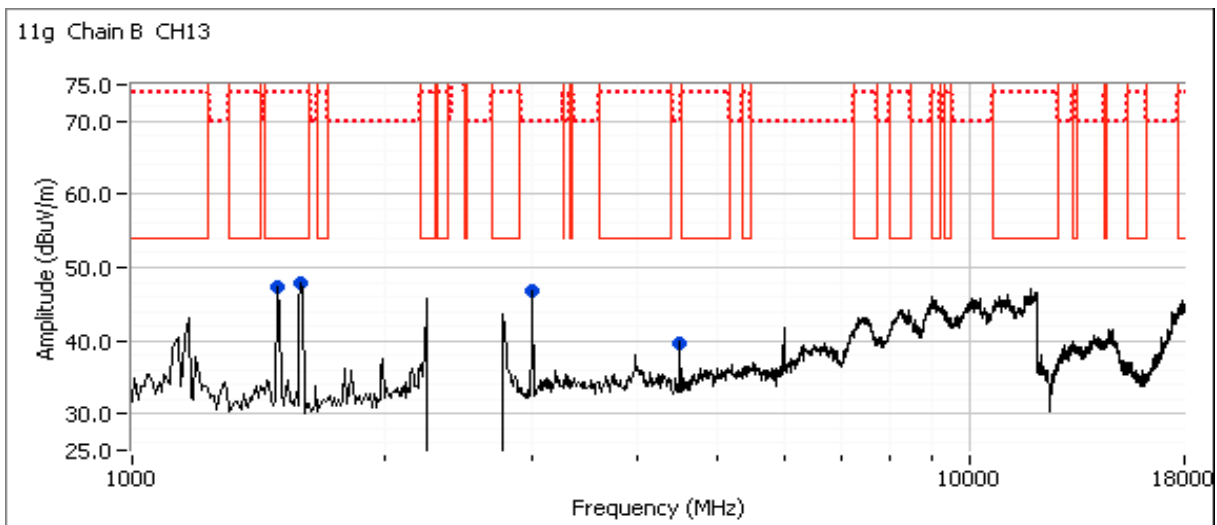
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4b: High Channel

Channel: 11 Mode: g  
 Tx Chain: B Data Rate: 6

| Power Settings |                |                  |
|----------------|----------------|------------------|
| Target (dBm)   | Measured (dBm) | Software Setting |
| 0.0            | 0.3            | 8.0              |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 1499.020  | 44.1   | H   | 54.0            | -9.9   | AVG       | 211     | 1.3    | Note 4     |
| 1499.030  | 53.7   | H   | 74.0            | -20.3  | PK        | 211     | 1.3    | Note 4     |
| 1598.870  | 34.4   | V   | 54.0            | -19.6  | AVG       | 220     | 1.0    | Note 4     |
| 1594.070  | 53.3   | V   | 74.0            | -20.7  | PK        | 220     | 1.0    | Note 4     |
| 3000.210  | 47.2   | V   | 54.0            | -6.8   | AVG       | 9       | 1.0    | Notes 1, 4 |
| 3000.220  | 50.4   | V   | 74.0            | -23.6  | PK        | 9       | 1.0    | Notes 1, 4 |
| 4496.880  | 33.9   | V   | 54.0            | -20.1  | AVG       | 279     | 1.0    | Note 4     |
| 4497.200  | 46.5   | V   | 74.0            | -27.5  | PK        | 279     | 1.0    | Note 4     |



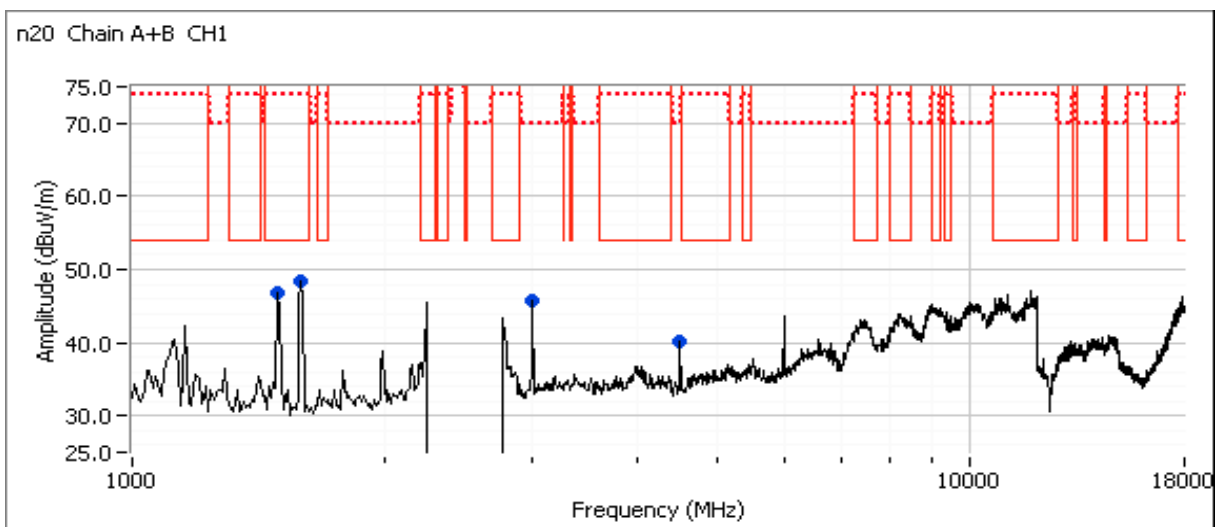
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4c: Low Channel

Channel: 1                      Mode: n20  
 Tx Chain: A + B                Data Rate: HT0

| Chain | Target (dBm) |      |   |       | Power Settings Measured (dBm) |      |   |       | Software Setting |
|-------|--------------|------|---|-------|-------------------------------|------|---|-------|------------------|
|       | A            | B    | C | Total | A                             | B    | C | Total |                  |
|       | 12.0         | 12.0 |   | 15.0  | 12.2                          | 12.2 |   | 15.2  |                  |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 4496.870  | 33.5   | V   | 54.0            | -20.5  | AVG       | 274     | 1.0    | Note 4     |
| 4496.870  | 46.1   | V   | 74.0            | -27.9  | PK        | 274     | 1.0    | Note 4     |
| 3000.200  | 47.2   | V   | 54.0            | -6.8   | AVG       | 10      | 1.0    | Notes 1, 4 |
| 3000.210  | 50.2   | V   | 74.0            | -23.8  | PK        | 10      | 1.0    | Notes 1, 4 |
| 1499.010  | 44.6   | H   | 54.0            | -9.4   | AVG       | 212     | 1.3    | Note 4     |
| 1499.170  | 53.0   | H   | 74.0            | -21.0  | PK        | 212     | 1.3    | Note 4     |
| 1598.650  | 35.9   | V   | 54.0            | -18.1  | AVG       | 269     | 1.0    | Note 4     |
| 1596.930  | 57.6   | V   | 74.0            | -16.4  | PK        | 269     | 1.0    | Note 4     |



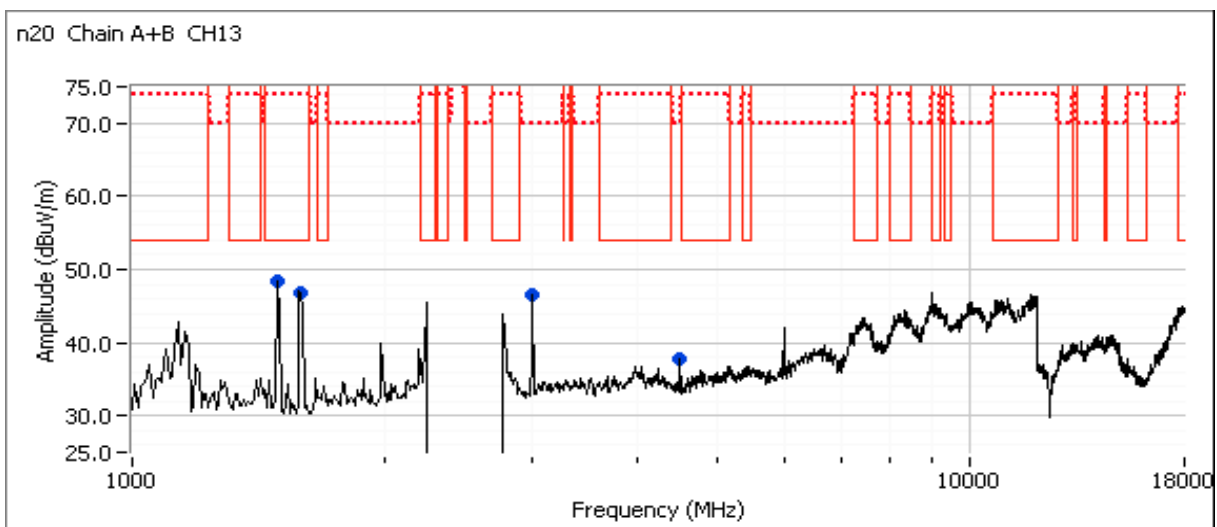
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4d: High Channel

Channel: 11      Mode: n20  
 Tx Chain: A + B      Data Rate: HT0

| Chain | Target (dBm) |     |   |       | Power Settings Measured (dBm) |     |   |       | Software Setting |
|-------|--------------|-----|---|-------|-------------------------------|-----|---|-------|------------------|
|       | A            | B   | C | Total | A                             | B   | C | Total |                  |
|       | 0.0          | 0.0 |   | 3.0   | 0.1                           | 0.2 |   | 3.2   |                  |

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments   |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |            |
| 1598.480  | 35.3   | V   | 54.0            | -18.7  | AVG       | 258     | 1.0    | Note 4     |
| 1592.920  | 55.6   | V   | 74.0            | -18.4  | PK        | 258     | 1.0    | Note 4     |
| 1499.180  | 43.5   | H   | 54.0            | -10.5  | AVG       | 215     | 1.4    | Note 4     |
| 1498.570  | 52.5   | H   | 74.0            | -21.5  | PK        | 215     | 1.4    | Note 4     |
| 3000.240  | 46.9   | V   | 54.0            | -7.1   | AVG       | 10      | 1.0    | Notes 1, 4 |
| 3000.170  | 49.9   | V   | 74.0            | -24.1  | PK        | 10      | 1.0    | Notes 1, 4 |
| 4496.970  | 33.6   | V   | 54.0            | -20.4  | AVG       | 277     | 1.0    | Note 4     |
| 4497.330  | 46.6   | V   | 74.0            | -27.4  | PK        | 277     | 1.0    | Note 4     |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Antenna Port Measurements Power, PSD, Bandwidth and Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/19/2014                      Config. Used: 1  
 Test Engineer: John Caizzi                      Config Change: none  
                      Joseph Cadigal  
 Test Location: Lab 4A                      Host Unit Voltage

### General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators used.

### Ambient Conditions:

Temperature: 23 °C  
 Rel. Humidity: 35 %

### Summary of Results

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

| Run # | Pwr setting | Avg Pwr | Test Performed               | Limit     | Pass / Fail | Result / Margin        |
|-------|-------------|---------|------------------------------|-----------|-------------|------------------------|
| 1     | Default     |         | Output Power                 | 15.247(b) | Pass        | 3.5 dBm                |
| 2     |             |         | Power spectral Density (PSD) | 15.247(d) | Pass        | -6.5 dBm/3kHz          |
| 3     |             |         | Minimum 6dB Bandwidth        | 15.247(a) | Pass        | 655 kHz                |
| 3     |             |         | 99% Bandwidth                | RSS GEN   | -           | 1.042 MHz              |
| 4     |             |         | Spurious emissions           | 15.247(b) | Pass        | All spurious < -20 dBc |

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1: Output Power

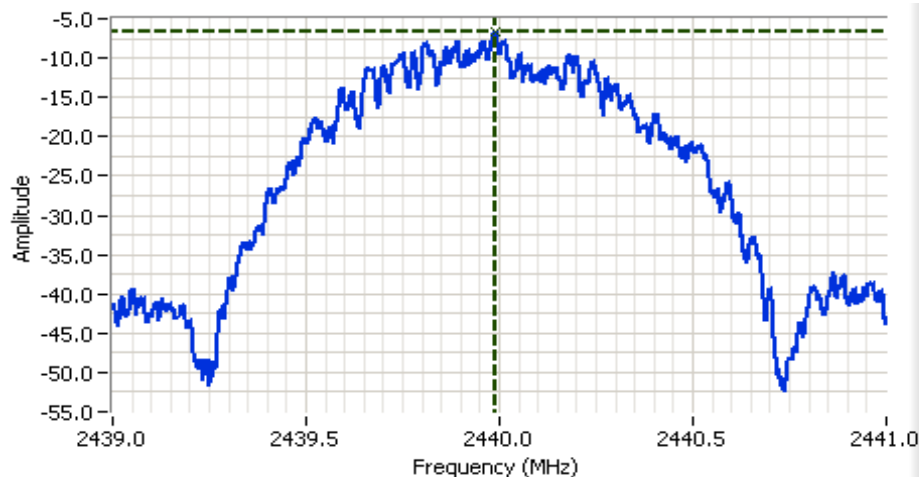
| Power Setting <sup>2</sup> | Frequency (MHz) | Output Power       |     | Antenna Gain (dBi) | Result | EIRP <sup>Note 2</sup> |       | Output Power       |    |
|----------------------------|-----------------|--------------------|-----|--------------------|--------|------------------------|-------|--------------------|----|
|                            |                 | (dBm) <sup>1</sup> | mW  |                    |        | dBm                    | W     | (dBm) <sup>3</sup> | mW |
| Default                    | 2402            | 3.5                | 2.2 | 3.2                | Pass   | 6.7                    | 0.005 |                    |    |
|                            | 2440            | 3.3                | 2.1 | 3.2                | Pass   | 6.5                    | 0.004 |                    |    |
|                            | 2480            | 3.1                | 2.0 | 3.2                | Pass   | 6.3                    | 0.004 |                    |    |

|         |                                                                                              |
|---------|----------------------------------------------------------------------------------------------|
| Note 1: | Output power measured using a peak power meter, spurious limit is -20dBc.                    |
| Note 2: | Power setting - the software power setting used during testing, included for reference only. |
| Note 3: | Power measured using average power meter and is included for reference only.                 |

## Run #2: Power spectral Density

| Power Setting | Frequency (MHz) | PSD                           | Limit<br>dBm/3kHz | Result |
|---------------|-----------------|-------------------------------|-------------------|--------|
|               |                 | (dBm/10kHz) <sup>Note 1</sup> |                   |        |
| Default       | 2402            | -6.5                          | 8.0               | Pass   |
|               | 2440            | -6.6                          | 8.0               | Pass   |
|               | 2480            | -6.5                          | 8.0               | Pass   |

|         |                                                                                                                                                                                                                                              |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Test performed per method PKSPD, in KDB 558074. Power spectral density measured using: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ , $\text{VBW}=3*\text{RBW}$ , peak detector, span = $1.5*\text{DTS BW}$ , auto sweep time, max hold. |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2440.000 MHz  
 SPAN: 2.000 MHz  
 RB: 10.0 kHz  
 VB: 30.0 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 19.2ms  
 Ref Lvl: 0.0 DBM

### Comments

BT  
 PSD = -6.59dBm/10kHz

|          |           |       |  |  |
|----------|-----------|-------|--|--|
| Cursor 1 | 2439.9883 | -6.59 |  |  |
|          | 0.0000    | 0.00  |  |  |

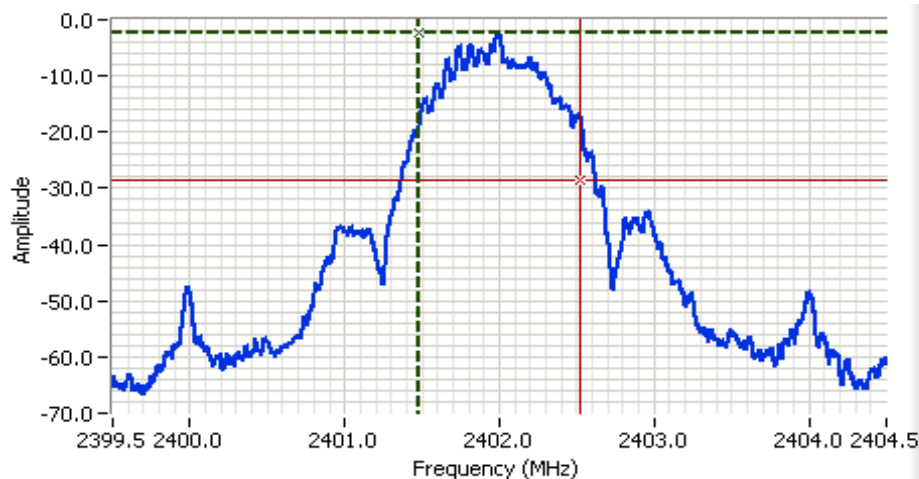
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #3: Signal Bandwidth

| Power Setting | Frequency (MHz) | Resolution Bandwidth | Bandwidth (MHz) |       |
|---------------|-----------------|----------------------|-----------------|-------|
|               |                 |                      | 6dB             | 99%   |
| Default       | 2402            | Notes 1 & 2          | 0.664           | 1.042 |
|               | 2440            |                      | 0.655           | 1.040 |
|               | 2480            |                      | 0.667           | 1.037 |

Note 1: 6dB bandwidth measured using RB = 100 kHz, VB = 300 kHz.

Note 2: 99% bandwidth measured using RB = 20 kHz, VB = 62 kHz (VB >= 3RB)



### Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2402.000 MHz  
 SPAN: 5.000 MHz  
 RB: 20.0 kHz  
 VB: 62.0 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 12.0ms  
 Ref Lvl: 0.0 DBM

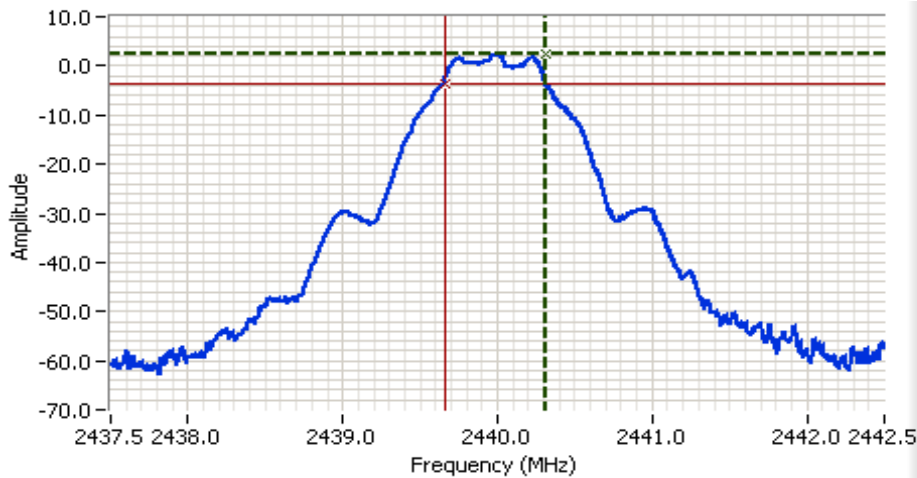
### Comments

99% power BW: 1.042 MHz

|          |           |        |  |
|----------|-----------|--------|--|
| Cursor 1 | 2401.4800 | -2.41  |  |
| Cursor 2 | 2402.5217 | -28.41 |  |

Delta Freq. 1.042  
 Delta Amplitude 26.00

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



## Analyzer Settings

Agilent Technologies, E4446A  
 CF: 2440.000 MHz  
 SPAN: 5.000 MHz  
 RB: 100 kHz  
 VB: 300 kHz  
 Detector: POS  
 Attn: 10 DB  
 RL Offset: 10.5 DB  
 Sweep Time: 1.0ms  
 Ref Lvl: 10.0 DBM

## Comments

6dB BW: 655 kHz  
 BTLE

|          |           |       |                                                                                     |                                                                                     |                                                                                     |
|----------|-----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cursor 1 | 2440.3109 | 2.40  |  |  |  |
| Cursor 2 | 2439.6557 | -3.60 |  |  |  |

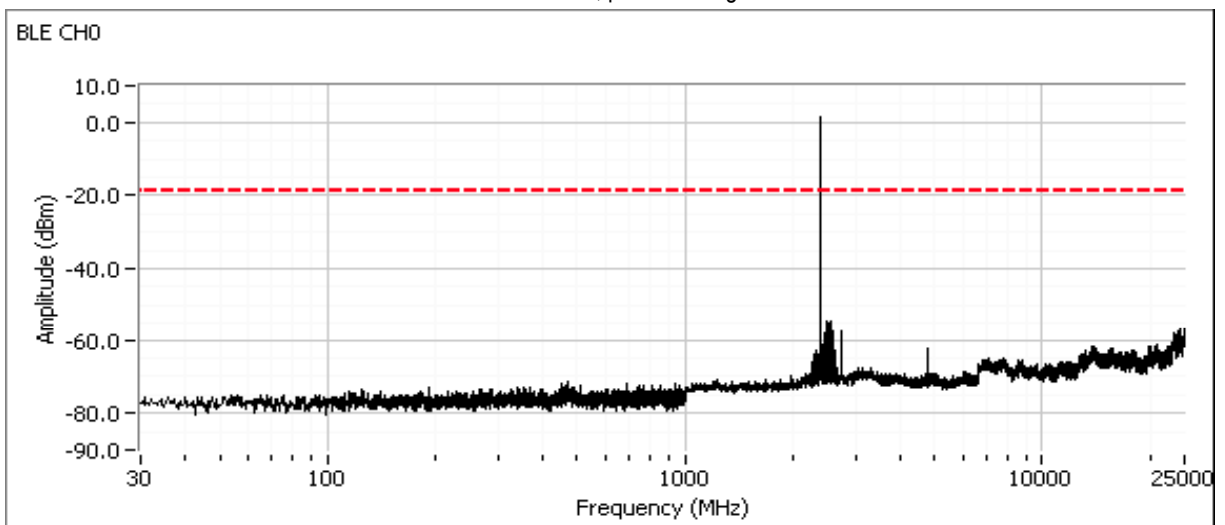
Delta Freq. 655 kHz  
 Delta Amplitude 6.00

