

**TEST REPORT PERTAINING TO:**

| Equipment Under Test       | Model Number(s) |
|----------------------------|-----------------|
| Intel WiFi/WiMax Link 5350 | 533ANXMMW       |

**CONFIGURATION**

IEEE 802.11a / 802.11b / 802.11g / 802.11n & 802.16e with a set of  
Shanghai Universe Communication Electron Co., Ltd Antennas

**MEASUREMENTS PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARD (S)****Regulatory Standard(s)**

FCC CFR 47, PART 15 SUBPART B **CLASS B**



Certificate Number: 1111.01

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Test Report #: INTEL-080519F

Test Report Revision: NONE

|       | REPORT<br>BODY | APPENDICES |   |   |   | TOTAL PAGES |
|-------|----------------|------------|---|---|---|-------------|
|       |                | A          | B | C | D |             |
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## 1.0 REGULATORY COMPLIANCE GUIDELINES

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual. Testing and engineering functions provided by Aegis Labs were furnished by RF technicians and engineers with accredited qualifications and training credentials to carry out their duties.

The object of this report was to publish verifiable test results of an EUT subjected to the tests outlined in the standard listed on the cover page of this report.

### 1.1 Guidelines For Testing To Emissions Standards

These global standards for EMC emission requirements apply to electrical equipment for Information Technology Equipment (ITE). Compliance to these standards and in combination with the other standards listed in this test report can be used to demonstrate presumption of compliance with the protection requirements of the appropriate agency standard.

The purpose of these standards is to specify minimum requirements for emissions regarding electromagnetic compatibility (EMC) and protect the radio frequency spectrum 9 kHz. – 400 GHz. from unwanted interference generated from electrical/digital systems that intentionally or unintentionally generated RF energy. The emissions standards, normative documents and/or publications were used to conduct all tests performed on the equipment herein referred to as “Equipment Under Test”.



## 2.0 SUMMARY OF TEST RESULTS

### Emissions

| Index | Standard    | Test Limits / Levels                                             |           |           | Results |
|-------|-------------|------------------------------------------------------------------|-----------|-----------|---------|
| 1     | FCC PART 15 | <b>A.C. Mains Port; Conducted Emissions; 0.150 MHz to 30 MHz</b> |           |           | PASSED  |
|       |             | Frequency                                                        | Q-P Limit | AVG Limit |         |
|       |             | 0.150 – 0.5 MHz                                                  | 66 dBuV   | 56 dBuV   |         |
|       |             | 0.5 – 5                                                          | 56 dBuV   | 46 dBuV   |         |
|       |             | 5 – 30                                                           | 60 dBuV   | 50 dBuV   |         |
|       | FCC PART 15 | <b>R.F. Electromagnetic Fields, 30 to 1000 MHz</b>               |           |           | PASSED  |
|       |             | Frequency                                                        | Limit     | Distance  |         |
|       |             | 30 – 230 MHz                                                     | 30 dBuV/m | 10m       |         |
|       |             | 230 – 1000 MHz                                                   | 37 dBuV/m | 10m       |         |

### ANALYSIS AND CONCLUSIONS

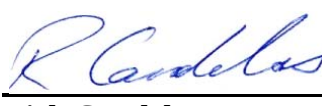
Based upon the measurement results we find that this equipment is within the limits of the global standards listed on the cover page of this test report. All results are based on a test of one sample. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

Approval Signatories

Test and Report Completed By:

  
Johnny Candelas      07/15/08  
Test Technician      Date:  
Aegis Labs, Inc.

Report Approved By:

  
Rick Candelas      07/15/08  
Quality Assurance & EMC Lab Manager      Date:  
Aegis Labs, Inc.

