

EMC Test Report Application for Grant of Equipment Authorization pursuant to Industry Canada RSS-Gen Issue 2 / RSS 210 Issue 7 FCC Part 15, Subpart E

Model: Intel® Centrino® Advanced-N 6205

IC CERTIFICATION #: 1000M-622ANH

1000M-62205ANHU

FCC ID: PD962205ANH

PD962205ANHU

APPLICANT: **Intel Corporation**

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

> REPORT DATE: August 31, 2010

FINAL TEST DATES: August 4, 5, 9, 10, 11, 13, 17, 18, and 20, 2010

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Testing Cert #2016.01

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Test Report Report Date: August 31, 2010

REVISION HISTORY

Rev#	Date	Comments	Modified By
-	08-31-2010	First release	

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SCOPE

An electromagnetic emissions test has been performed on the Intel Corporation model Intel® Centrino® Advanced-N 6205, pursuant to the following rules:

Industry Canada RSS-Gen Issue 2

RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment"

FCC Part 15, Subpart E requirements for UNII Devices (using FCC DA 02-2138, August 30, 2002)

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 Elliott Laboratories test procedures:

ANSI C63.4:2003 FCC UNII test procedure 2002-08 DA-02-2138, August 2002

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.

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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.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

STATEMENT OF COMPLIANCE

The tested sample of Intel Corporation model Intel® Centrino® Advanced-N 6205 complied with the requirements of the following regulations:

RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment" FCC Part 15, Subpart E requirements for UNII Devices

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 Corporation model Intel® Centrino® Advanced-N 6205 and therefore apply only to the tested sample. The sample was selected and prepared by Steve Hackett of Intel Corporation.

DEVIATIONS FROM THE STANDARDS

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

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TEST RESULTS SUMMARY

UNII/LELAN DEVICES

Operation in the 5.15 – 5.25 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.407(e)		Indoor operation only	Refer to user's manual	N/A	Complies
15.407(a) (1)		26dB Bandwidth	Limits output power if < 20MHz		N/A
15.407 (a) (1)	A9.2(1)	Output Power	802.11a: 0.032 W n20: 0.028 W n40: 0.030 W	0.050 W (17dBm)	Complies
15.407 (a) (1)	-	Power Spectral	2.3 dBm/MHz	SISO 4.0dBm/MHz	Complies
_	A9.5 (2)	Density	(802.11a mode)	MIMO 3.3dBm/MHz	Complies

Operation in the 5.25 – 5.35 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.407(a) (2)		26dB Bandwidth	Limits output power if	< 20MHz	N/A
15.407(a) (2)	A9.2(2)	Output Power	802.11a: 0.028 W n20: 0.028 W n40: 0.029 W	17dBm (50mW)	Complies
15.407(a) (2))	1	Power Spectral Density	1.8 dBm/MHz (802.11a and n20	SISO 11.0dBm/MHz MIMO 10.7dBm/MHz	Complies
-	A9.2(2) / A9.5 (2)	Power Spectral Density		11 dBm / MHz	Complies

Operation in the 5.47 – 5.725 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.407(a) (2)		26dB Bandwidth	Limits output power if < 20MHz		N/A
15.407(a) (2)	A9.2(2)	Output Power	802.11a: 0.033 W n20: 0.032 W n40: 0.034 W	24 dBm / 250mW (eirp < 30dBm)	Complies
15.407(a) (2))		Power Spectral Density	2.5 dBm/MHz	SISO 11.0dBm/MHz MIMO 9.2dBm/MHz	Complies
	A9.2(2) / A9.5 (2)	Power Spectral Density	(802.11a mode)	11.0 dBm / MHz	Complies
KDB 443999	A9	Non-operation in 5600 – 5650 MHz sub band	5600 – 5650 MHz MHz band (client devices will only operate		Complies

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Requirements for all U-NII/LELAN bands