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #4: Out of Band Spurious Emissions

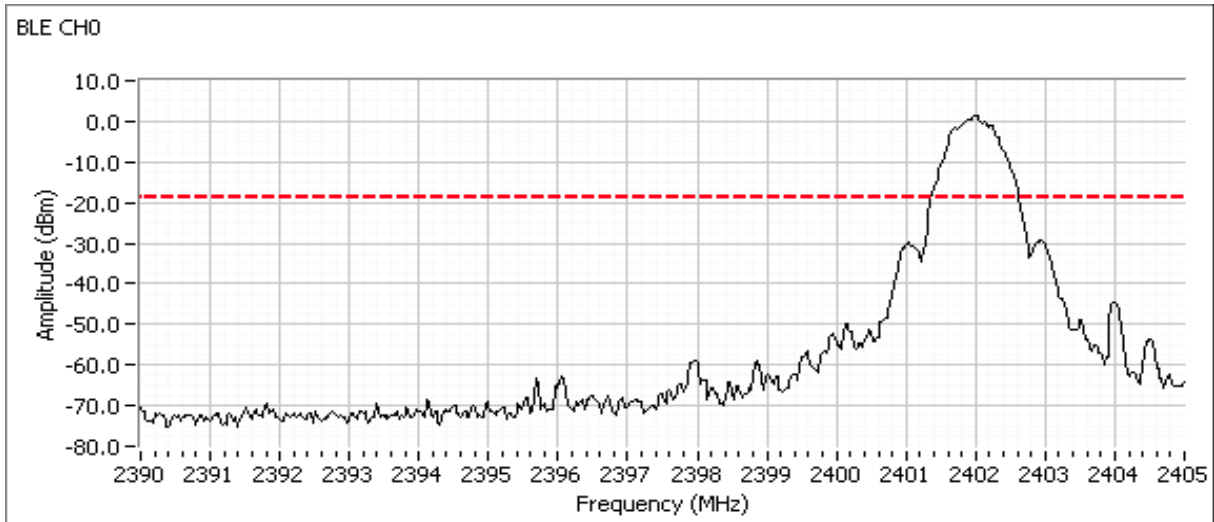
| Frequency (MHz) | Limit  | Result |
|-----------------|--------|--------|
| 2402            | -20dBc | pass   |
| 2440            | -20dBc | pass   |
| 2480            | -20dBc | pass   |

Plots for low channel, power setting = default

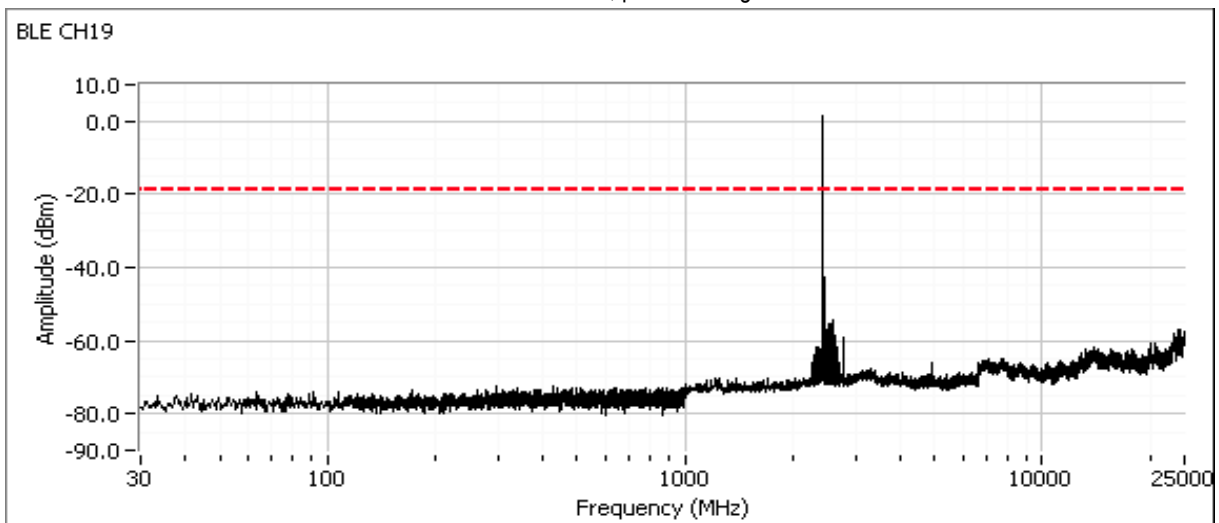


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Additional plot showing compliance with -20dBc limit from 2390 MHz to 2400 MHz. Radiated measurements used to show compliance with the limits in the restricted band below 2390 MHz.

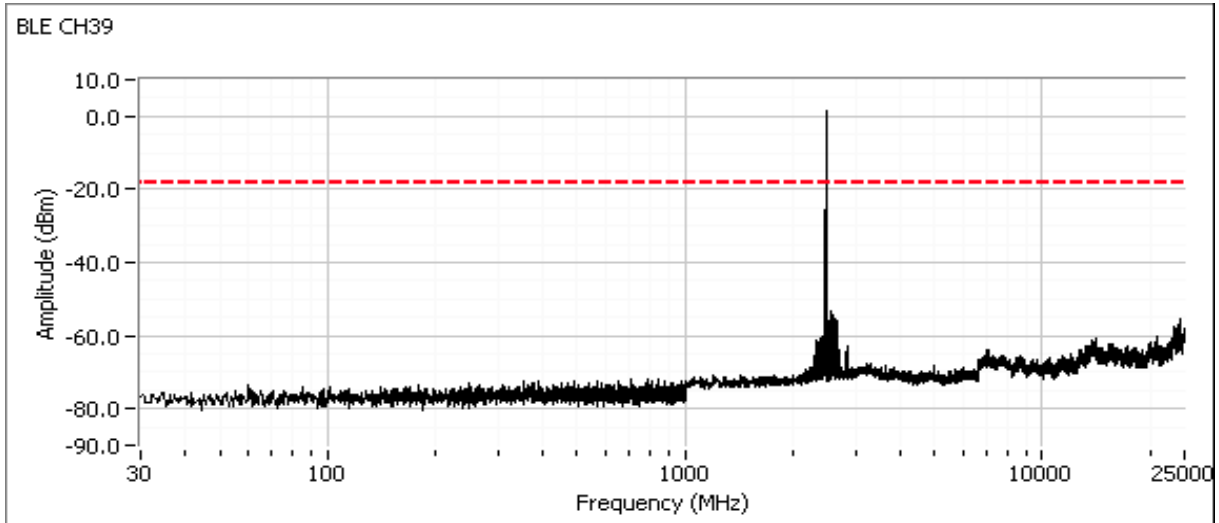


Plots for center channel, power setting = default



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Plots for high channel, power setting = default



Radiated measurements used to show compliance with the limits in the restricted band above 2483.5 MHz.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing. For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

### Ambient Conditions:

Temperature: 24 °C  
 Rel. Humidity: 38 %

### Summary of Results - Device Operating in the 2400-2483.5 MHz Band

MAC Address: 001500F15B5D DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

| Run # | Mode         | Channel | Power Setting | Measured Power | Test Performed                    | Limit                        | Result / Margin                     |
|-------|--------------|---------|---------------|----------------|-----------------------------------|------------------------------|-------------------------------------|
| 1a    | Bluetooth LE | low     | Default       | 3.02           | Restricted Band Edge (2390 MHz)   | FCC Part 15.209 / 15.247( c) | 36.3 dBµV/m @ 2342.1 MHz (-17.7 dB) |
|       |              |         |               |                | Radiated Emissions, 1 - 26 GHz    | FCC Part 15.209 / 15.247( c) | No radio realated emissions         |
| 1b    |              | center  | Default       | 3.20           | Radiated Emissions, 1 - 26 GHz    | FCC Part 15.209 / 15.247( c) | No radio realated emissions         |
| 1c    |              | high    | Default       | 3.40           | Restricted Band Edge (2483.5 MHz) | FCC Part 15.209 / 15.247( c) | 38.2 dBµV/m @ 2485.0 MHz (-15.8 dB) |
|       |              |         |               |                | Radiated Emissions, 1 - 26 GHz    | FCC Part 15.209 / 15.247( c) | No radio realated emissions         |

### Modifications Made During Testing

No modifications were made to the EUT during testing.

### Deviations From The Standard

No deviations were made from the requirements of the standard.



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Sample Notes

BT Address: 001500F15B61 DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

Antenna: antenna connected.

Duty Cycle: 0.63

Correction Factor (dB) 4.0

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #1: Radiated Spurious Emissions, 1000-26000 MHz. Operating Mode: Low Energy

Date of Test: 6/16/2014 & 6/17/14

Test Engineer: Jack Liu

Test Location: FT Chamber7

Run #1a: Low Channel @ 2402 MHz

|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain B | -            | 3.02                             | Default          |

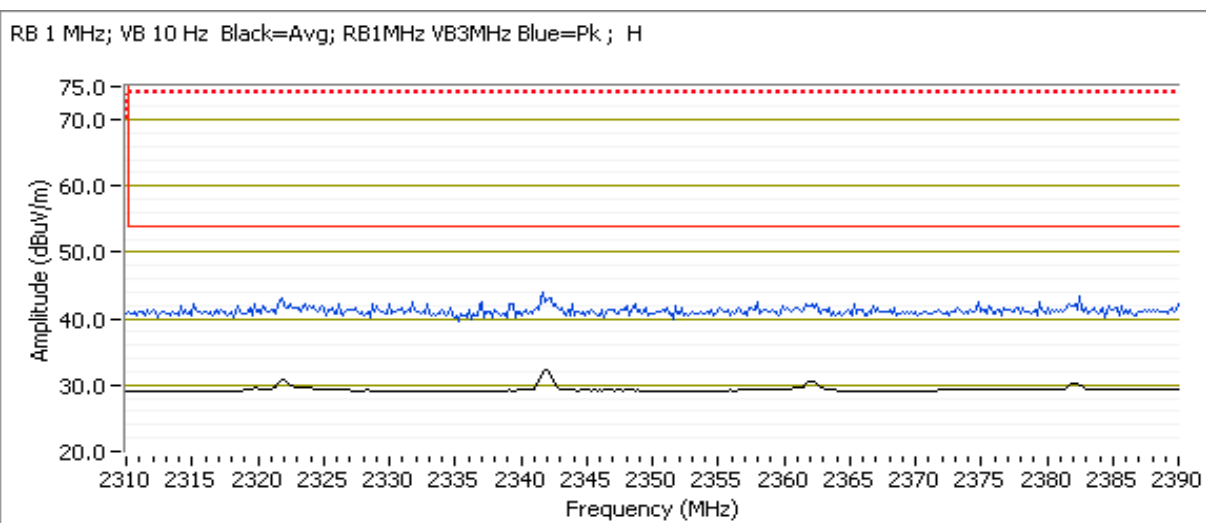
Fundamental Signal Field Strength: Peak and average values measured in 1 MHz, and peak value measured in 100kHz

| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Pol<br>v/h | 15.209 / 15.247<br>Limit | Margin | Detector<br>Pk/QP/Avg | Azimuth<br>degrees | Height<br>meters | Comments                     |
|------------------|-----------------------|------------|--------------------------|--------|-----------------------|--------------------|------------------|------------------------------|
| 2401.990         | 100.5                 | H          | -                        | -      | Pk                    | 192                | 1.0              | POS; RB 100 kHz; VB: 100 kHz |
| 2401.910         | 95.4                  | V          | -                        | -      | Pk                    | 78                 | 1.0              | POS; RB 100 kHz; VB: 100 kHz |

|                                                  |       |              |                                          |
|--------------------------------------------------|-------|--------------|------------------------------------------|
| Fundamental emission level @ 3m in 100kHz RBW:   | 100.5 | dB $\mu$ V/m |                                          |
| Limit for emissions outside of restricted bands: | 80.5  | dB $\mu$ V/m | Limit is -20dBc (Peak power measurement) |
| Limit for emissions outside of restricted bands: | 70.5  | dB $\mu$ V/m | Limit is -30dBc (UNII power measurement) |

Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Pol<br>v/h | 15.209 / 15.247<br>Limit | Margin | Detector<br>Pk/QP/Avg | Azimuth<br>degrees | Height<br>meters | Comments                         |
|------------------|-----------------------|------------|--------------------------|--------|-----------------------|--------------------|------------------|----------------------------------|
| 2342.060         | 36.3                  | H          | 54.0                     | -17.7  | AVG                   | 60                 | 1.0              | Correction Factor (3.96dB) added |
| 2342.870         | 43.4                  | H          | 74.0                     | -30.6  | PK                    | 60                 | 1.0              | POS; RB 1 MHz; VB: 3 MHz         |
| 2341.900         | 35.1                  | V          | 54.0                     | -18.9  | AVG                   | 71                 | 1.1              | POS; RB 1 MHz; VB: 10 Hz         |
| 2376.050         | 42.8                  | V          | 74.0                     | -31.2  | PK                    | 71                 | 1.1              | POS; RB 1 MHz; VB: 3 MHz         |

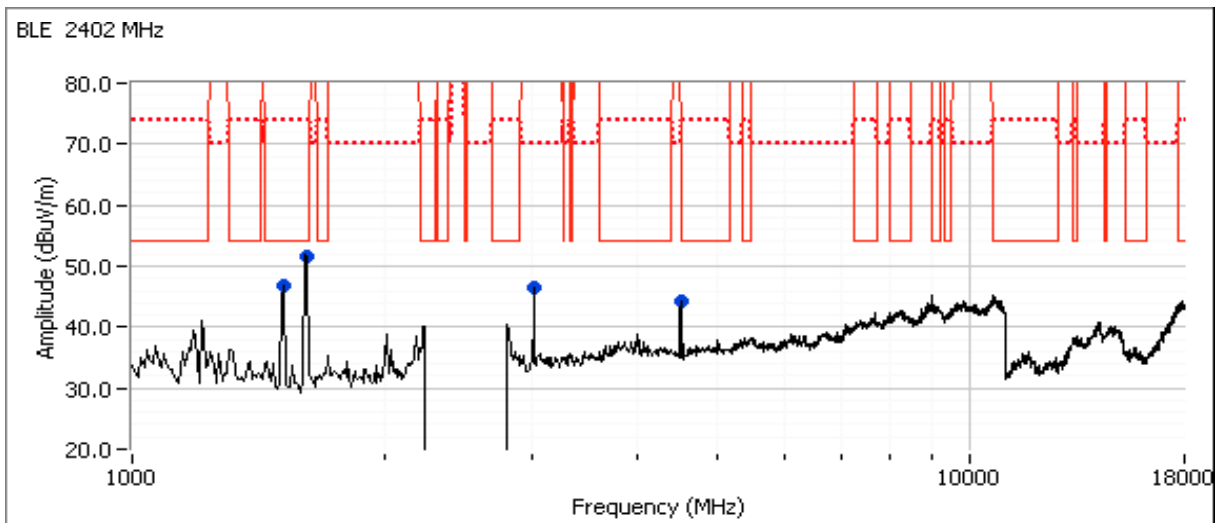


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Other Spurious Emissions

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments  |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|-----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |           |
| 1499.000  | 43.5         | H   | 54.0            | -10.5  | AVG       | 209     | 1.3    | Note 3    |
| 1496.470  | 51.1         | H   | 74.0            | -22.9  | PK        | 209     | 1.3    | Note 3    |
| 1598.470  | 39.0         | V   | 54.0            | -15.0  | AVG       | 267     | 1.0    | Note 3    |
| 1600.070  | 60.2         | V   | 74.0            | -13.8  | PK        | 267     | 1.0    | Note 3    |
| 4496.930  | 39.4         | V   | 54.0            | -14.6  | AVG       | 272     | 1.0    | Note 2, 3 |
| 4497.130  | 51.5         | V   | 74.0            | -22.5  | PK        | 272     | 1.0    | Note 2, 3 |
| 3000.070  | 46.5         | V   | 54.0            | -7.5   | AVG       | 268     | 1.0    | Note 2, 3 |
| 2999.940  | 50.4         | V   | 74.0            | -23.6  | PK        | 268     | 1.0    | Note 2, 3 |

|         |                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.                     |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                                       |
| Note 3: | Not radio related. See notes for 2.4GHz Wifi Spurious RE.                                                                                                                                       |
| Note 4: | Scans made between 18 - 26GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1b: Center Channel @ 2440 MHz

|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain B | -            | 3.20                             | Default          |

Note - measured power in table above is average power, for reference only.

## Fundamental Signal Field Strength: Peak value measured in 100kHz

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                     |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                              |
| 2439.930  | 100.6        | H   | -               | -      | Pk        | 191     | 1.0    | POS; RB 100 kHz; VB: 100 kHz |
| 2439.970  | 94.0         | V   | -               | -      | Pk        | 88      | 1.0    | POS; RB 100 kHz; VB: 100 kHz |

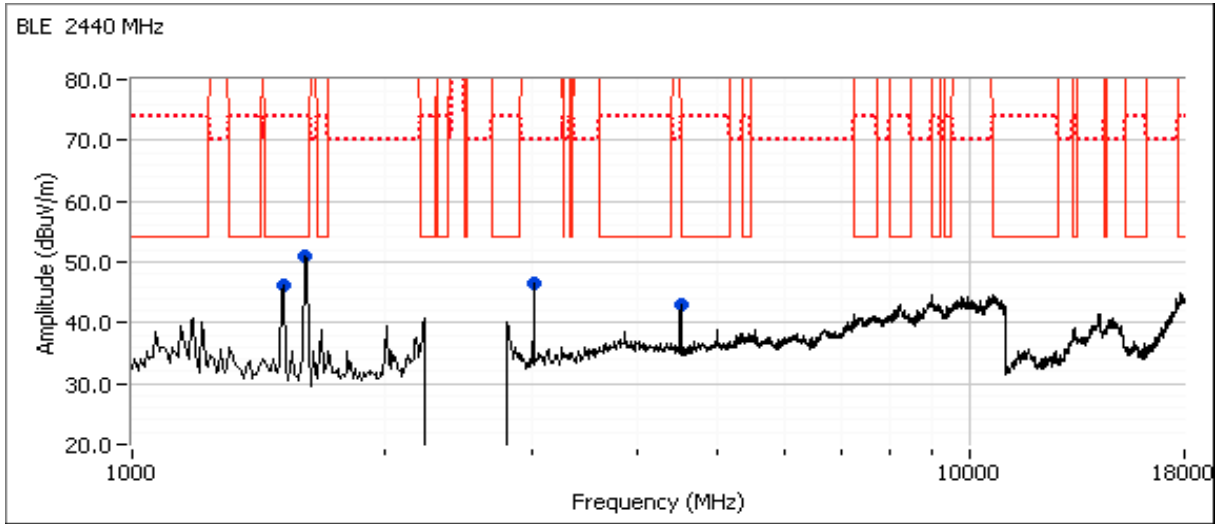
|                                                  |       |              |                                          |
|--------------------------------------------------|-------|--------------|------------------------------------------|
| Fundamental emission level @ 3m in 100kHz RBW:   | 100.6 | dB $\mu$ V/m |                                          |
| Limit for emissions outside of restricted bands: | 80.6  | dB $\mu$ V/m | Limit is -20dBc (Peak power measurement) |
| Limit for emissions outside of restricted bands: | 70.6  | dB $\mu$ V/m | Limit is -30dBc (UNII power measurement) |

## Other Spurious Emissions

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments  |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|-----------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |           |
| 1498.940  | 44.0   | H   | 54.0            | -10.0  | AVG       | 208     | 1.3    | Note 3    |
| 1497.140  | 52.5   | H   | 74.0            | -21.5  | PK        | 208     | 1.3    | Note 3    |
| 1593.860  | 40.6   | V   | 54.0            | -13.4  | AVG       | 274     | 1.0    | Note 3    |
| 1597.330  | 59.4   | V   | 74.0            | -14.6  | PK        | 274     | 1.0    | Note 3    |
| 3000.140  | 45.9   | V   | 54.0            | -8.1   | AVG       | 264     | 1.0    | Note 2, 3 |
| 3000.140  | 50.5   | V   | 74.0            | -23.5  | PK        | 264     | 1.0    | Note 2, 3 |
| 4496.960  | 39.8   | V   | 54.0            | -14.2  | AVG       | 268     | 1.0    | Note 2, 3 |
| 4496.230  | 50.6   | V   | 74.0            | -23.4  | PK        | 268     | 1.0    | Note 2, 3 |

|         |                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.                     |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                                       |
| Note 3: | Not radio related. See notes for 2.4GHz Wifi Spurious RE.                                                                                                                                       |
| Note 4: | Scans made between 18 - 26GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Run #1c: High Channel @ 2480 MHz

|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain B | -            | 3.40                             | Default          |

Note - measured power in table above is average power, for reference only.