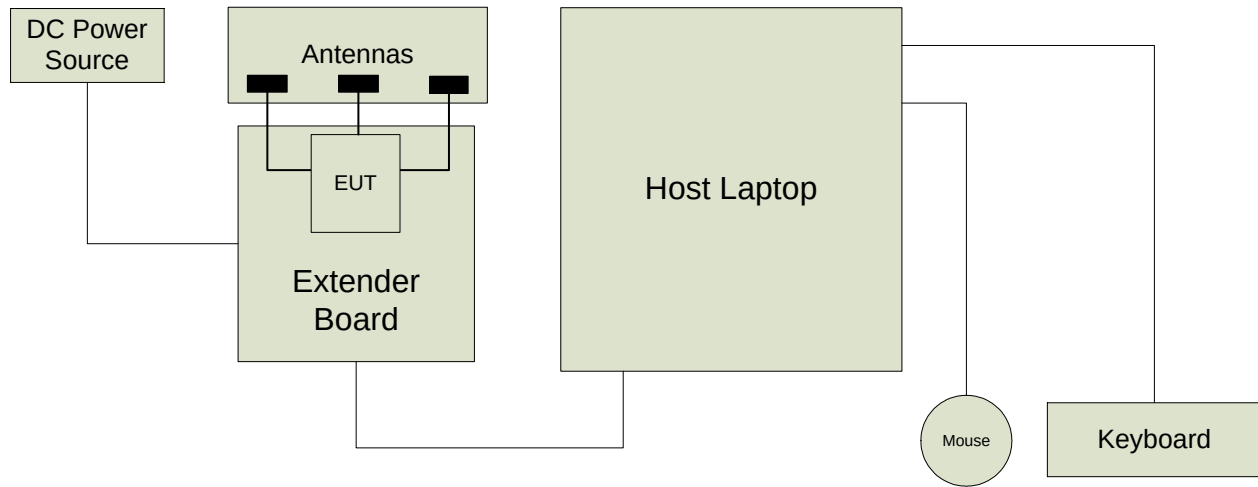


### 3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

|                                      |                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEVICE TESTED:</b>                | ITE Type: Intel WiFi/WiMax Link 5350<br>Model Number(s): 533ANXMMW<br>Serial Number: 0016EB01A3A8                                                                                                                                                                |
| <b>DATE EUT RECEIVED:</b>            | January 16 <sup>th</sup> , 2008                                                                                                                                                                                                                                  |
| <b>TEST DATE(S):</b>                 | January 16 <sup>th</sup> – April 2 <sup>nd</sup> , 2008                                                                                                                                                                                                          |
| <b>ORIGIN OF TEST SAMPLE(S):</b>     | Production                                                                                                                                                                                                                                                       |
| <b>EQUIPMENT CLASS:</b>              | EUT tested as CLASS B device                                                                                                                                                                                                                                     |
| <b>RESPONSIBLE PARTY:</b>            | Intel Corporation<br>2111 NE 25 <sup>th</sup> Avenue<br>Hillsboro, Oregon 97124                                                                                                                                                                                  |
| <b>CLIENT CONTACT:</b>               | Mr. Robert Paxman                                                                                                                                                                                                                                                |
| <b>MANUFACTURER:</b>                 | Intel Corporation                                                                                                                                                                                                                                                |
| <b>TEST LOCATION:</b>                | Aegis Labs, Inc.<br>32231 Trabuco Creek Road<br>Trabuco Canyon, CA 92678<br>Open Area Test Site #1 & #2                                                                                                                                                          |
| <b>ACCREDITATION CERTIFICATE(s):</b> | A2LA Certificate Number: 1111.01, Valid through February 28, 2010                                                                                                                                                                                                |
| <b>PURPOSE OF TEST:</b>              | To demonstrate compliance with the standards as described in Sections 1.0 & 2.0 of this report.                                                                                                                                                                  |
| <b>UNCERTAINTY BUDGET:</b>           | Proficiency Testing and Uncertainty Calculations for all tests indicated in this report have been conducted in accordance with ISO 17025: 2005 requirements Section 5.4.6, and 5.9. Uncertainty Budgets and Proficiency Test results available upon request.     |
| <b>STATEMENT OF CALIBRATION:</b>     | All accredited equipment calibrations were performed by Liberty Labs, Inc. and World Cal. with typical calibration uncertainty estimates derived from ISO Guide to the determination of uncertainties with a Coverage Factor of k=2 for 95% level of confidence. |

## 4.0 DESCRIPTION OF EUT CONFIGURATION

### 4.1 Arrangement and Location of EUT and Host Equipment





## 4.2 EUT Description and Configuration

| <b>Equipment Under Test (EUT): Intel WiFi/WiMax Link 5350</b>              |                                                       |
|----------------------------------------------------------------------------|-------------------------------------------------------|
| Test Routine Software Programs used during testing of EUT and Peripherals: | Intel Corporation Software (CRTU Ver. 5.0.51.0000)    |
| Number of External Test Ports Exercised:                                   | 3 Antenna Ports                                       |
| Power Supply Voltage applied to EUT during qualification measurements:     | Conducted: 120VAC / 60Hz<br>Radiated: 120 VAC / 60 Hz |
| Clocks and/or Crystal Oscillator(s):                                       | N/A                                                   |

### 4.2.1 Product Description

The Intel WiFi/WiMax Link 5350 is an embedded IEEE 802.16e and 802.11a/b/g/n wireless network adapter that operates in the 2.4 GHz and 5.0 GHz spectra for WiFi and 2.5 GHz for WiMax. The adapter is capable of delivering up to 450 Mbps Tx/Rx over WiFi and up to 4 Mbps UL/10 Mbps DL over WiMax.

### 4.2.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of an extender board, which is then connected to the host computer. The EUT was then connected to a set of antennas via its Chain A, B, & C antenna ports. Data for a set of Shanghai Universe Communication Electron Co., Ltd Antennas can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, g, & n modes. Also, the EUT was tested once transmitting from each chain individually (Chain A, B, then C) and then tested with all chains transmitting simultaneously (Chain ABC). The EUT was placed in continuous transmit mode by a program provided by the manufacturer (*CRTU Version 5.0.51.0000*).



#### 4.3 List of EUT, Sub-Assemblies and Host Equipment

| Equipment Under Test |                            |                      |               |
|----------------------|----------------------------|----------------------|---------------|
| Manufacturer         | Equipment Name             | Model or Part Number | Serial Number |
| Intel Corporation    | Intel WiFi/WiMax Link 5350 | 533ANXMMW            | 0013E804612B  |

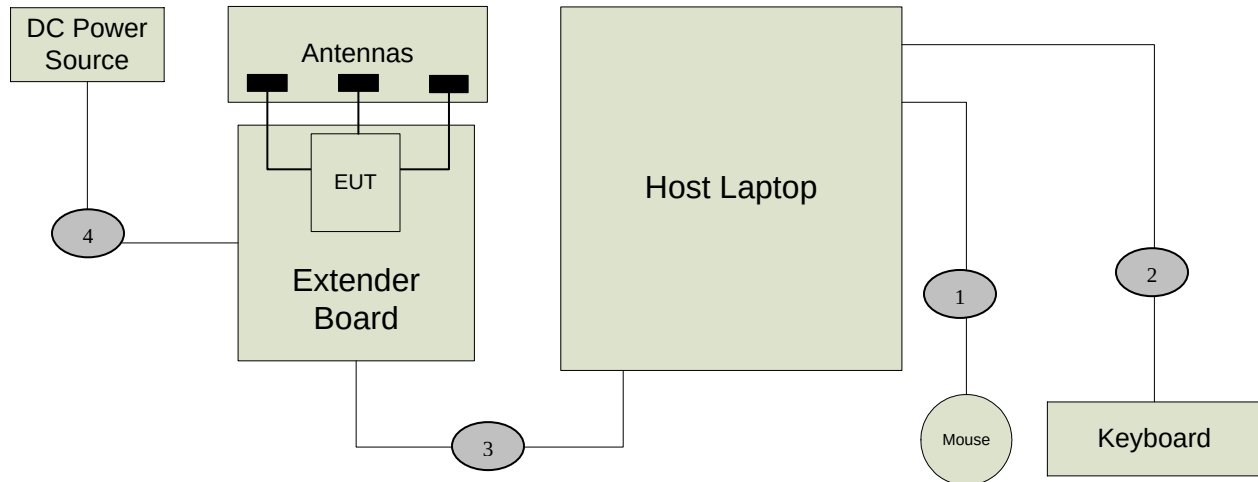
| EUT Sub-Assemblies                                |                 |                      |               |
|---------------------------------------------------|-----------------|----------------------|---------------|
| Manufacturer                                      | Equipment Name  | Model or Part Number | Serial Number |
| Shanghai Universe Communication Electron Co., Ltd | Chain A Antenna | SUC ANT S11          | N/A           |
|                                                   | Chain B Antenna | SUC ANT S11          | N/A           |
|                                                   | Chain C Antenna | SUC ANT S11          | N/A           |

| Remotely Located Support Equipment |                 |                      |               |
|------------------------------------|-----------------|----------------------|---------------|
| Manufacturer                       | Equipment Name  | Model or Part Number | Serial Number |
| Generic                            | Host Laptop     | ENG001               | None          |
| Protek                             | DC Power Source | 3006B                | AC2018        |
| Logitech                           | Keyboard        | Y-BF37               | MCT25200581   |
| Logitech                           | Mouse           | M-BJ58               | LNA22802012   |

NOTE: All the power cords of the above support equipment are standard and non-shielded.