Requirements	<u>for all U-NII/L</u>	ELAN bands			
FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (Margin)
15.407	A9.5a	Modulation	Digital Modulation is used (OFDM/QAM)	Digital modulation is required	Complies
15.407(b) (5) / 15.209	A9.3	Spurious Emissions below 1GHz	34.9dBμV/m @ 199.83MH	Refer to page 22 Comp (-8.6	
15.407(b) (5) / 15.209	A9.3	Spurious Emissions above 1GHz	52.9dBμV/m @ 5149.5MHz	Refer to page 22	Complies (-1.1dB)
15.407(a)(6)	-	Peak Excursion Ratio	12.1dB	< 13dB	Complies (-0.9dB)
	A9.5 (3)	Channel Selection	Spurious emissions tested at outermost channels in each band	Device was tested on the top, bottom	Complies
15			Measurements on three channels in each band	and center channels in each band	Complies
15.407 (c)	A9.5(4)	Operation in the absence of information to transmit	Operation is discontinued in the absence of information (Operational Description page 9)	Shall automatically discontinue operation in the absence of information to transmit	Complies
15.407 (g)	A9.5 (5)	Frequency Stability	Frequency stability is better than 20ppm (Operational Description page 9)	Signal shall remain in-band	Complies
15.407 (h1)	A9.4	Transmit Power Control	TPC is not required as the device operates at below 500mW eirp		
15.407 (h2)	A9.4	Dynamic frequency Selection (device without radar detection)	Refer to separate test report, reference R80390		
	A9.9g	User Manual information	Refer to page 19 of the user manual	Warning regarding radar interference	Complies
15.203	-	RF Connector	Non standard and typically integral to host system	Unique or integral	Complies
15.109	RSS GEN 7.2.3 Table 1	Receiver spurious emissions	34.9dBμV/m @ 199.83MHz	Refer to page 21	Complies (-8.6dB)
15.207	RSS GEN Table 2	AC Conducted Emissions	33.2dBμV @ 13.426MHz	Refer to page 20	Complies (-16.8dB)
15.247 (b) (5) 15.407 (f)	RSS 102	RF Exposure Requirements	Refer to MPE calculations, RSS 102 declaration and User Manual (page 8).	Refer to OET 65, FCC Part 1 and RSS 102	Complies
-	RSP 100 RSS GEN 7.1.5	User Manual	User Manual (page 11).	Statement required regarding non-interference	Complies
-	RSP 100 RSS GEN 7.1.5	User Manual	Antenna is intended to be integrated into the host system.	Statement for products with detachable antenna	Complies
-	RSP 100 RSS GEN 4.4.1	99% Bandwidth	802.11a: 18 MHz n 20MHz: 18.8 MHz n 40MHz: 37.1 MHz	Information only	N/A

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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	± 0.52 dB
RF power, conducted (Spectrum analyzer)	dBm	25 to 7000 MHz	± 0.7 dB
Conducted emission of transmitter	dBm	25 to 26500 MHz	± 0.7 dB
Conducted emission of receiver	dBm	25 to 26500 MHz	± 0.7 dB
Radiated emission (substitution method)	dBm	25 to 26500 MHz	± 2.5 dB
Radiated emission (field strength)	dBμV/m	25 to 1000 MHz 1000 to 40000 MHz	± 3.6 dB ± 6.0 dB
Conducted Emissions (AC Power)	dΒμV	0.15 to 30 MHz	± 2.4 dB

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EQUIPMENT UNDER TEST (EUT) DETAILS GENERAL

The Intel Corporation model Intel® Centrino® Advanced-N 6205 is a PCIe Half Mini Card form factor IEEE 802.11a/b/g/n wireless network adapter that operates in both the 2.4 GHz and 5.0 GHz spectra. The card supports 2x2 MIMO for 802.11n modes in both 20MHz and 40MHz channels. In legacy modes 1x2 operation is supported.

For radio testing purposes the card was installed in a test fixture that exposed all sides of the card.

The card is being certified with both full modular approval and limited modular approval. The two versions are electrically identical using the same hardware. The full modular version is intended for factory installation only by the oem (FCC ID:PD962205ANH; IC:1000M-62205ANH). The limited modular version is intended to allow the oem to permit user installation when the host system is provided with a bios locking feature that prevents unauthorized installation (FCC ID:PD962205ANHU; IC:1000M-62205ANHU). All versions are approved under Intel model 62205ANHWW with the exception of the limited modular approval for Canada which is approved as model 62205ANHU (see table below).