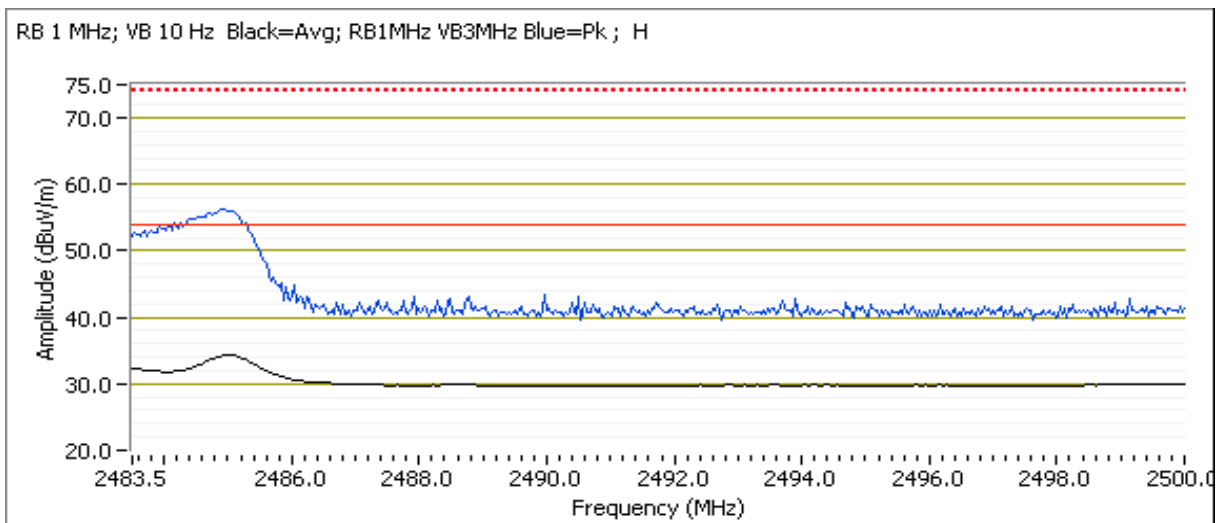
## Fundamental Signal Field Strength: Peak value measured in 100kHz

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                     |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                              |
| 2480.010  | 98.6         | H   | -               | -      | Pk        | 192     | 1.0    | POS; RB 100 kHz; VB: 100 kHz |
| 2479.950  | 94.4         | V   | -               | -      | Pk        | 92      | 1.0    | POS; RB 100 kHz; VB: 100 kHz |

|                                                  |      |              |                                          |
|--------------------------------------------------|------|--------------|------------------------------------------|
| Fundamental emission level @ 3m in 100kHz RBW:   | 98.6 | dB $\mu$ V/m |                                          |
| Limit for emissions outside of restricted bands: | 78.6 | dB $\mu$ V/m | Limit is -20dBc (Peak power measurement) |
| Limit for emissions outside of restricted bands: | 68.6 | dB $\mu$ V/m | Limit is -30dBc (UNII power measurement) |

## Band Edge Signal Field Strength - Direct measurement of field strength

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2484.990  | 38.2         | H   | 54.0            | -15.8  | AVG       | 189     | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 2484.530  | 56.1         | H   | 74.0            | -17.9  | PK        | 189     | 1.0    | POS; RB 1 MHz; VB: 3 MHz |
| 2485.020  | 36.5         | V   | 54.0            | -17.5  | AVG       | 90      | 1.0    | POS; RB 1 MHz; VB: 10 Hz |
| 2484.660  | 52.4         | V   | 74.0            | -21.6  | PK        | 90      | 1.0    | POS; RB 1 MHz; VB: 3 MHz |

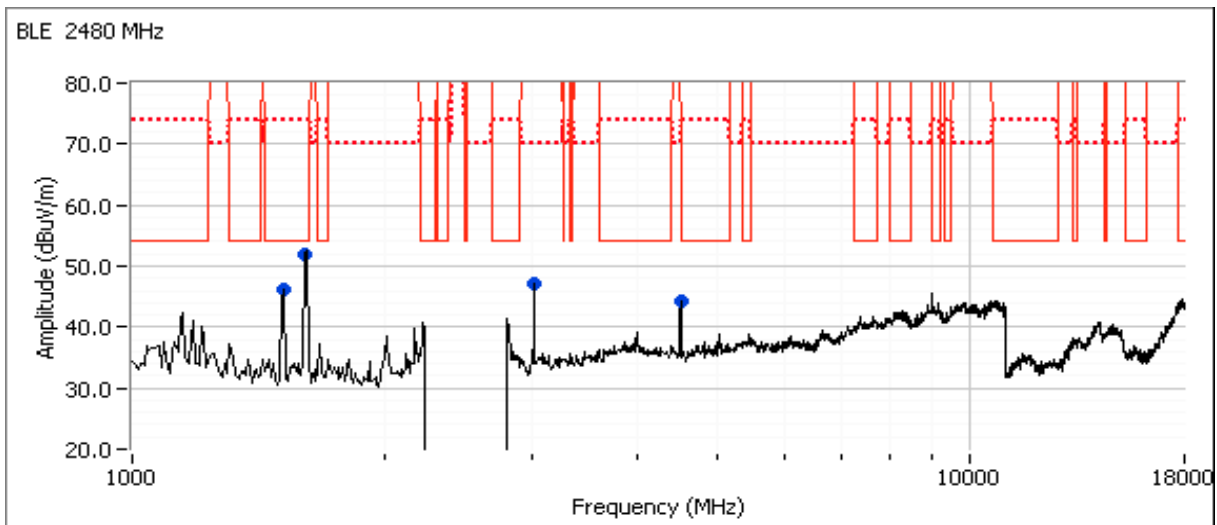


|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95471            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Other Spurious Emissions

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments  |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|-----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |           |
| 1499.140  | 44.0         | H   | 54.0            | -10.0  | AVG       | 206     | 1.3    | Note 3    |
| 1499.240  | 52.9         | H   | 74.0            | -21.1  | PK        | 206     | 1.3    | Note 3    |
| 1598.760  | 40.9         | V   | 54.0            | -13.1  | AVG       | 263     | 1.0    | Note 3    |
| 1592.460  | 60.2         | V   | 74.0            | -13.8  | PK        | 263     | 1.0    | Note 3    |
| 3000.150  | 46.3         | V   | 54.0            | -7.7   | AVG       | 326     | 1.0    | Note 2, 3 |
| 3000.190  | 50.7         | V   | 74.0            | -23.3  | PK        | 326     | 1.0    | Note 2, 3 |
| 4497.060  | 40.2         | V   | 54.0            | -13.8  | AVG       | 272     | 1.0    | Note 2, 3 |
| 4496.200  | 51.7         | V   | 74.0            | -22.3  | PK        | 272     | 1.0    | Note 2, 3 |

|         |                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.                     |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                                       |
| Note 3: | Not radio related. See notes for 2.4GHz Wifi Spurious RE.                                                                                                                                       |
| Note 4: | Scans made between 18 - 26GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range |





## EMC Test Data

|                        |                                  |                      |                   |
|------------------------|----------------------------------|----------------------|-------------------|
| Client:                | Intel Corporation                | Job Number:          | J94914            |
| Product                | 7265D2W                          | T-Log Number:        | T95472            |
|                        |                                  | Project Manager:     | Christine Krebill |
| Contact:               | Steve Hackett                    | Project Coordinator: | -                 |
| Emissions Standard(s): | FCC Part 15.247, 15.407, RSS-210 | Class:               | B                 |
| Immunity Standard(s):  | -                                | Environment:         | Radio             |

## EMC Test Data

For The

**Intel Corporation**

Product

7265D2W

Date of Last Test: 7/8/2014



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

#### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

#### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing. For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

For Bluetooth: Tx is chain B, Rx is chain B. For WiFi, only Chain A is used for transmit in the 2.4GHz band when Bluetooth is active, both chains can be used in 5GHz bands.

#### Ambient Conditions:

Temperature: 24 °C  
Rel. Humidity: 39 %

#### Summary of Results

MAC Address: 001500F15B3A DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

| Run # | Mode                | Channel            | Power Setting | Measured Power | Test Performed                  | Limit      | Result / Margin                     |
|-------|---------------------|--------------------|---------------|----------------|---------------------------------|------------|-------------------------------------|
| 1     | BT 1Mb/s<br>802.11b | 2402MHz<br>2412MHz | 10<br>14.5    | 4.8<br>17.6    | Radiated Emissions<br>1- 10 GHz | FCC 15.247 | 56.8 dBμV/m @ 1199.1 MHz (-17.2 dB) |
| 2     | BT 1Mb/s<br>802.11b | 2480MHz<br>2462MHz | 10<br>14.0    | 5.0<br>17.7    |                                 | FCC 15.247 | 43.5 dBμV/m @ 4924.0 MHz (-10.5 dB) |
| 3     | BT 1Mb/s<br>802.11g | 2402MHz<br>2412MHz | 10<br>20.5    | 4.8<br>17.7    |                                 | FCC 15.247 | 56.3 dBμV/m @ 1196.0 MHz (-17.7 dB) |
| 4     | BT 1Mb/s<br>802.11g | 2480MHz<br>2462MHz | 10<br>19.5    | 5.0<br>17.5    |                                 | FCC 15.247 | 53.3 dBμV/m @ 1198.7 MHz (-20.7 dB) |

# EMC Test Data

|                                                                                                                                                    |                                  |                      |                   |                    |                                 |                      |                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------|-------------------|--------------------|---------------------------------|----------------------|--------------------------------------------------------------------------------|
| Client:                                                                                                                                            | Intel Corporation                |                      |                   |                    |                                 | Job Number:          | J94914                                                                         |
| Model:                                                                                                                                             | 7265D2W                          |                      |                   |                    |                                 | T-Log Number:        | T95472                                                                         |
|                                                                                                                                                    |                                  |                      |                   |                    |                                 | Project Manager:     | Christine Krebill                                                              |
| Contact:                                                                                                                                           | Steve Hackett                    |                      |                   |                    |                                 | Project Coordinator: | -                                                                              |
| Standard:                                                                                                                                          | FCC Part 15.247, 15.407, RSS-210 |                      |                   |                    |                                 | Class:               | N/A                                                                            |
|                                                                                                                                                    |                                  |                      |                   |                    |                                 |                      |                                                                                |
| Run #                                                                                                                                              | Mode                             | Channel              | Power Setting     | Measured Power     | Test Performed                  | Limit                | Result / Margin                                                                |
| WiFi mode for the following runs based on worst case mode from runs 1 through 4                                                                    |                                  |                      |                   |                    |                                 |                      |                                                                                |
| 5                                                                                                                                                  | BT 1Mb/s<br>802.11b              | 2402MHz<br>2437MHz   | 10<br>14          | 4.8<br>17.7        | Radiated Emissions<br>1- 10 GHz | FCC 15.247           | 46.1 dBµV/m @ 2366.1 MHz (-7.9 dB)                                             |
| 6                                                                                                                                                  | BT 1Mb/s<br>802.11b              | 2440MHz<br>2412MHz   | 10<br>14.5        | 5.1<br>17.6        |                                 | FCC 15.247           | 41.9 dBµV/m @ 2356.8 MHz (-12.1 dB)                                            |
| 7                                                                                                                                                  | BT 1Mb/s<br>802.11b              | 2440MHz<br>2462MHz   | 10<br>14          | 5.1<br>17.7        | Radiated Emissions<br>1- 10 GHz | FCC 15.247           | 41.3 dBµV/m @ 4924.0 MHz (-12.7 dB)                                            |
| 8                                                                                                                                                  | BT 1Mb/s<br>802.11b              | 2480MHz<br>2437MHz   | 10<br>14          | 5.0<br>17.7        |                                 | FCC 15.247           | 41.1 dBµV/m @ 4874.0 MHz (-12.9 dB)                                            |
| WiFi mode and channel and Bluetooth channel based on the worst case mode from runs 1 through 8                                                     |                                  |                      |                   |                    |                                 |                      |                                                                                |
| 9                                                                                                                                                  | BT 3Mb/s<br>802.11b              | 2440 MHz<br>2462 MHz | 6<br>14           | 1.2<br>17.7        | Radiated Emissions<br>1- 10 GHz | FCC 15.247           | 41.4 dBµV/m @ 4924.0 MHz (-12.6 dB)                                            |
| 10                                                                                                                                                 | BTLE<br>802.11b                  | 2440 MHz<br>2462 MHz | Default<br>14     | 3.2<br>17.7        |                                 | FCC 15.247           | 43.5 dBµV/m @ 4924.0 MHz (-10.5 dB)                                            |
| WiFi mode - 802.11n 20MHz with both chains active at 16.5 dBm per chain, center channel in each 5GHz band. Bluetooth on center channel, 1Mb/s mode |                                  |                      |                   |                    |                                 |                      |                                                                                |
| 11                                                                                                                                                 | BT 1Mb/s<br>802.11n20            | 2440MHz<br>5200MHz   | 10<br>31.0 / 32.0 | 5.1<br>16.6 / 16.5 | Radiated Emissions<br>1- 15 GHz | FCC 15.247           | No intermodulation founded<br>Other Emissions refer to the spurious RE results |
| 12                                                                                                                                                 | BT 1Mb/s<br>802.11n20            | 2440MHz<br>5300MHz   | 10<br>32.0 / 33.0 | 5.1<br>16.6 / 16.5 |                                 | FCC 15.247           | No intermodulation founded<br>Other Emissions refer to the spurious RE results |
| 13                                                                                                                                                 | BT 1Mb/s<br>802.11n20            | 2440MHz<br>5580MHz   | 10<br>28.5 / 29.5 | 5.1<br>16.5 / 16.6 |                                 | FCC 15.247           | No intermodulation founded<br>Other Emissions refer to the spurious RE results |
| 14                                                                                                                                                 | BT 1Mb/s<br>802.11n20            | 2440MHz<br>5785MHz   | 10<br>34.5 / 35.5 | 5.1<br>16.7 / 16.5 |                                 | FCC 15.247           | No intermodulation founded<br>Other Emissions refer to the spurious RE results |
|                                                                                                                                                    |                                  |                      |                   |                    |                                 |                      |                                                                                |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Modifications Made During Testing

No modifications were made to the EUT during testing

## Deviations From The Standard

No deviations were made from the requirements of the standard.

## Notes:

Bluetooth uses a frequency hopping algorithm that means that the device, during normal operation, is only on a specific channel for a short period of time. The average correction factor is calculated as follows:

A maximum length packet has a duration of 5 time slots.

The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms.

With a minimum of 20 hopping channels a channel will not be used more than 4 times in any 100ms period.

The maximum dwell time in a 100ms period is  $4 \times 3.125\text{ms} = 12.5\text{ms}$ .

The average correction factor is, therefore,  $20\log(12.5/100) = -18\text{dB}$

As this is a hopping radio this correction factor can be applied to the average value of the signal provided the average value was measured with the device continuously transmitting. DA 00-0705 permits the use of the average correction on the measured average value for frequency hopping radios.

All measurements in this data sheet do not include the average correction factor.

Antenna: Skycross WiMax/WLAN

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #1: 1-10GHz, 802.11b @ 2412 MHz Chain A, BT Basic Rate @ 2402 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: Jack Liu

Config Change: None

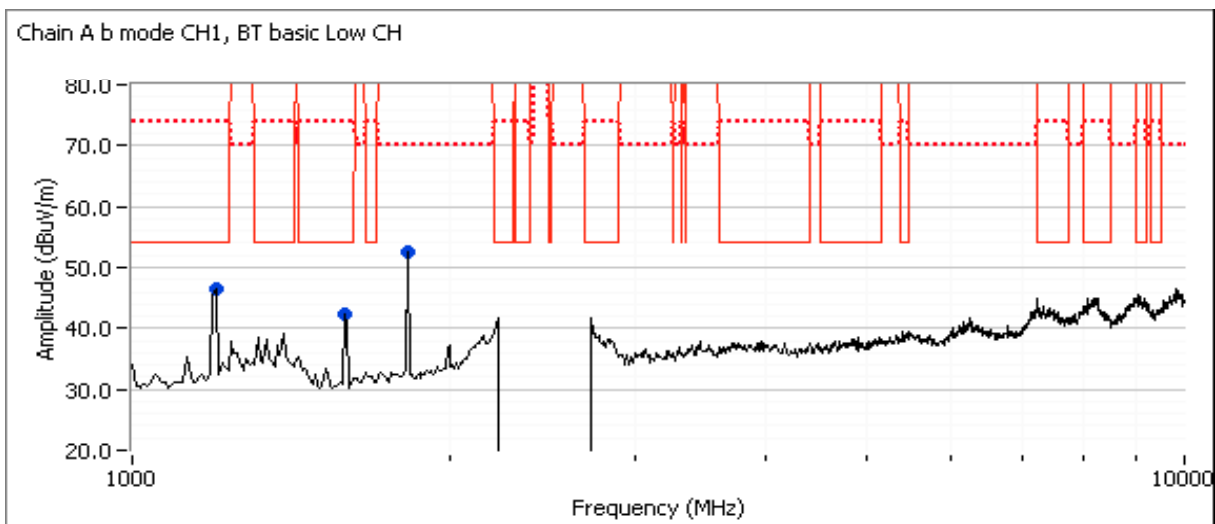
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.6                             | 14.5             |
| Chain B | -            | 4.8                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

*Preliminary Measurements (Peak versus average limit)*

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1200.000  | 46.6   | V   | 54.0          | -7.4   | Peak      | 220     | 1.0    |          |
| 1825.000  | 52.6   | V   | 70.0          | -17.4  | Peak      | 60      | 2.2    |          |
| 1591.670  | 42.4   | V   | 54.0          | -11.6  | Peak      | 260     | 1.6    |          |



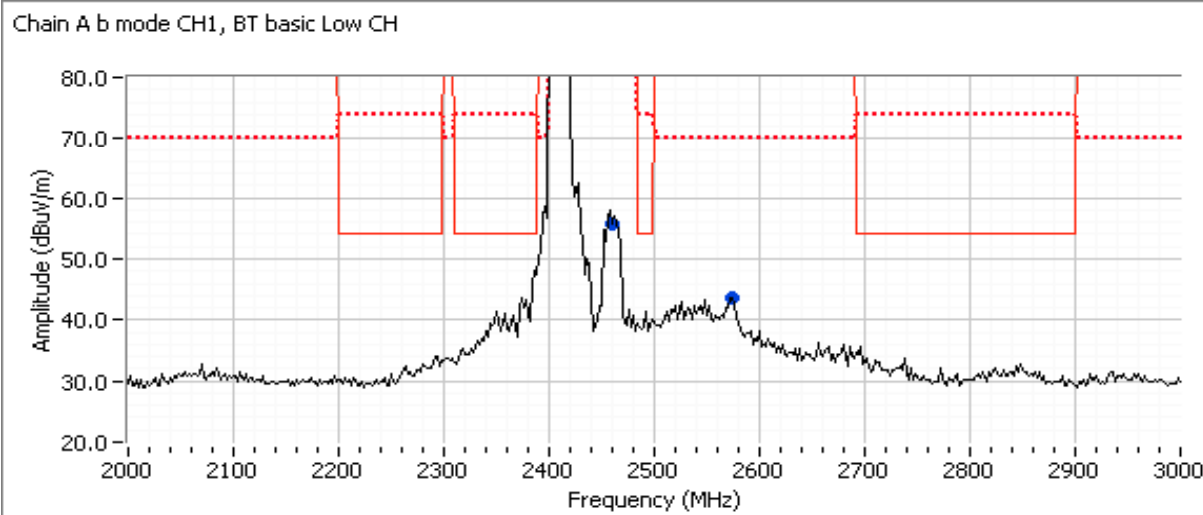
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 1196.800  | 31.4         | V   | 54.0            | -22.6  | AVG       | 237     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1199.130  | 56.8         | V   | 74.0            | -17.2  | PK        | 237     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1819.800  | 27.3         | V   | 54.0            | -26.7  | AVG       | 195     | 1.9    | Note 2                 |
| 1819.600  | 39.2         | V   | 74.0            | -34.8  | PK        | 195     | 1.9    | Note 2                 |
| 1594.340  | 31.2         | V   | 54.0            | -22.8  | AVG       | 61      | 1.6    | RB 1 MHz;VB 10 Hz;Peak |
| 1594.940  | 47.0         | V   | 74.0            | -27.0  | PK        | 61      | 1.6    | RB 1 MHz;VB 3 MHz;Peak |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                    |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|-----------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |                             |
| 2460.920  | 55.9         | H   | -             | -      | Peak      | 180     | 1.0    | In band intermittent signal |
| 2573.150  | 43.6         | H   | 54.0          | -10.4  | Peak      | 180     | 1.0    | Note 2                      |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |
| 2573.150  | 43.6         | H   | 54.0            | -10.4  | Peak      | 180     | 1.0    | Note 2   |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #2: 1-10GHz, 802.11b @ 2462 MHz Chain A, BT Basic Rate @ 2480 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: Jack Liu / R. Varelas