#### 4.4 Signal Line Cable Description and Connection Location



**Signal Line Cable Description**

| Cable | Length | Construction                 | Source Connector               | Destination Connector         | Bundled Length | Ferrite Attached | Note |
|-------|--------|------------------------------|--------------------------------|-------------------------------|----------------|------------------|------|
| 1     | 1.5m   | Round, Braid & Foil Shielded | Host Computer: USB Port        | Keyboard: Hardwired           | N/A            | N/A              | N/A  |
| 2     | 1.5m   | Round, Braid & Foil Shielded | Host Computer: USB Port        | Mouse: Hardwired              | N/A            | N/A              | N/A  |
| 3     | 0.5m   | Flat, Braid & Foil Shielded  | Extender Board: Mini PCIe slot | Host Laptop: Mini PCIe slot   | N/A            | N/A              | N/A  |
| 4     | 0.5m   | Round Un-shielded            | Extender Board: Power Input    | DC Power Source: Power Output | N/A            | N/A              | N/A  |



## 4.5 EMC Test Hardware and Software Measurement Equipment

| TEST EQUIPMENT LIST              |                              |                  |               |                      |                               |
|----------------------------------|------------------------------|------------------|---------------|----------------------|-------------------------------|
| Equipment Name                   | Manufacturer                 | Model Number     | Serial Number | Calibration Due Date | Maintenance Calibration Cycle |
| EMI Receiver - RF Section        | Hewlett Packard              | 8546A            | 3325A00137    | 04/26/09             | 1 Year                        |
| EMI Receiver - RF Filter Section | Hewlett Packard              | 85460A           | 3330A00138    | 04/26/09             | 1 Year                        |
| 10 dB Attenuator                 | Pasternack                   | PE7014-10        | N/A           | 09/05/08             | 1 Year                        |
| LISN (EUT)                       | Fisher Custom Communications | FCC-LISN-50-25-2 | 9931          | 03/30/09             | 1 Year                        |
| LISN (Access)                    | EMCO                         | 3825/2           | 9108-1848     | 03/30/09             | 1 Year                        |
| Antenna - Biconical              | EMCO                         | 3110B            | 3383          | 03/20/09             | 1 Year                        |
| Antenna - Log Periodic           | EMCO                         | 3148             | 47943         | 03/20/09             | 1 Year                        |

## 5.0 CONDITIONS DURING EMISSIONS MEASUREMENTS

### 5.1 General

All measurements were made according to the procedures defined in or referred to by the standard listed on the cover page of this report. The measurements were made in the operating mode producing the largest emissions consistent with normal operation and connected to the minimum configuration of auxiliary devices.

### 5.2 Conducted Emissions Test Setup

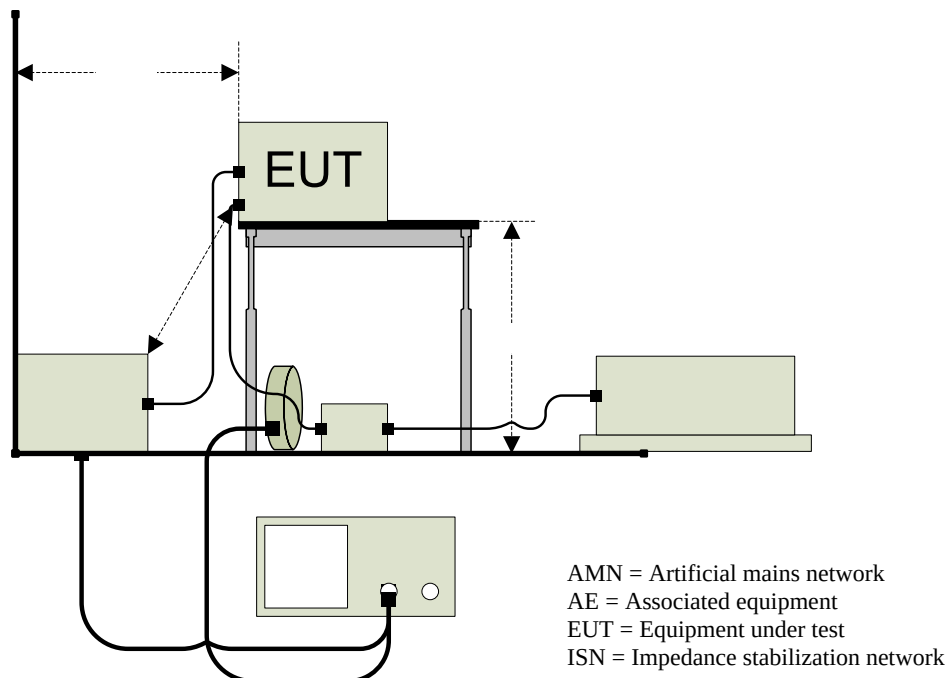
The following was the test configuration.

EUT signal cables that hung closer than 40 cm to the horizontal metal ground plane were folded back and forth forming a bundle 30 cm to 40 cm long. The power cord of the EUT was also bundled in the center and plugged into one of the artificial mains network (AMN). All peripheral equipment was powered from a second AMN via a multiple outlet strip placed at a distance on 10cm from each other. The AMN and ISN were positioned 80cm from the EUT. Signal cables that were not connected to an AE were terminated using the correct termination. If applicable, the current probe was placed at 0.1 m from the ISN.

Peak, quasi-peak and/or average detectors were used for testing performed between 150 kHz and 30 MHz. A swept frequency scan was performed for both Line 1 and Line 2. The six highest readings were compared against the limit and recorded in the data sheet along with a snapshot image of the sweep scan. The graphical scans in Appendix A only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak measurements.

#### Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.