The samples were received on August 2, 2010 and tested on August 4, 5, 9, 10, 11, 13, 17, 18, and 20, 2010. The first sample was tested from August 6 through to August 9, 2010. The second sample was used for all subsequent tests due to the rf connector on the first sample breaking. The EUT consisted of the following component(s):

Manufacturer	Model	Description	MAC address	FCC ID / IC UPN
Intel	62205ANHMW	PCIe Half Mini Card 802.11a/b/g/n	Sample #1: 001500633B2C	PD962205ANH PD962205ANHU 1000M-622ANH
Corporation	62205ANHU	wireless network adapter	Sample #2: 001500633B14	1000M- 62205ANHU

OTHER EUT DETAILS

The EUT antenna system consists of two PIFA antennas manufactured by the Shanghai Universe Communication Electron Co., Ltd,

The antenna connects to the EUT via a non-standard antenna connector, thereby meeting the requirements of FCC 15.203. Further the antenna connectors are typically located inside the host PC without access to the end user. Where the end user can install the module the systems are protected by a BiOS Lock mechanism to ensure the card is only used with the approved antennas in the approved host systems.

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ENCLOSURE

The EUT does not have an enclosure as it is designed to be installed within the enclosure of a host computer or system.

MODIFICATIONS

No modifications were made to the EUT during the time the product was at Elliott.

SUPPORT EQUIPMENT

The following equipment was used as local support equipment for emissions testing:

Company	Model	Description	Serial Number	FCC ID
Intel	-	test fixture	-	-
Dell	prototype	Laptop	-	-

INTERFACE PORTS

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

Port		Cable(s)		
From	То	Description	Shielded/Unshielded	Length(m)
Fixture PCIe	Laptop PCIe	Ribbon	Shielded	1
Fixture USB	Laptop USB	-	Shielded	2
Fixture DC Power	DC Power Supply	-	Unshielded	1

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EUT OPERATION

The EUT was installed into a test fixture that exposed all sides of the card. The test fixture interfaced to a laptop computer and dc power supply. The laptop computer was used to configure the EUT to continuously transmit at a specified output power or continuously receive on the channel specified in the test data. For transmit mode measurements the system was configured to operate in each of the available operating modes – 802.11b, 802.11g, 802.11a, 802.11n (20 MHz channel bandwidth) and 802.11n (40MHz channel bandwidth).

Legacy modes (SISO-only) were evaluated on each chain individually. The 802.11n modes were evaluated operating on each chain separately (SISO) and on both chains simultaneously (MIMO). Spurious measurements, other than band-edge measurements, were only performed on 802.11n modes with both chains transmitting simultaneously. For those tests the output power per chain was set to the higher single-chain power level to cover both SISO and MIMO operation.

The data rates used for all tests were the lowest data rates for each mode – 1Mb/s for 802.11b, 6Mb/s for 802.11a and 802.11g, 6.5MB/s for 802.11n (20MHz), and 13 Mb/s for 802.11n (40MHz). The device operates at its maximum output power at the lowest data rate (this was confirmed through separate measurements – refer to test data for actual measurements).

The PC was using the Intel test utility DRTU Version 1.1.3 and the device driver was version 13.0.0.238.

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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	Registratio	Location	
Site	FCC	Canada	
Chamber 3	769238	2845B-3	41039 Boyce Road
Chamber 4	211948	2845B-4	Fremont,
Chamber 5	211948	2845B-5	CA 94538-2435

ANSI C63.4:2003 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 C63.4:2003.

CONDUCTED EMISSIONS CONSIDERATIONS

Conducted emissions testing is performed in conformance with ANSI C63.4:2003. 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 C63.4:2003 guidelines and meet the Normalized Site Attenuation (NSA) requirements of ANSI C63.4:2003.

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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.

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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 C63.4:2003 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. 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.

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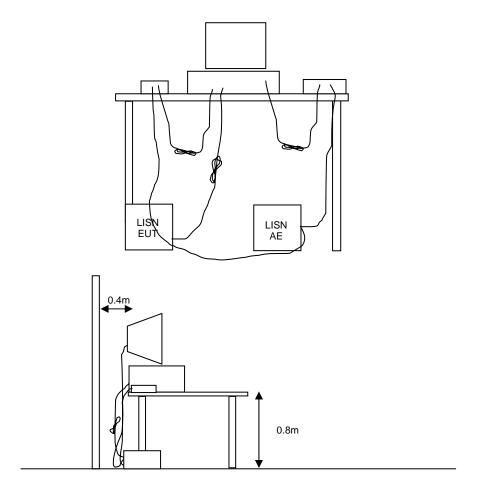
TEST PROCEDURES

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 C63.4:2003, 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.