Config Change: None

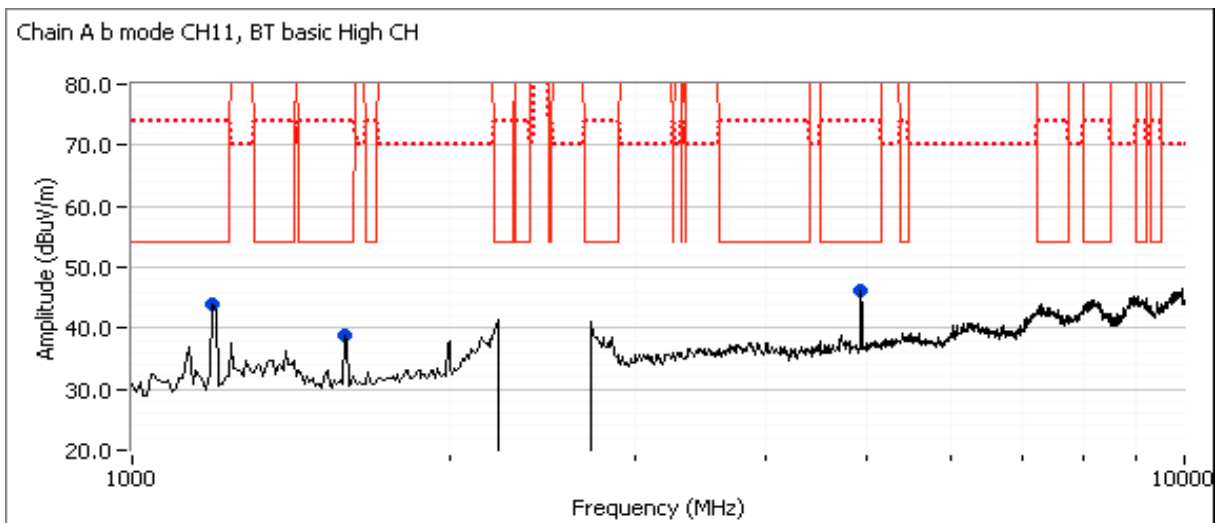
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.7                             | 14.0             |
| Chain B | -            | 5.0                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1191.670  | 43.8   | H   | 54.0          | -10.2  | Peak      | 113     | 1.5    |          |
| 1591.670  | 38.7   | V   | 54.0          | -15.3  | Peak      | 126     | 2.0    |          |
| 4925.000  | 46.2   | V   | 54.0          | -7.8   | Peak      | 143     | 1.5    |          |



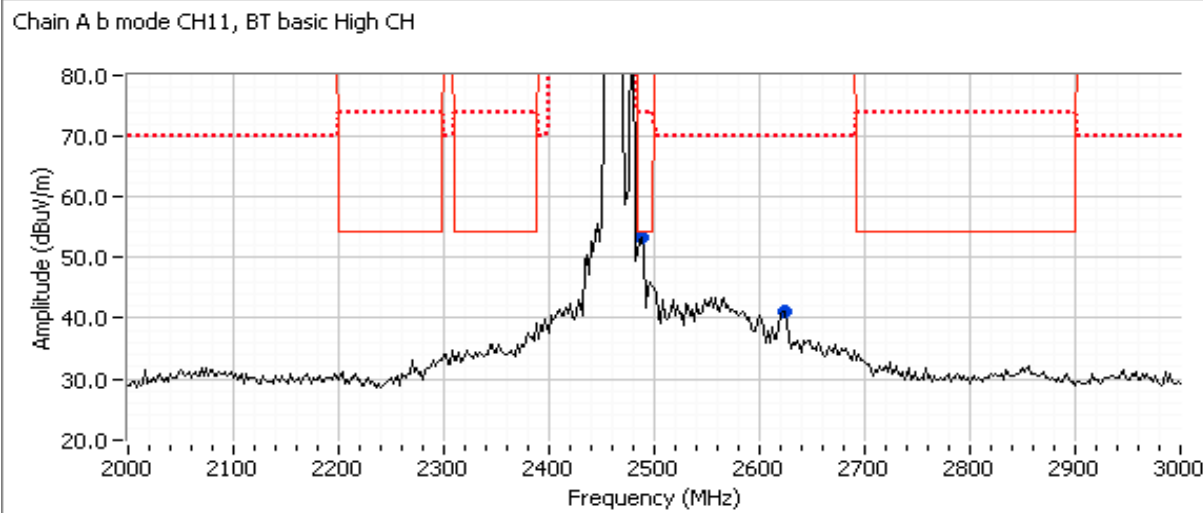
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 4923.980  | 43.5         | V   | 54.0            | -10.5  | AVG       | 207     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 4924.070  | 49.0         | V   | 74.0            | -25.0  | PK        | 207     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1174.670  | 30.3         | H   | 54.0            | -23.7  | AVG       | 252     | 1.7    | RB 1 MHz;VB 10 Hz;Peak |
| 1195.670  | 48.7         | H   | 74.0            | -25.3  | PK        | 252     | 1.7    | RB 1 MHz;VB 3 MHz;Peak |
| 1597.800  | 30.3         | V   | 54.0            | -23.7  | AVG       | 284     | 1.8    | RB 1 MHz;VB 10 Hz;Peak |
| 1597.470  | 48.6         | V   | 74.0            | -25.4  | PK        | 284     | 1.8    | RB 1 MHz;VB 3 MHz;Peak |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                       |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|--------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |                                |
| 2488.980  | 53.1         | H   | -             | -      | Peak      | 180     | 1.0    | Refer to Band Edge test result |
| 2623.250  | 41.0         | H   | 54.0          | -13.0  | Peak      | 180     | 1.0    | Note 2                         |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |
| 2623.250  | 41.0         | H   | 54.0            | -13.0  | Peak      | 180     | 1.0    | Note 2   |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied.                                                                |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #3: 1-10GHz, 802.11g @ 2412 MHz Chain A, BT Basic Rate @ 2402 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: Jack Liu / R. Varelas

Config Change: None

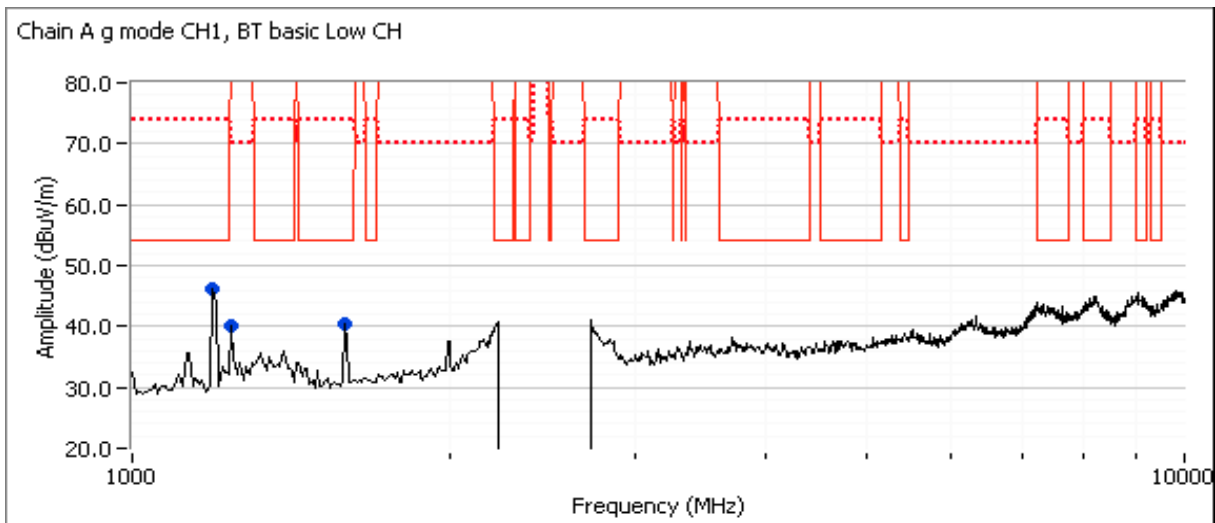
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 14.0         | 17.7                             | 20.5             |
| Chain B | -            | 5.0                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1191.670  | 46.3   | V   | 54.0          | -7.7   | Peak      | 232     | 1.0    |          |
| 1241.670  | 40.0   | H   | 70.0          | -30.0  | Peak      | 216     | 1.0    |          |
| 1591.670  | 40.4   | V   | 54.0          | -13.6  | Peak      | 108     | 2.0    |          |



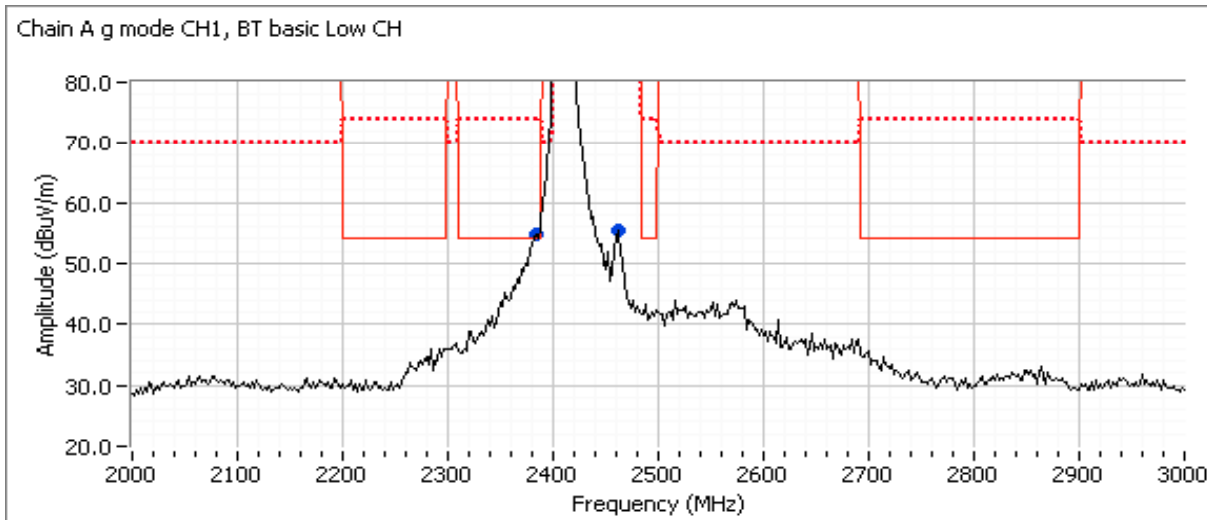
|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 1197.000  | 31.8         | V   | 54.0            | -22.2  | AVG       | 227     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1196.000  | 56.3         | V   | 74.0            | -17.7  | PK        | 227     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1260.940  | 29.1         | H   | 54.0            | -24.9  | AVG       | 129     | 1.4    | Note 2                 |
| 1241.070  | 42.8         | H   | 74.0            | -31.2  | PK        | 129     | 1.4    | Note 2                 |
| 1594.540  | 30.9         | V   | 54.0            | -23.1  | AVG       | 80      | 1.5    | RB 1 MHz;VB 10 Hz;Peak |
| 1594.070  | 46.2         | V   | 74.0            | -27.8  | PK        | 80      | 1.5    | RB 1 MHz;VB 3 MHz;Peak |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                       |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|--------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |                                |
| 2462.930  | 55.3         | V   | -             | -      | Peak      | 180     | 1.0    | In band intermittent signal    |
| 2384.770  | 54.8         | V   | -             | -      | Peak      | 180     | 1.0    | Refer to Band Edge test result |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded

- Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.
- Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.
- Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #4: 1-10GHz, 802.11g @ 2462 MHz Chain A, BT Basic Rate @ 2480 MHz Chain B  
 Date of Test: 6/18/2014 Test Location: FT Chamber #4  
 Test Engineer: Jack Liu / R. Varelas Config Change: None

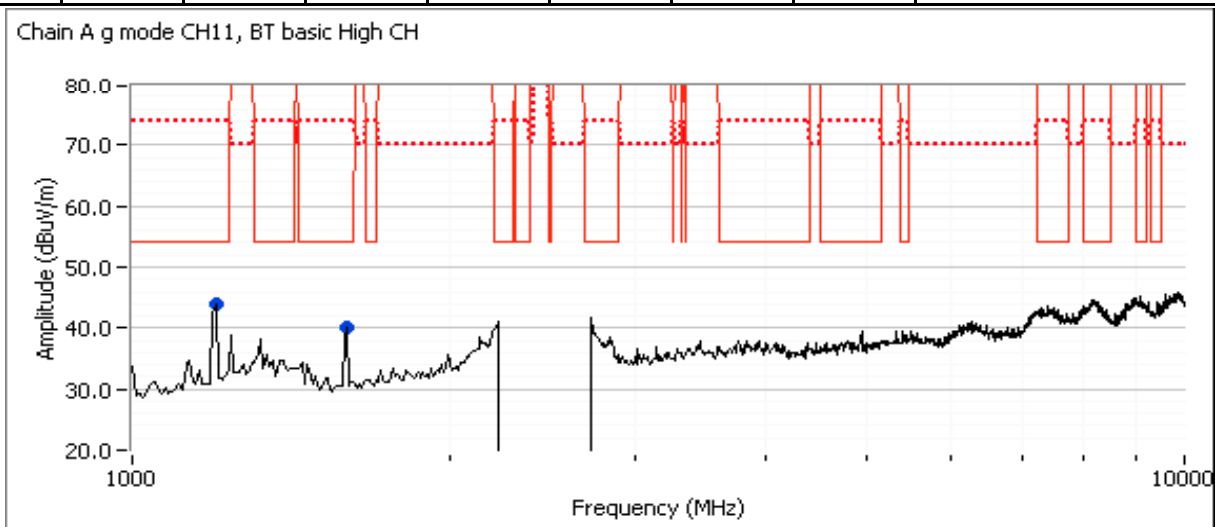
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 12.5         | 17.5                             | 19.5             |
| Chain B | -            | 5.0                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

### Preliminary Measurements (Peak versus average limit)

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1600.000  | 40.2   | V   | 54.0          | -13.8  | Peak      | 221     | 1.5    |          |
| 1200.000  | 43.9   | V   | 54.0          | -10.1  | Peak      | 259     | 1.0    |          |



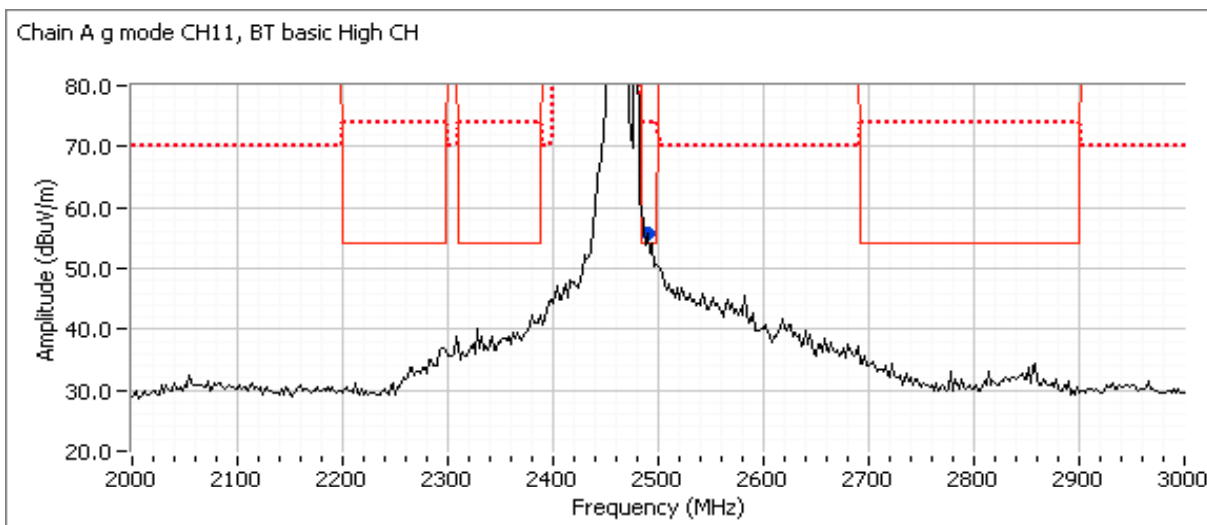
### Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                        |
| 1598.670  | 31.1   | V   | 54.0            | -22.9  | AVG       | 62      | 1.5    | RB 1 MHz;VB 10 Hz;Peak |
| 1593.930  | 47.7   | V   | 74.0            | -26.3  | PK        | 62      | 1.5    | RB 1 MHz;VB 3 MHz;Peak |
| 1202.800  | 32.9   | V   | 54.0            | -21.1  | AVG       | 268     | 1.2    | RB 1 MHz;VB 10 Hz;Peak |
| 1198.730  | 53.3   | V   | 74.0            | -20.7  | PK        | 268     | 1.2    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                       |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|--------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                                |
| 2490.980  | 55.6         | V   | -             | -      | Peak      | 180     | 1.0    | Refer to Band Edge test result |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #5: 1-10GHz, 802.11b @ 2437 MHz Chain A, BT Basic Rate @ 2402 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu / R. Varelas

Config Change: None

|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 17.5         | 17.7                             | 14.0             |
| Chain B | -            | 4.8                              | 10.0             |

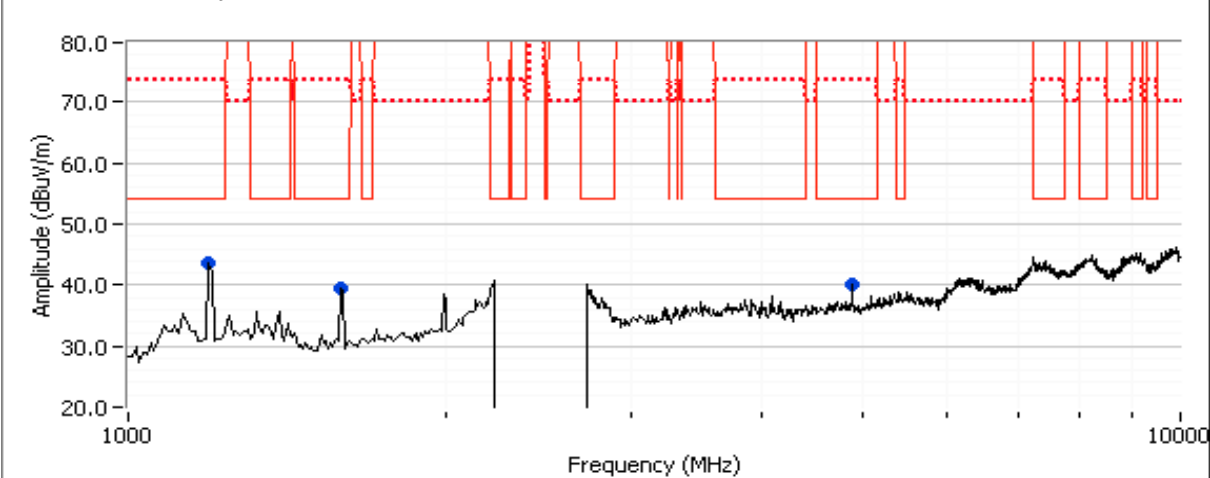
Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |
| 1195.120  | 44.6         | H   | 54.0          | -9.4   | Peak      | 114     | 1.3    |          |
| 1594.440  | 41.2         | V   | 54.0          | -12.8  | Peak      | 227     | 1.6    |          |
| 4874.170  | 42.4         | V   | 54.0          | -11.6  | Peak      | 141     | 1.3    |          |

Chain A b mode CH6, BT Basic Low CH



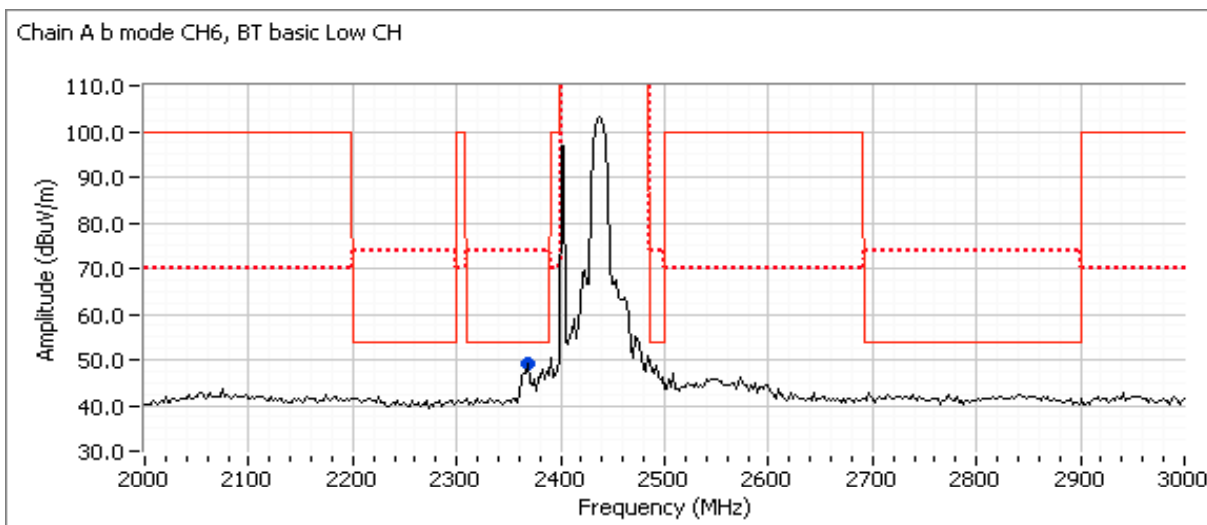
## Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 4873.970  | 40.2         | V   | 54.0            | -13.8  | AVG       | 154     | 1.9    | RB 1 MHz;VB 10 Hz;Peak |
| 4873.870  | 46.9         | V   | 74.0            | -27.1  | PK        | 154     | 1.9    | RB 1 MHz;VB 3 MHz;Peak |
| 1594.510  | 30.4         | V   | 54.0            | -23.6  | AVG       | 223     | 1.3    | RB 1 MHz;VB 10 Hz;Peak |
| 1596.370  | 46.1         | V   | 74.0            | -27.9  | PK        | 223     | 1.3    | RB 1 MHz;VB 3 MHz;Peak |
| 1196.570  | 30.7         | H   | 54.0            | -23.3  | AVG       | 116     | 1.6    | RB 1 MHz;VB 10 Hz;Peak |
| 1194.630  | 53.7         | H   | 74.0            | -20.3  | PK        | 116     | 1.6    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 100cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 2368.740  | 49.2         | H   | 54.0          | -4.8   | Peak      | 210     | 1.5    |          |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2366.050  | 46.1         | H   | 54.0            | -7.9   | AVG       | 155     | 1.4    | POS; RB 1 MHz; VB: 10 Hz |
| 2366.300  | 54.2         | H   | 74.0            | -19.8  | PK        | 155     | 1.4    | POS; RB 1 MHz; VB: 3 MHz |

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz.

Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.

Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #6: 1-10GHz, 802.11b @ 2412 MHz Chain A, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu

Config Change: None

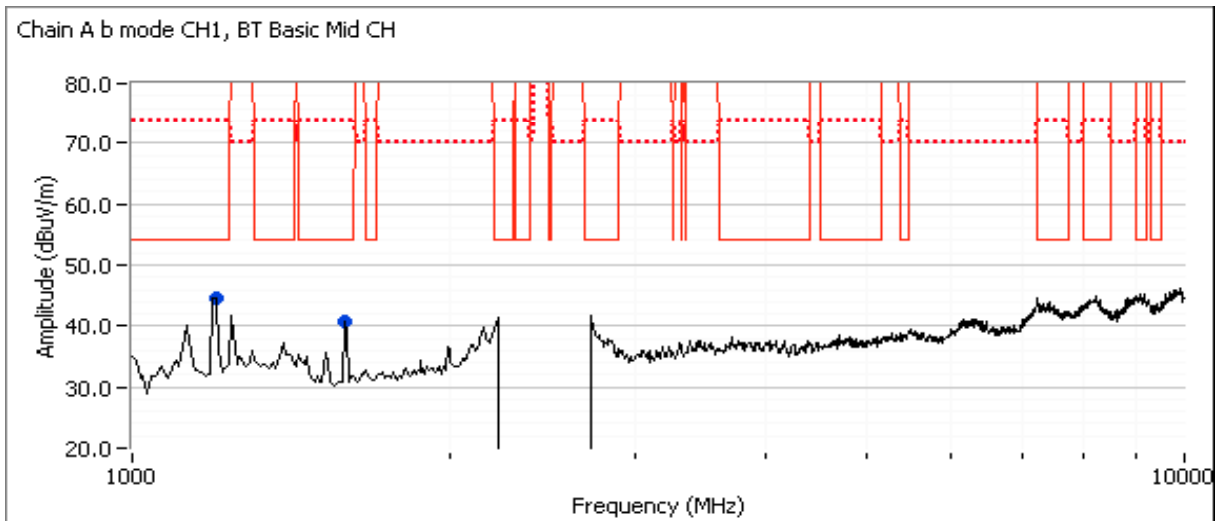
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.6                             | 14.5             |
| Chain B | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |
| 1198.140  | 44.7         | V   | 54.0          | -9.3   | Peak      | 275     | 1.3    |          |
| 1590.120  | 40.7         | V   | 54.0          | -13.3  | Peak      | 87      | 1.9    |          |



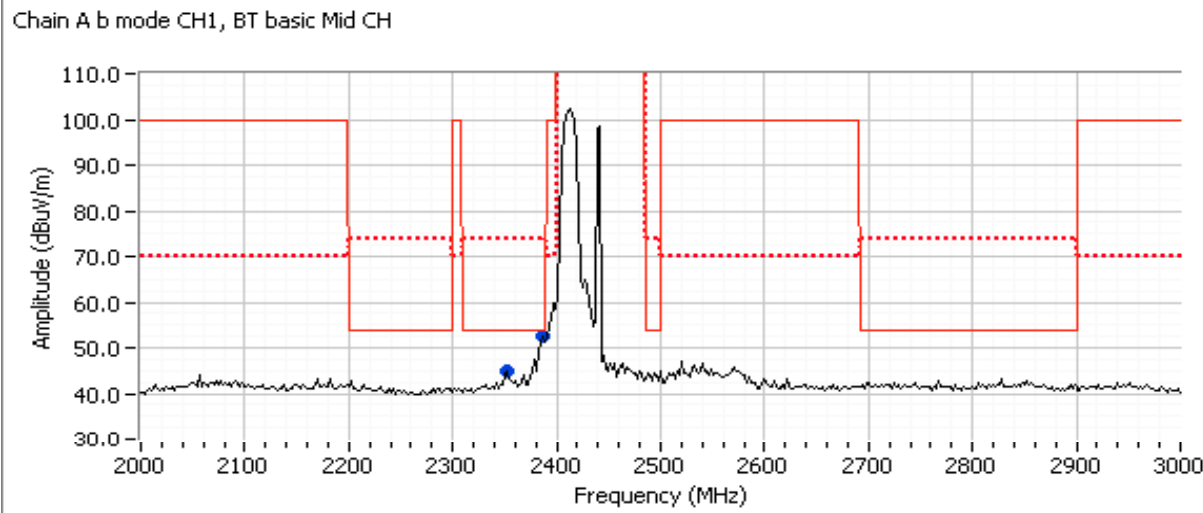
## Spurious Emissions excluding allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 1198.160  | 31.0         | V   | 54.0            | -23.0  | AVG       | 277     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1199.340  | 50.0         | V   | 74.0            | -24.0  | PK        | 277     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1591.090  | 28.8         | V   | 54.0            | -25.2  | AVG       | 93      | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1590.570  | 41.2         | V   | 74.0            | -32.8  | PK        | 93      | 1.0    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 100cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                       |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|--------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                                |
| 2386.770  | 52.5         | H   | -             | -      | Peak      | 203     | 1.0    | Refer to Band Edge test result |
| 2352.710  | 44.9         | H   | 54.0          | -9.1   | Peak      | 204     | 1.5    |                                |



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments                 |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|--------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                          |
| 2356.760  | 41.9         | H   | 54.0            | -12.1  | AVG       | 204     | 1.6    | POS; RB 1 MHz; VB: 10 Hz |
| 2356.600  | 51.1         | H   | 74.0            | -22.9  | PK        | 204     | 1.6    | POS; RB 1 MHz; VB: 3 MHz |

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz.

Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.

Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #7: 1-10GHz, 802.11b @ 2462 MHz Chain A, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu

Config Change: None

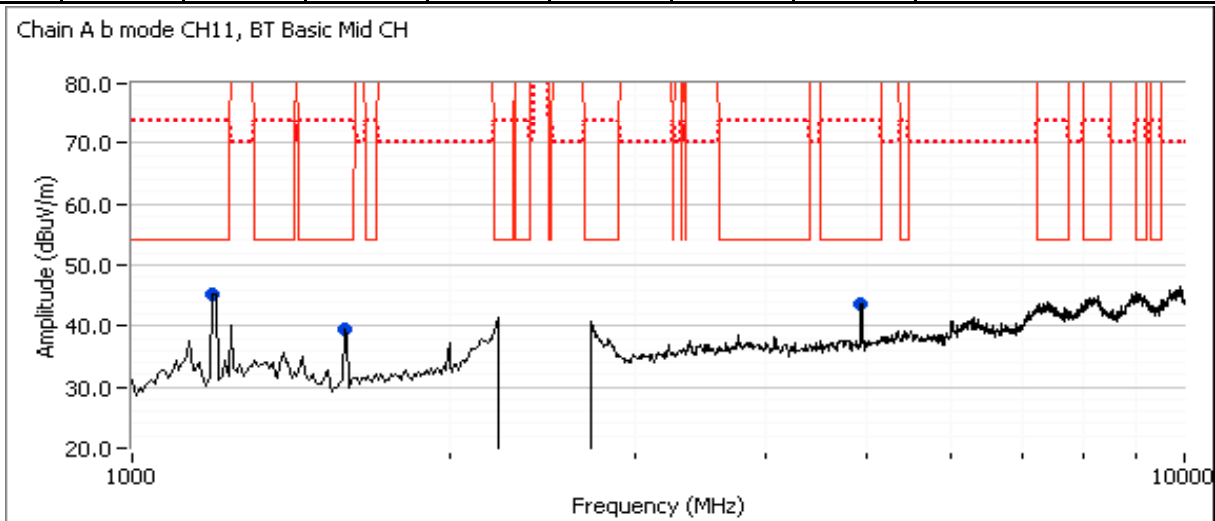
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.6                             | 14.5             |
| Chain B | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |
| 1195.250  | 45.3         | H   | 54.0          | -8.7   | Peak      | 111     | 1.3    |          |
| 1590.780  | 39.5         | H   | 54.0          | -14.5  | Peak      | 103     | 1.0    |          |
| 4924.000  | 43.7         | H   | 54.0          | -10.3  | Peak      | 189     | 1.6    |          |



## Spurious Emissions excluding allocated band (final measurements at 3m)

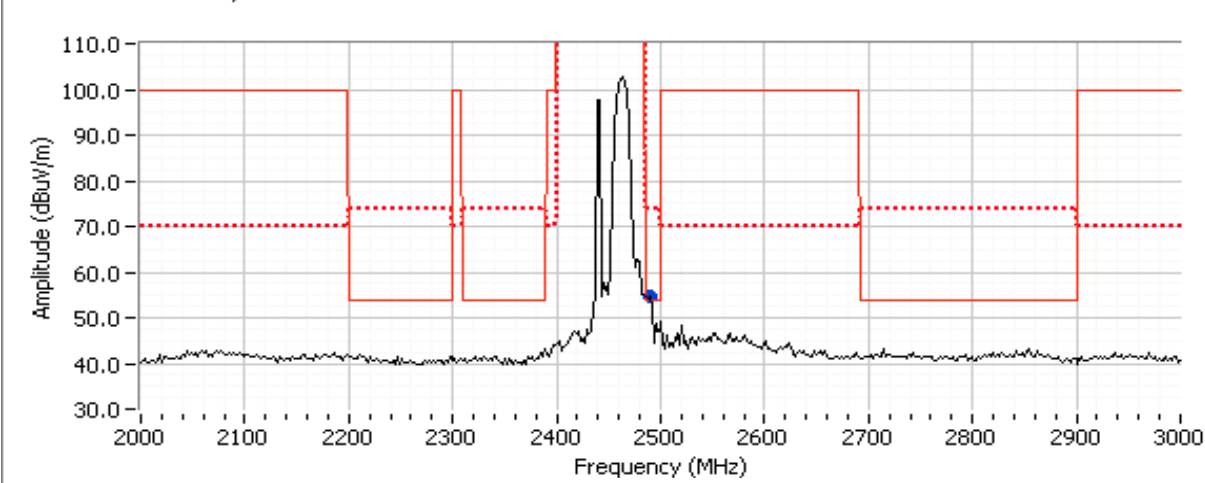
| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 4923.960  | 41.3         | H   | 54.0            | -12.7  | AVG       | 147     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 4924.020  | 46.9         | H   | 74.0            | -27.1  | PK        | 147     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1196.560  | 29.9         | H   | 54.0            | -24.1  | AVG       | 116     | 1.6    | RB 1 MHz;VB 10 Hz;Peak |
| 1196.320  | 53.6         | H   | 74.0            | -20.4  | PK        | 116     | 1.6    | RB 1 MHz;VB 3 MHz;Peak |
| 1592.010  | 29.2         | H   | 54.0            | -24.8  | AVG       | 101     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1592.100  | 40.7         | H   | 74.0            | -33.3  | PK        | 101     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                       |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|--------------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |                                |
| 2488.980  | 54.7         | H   | -             | -      | Peak      | 182     | 1.0    | Refer to Band Edge test result |

Chain A b mode CH11, BT basic Mid CH



## Spurious Emissions near allocated band (final measurements at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #8: 1-10GHz, 802.11b @ 2437 MHz Chain A, BT Basic Rate @ 2480 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu

Config Change: None

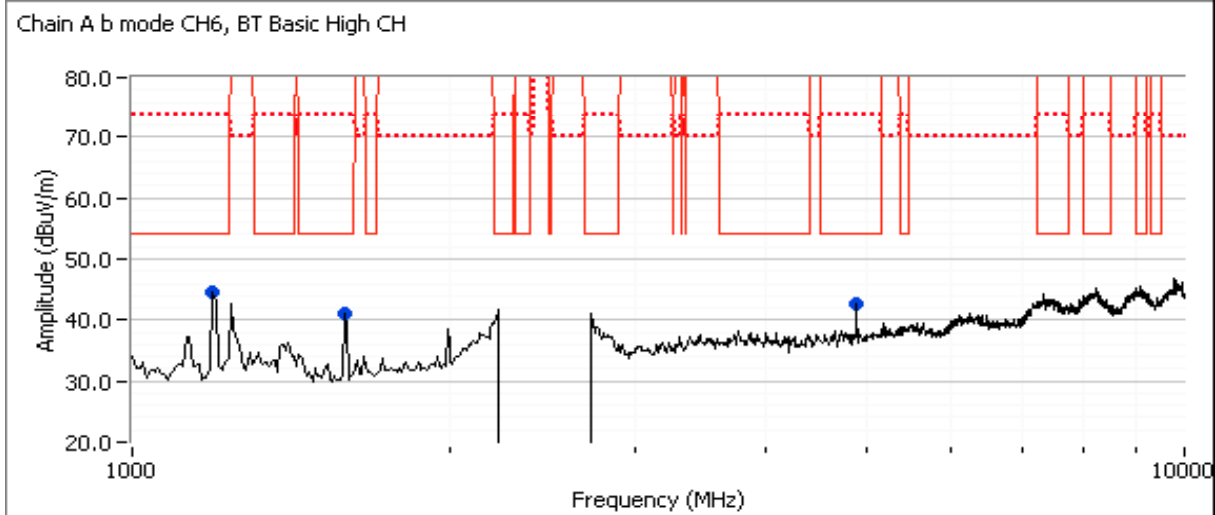
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.7                             | 14.0             |
| Chain B | -            | 5.0                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |
| 1192.970  | 44.7         | V   | 54.0          | -9.3   | Peak      | 224     | 1.0    |          |
| 1594.110  | 41.0         | H   | 54.0          | -13.0  | Peak      | 120     | 1.0    |          |
| 4874.080  | 42.6         | V   | 54.0          | -11.4  | Peak      | 154     | 1.9    |          |



## Spurious Emissions excluding allocated band (final measurements at 3m)

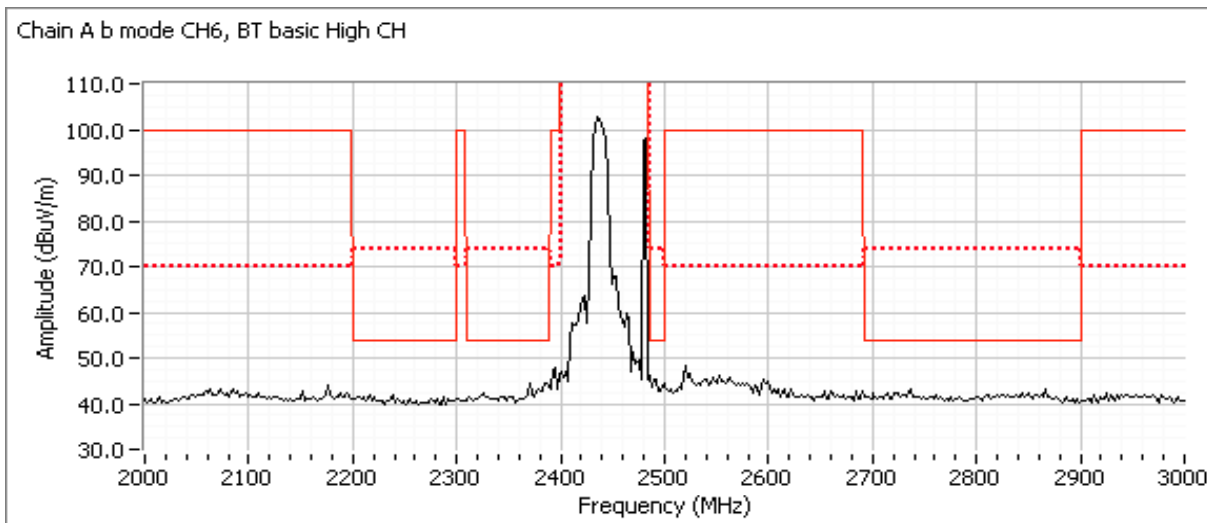
| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |                        |
| 4874.020  | 41.1         | V   | 54.0            | -12.9  | AVG       | 154     | 1.9    | RB 1 MHz;VB 10 Hz;Peak |
| 4874.190  | 47.0         | V   | 74.0            | -27.0  | PK        | 154     | 1.9    | RB 1 MHz;VB 3 MHz;Peak |
| 1595.050  | 31.7         | H   | 54.0            | -22.3  | AVG       | 121     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1593.860  | 49.9         | H   | 74.0            | -24.1  | PK        | 121     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1194.440  | 32.5         | V   | 54.0            | -21.5  | AVG       | 225     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1194.200  | 54.0         | V   | 74.0            | -20.0  | PK        | 225     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |

No emission founded



## Spurious Emissions near allocated band (final measurments at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #9: 1-10GHz, 802.11b @ 2412 MHz Chain A, BT EDR Rate @ 2440 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu

Config Change: None

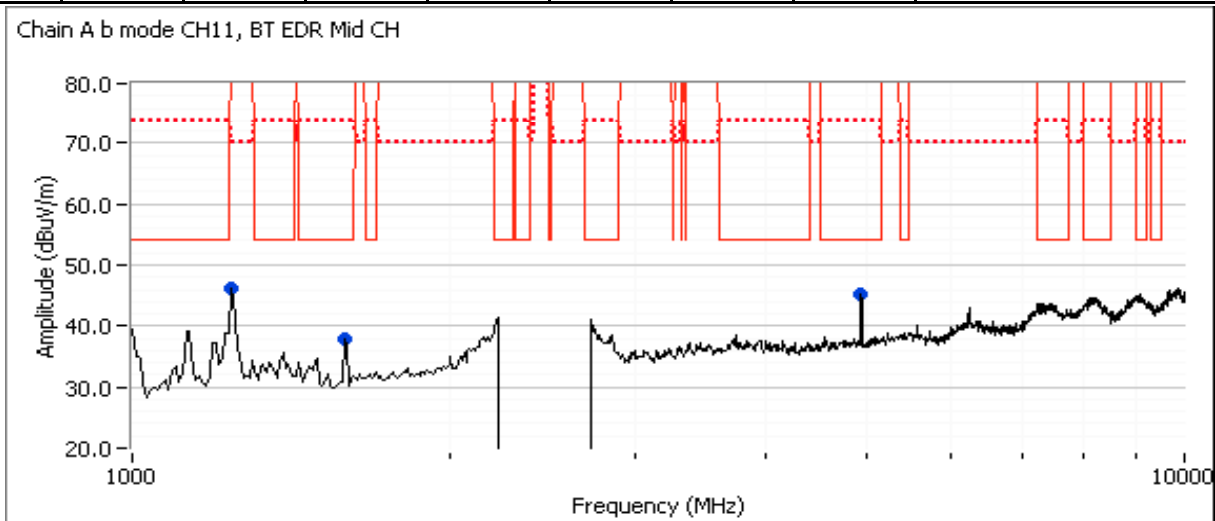
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.7                             | 14.0             |
| Chain B | -            | 1.2                              | 6.0              |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 100 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1245.000  | 46.2         | H   | 70.0          | -23.8  | Peak      | 119     | 1.3    |          |
| 1593.170  | 38.0         | H   | 54.0          | -16.0  | Peak      | 124     | 1.0    |          |
| 4924.030  | 45.2         | V   | 54.0          | -8.8   | Peak      | 115     | 1.3    |          |