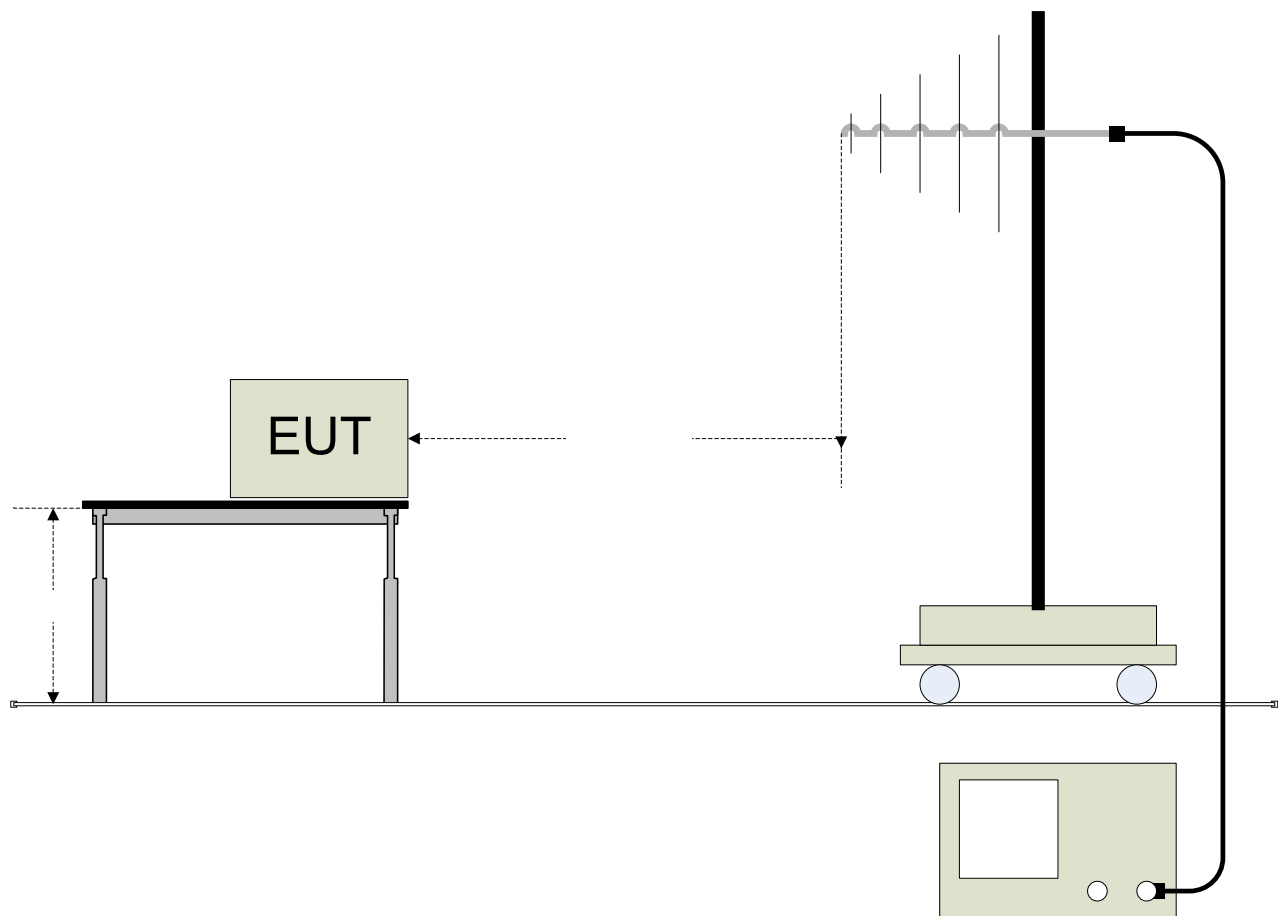
### 5.3 Radiated Emissions Test Setup

The Open Area Test Site (OATS) was used for radiated emission testing. The receiving (Rx) antenna(s) was placed 10m from the nearest side of the EUT facing the Rx antenna. The EUT (if floor-standing) was placed directly on the flush-mounted 360 degree rotating turntable. The EUT (if table-top) was placed directly on an 80cm high non-metallic table, and the table was placed on the rotating turntable. During the initial EMI scan, all the suspect frequencies, i.e.; harmonics, broadband signals were checked with the Rx broadband antennas in both vertical and horizontal polarities. The biconical Rx, log periodic Rx, and horn Rx antennas were used from 30MHz – 300MHz, 300MHz – 1000MHz, and 1GHz – 18GHz respectively.

Upon completion of all harmonic and broadband measurements, the balance of any remaining frequencies was checked between 30MHz – 18GHz. Any signals appearing within 20 dB of the classification limit was measured. Each signal was maximized by first rotating the turntable at least 360 degrees and recording the azimuth in the data sheet. Lastly, the Rx antenna was raised and/or lowered to maximize the signal elevation. If the measured signal was obtained using the peak detector and that signal appeared within 3 dB of the regulatory limit line, then the same signal was re-measured using the quasi-peak detector on the EMI receiver. Both meter readings if necessary were recorded on the data sheet.

#### Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.





## **APPENDIX A**

### ***TEST DATA***

**AC POWER PORT - CONDUCTED EMISSIONS TEST RESULTS**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 04/02/08     |
| <b>EUT:</b>           | Intel WiFi/WiMax Link 5350                                                         | <b>PROJECT NUMBER:</b> | INTEL-080317 |
| <b>MODEL NUMBER:</b>  | 533ANXMMW                                                                          | <b>TEST ENGINEER:</b>  | RC           |
| <b>SERIAL NUMBER:</b> | 0016EB01A3A8                                                                       | <b>SITE #:</b>         | 1            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 22 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 49%          |
|                       |                                                                                    | <b>TIME:</b>           | 2:15 PM      |

|                     |                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Conducted Power RF Emissions (150 kHz – 30 MHz)                                                                                                                                               |
| <b>Results:</b>     | <b>PASSED</b> LINE 1 and LINE 2 Limits                                                                                                                                                        |
| <b>Note:</b>        | Conducted Emissions Measurements were performed on the EUT with the power supply set at the following voltage and frequency. <ul style="list-style-type: none"><li>• 120VAC / 60 Hz</li></ul> |

| Conducted Limits |                         |                      |
|------------------|-------------------------|----------------------|
| Frequency (MHz)  | Quasi-Peak Limit (dBuV) | Average Limit (dBuV) |
| 0.15-0.5         | 66 to 56*               | 56 to 46*            |
| 0.5-5            | 56                      | 46                   |
| 5-30             | 60                      | 50                   |

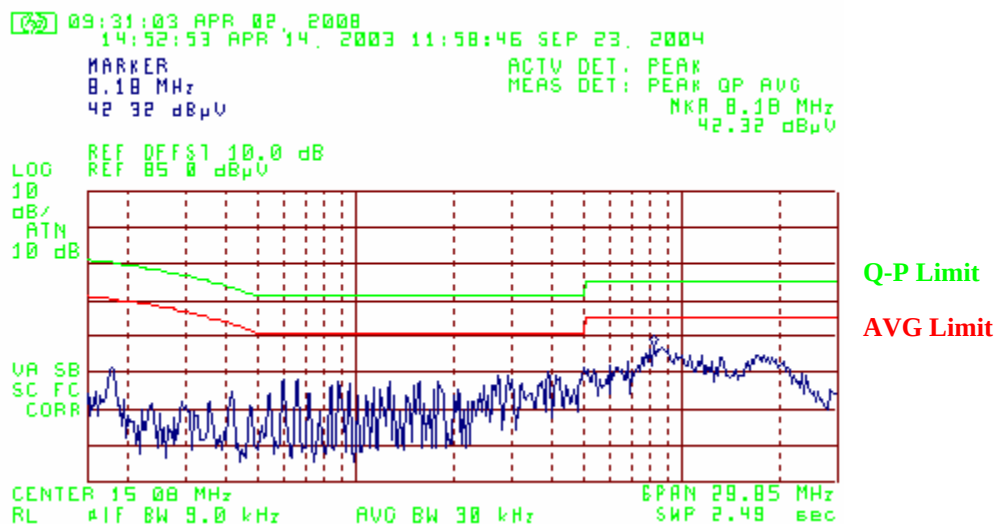
\*Decreases with the logarithm of the frequency.