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RADIATED EMISSIONS

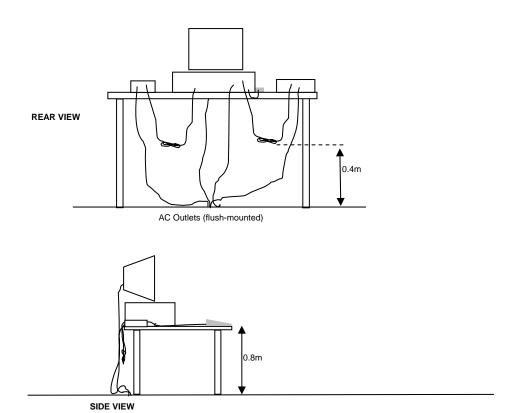
A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). 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.

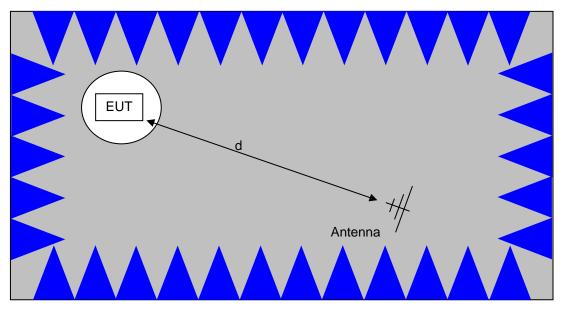
When testing above 18 GHz, the receive antenna is located at 1meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.

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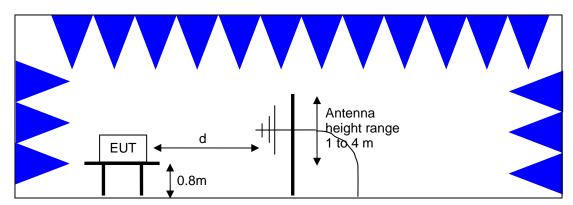
Typical Test Configuration for Radiated Field Strength Measurements

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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.

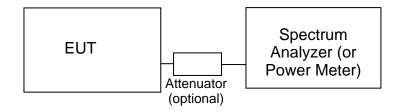


<u>Test Configuration for Radiated Field Strength Measurements</u> Semi-Anechoic Chamber, Plan and Side Views

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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 Elliott'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 and/or 26dB signal bandwidth is measured in using the bandwidths recommended by ANSI C63.4. When required, the 99% bandwidth is measured using the methods detailed in RSS GEN.

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

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

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GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands¹ (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 _{KHz} @ 300m	67.6-20*log ₁₀ (F _{KHz}) @ 300m
0.490-1.705	24000/F _{KHz} @ 30m	87.6-20*log ₁₀ (F _{KHz}) @ 30m
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

FCC 15.407 (a) OUTPUT POWER LIMITS

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
5150 - 5250	50mW (17 dBm)	4 dBm/MHz
5250 - 5350	250 mW (24 dBm)	11 dBm/MHz
5725 - 5825	1 Watts (30 dBm)	17 dBm/MHz

For system using antennas with gains exceeding 6dBi, the output power and power spectral density limits are reduced by 1dB for every dB the antenna gain exceeds 6dBi. Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

The peak excursion envelope is limited to 13dB.

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

OUTPUT POWER LIMITS -LELAN DEVICES

The table below shows the limits for output power and output power density defined by RSS 210. 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	Output Power	Power Spectral
(MHz)		Density
5150 - 5250	200mW (23 dBm) eirp	10 dBm/MHz eirp
5250 - 5350	250 mW (24 dBm) ² 1W (30dBm) eirp	11 dBm/MHz
5470 – 5725	250 mW (24 dBm) ³ 1W (30dBm) eirp	11 dBm/MHz
5725 – 5825	1 Watts (30 dBm) 4W eirp	17 dBm/MHz

In addition, the power spectral density limit shall be reduced by 1dB for every dB the highest power spectral density exceeds the "average" power spectral density) by more than 3dB. The "average" power spectral density is determined by dividing the output power by $10\log(EBW)$ where EBW is the 99% power bandwidth.

Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

SPURIOUS EMISSIONS LIMITS -UNII and LELAN DEVICES

The spurious emissions limits for signals below 1GHz are the FCC/RSS-GEN general limits. For emissions above 1GHz, signals in restricted bands are subject to the FCC/RSS GEN general limits. All other signals have a limit of –27dBm/MHz, which is a field strength of 68.3dBuV/m/MHz at a distance of 3m. This is an average limit so the peak value of the emission may not exceed –7dBm/MHz (68.3dBuV/m/MHz at a distance of 3m). For devices operating in the 5725-5850Mhz bands under the LELAN/UNII rules, the limit within 10Mhz of the allocated band is increased to –17dBm/MHz.

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² If EIRP exceeds 500mW the device must employ TPC

³ If EIRP exceeds 500mW the device must employ TPC

SAMPLE CALCULATIONS - CONDUCTED EMISSIONS

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

$$R_r - S = M$$

where:

 R_r = 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.

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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:

$$E = \frac{1000000 \sqrt{30 P}}{d}$$
 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.

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Appendix A Test Equipment Calibration Data

Radiated Emissions,	1,000 - 40,000 MHz			
Manufacturer Rohde & Schwarz EMCO	<u>Description</u> Power Meter, Single Channel Antenna, Horn, 1-18 GHz	Model NRVS 3115	Asset # 1290 487	<u>Cal Due</u> 10/22/2010 7/6/2012
Hewlett Packard	SpecAn 9 kHz - 40 GHz, FT (SA40) Blue	8564E (84125C)	1393	4/14/2011
Rohde & Schwarz	Power Sensor 100 uW - 10 Watts	NRV-Z53	1555	2/5/2011
Rohde & Schwarz	Attenuator, 20 dB, 50 ohm, 10W, DC-18 GHz	20dB, 10W, Type N	1556	2/5/2011
Micro-Tronics	Band Reject Filter, 5150-5350 MHz	BRC50703-02	1729	9/25/2010
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	1730	9/25/2010
Hewlett Packard	Head (Inc W1-W4, 1946, 1947) Purple	84125C	1772	5/6/2011
A.H. Systems Micro-Tronics	Blue System Horn, 18-40GHz Band Reject Filter, 5150-5350	SAS-574, p/n: 2581 BRC50703-02	2159 2239	3/18/2011 7/2/2011
	MHz			
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	2240	7/2/2011
Radiated Emissions,	30 - 1,000 MHz and Conducted Em	nissions, 13-Aug-10		
Radiated Emissions, <u>Manufacturer</u> Solar Electronics		Model 8028-50-TS-24-BNC	Asset # 904	<u>Cal Due</u> 3/2/2011
<u>Manufacturer</u>	30 - 1,000 MHz and Conducted Em <u>Description</u>	Model		
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm Radio Antenna Port (30 - 1,000 MHz and Conducted Em Description LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp, Power and Spurious Emissions), 2	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09	904 1401 1632 1657 1756 2001	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011 10/21/2010
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm	30 - 1,000 MHz and Conducted Em <u>Description</u> LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp,	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09	904 1401 1632 1657 1756 2001	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm Radio Antenna Port (Manufacturer Rohde & Schwarz	30 - 1,000 MHz and Conducted Em Description LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp, Power and Spurious Emissions), 1 Description Power Meter, Single Channel SpecAn 9 kHz - 40 GHz, FT	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09 16-Aug-10 to 20-Aug-1 Model NRVS	904 1401 1632 1657 1756 2001 0 Asset # 1290	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011 10/21/2010 Cal Due 10/22/2010

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Appendix B Test Data

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Ellio Ellio	tt Ecompany	El	MC Test Data
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		-
Emissions Standard(s):	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В
Immunity Standard(s):	-	Environment:	Radio

EMC Test Data

For The

Intel Corporation

Model

62205ANHMW (Intel® Centrino® Advanced-N 6205)

Date of Last Test: 8/21/2010



EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Madely 62205 ANIJANA/ (Intel® Contrins® Advanced N	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wodei.	02203ANTIWW (IIILEI® CEITHINO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

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 is reduced as the data rate increases, therefore testing was performed at the lowest data rate in each mode as this data rate to determine compliance with the requirements at the highest power setting.