## Spurious Emissions excluding allocated band (final measurements at 3m)

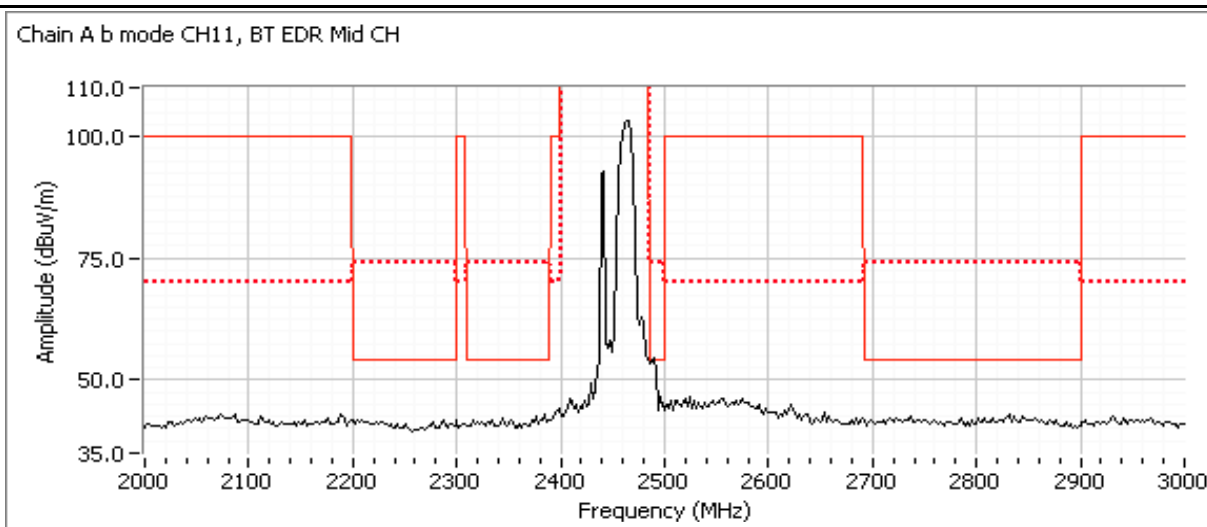
| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                        |
| 4923.970  | 41.4         | V   | 54.0            | -12.6  | AVG       | 146     | 1.9    | RB 1 MHz;VB 10 Hz;Peak |
| 4923.840  | 47.1         | V   | 74.0            | -26.9  | PK        | 146     | 1.9    | RB 1 MHz;VB 3 MHz;Peak |
| 1593.770  | 32.0         | H   | 54.0            | -22.0  | AVG       | 122     | 1.0    | RB 1 MHz;VB 10 Hz;Peak |
| 1592.460  | 47.7         | H   | 74.0            | -26.3  | PK        | 122     | 1.0    | RB 1 MHz;VB 3 MHz;Peak |
| 1244.940  | 52.4         | H   | 68.3            | -15.9  | PK        | 117     | 0.9    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded



## Spurious Emissions near allocated band (final measurments at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #10: 1-10GHz, 802.11b @ 2412 MHz Chain A, BTLE @ 2440 MHz Chain B

Date of Test: 6/19/2014

Test Location: FT Chamber 4

Test Engineer: Jack Liu

Config Change: None

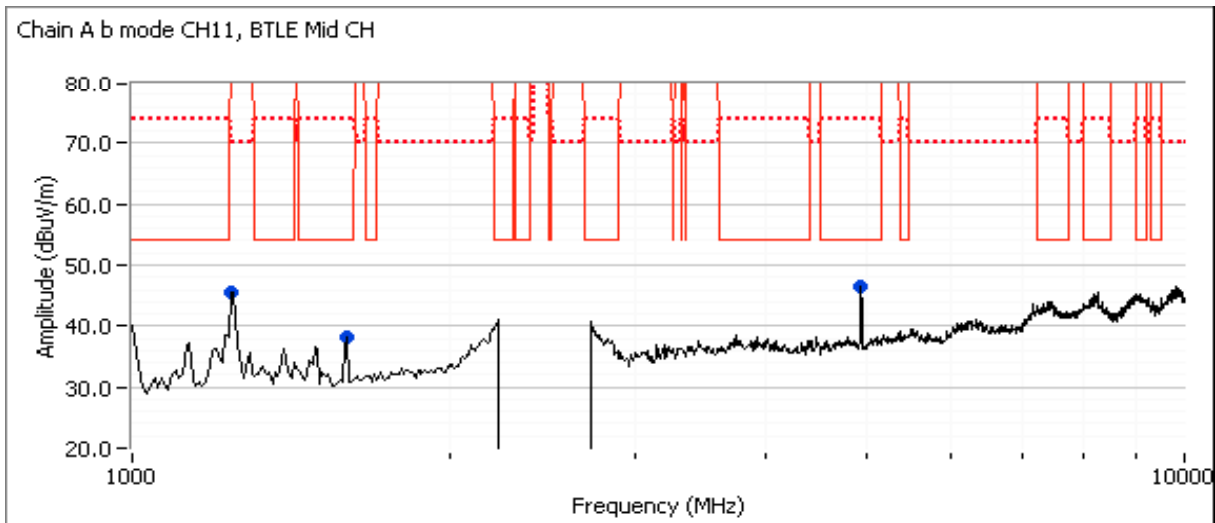
|         | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|---------|--------------|----------------------------------|------------------|
| Chain A | 16.5         | 17.7                             | 14.0             |
| Chain B | -            | 3.2                              | Default          |

Note - measured power in table above is average power, for reference only.

Perform normal 1-10 GHz scan with filter for fundamental and then 2-3 GHz scan 100 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |          |
| 1242.560  | 45.5         | H   | 70.0          | -24.5  | Peak      | 308     | 1.6    |          |
| 1598.530  | 38.2         | V   | 54.0          | -15.8  | Peak      | 60      | 1.6    |          |
| 4924.030  | 46.4         | V   | 54.0          | -7.6   | Peak      | 125     | 2.2    |          |



## Spurious Emissions excluding allocated band (final measurements at 3m)

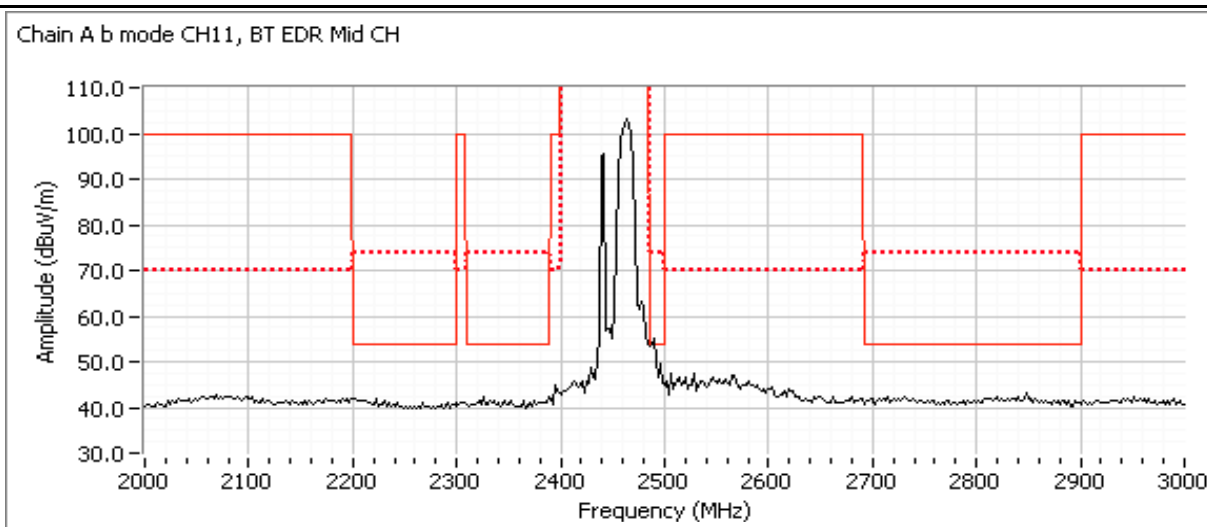
| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments               |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |                        |
| 4923.990  | 43.5         | V   | 54.0            | -10.5  | AVG       | 157     | 1.9    | RB 1 MHz;VB 10 Hz;Peak |
| 4923.950  | 48.4         | V   | 74.0            | -25.6  | PK        | 157     | 1.9    | RB 1 MHz;VB 3 MHz;Peak |
| 1243.960  | 48.4         | H   | 68.3            | -19.9  | PK        | 306     | 1.6    | RB 1 MHz;VB 3 MHz;Peak |
| 1598.280  | 31.6         | V   | 54.0            | -22.4  | AVG       | 58      | 1.5    | RB 1 MHz;VB 10 Hz;Peak |
| 1598.740  | 44.6         | V   | 74.0            | -29.4  | PK        | 58      | 1.5    | RB 1 MHz;VB 3 MHz;Peak |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded



## Spurious Emissions near allocated band (final measurments at 3m)

| Frequency | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit           | Margin | PK/QP/Avg | degrees | meters |          |

No intermodulation founded

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 30dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #11: 1-15GHz, 802.11n20 @ 5200 MHz Chain A+B, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: Jack Liu / R. Varelas

Config Change: None

|           | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|-----------|--------------|----------------------------------|------------------|
| WiFi A    | 16.0         | 16.6                             | 31.0             |
| WiFi B    | 16.0         | 16.5                             | 32.0             |
| Bluetooth | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

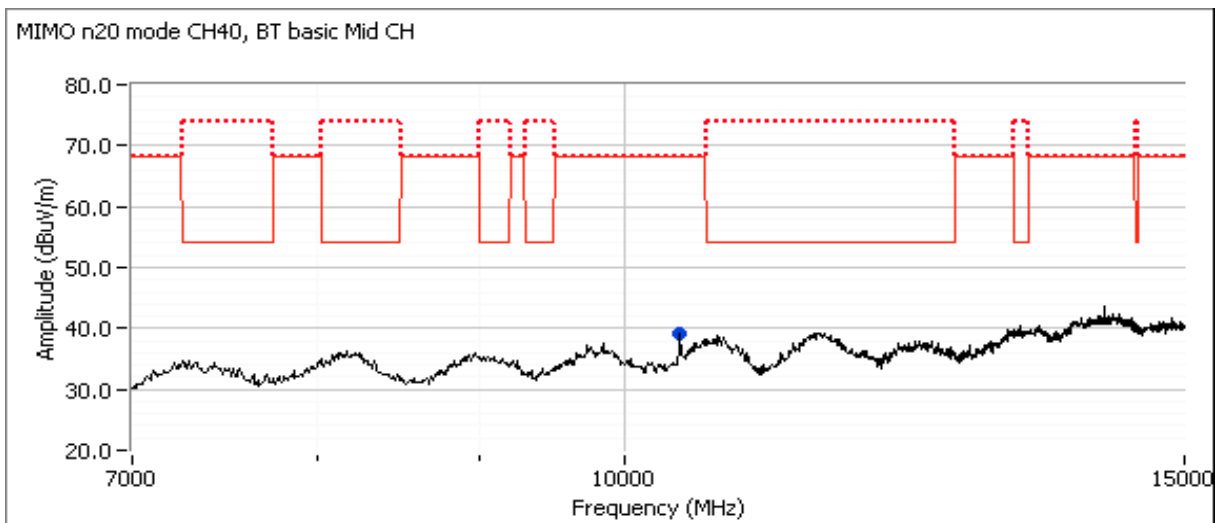
Perform normal 7-15 GHz scan with filter for fundamental and then 1-4 and 4-7 GHz scans 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments            |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|---------------------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                     |
| 10401.330 | 39.0   | H   | 68.3          | -29.3  | Peak      | 126     | 1.0    | Harmonic of the EUT |

## Spurious Emissions (final measurements at 3m)

| Frequency                        | Level        | Pol | 15.209 / 15.247 | Detector | Azimuth   | Height  | Comments |
|----------------------------------|--------------|-----|-----------------|----------|-----------|---------|----------|
| MHz                              | dB $\mu$ V/m | v/h | Limit           | Margin   | PK/QP/Avg | degrees | meters   |
| refer to the spurious RE results |              |     |                 |          |           |         |          |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments            |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|---------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                     |
| 5370.000  | 45.6         | V   | 54.0          | -8.4   | Peak      | 180     | 1.0    |                     |
| 4980.000  | 40.9         | V   | 54.0          | -13.1  | Peak      | 180     | 1.0    |                     |
| 2460.000  | 59.6         | V   | 120.0         | -60.4  | Peak      | 180     | 1.0    | emission is in band |

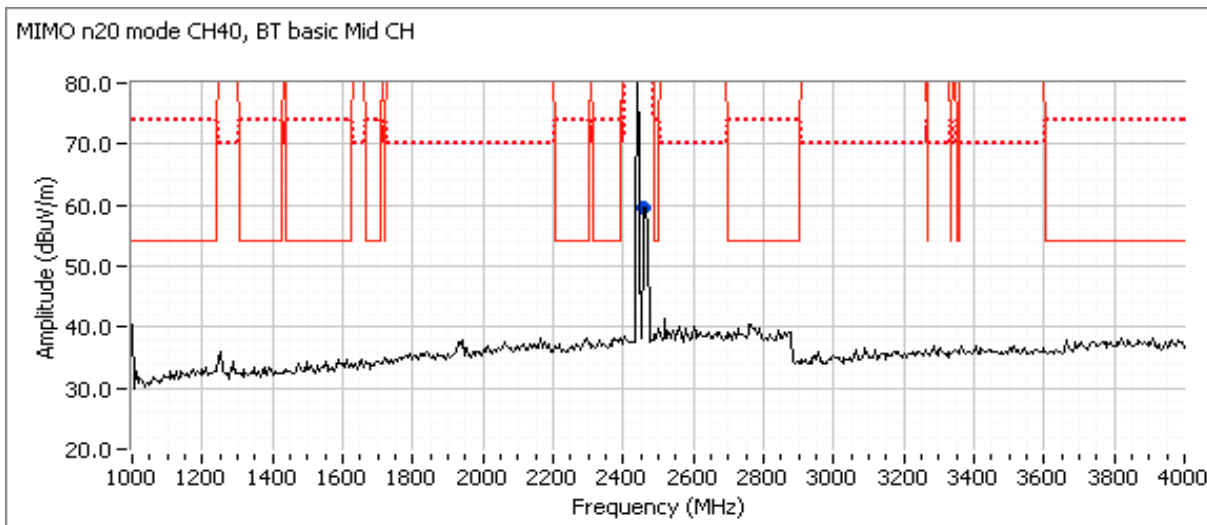
## Spurious Emissions (final measurments at 3m)

| Frequency                                  | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|--------------------------------------------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz                                        | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| no emisissions found above the noise floor |              |     |                 |        |           |         |        |          |

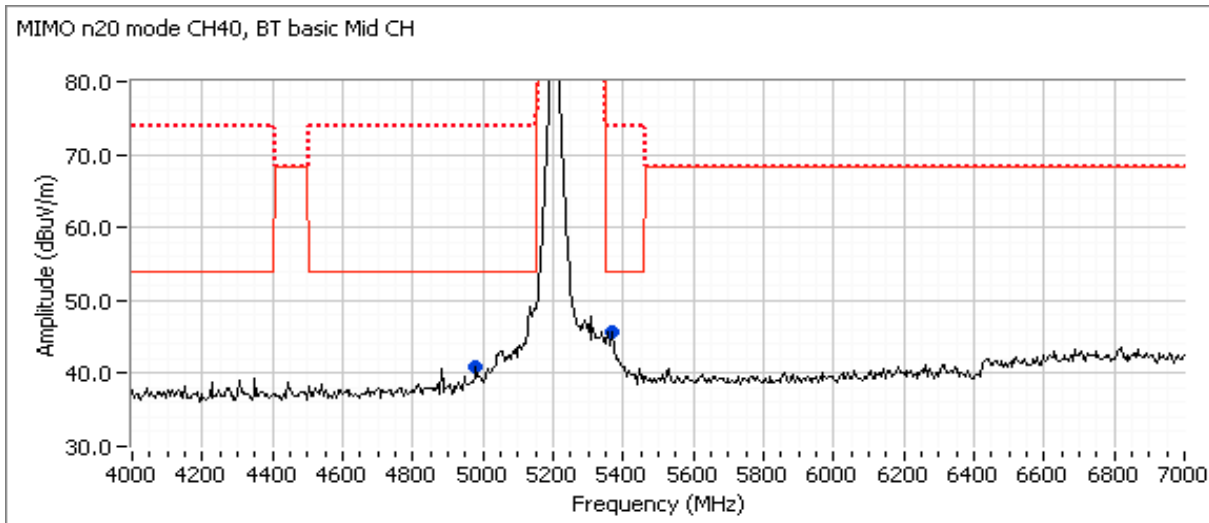
Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.

Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.

Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



Run #12: 1-15GHz, 802.11n20 @ 5300 MHz Chain A+B, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: R. Varelas

Config Change: None

|           | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|-----------|--------------|----------------------------------|------------------|
| WiFi A    | 16.0         | 16.6                             | 32.0             |
| WiFi B    | 16.0         | 16.5                             | 33.0             |
| Bluetooth | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 7-15 GHz scan with filter for fundamental and then 1-4 and 4-7 GHz scans 20-30 cm from the product without filter.

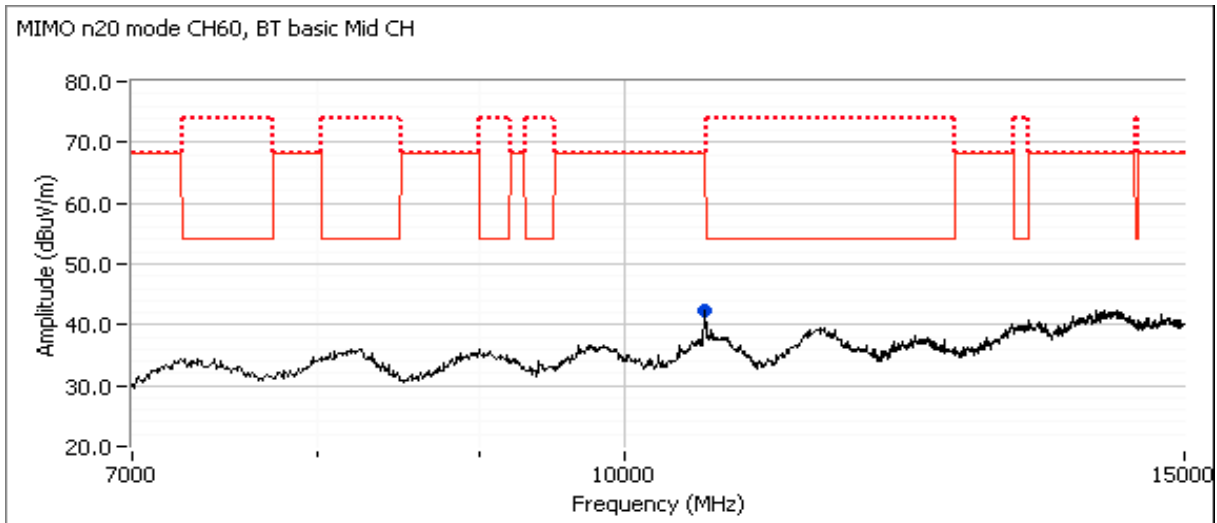
### Preliminary Measurements (Peak versus average limit)

| Preliminary measurements (Peak versus average values) |        |     |               |        |           |         |        |                     |
|-------------------------------------------------------|--------|-----|---------------|--------|-----------|---------|--------|---------------------|
| Frequency                                             | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments            |
| MHz                                                   | dBuV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                     |
| 10599.970                                             | 42.3   | H   | 68.3          | -26.0  | Peak      | 212     | 1.0    | Harmonic of the EUT |

### Spurious Emissions (final measurements at 3m)

| Frequency                        | Level  | Pol | 15.209 / 15.247 | Detector | Azimuth   | Height  | Comments |
|----------------------------------|--------|-----|-----------------|----------|-----------|---------|----------|
| MHz                              | dBuV/m | v/h | Limit           | Margin   | PK/QP/Avg | degrees | meters   |
| refer to the spurious RE results |        |     |                 |          |           |         |          |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                    |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|-----------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                             |
| 2460.000  | 63.3         | V   | 120.0         | -56.7  | Peak      | 180     | 1.0    | In band intermittent signal |
| 5140.000  | 45.8         | V   | 54.0          | -8.2   | Peak      | 180     | 1.0    |                             |
| 4880.000  | 42.0         | V   | 54.0          | -12.0  | Peak      | 180     | 1.0    |                             |

## Spurious Emissions (final measurements at 3m)

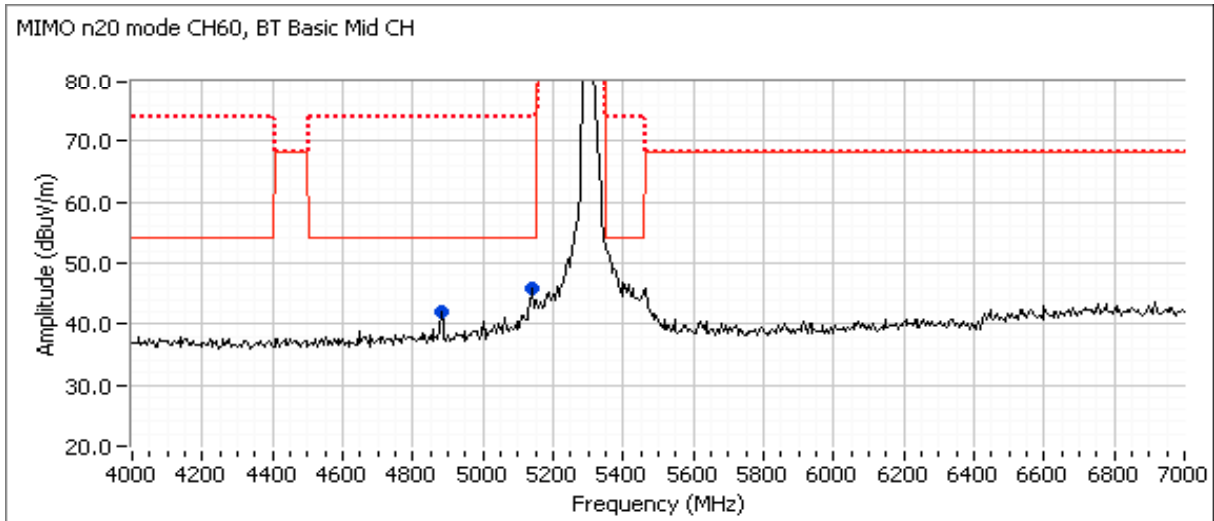
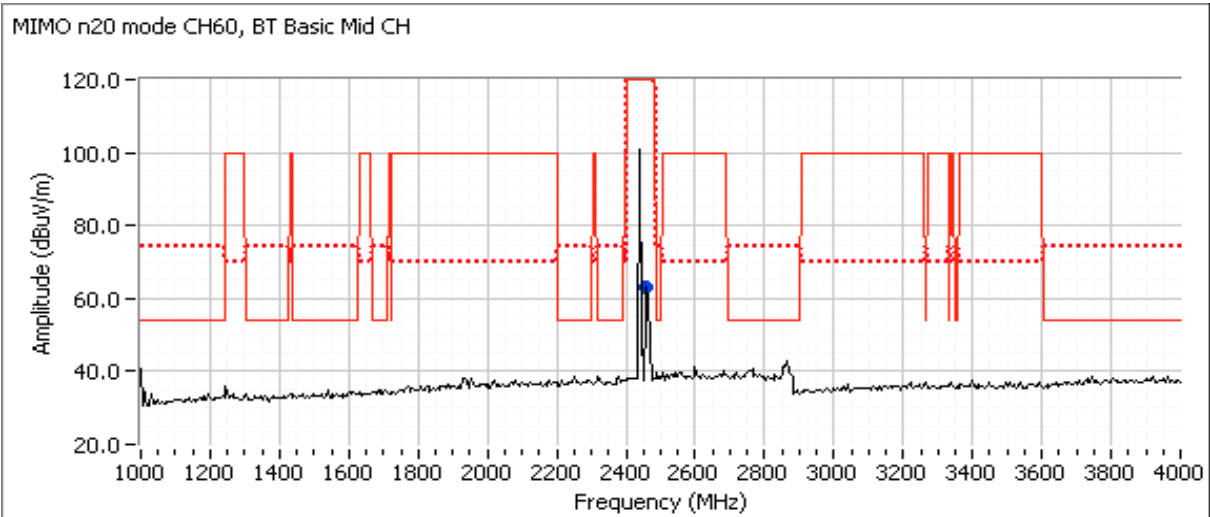
| Frequency                                | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|------------------------------------------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz                                      | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| no emissions found above the noise floor |              |     |                 |        |           |         |        |          |

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.

Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.

Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #13: 1-15GHz, 802.11n20 @ 5580 MHz Chain A+B, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: R. Varelas

Config Change: None

|           | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|-----------|--------------|----------------------------------|------------------|
| WiFi A    | 16.0         | 16.6                             | 28.5             |
| WiFi B    | 16.0         | 16.5                             | 29.5             |
| Bluetooth | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

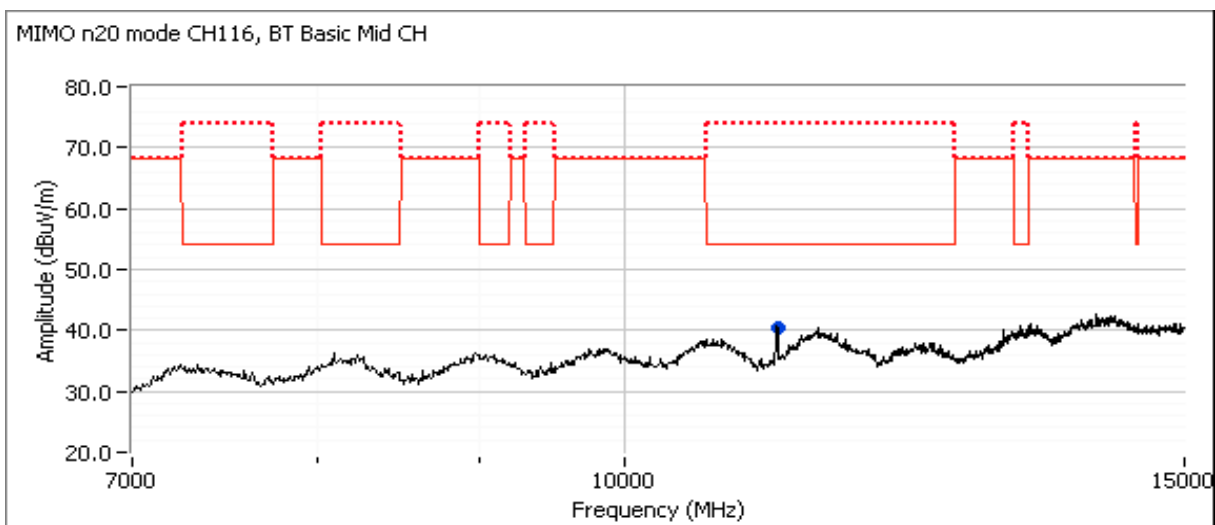
Perform normal 7-15 GHz scan with filter for fundamental and then 1-4 and 4-7 GHz scans 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments            |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|---------------------|
| MHz       | dBμV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                     |
| 11167.600 | 40.4   | V   | 54.0          | -13.6  | Peak      | 165     | 1.0    | Harmonic of the EUT |

## Spurious Emissions (final measurements at 3m)

| Frequency                        | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|----------------------------------|--------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz                              | dBμV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| refer to the spurious RE results |        |     |                 |        |           |         |        |          |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

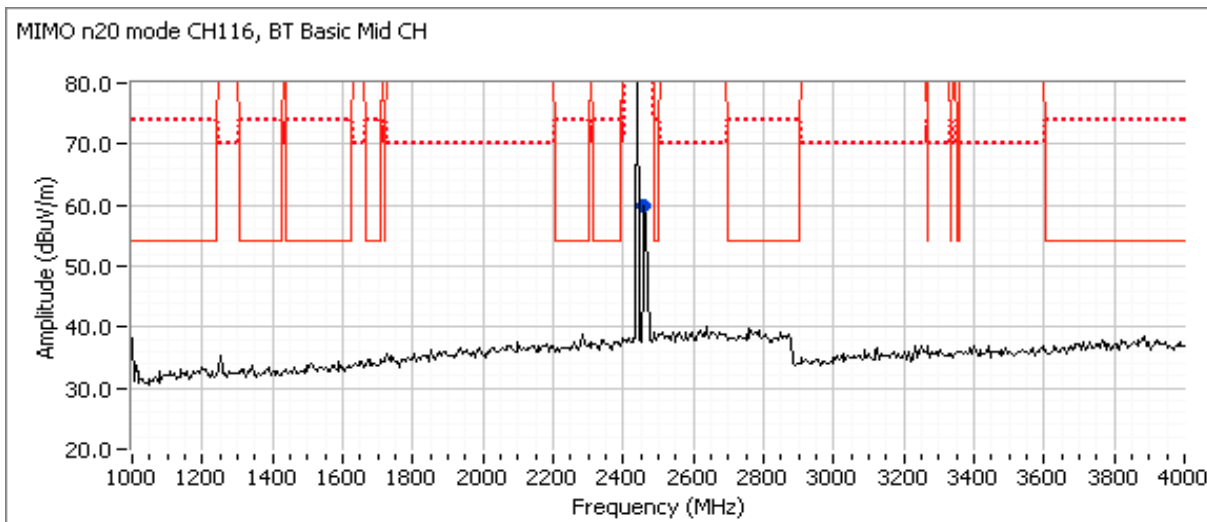
## Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

| Frequency | Level        | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                    |
|-----------|--------------|-----|---------------|--------|-----------|---------|--------|-----------------------------|
| MHz       | dB $\mu$ V/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                             |
| 4880.000  | 43.5         | V   | 54.0          | -10.5  | Peak      | 180     | 1.0    |                             |
| 5425.000  | 46.2         | V   | 54.0          | -7.8   | Peak      | 180     | 1.0    |                             |
| 2460.000  | 59.8         | V   | 120.0         | -60.2  | Peak      | 180     | 1.0    | In band intermittent signal |

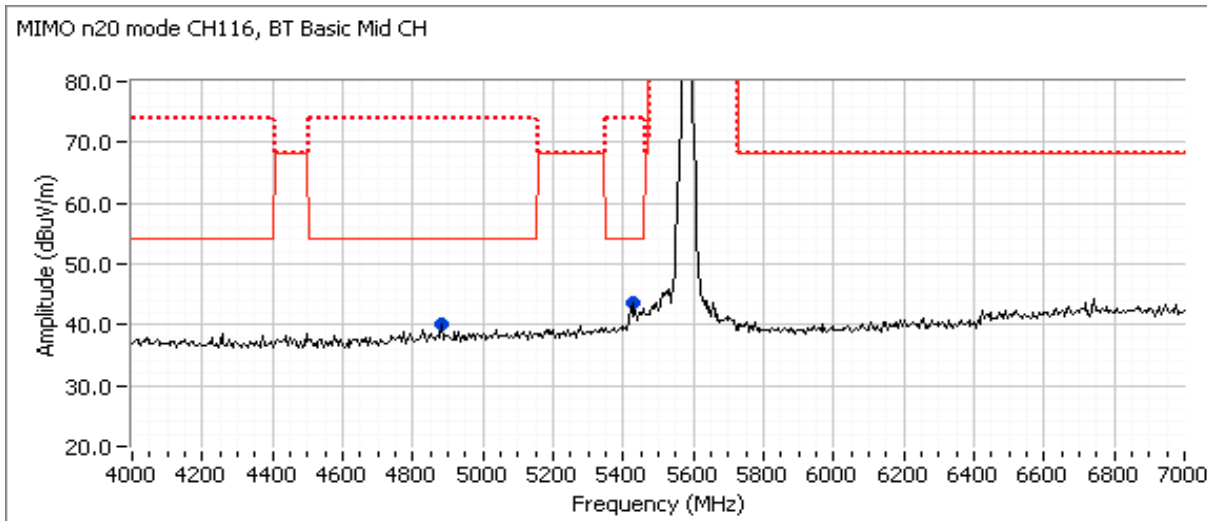
## Spurious Emissions (final measurments at 3m)

| Frequency                                  | Level        | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|--------------------------------------------|--------------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz                                        | dB $\mu$ V/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| no emisissions found above the noise floor |              |     |                 |        |           |         |        |          |

- Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz.
- Note 2: Signal is not in a restricted band but the more stringent restricted band limit was used.
- Note 3: Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



Run #14: 1-15GHz, 802.11n20 @ 5785 MHz Chain A+B, BT Basic Rate @ 2440 MHz Chain B

Date of Test: 6/18/2014

Test Location: FT Chamber #4

Test Engineer: R. Varelas

Config Change: None

|           | Target (dBm) | Power Settings<br>Measured (dBm) | Software Setting |
|-----------|--------------|----------------------------------|------------------|
| WiFi A    | 16.0         | 16.7                             | 34.5             |
| WiFi B    | 16.0         | 16.5                             | 35.5             |
| Bluetooth | -            | 5.1                              | 10.0             |

Note - measured power in table above is average power, for reference only.

Perform normal 7-15 GHz scan with filter for fundamental and then 1-4 and 4-7 GHz scans 20-30 cm from the product without filter.

## Preliminary Measurements (Peak versus average limit)

| Preliminary measurements (Peak versus average values) |        |     |               |        |           |         |        |                     |
|-------------------------------------------------------|--------|-----|---------------|--------|-----------|---------|--------|---------------------|
| Frequency                                             | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments            |
| MHz                                                   | dBµV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                     |
| 11570.260                                             | 46.3   | V   | 54.0          | -7.7   | Peak      | 101     | 1.0    | Harmonic of the EUT |

## Spurious Emissions (final measurements at 3m)

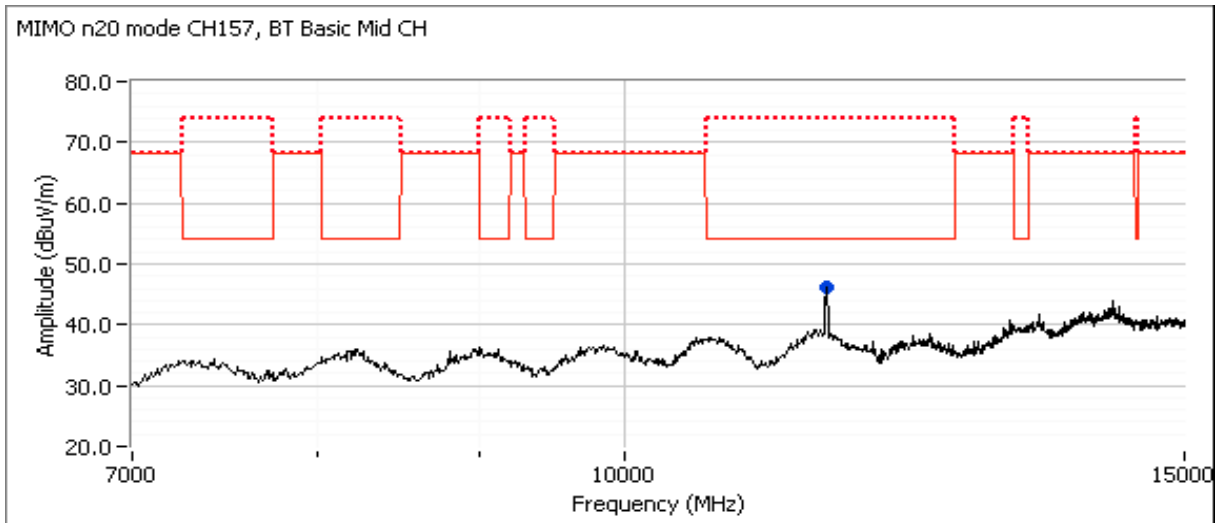
| Frequency                        | Level  | Pol | 15.209 / 15.247 | Detector | Azimuth   | Height  | Comments |
|----------------------------------|--------|-----|-----------------|----------|-----------|---------|----------|
| MHz                              | dBuV/m | v/h | Limit           | Margin   | PK/QP/Avg | degrees | meters   |
| refer to the spurious RE results |        |     |                 |          |           |         |          |

**NTS**

WE ENGINEER SUCCESS

## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



### Preliminary Measurements (Peak versus average limit) at 20-30cm from EUT

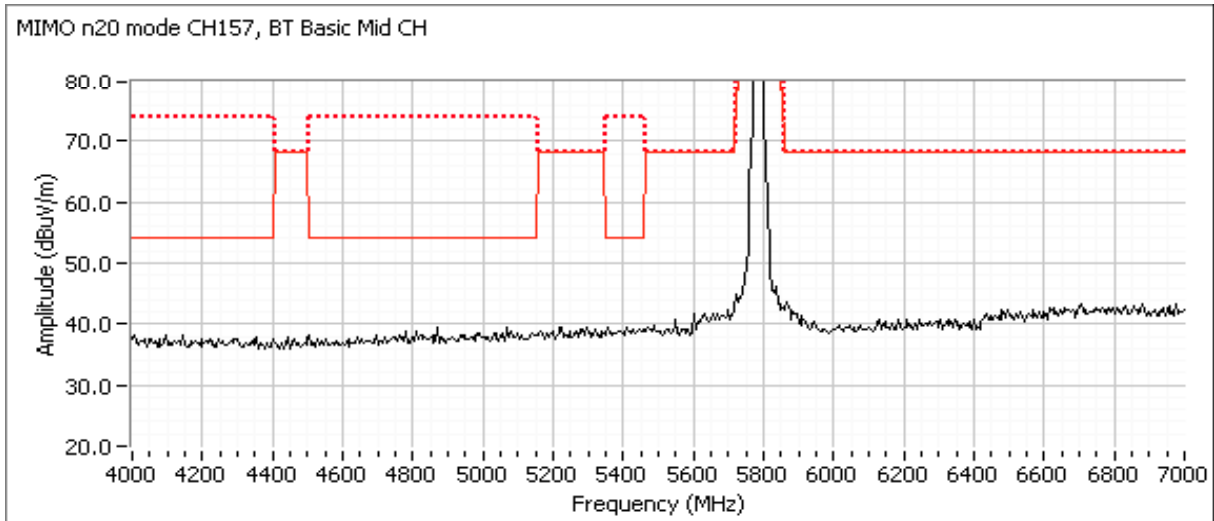
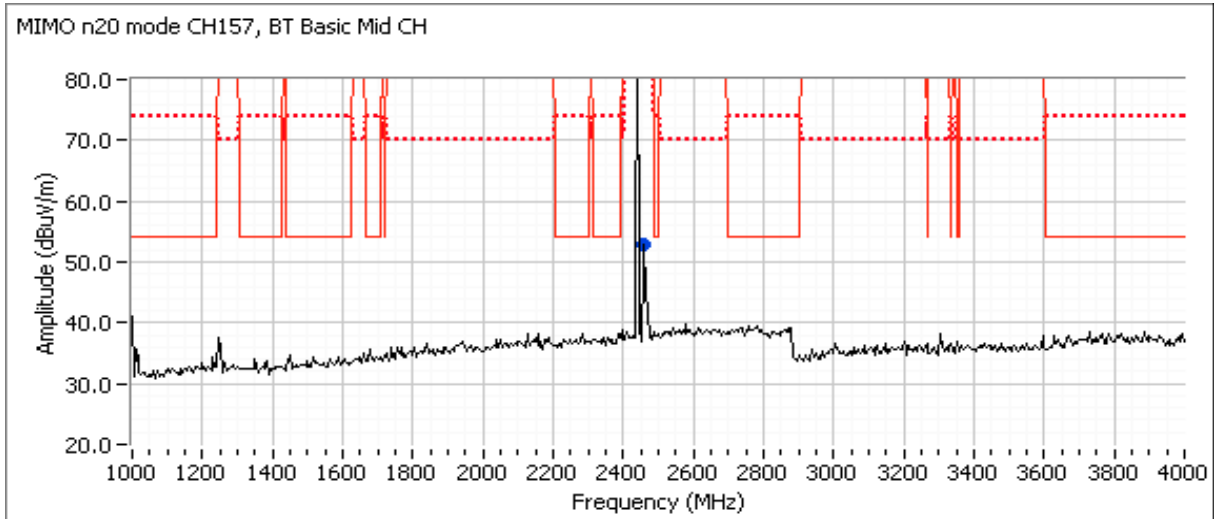
| Frequency | Level  | Pol | 15.209/15.247 |        | Detector  | Azimuth | Height | Comments                    |
|-----------|--------|-----|---------------|--------|-----------|---------|--------|-----------------------------|
| MHz       | dBµV/m | v/h | Limit         | Margin | Pk/QP/Avg | degrees | meters |                             |
| 2460.000  | 52.8   | V   | 120.0         | -67.2  | Peak      | 180     | 1.0    | In band intermittent signal |

### Spurious Emissions (final measurements at 3m)

| Frequency            | Level  | Pol | 15.209 / 15.247 |        | Detector  | Azimuth | Height | Comments |
|----------------------|--------|-----|-----------------|--------|-----------|---------|--------|----------|
| MHz                  | dBµV/m | v/h | Limit           | Margin | Pk/QP/Avg | degrees | meters |          |
| Emissions is in band |        |     |                 |        |           |         |        |          |

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental and measured in 100kHz. |
| Note 2: | Signal is not in a restricted band but the more stringent restricted band limit was used.                                                                                   |
| Note 3: | Signal is only present when Bluetooth is enabled, average correction for hopping occupancy could be applied                                                                 |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |



|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Radiated Emissions

(Elliott Laboratories Fremont Facility, Semi-Anechoic Chamber)

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/17/2014  
 Test Engineer: John Caizzi  
 Test Location: Chamber 4

Config. Used: 1  
 Config Change: none  
 Host Unit Voltage 120V/60Hz

### General Test Configuration

The EUT and any local support equipment were located on the turntable for radiated emissions testing.  
 The test distance and extrapolation factor (if applicable) are detailed under each run description.

Note, preliminary testing indicates that the emissions were maximized by orientation of the EUT and elevation of the measurement antenna. Maximized testing indicated that the emissions were maximized by orientation of the EUT, elevation of the measurement

### Ambient Conditions:

Temperature: 23 °C  
 Rel. Humidity: 31 %

### Summary of Results

MAC Address: 001500F15B3A, DRTU Tool Version 1.7.3-935, Driver version 17.1.0.11

| Run # | Test Performed                                 | Limit                | Result | Margin                                 |
|-------|------------------------------------------------|----------------------|--------|----------------------------------------|
| 2     | Radiated Emissions<br>30 - 1000 MHz, Maximized | FCC 15.209 / RSS 210 | Pass   | 30.9 dBμV/m @ 112.94 MHz<br>(-12.6 dB) |
| 4     | Radiated Emissions<br>30 - 1000 MHz, Maximized | FCC 15.209 / RSS 210 | Pass   | See above                              |

Note - measurements with the WiFi and BT transmitters both operating indicate that the radiated emissions from the combination of test fixture and EUT are not affected by the module's operating frequency or mode. Additional channels and modes were therefore not necessary to show compliance with the limits.