## AC Power Port – Conducted Emissions Test Results (Continued)

**Continuously Transmitting @ 120VAC/60Hz (INTEL-080114-63)****FCC CLASS B CONDUCTED EMISSIONS – LINE 1**

| Freq.<br>(MHz) | Meter<br>Reading (dBuV) | Detector<br>(PK/QP/AV) | Average<br>Limit (dBuV) | Average<br>Delta(dB) | Quasi-Peak<br>Limit (dBuV) | Quasi-Peak<br>Delta(dB) |
|----------------|-------------------------|------------------------|-------------------------|----------------------|----------------------------|-------------------------|
| 3.9000         | 35.33                   | PK                     | 46.00                   | -10.67               | 56.00                      | -20.67                  |
| 4.1300         | 34.16                   | PK                     | 46.00                   | -11.84               | 56.00                      | -21.84                  |
| 4.9600         | 36.25                   | PK                     | 46.00                   | -9.75                | 56.00                      | -19.75                  |
| 8.1800         | 42.32                   | PK                     | 50.00                   | -7.68                | 60.00                      | -17.68                  |
| 13.0000        | 39.30                   | PK                     | 50.00                   | -10.70               | 60.00                      | -20.70                  |
| 16.6200        | 39.65                   | PK                     | 50.00                   | -10.35               | 60.00                      | -20.35                  |

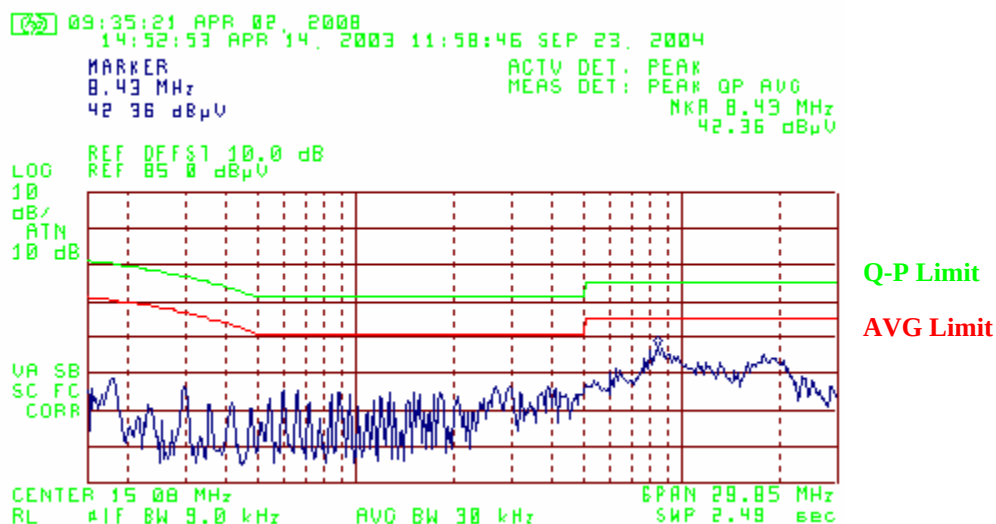




## AC Power Port – Conducted Emissions Test Results (Continued)

**Continuously Transmitting @ 120VAC/60Hz (INTEL-080114-63)****FCC CLASS B CONDUCTED EMISSIONS - LINE 2**

| Freq.<br>(MHz) | Meter<br>Reading (dBuV) | Detector<br>(PK/QP/AV) | Average<br>Limit (dBuV) | Average<br>Delta(dB) | Quasi-Peak<br>Limit (dBuV) | Quasi-Peak<br>Delta(dB) |
|----------------|-------------------------|------------------------|-------------------------|----------------------|----------------------------|-------------------------|
| 2.6600         | 30.92                   | PK                     | 46.00                   | -15.08               | 56.00                      | -25.08                  |
| 2.9700         | 31.51                   | PK                     | 46.00                   | -14.49               | 56.00                      | -24.49                  |
| 3.9000         | 31.39                   | PK                     | 46.00                   | -14.61               | 56.00                      | -24.61                  |
| 8.4300         | 42.36                   | PK                     | 50.00                   | -7.64                | 60.00                      | -17.64                  |
| 17.8300        | 40.07                   | PK                     | 50.00                   | -9.93                | 60.00                      | -19.93                  |
| 23.1500        | 34.23                   | PK                     | 50.00                   | -15.77               | 60.00                      | -25.77                  |





**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 04/02/08     |
| <b>EUT:</b>           | Intel WiFi/WiMax Link 5350                                                         | <b>PROJECT NUMBER:</b> | INTEL-080317 |
| <b>MODEL NUMBER:</b>  | 533ANXMMW                                                                          | <b>TEST ENGINEER:</b>  | RC           |
| <b>SERIAL NUMBER:</b> | 0016EB01A3A8                                                                       | <b>SITE #:</b>         | 1            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 22 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 49%          |
|                       |                                                                                    | <b>TIME:</b>           | 2:15 PM      |

|                     |                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (30 MHz – 1000 MHz)                                                                                                                                                     |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                    |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with the power supply set at the following voltage and frequency. <ul style="list-style-type: none"><li>• 120VAC / 60 Hz.</li></ul> |

**Radiated Emissions Sample Calculations**

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



## Radiated Emissions Test Results (Continued)

**Continuously Transmitting @ 120VAC/60Hz (INTEL-080114-64)****Horizontal Open Field Maximized Data**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Cable<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Antenna<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV/m) | Limits<br>(dBuV/m) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|-------------------------|-------------------------|---------------------------|----------------------------------|--------------------|---------------------|
| 48.02          | 8.58                       | 400                       | 45                   |                           |   | 2.65                    | 10.32                   | 10.46                     | 32.01                            | 40.00              | -7.99               |
| 120.00         | 14.23                      | 400                       | 90                   | 11.03                     | Q | 2.39                    | 11.20                   | 10.46                     | 35.08                            | 43.50              | -8.42               |
| 250.01         | 10.96                      | 350                       | 90                   |                           |   | 2.91                    | 17.40                   | 10.46                     | 41.73                            | 46.00              | -4.27               |
| 305.09         | 11.32                      | 300                       | 270                  |                           |   | 3.07                    | 14.49                   | 10.46                     | 39.33                            | 46.00              | -6.67               |
| 375.00         | 10.53                      | 250                       | 45                   |                           |   | 3.35                    | 15.10                   | 10.46                     | 39.44                            | 46.00              | -6.57               |
| 386.00         | 11.63                      | 225                       | 45                   |                           |   | 3.39                    | 15.54                   | 10.46                     | 41.02                            | 46.00              | -4.98               |