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

Mode	Data Rate	Power
	1	13.7
802.11b	2	13.7
002.110	5.5	13.4
	11	13.4
	6	15.1
	9	14.8
	12	14.7
802.11g	18	14.7
(802.11a)	24	14.5
	36	14.6
	48	13.3
	54	11.2
	6.5	14.9
	13	14.8
	19.5	14.5
802.11n	26	14.4
20MHz	39	14.2
	52	13.4
	58.5	10.7
	65	9.2
	13.5	14.9
	27	14.8
	40.5	14.8
802.11n	54	14.7
40MHz	81	14.5
	108	13.5
	121.5	10.8
	135	9.2

	Eliott An WIAS company	EM	C Test Data
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wodei.	02203ANHIVIV (III.el® Cellullo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

Conducted Emissions - Wireless Module (DTS/NII/RSS 210)

(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: 8/13/2010 Config. Used: Module
Test Engineer: Mark Hill Config Change: None
Test Location: FT #3 Host Unit Voltage 120V/60Hz

General Test Configuration

The test fixture was located on a wooden table inside the semi-anechoic chamber, 40 cm from a vertical coupling plane and 80cm from the LISN which was used to connect to the AC input of the DC power supply connected to the test fixture. A second LISN was used for all remaining support equipment.

Ambient Conditions: Temperature: 22 °C

Rel. Humidity: 37 %

Summary of Results

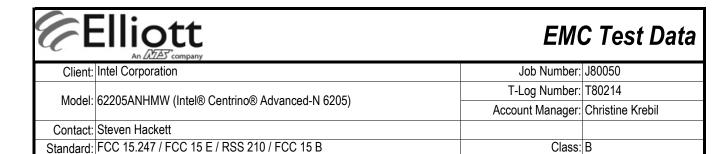
Run #	Test Performed	Limit	Result	Margin
1	CE, AC Power,120V/60Hz	FCC 15.207/RSS GEN	Pass	33.2dBµV @ 13.426MHz (-16.8dB)

Modifications Made During Testing

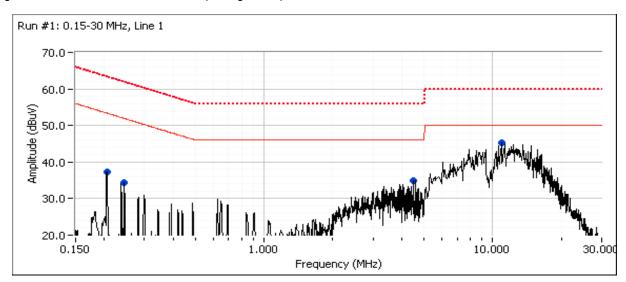
No modifications were made to the EUT during testing

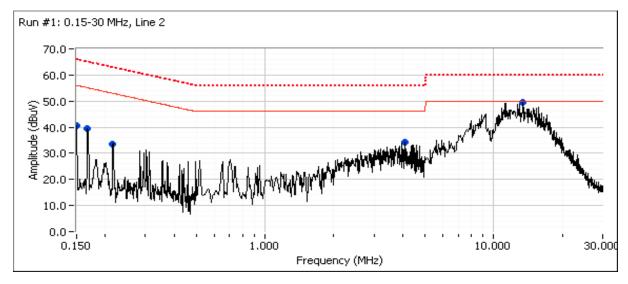
Deviations From The Standard

No deviations were made from the requirements of the standard.



Run #1: AC Power Port Conducted Emissions, 0.15 - 30MHz, 120V/60Hz Configured to TX at 16.5dBm on each chain (settings 33/31) on channel 6, HT8