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

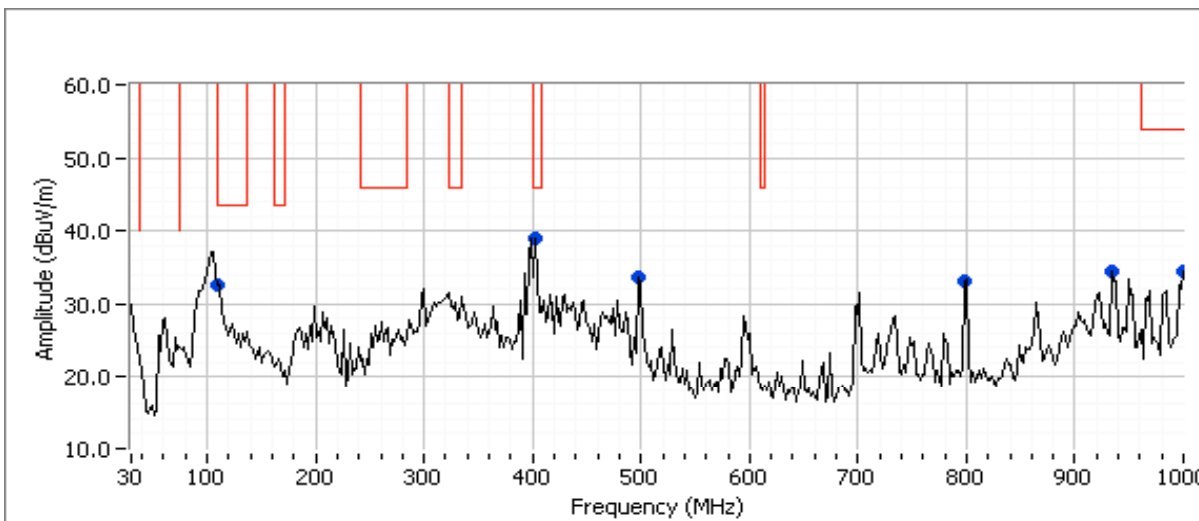
No deviations were made from the requirements of the standard.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #1: Preliminary Radiated Emissions, 30 - 1000 MHz

Configured to Tx , 802.11b, 16.5 dBm on chain A (setting = 13.5) on channel 6, Bluetooth 5.1 dBm, 1Mb/s (setting 10 dBm) on channel 0

| Test Parameters for Preliminary Scan(s) |                  |                |                      |
|-----------------------------------------|------------------|----------------|----------------------|
| Frequency Range                         | Prescan Distance | Limit Distance | Extrapolation Factor |
| 30 - 1000 MHz                           | 3                | 3              | 0.0                  |



Preliminary peak readings captured during pre-scan

| Frequency | Level  | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
| 112.935   | 32.7   | V   | 43.5                 | -10.8  | Peak      | 330     | 1.0    |          |
| 399.925   | 38.9   | H   | 46.0                 | -7.1   | Peak      | 178     | 1.0    |          |
| 497.952   | 33.8   | H   | 46.0                 | -12.2  | Peak      | 193     | 1.0    | Note 1   |
| 799.457   | 33.2   | V   | 46.0                 | -12.8  | Peak      | 236     | 1.0    | Note 1   |
| 933.500   | 34.6   | H   | 46.0                 | -11.4  | Peak      | 247     | 1.0    | Note 1   |
| 999.347   | 34.5   | V   | 54.0                 | -19.5  | Peak      | 176     | 1.0    |          |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary quasi-peak readings (no manipulation of EUT interface cables)

| Frequency | Level        | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
| 112.935   | 30.9         | V   | 43.5                 | -12.6  | QP        | 45      | 1.00   |          |
| 933.500   | 32.4         | H   | 46.0                 | -13.6  | QP        | 245     | 1.58   | Note 1   |
| 799.457   | 30.6         | V   | 46.0                 | -15.4  | QP        | 151     | 1.04   | Note 1   |
| 497.952   | 32.2         | H   | 46.0                 | -13.8  | QP        | 198     | 1.00   | Note 1   |
| 399.925   | 33.3         | H   | 46.0                 | -12.7  | QP        | 182     | 1.00   |          |
| 999.347   | 32.4         | V   | 54.0                 | -21.6  | QP        | 179     | 1.00   |          |

Note 1: Emission in non-restricted band, but limit of 15.209 used.

## Run #2: Maximized Readings From Run #1

| Test Parameters for Maximized Reading(s) |               |                |                      |
|------------------------------------------|---------------|----------------|----------------------|
| Frequency Range                          | Test Distance | Limit Distance | Extrapolation Factor |
| 30 - 1000 MHz                            | 3             | 3              | 0.0                  |

## Maximized quasi-peak readings (includes manipulation of EUT interface cables)

| Frequency | Level        | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
| 112.935   | 30.9         | V   | 43.5                 | -12.6  | QP        | 45      | 1.00   |          |
| 933.500   | 32.4         | H   | 46.0                 | -13.6  | QP        | 245     | 1.58   | Note 1   |
| 799.457   | 30.6         | V   | 46.0                 | -15.4  | QP        | 151     | 1.04   | Note 1   |
| 497.952   | 32.2         | H   | 46.0                 | -13.8  | QP        | 198     | 1.00   | Note 1   |
| 399.925   | 33.3         | H   | 46.0                 | -12.7  | QP        | 182     | 1.00   |          |
| 999.347   | 32.4         | V   | 54.0                 | -21.6  | QP        | 179     | 1.00   |          |

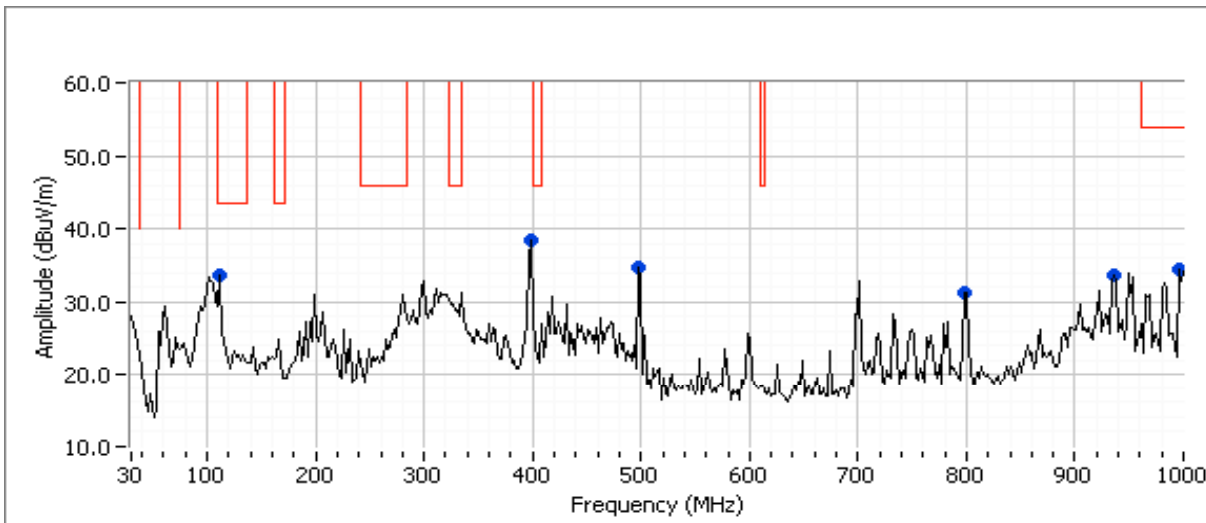
Note 1: Emission in non-restricted band, but limit of 15.209 used.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #3: Preliminary Radiated Emissions, 30 - 1000 MHz

Configured to Tx , 802.11a, 16.5 dBm on each chain (settings 25.5, 26.0) on channel 116, Bluetooth 4.7 dBm, 1Mb/s (setting 10 dBm) on Channel 78.

| Test Parameters for Preliminary Scan(s) |                  |                |                      |
|-----------------------------------------|------------------|----------------|----------------------|
| Frequency Range                         | Prescan Distance | Limit Distance | Extrapolation Factor |
| 30 - 1000 MHz                           | 3                | 3              | 0.0                  |



Preliminary peak readings captured during pre-scan

| Frequency | Level  | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dBμV/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
| 111.643   | 33.8   | H   | 43.5                 | -9.7   | Peak      | 89      | 3.0    |          |
| 399.339   | 38.5   | H   | 46.0                 | -7.5   | Peak      | 169     | 1.0    | Note 1   |
| 498.477   | 34.8   | H   | 46.0                 | -11.2  | Peak      | 199     | 1.0    | Note 1   |
| 797.836   | 31.4   | H   | 46.0                 | -14.6  | Peak      | 79      | 1.0    | Note 1   |
| 935.852   | 33.7   | H   | 46.0                 | -12.3  | Peak      | 249     | 1.0    | Note 1   |
| 996.112   | 34.4   | H   | 54.0                 | -19.6  | Peak      | 319     | 1.0    |          |

Note 1: Emission in non-restricted band, but limit of 15.209 used.

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Preliminary quasi-peak readings (no manipulation of EUT interface cables)

| Frequency | Level        | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
|           |              |     |                      |        |           |         |        |          |

## Run #4: Maximized Readings From Run #3

| Test Parameters for Maximized Reading(s) |               |                |                      |
|------------------------------------------|---------------|----------------|----------------------|
| Frequency Range                          | Test Distance | Limit Distance | Extrapolation Factor |
| 30 - 1000 MHz                            | 3             | 3              | 0.0                  |

## Maximized quasi-peak readings (includes manipulation of EUT interface cables)

| Frequency | Level        | Pol | FCC 15.209 / RSS 210 |        | Detector  | Azimuth | Height | Comments |
|-----------|--------------|-----|----------------------|--------|-----------|---------|--------|----------|
| MHz       | dB $\mu$ V/m | v/h | Limit                | Margin | Pk/QP/Avg | degrees | meters |          |
|           |              |     |                      |        |           |         |        |          |



## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Conducted Emissions

(Elliott Laboratories Fremont Facility, Semi-Anechoic Chamber)

#### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/20/2014  
 Test Engineer: Jack Liu  
 Test Location: FT Chamber# 4

Config. Used: 1  
 Config Change: None  
 Host Unit Voltage 120V/60Hz

#### General Test Configuration

The EUT on the test fixture and other support equipment was located on a wooden table inside the semi-anechoic chamber, 40 cm from a vertical coupling plane and 80cm from the LISN. A second LISN was used for all local support equipment. Remote support

Ambient Conditions:                      Temperature:                      24 °C  
                                                          Rel. Humidity:                      38 %

#### Summary of Results

| Run # | Test Performed          | Limit            | Result | Margin                          |
|-------|-------------------------|------------------|--------|---------------------------------|
| 1     | CE, AC Power, 120V/60Hz | RSS 210 / 15.207 | Pass   | 62.0 dBμV @ 0.152 MHz (-3.9 dB) |

#### Modifications Made During Testing

No modifications were made to the EUT during testing

#### Deviations From The Standard

No deviations were made from the requirements of the standard.

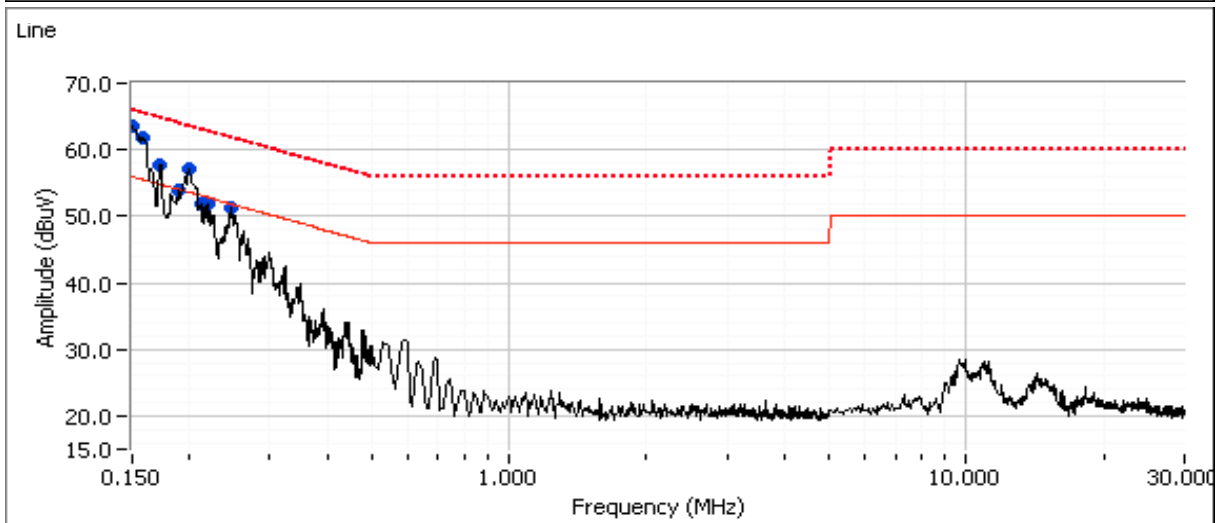
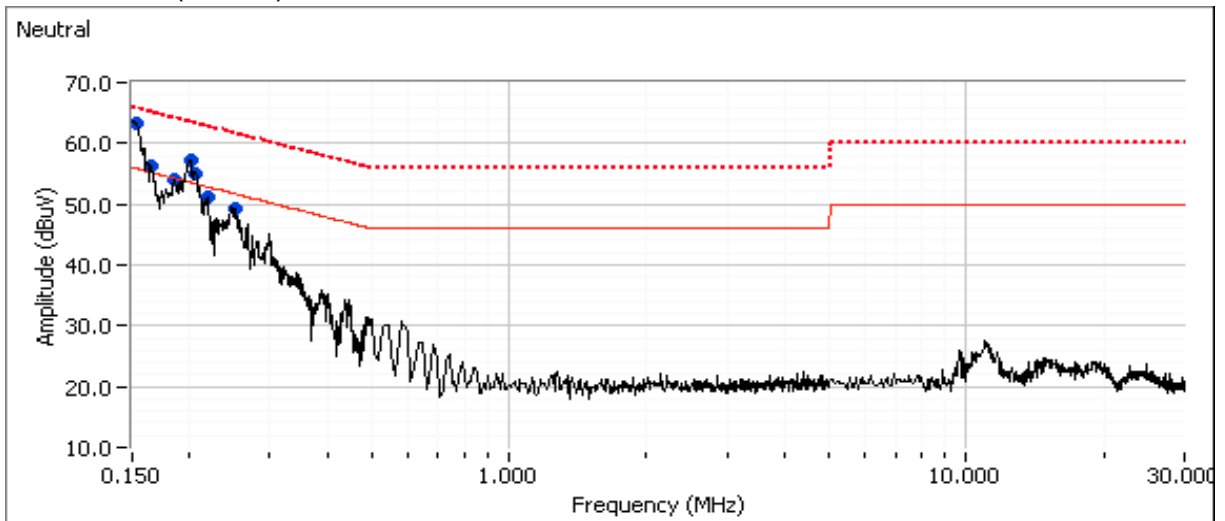
#### Sample Notes

MAC Address: 001500F15B3A DRTU Tool Version 1.7.3-935 Driver version 17.1.0.11

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

Run #1: AC Power Port Conducted Emissions, 0.15 - 30MHz, 120V/60Hz

Configured to Tx , 802.11a, 16.5 dBm on each chain (settings 25.5, 26.0) on channel 116, Bluetooth 5.1dBm, 1Mb/s (setting 10 dBm) on Mid Channel (2440MHz).





## EMC Test Data

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

### Preliminary peak readings captured during pre-scan (peak readings vs. average limit)

| Frequency<br>MHz | Level<br>dB $\mu$ V | AC<br>Line | RSS 210 / 15.207 |        | Detector<br>QP/Ave | Comments |
|------------------|---------------------|------------|------------------|--------|--------------------|----------|
|                  |                     |            | Limit            | Margin |                    |          |
| 0.200            | 57.1                | Neutral    | 53.6             | 3.5    | Peak               |          |
| 0.150            | 63.2                | Neutral    | 55.8             | 7.4    | Peak               |          |
| 0.162            | 56.2                | Neutral    | 55.2             | 1.0    | Peak               |          |
| 0.188            | 53.9                | Neutral    | 54.2             | -0.3   | Peak               |          |
| 0.207            | 55.0                | Neutral    | 53.3             | 1.7    | Peak               |          |
| 0.219            | 51.3                | Neutral    | 52.9             | -1.6   | Peak               |          |
| 0.251            | 49.3                | Neutral    | 51.7             | -2.4   | Peak               |          |
| 0.152            | 63.6                | Line       | 56.0             | 7.6    | Peak               |          |
| 0.160            | 61.9                | Line       | 55.6             | 6.3    | Peak               |          |
| 0.174            | 57.7                | Line       | 54.8             | 2.9    | Peak               |          |
| 0.198            | 57.0                | Line       | 53.6             | 3.4    | Peak               |          |
| 0.190            | 54.0                | Line       | 54.0             | 0.0    | Peak               |          |
| 0.210            | 52.0                | Line       | 53.1             | -1.1   | Peak               |          |
| 0.222            | 51.9                | Line       | 52.8             | -0.9   | Peak               |          |
| 0.246            | 51.2                | Line       | 51.9             | -0.7   | Peak               |          |

|           |                                  |                      |                   |
|-----------|----------------------------------|----------------------|-------------------|
| Client:   | Intel Corporation                | Job Number:          | J94914            |
| Model:    | 7265D2W                          | T-Log Number:        | T95472            |
| Contact:  | Steve Hackett                    | Project Manager:     | Christine Krebill |
| Standard: | FCC Part 15.247, 15.407, RSS-210 | Project Coordinator: | -                 |
|           |                                  | Class:               | N/A               |

## Final quasi-peak and average readings

| Frequency<br>MHz | Level<br>dBμV | AC<br>Line | RSS 210 / 15.207 |        | Detector<br>QP/Ave | Comments    |
|------------------|---------------|------------|------------------|--------|--------------------|-------------|
|                  |               |            | Limit            | Margin |                    |             |
| 0.152            | 62.0          | Line       | 65.9             | -3.9   | QP                 | QP (1.00s)  |
| 0.152            | 47.8          | Line       | 55.9             | -8.1   | AVG                | AVG (0.10s) |
| 0.200            | 54.7          | Neutral    | 63.6             | -8.9   | QP                 | QP (1.00s)  |
| 0.198            | 54.4          | Line       | 63.7             | -9.3   | QP                 | QP (1.00s)  |
| 0.160            | 46.1          | Line       | 55.5             | -9.4   | AVG                | AVG (0.10s) |
| 0.160            | 56.0          | Line       | 65.5             | -9.5   | QP                 | QP (1.00s)  |
| 0.162            | 55.3          | Neutral    | 65.4             | -10.1  | QP                 | QP (1.00s)  |
| 0.210            | 51.6          | Line       | 63.2             | -11.6  | QP                 | QP (1.00s)  |
| 0.190            | 52.3          | Line       | 64.0             | -11.7  | QP                 | QP (1.00s)  |
| 0.162            | 43.1          | Neutral    | 55.4             | -12.3  | AVG                | AVG (0.10s) |
| 0.174            | 51.9          | Line       | 64.8             | -12.9  | QP                 | QP (1.00s)  |
| 0.150            | 52.9          | Neutral    | 66.0             | -13.1  | QP                 | QP (1.00s)  |
| 0.207            | 50.1          | Neutral    | 63.3             | -13.2  | QP                 | QP (1.00s)  |
| 0.200            | 39.6          | Neutral    | 53.6             | -14.0  | AVG                | AVG (0.10s) |
| 0.188            | 50.1          | Neutral    | 64.1             | -14.0  | QP                 | QP (1.00s)  |
| 0.246            | 47.7          | Line       | 61.9             | -14.2  | QP                 | QP (1.00s)  |
| 0.251            | 47.2          | Neutral    | 61.7             | -14.5  | QP                 | QP (1.00s)  |
| 0.174            | 39.2          | Line       | 54.8             | -15.6  | AVG                | AVG (0.10s) |
| 0.198            | 37.9          | Line       | 53.7             | -15.8  | AVG                | AVG (0.10s) |
| 0.210            | 36.8          | Line       | 53.2             | -16.4  | AVG                | AVG (0.10s) |
| 0.150            | 39.0          | Neutral    | 56.0             | -17.0  | AVG                | AVG (0.10s) |
| 0.219            | 45.2          | Neutral    | 62.9             | -17.7  | QP                 | QP (1.00s)  |
| 0.222            | 44.8          | Line       | 62.7             | -17.9  | QP                 | QP (1.00s)  |
| 0.207            | 34.7          | Neutral    | 53.3             | -18.6  | AVG                | AVG (0.10s) |
| 0.251            | 32.0          | Neutral    | 51.7             | -19.7  | AVG                | AVG (0.10s) |
| 0.190            | 34.2          | Line       | 54.0             | -19.8  | AVG                | AVG (0.10s) |
| 0.188            | 34.1          | Neutral    | 54.1             | -20.0  | AVG                | AVG (0.10s) |
| 0.219            | 32.5          | Neutral    | 52.9             | -20.4  | AVG                | AVG (0.10s) |
| 0.246            | 31.5          | Line       | 51.9             | -20.4  | AVG                | AVG (0.10s) |
| 0.222            | 30.9          | Line       | 52.7             | -21.8  | AVG                | AVG (0.10s) |

*End of Report*

This page is intentionally blank and marks the last page of this test report.