**Vertical Open Field Maximized Data**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Cable<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Antenna<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV/m) | Limits<br>(dBuV/m) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|-------------------------|-------------------------|---------------------------|----------------------------------|--------------------|---------------------|
| 48.01          | 11.12                      | 100                       | 45                   |                           |   | 2.65                    | 10.52                   | 10.46                     | 34.75                            | 40.00              | -5.25               |
| 119.98         | 18.40                      | 100                       | 90                   | 14.65                     | Q | 2.39                    | 10.80                   | 10.46                     | 38.30                            | 43.50              | -5.20               |
| 250.03         | 8.51                       | 100                       | 45                   |                           |   | 2.91                    | 18.30                   | 10.46                     | 40.18                            | 46.00              | -5.82               |
| 306.35         | 13.06                      | 100                       | 45                   |                           |   | 3.07                    | 14.78                   | 10.46                     | 41.37                            | 46.00              | -4.63               |
| 358.01         | 7.94                       | 100                       | 0                    |                           |   | 3.27                    | 15.44                   | 10.46                     | 37.11                            | 46.00              | -8.89               |
| 375.05         | 8.85                       | 100                       | 90                   |                           |   | 3.35                    | 15.30                   | 10.46                     | 37.96                            | 46.00              | -8.04               |
| 386.01         | 15.71                      | 100                       | 180                  | 13.62                     | Q | 3.39                    | 15.61                   | 10.46                     | 43.08                            | 46.00              | -2.92               |



## **APPENDIX B**

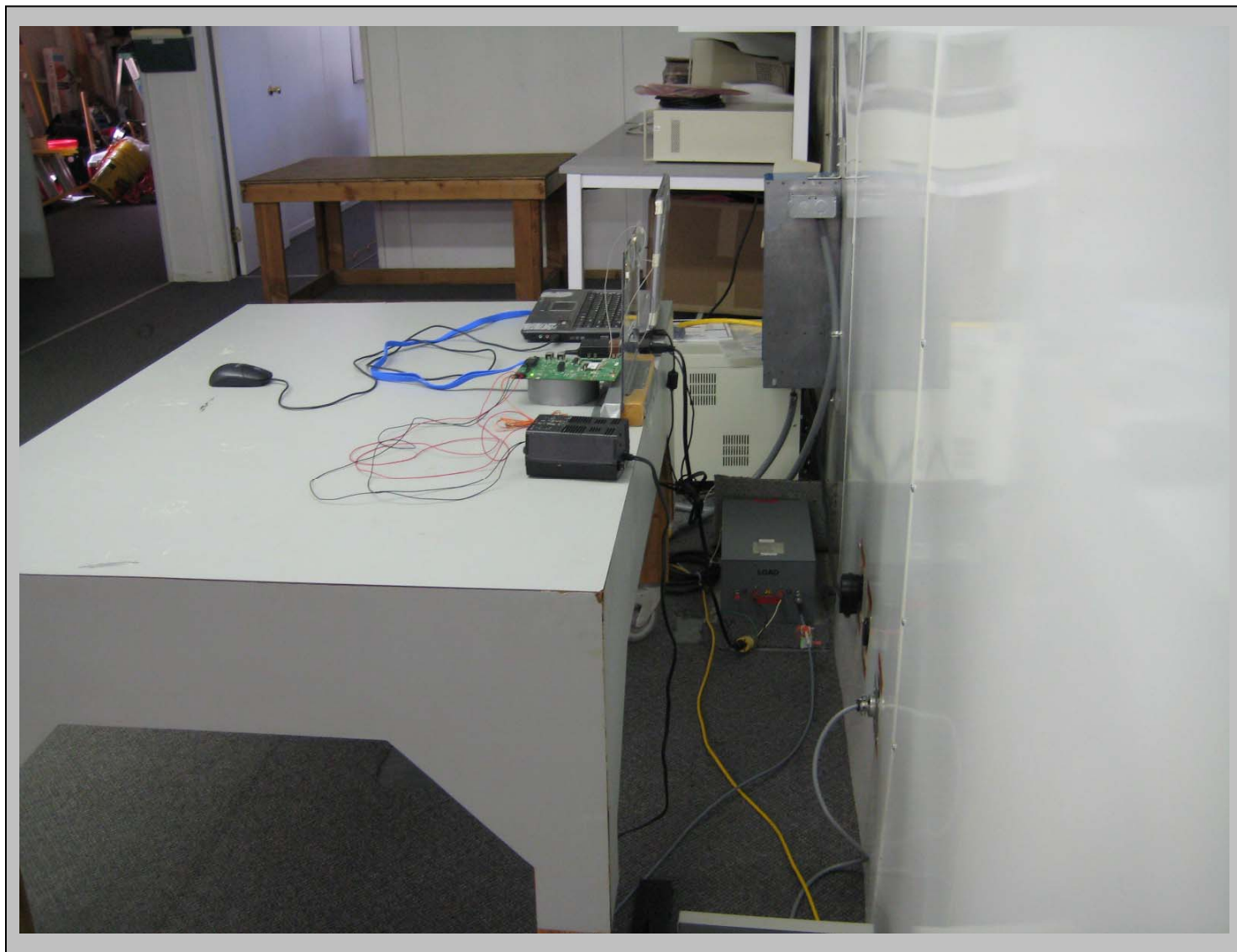
### ***PHOTOGRAPHS – (TEST SETUPS)***



## CONDUCTED EMISSIONS – FRONT VIEW

FOR

*EUT: Intel WiFi/WiMax Link 5350*  
*MODEL NUMBER: 533ANXMMW*

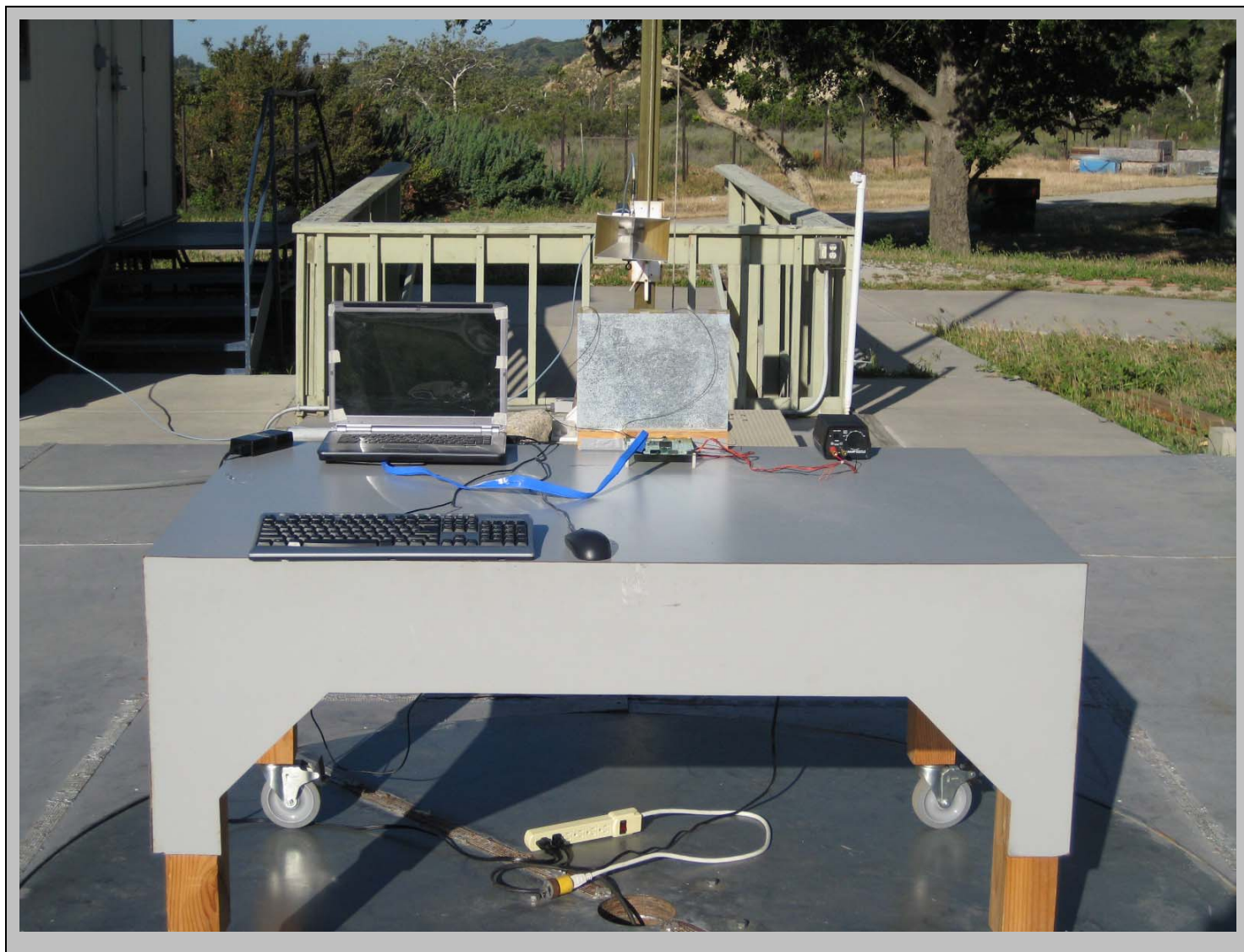


### CONDUCTED EMISSIONS – SIDE VIEW

FOR

*EUT: Intel WiFi/WiMax Link 5350*  
*MODEL NUMBER: 533ANXMMW*

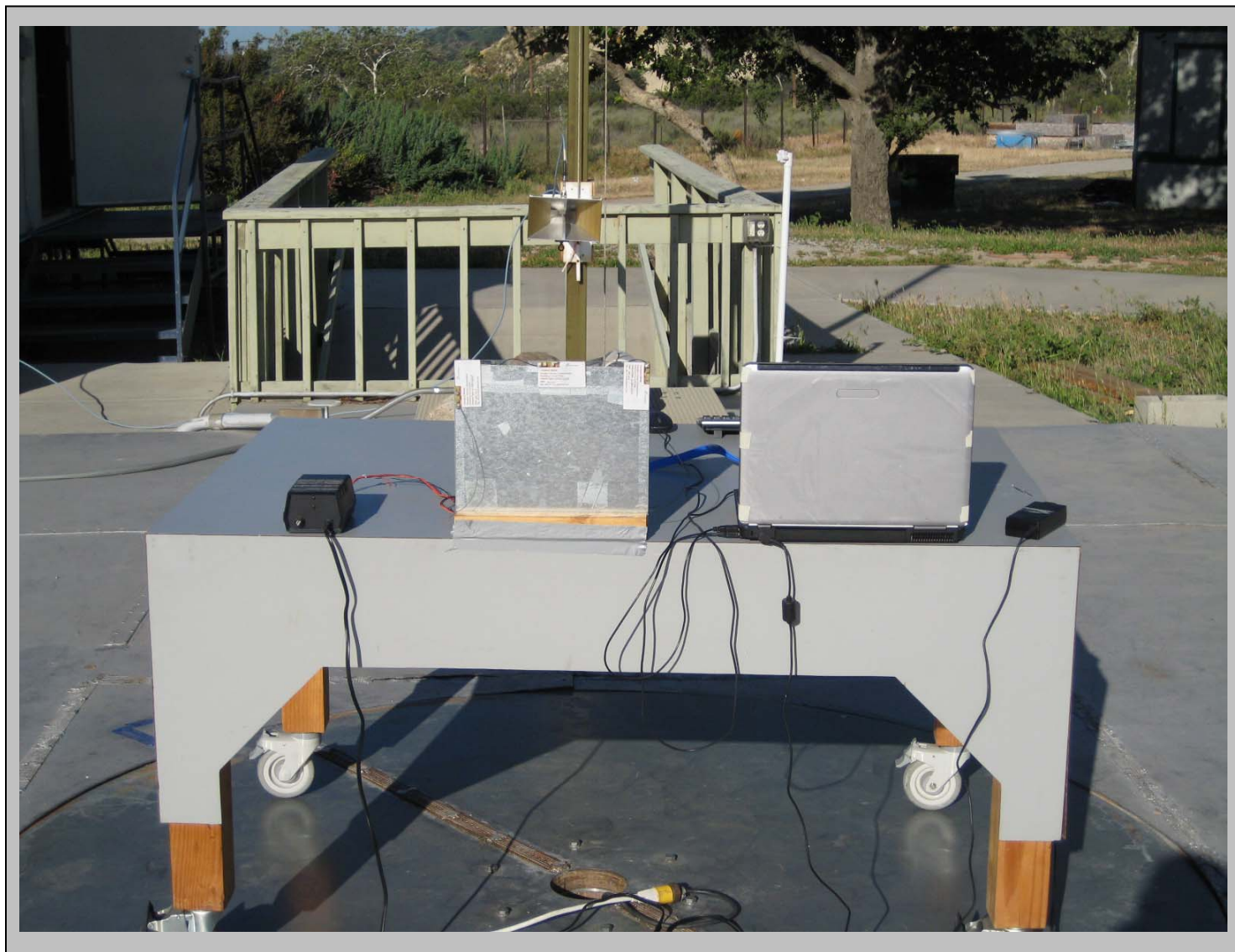




## **RADIATED EMISSIONS – FRONT VIEW**

FOR

*EUT: Intel WiFi/WiMax Link 5350*  
*MODEL NUMBER: 533ANXMMW*



## **RADIATED EMISSIONS – REAR VIEW**

**FOR**

*EUT: Intel WiFi/WiMax Link 5350  
MODEL NUMBER: 533ANXMMW*



## APPENDIX C

### ***MODIFICATIONS REQUIRED***

|            |      |
|------------|------|
| <b>1.0</b> | NONE |
|            |      |





## **APPENDIX D**

### ***ACCREDITATION CERTIFICATE (S)***



THE AMERICAN ASSOCIATION FOR  
LABORATORY ACCREDITATION

## ACCREDITED LABORATORY

A2LA has accredited

**AEGIS LABS, INC.**

**Trabuco Canyon, CA**

for technical competence in the field of

### **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).



Presented this 11<sup>th</sup> day of June 2008.

A handwritten signature in cursive script, reading "Peter Meyer".

President

For the Accreditation Council

Certificate Number 1111.01

Valid to February 28, 2010

For the tests or types of tests to which this accreditation applies,  
please refer to the laboratory's Electrical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AEGIS LABS, INC.<sup>1</sup>  
32231 Trabuco Creek Road  
Trabuco Canyon, CA 92678  
Rick Candelas Phone: 949-459-7886

ELECTRICAL (EMC)

Valid To: February 28, 2010

Certificate Number: 1111.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic compatibility tests:

**Technology**

**Test Method(s)**

***Emissions***

***Radiated and Conducted***

CFR 47, FCC Part 15 (ANSI C63.4:2003)  
CFR 47, FCC Part 18 (ANSI C63.4:2003)  
ICES-001  
ICES-003  
ICES-005  
VCCI V-3  
CNS13438: 2006  
EN 55011: 1998 + A1: 1999 + A2: 2002  
EN 55011: 2007 + A2: 2007  
EN 55014-1: 2000 + A1: 2001 + A2: 2002  
EN 55014-1: 2006  
EN 55014-2: 1997 + A1: 2001  
EN 55022: 1998 + A1: 2000 + A2: 2003  
EN 55022: 2006  
CISPR 11: 1997 + A1: 1999 + A2: 2002  
CISPR 11: 2003 + A1: 2004 + A2: 2006  
CISPR 13: 2001 + A1: 2003 + A2: 2006  
CISPR 14-1: 2000 + A1: 2001 + A2: 2002  
CISPR 14-1: 2005  
CISPR 14-2: 1997 + A1: 2001  
CISPR 22: 1997 + A1: 2000 + A2: 2003  
CISPR 22: 2005  
AS/NZS CISPR 11: 2004  
AS/NZS CISPR 14.1: 2005  
AS/NZS CISPR 14.2: 2003  
AS/NZS CISPR 22: 2006

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<sup>1</sup> This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratory indicated.

**Technology****Emissions (cont'd)****Radiated and Conducted****Test Method(s)**

SABS CISPR 11

SABS CISPR 13

SANS 222: 2006/CISPR22: 2006 (SABS CISPR: 2006)

SII 961-6-1: 2002

KN11

KN13

KN14

KN22

RRL Notice No. 2008-4 (February 11, 2008)

RRL Notice No. 2008-5 (February 11, 2008)

SS IEC CISPR22:

IDA TS EMC

***Product Family and******Generic Standards***

EN 61000-6-1: 2001, 2007

EN 61000-6-2: 2001, 2005

EN 61000-6-3: 2001 + A11: 2004, 2007

EN 61000-6-4: 2001, 2007

EN 50130-4: 1995 + A1:1998 + A2: 2003

EN 55103-1: 1996

EN 55103-2: 1996

EN 60601-1-2: 2001

EN 61326: 1997 + A1: 1998 + A2: 2001 + A3: 2003

EN 61326-1: 2006

EN 55020: 2002 + A1: 2003 + A2: 2005

EN 55020: 2007

IEC 61000-6-1: 1997, 2005

IEC 61000-6-2: 1999, 2005

IEC 61000-6-3: 1996, 2006

IEC 61000-6-4: 1997, 2006

IEC 60601-1-2: 2001

IEC 61326: 1997 + A1: 1998 + A2: 2000 + A3: 2002

IEC 61326-1: 2005

CISPR 20: 2002 + A1: 2002 + A2: 2005

CISPR 20: 2006

KN 20

AS/NZS 4251.1: 1999

AS/NZS 4251.2: 1999

AS/NZS 61000.6.1: 2006

AS/NZS 61000.6.2: 2006

**Technology*****Radio Communications*****Test Method(s)**

CFR 47, FCC Part 27 (ANSI C63.4:2003)  
AS/NZS 4771: 2000 + A1: 2003  
AS/NZS 4268: 2003 + A1: 2005 + A2: 2006  
RSS-GEN  
RSS-210  
RSS-310  
IDA TS SRD  
EN 300 220-1, EN 300 220-2, EN 300 220-3  
EN 300 328-1, EN 300 328-2, EN 300 328  
EN 300 386  
EN 300 440-1, EN 300 440-2  
EN 301 489-1 (Excluding Section 9.6)  
EN 301 489-3  
EN 301 489-4  
EN 301 489-17  
EN 301 893 (Excluding DFS testing)  
EN 61000-3-2: 2000 + A2: 2005  
EN 61000-3-2: 2006  
IEC 61000-3-2: 2000 + A1: 2001 + A2: 2004  
AS/NZS 61000.3.2  
EN 61000-3-3: 1995 + A1: 2001 + A2: 2005  
IEC 61000-3-3: 1994 + A1: 2001 + A2: 2005  
AS/NZS 61000.3.3

***Harmonics******Flickers***

AEGIS LABS, Inc.  
8 Rancho Circle  
Lake Forest, CA 92360  
949 454 8295

**Technology*****Immunity*****Test Method(s)**

EN 55024: 1998 + A1: 2001 + A2: 2003  
EN 61000-4-2  
EN 61000-4-3  
EN 61000-4-4  
EN 61000-4-5, ITU-T K.20  
EN 61000-4-6  
EN 61000-4-8  
EN 61000-4-11

**Technology**  
***Immunity (cont'd)***

**Test Method(s)**

CISPR 24: 1997 + A1: 2001 + A2: 2002

IEC 61000-4-2

IEC 61000-4-3

IEC 61000-4-4

IEC 61000-4-5

IEC 61000-4-6

IEC 61000-4-8

IEC 61000-4-11

KN 24 with RRL Notice No. 2007-99 (2007.12.26) & RRL Notice No. 2007-101 (2007.12.26)

KN 61000-4-2

KN 61000-4-3

KN 61000-4-4

KN 61000-4-5

KN 61000-4-6

KN 61000-4-8

KN 61000-4-11

AS/NZS 61000.4.2

AS/NZS 61000.4.3

AS/NZS 61000.4.4

AS/NZS 61000.4.5

AS/NZS 61000.4.6

AS/NZS 61000.4.8

AS/NZS 61000.4.11

***Avionics / Military***

RTCA/DO-160 (Sections 15-22 & 25)

RTCA/DO-301 (Sections 2.3.13 – 2.3.19)

MIL-STD-461

MIL-STD-462

MIL-STD-704 (MIL-HDBK-704-1, MIL-HDBK-704-7, MIL-HDBK-704-8)

BOEING D6-16050-4

BOEING D6-16050-5

BOEING 787B3-0147 (Section 3)

AIRBUS ABD0100.1.8 (Section 1.2, 1.3, 2)