Model Contact	Intel Corpor 62205ANHI Steven Hac FCC 15.247	MW (Intel® C				l l		IOUUEU
Contact	: Steven Hac	•					Job Number:	
			entrino® Adv	anced-N 620	95)		T-Log Number: Account Manager:	
		kett						
Otaridara			/ RSS 210 / F	CC 15 B			Class:	В
								_
reliminar	y peak readi	ngs capture	d during pre	-scan (peak	readings v	s. average limit)	
requency	Level	AC		7/RSS GEN	Detector	Comments		
MHz	dΒμV	Line	Limit	Margin	QP/Ave			
13.426	49.5	Line 2	50.0	-0.5	Peak			
10.909	45.2	Line 1	50.0	-4.8	Peak			
4.488	35.0	Line 1	46.0	-11.0	Peak			
4.088	34.3	Line 2	46.0	-11.7	Peak			
0.150	40.7	Line 2	56.0	-15.3	Peak			
0.168	39.5	Line 2	55.1	-15.6	Peak			
0.205	37.4	Line 1	53.4	-16.0	Peak			
0.245	34.4	Line 1	51.9	-17.5	Peak			
0.217	33.5	Line 2	53.0	-19.5	Peak			
		_	_					
	i-peak and a	verage read	inac					
requency	1			-/DOO OF!!		Ta .		
	Level	AC	FCC 15.20	7/RSS GEN	Detector	Comments		
MHz	Level dBµV	AC Line	FCC 15.20	Margin	QP/Ave			
MHz 13.426	Level dBµV 33.2	AC Line Line 2	FCC 15.20 Limit 50.0	Margin -16.8	QP/Ave AVG	AVG (0.10s)		
MHz 13.426 13.426	Level dBμV 33.2 42.6	AC Line Line 2 Line 2	FCC 15.20 Limit 50.0 60.0	Margin -16.8 -17.4	QP/Ave AVG QP	AVG (0.10s) QP (1.00s)		
MHz 13.426 13.426 10.909	Level dBμV 33.2 42.6 39.1	AC Line Line 2 Line 2 Line 1	FCC 15.20 Limit 50.0 60.0 60.0	Margin -16.8 -17.4 -20.9	QP/Ave AVG QP QP	AVG (0.10s) QP (1.00s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909	Level dBµV 33.2 42.6 39.1 27.9	AC Line Line 2 Line 2 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0	Margin -16.8 -17.4 -20.9 -22.1	QP/Ave AVG QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s)		
MHz 13.426 13.426 10.909 10.909 4.488	Level dBµV 33.2 42.6 39.1 27.9 28.7	AC Line Line 2 Line 2 Line 1 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0	Margin -16.8 -17.4 -20.9 -22.1 -27.3	QP/Ave AVG QP QP AVG QP	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8	QP/Ave AVG QP QP AVG QP AVG QP	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2	ECC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9	QP/Ave AVG QP QP AVG QP QP QP	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2	ECC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1	QP/Ave AVG QP QP AVG QP QP QP QP QP	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3	QP/Ave AVG QP AVG QP QP QP QP QP QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3	QP/Ave AVG QP AVG QP QP QP QP QP AVG AVG AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 63.4	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0	QP/Ave AVG QP AVG QP QP QP QP AVG QP QP QP QP QP AVG AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2	QP/Ave AVG QP AVG QP AVG AVG QP QP	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 1 Line 2 Line 1 Line 2 Line 1 Line 2 Line 1 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4	QP/Ave AVG QP AVG QP QP QP QP QP QP QP AVG AVG QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 1 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1 Line 1 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9 53.4	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6	QP/Ave AVG QP AVG QP QP QP QP QP QP QP AVG AVG AVG QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217 0.205 0.245	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8 12.3	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1 Line 2 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 46.0 63.4 61.9 62.9 53.4 51.9	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6 -39.6	QP/Ave AVG QP QP QP QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) AVG (0.10s)		
MHz 13.426 13.426 10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217	Level dBµV 33.2 42.6 39.1 27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8	AC Line Line 2 Line 2 Line 1 Line 1 Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 1 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1 Line 1 Line 1 Line 1	FCC 15.20 Limit 50.0 60.0 60.0 50.0 56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9 53.4	Margin -16.8 -17.4 -20.9 -22.1 -27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6	QP/Ave AVG QP AVG QP QP QP QP QP QP QP AVG AVG AVG QP QP AVG	AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s)		



EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Model	Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model:	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

Radiated Emissions 30-1000 MHz, Wireless Module (DTS/NII/RSS 210)

(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: 8/13/2010 Config. Used: Modular Test
Test Engineer: Mark Hill Config Change: None
Test Location: FT #3 Host Unit Voltage 120V/60Hz

General Test Configuration

The EUT and any local support equipment were located on the turntable for radiated emissions testing. Any remote support equipment was located outside the semi-anechoic chamber. Any cables running to remote support equipment where routed through metal conduit and when possible passed through a ferrite clamp upon exiting the chamber.

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 antenna, and manipulation of the EUT's interface cables.

Ambient Conditions:

Temperature: 22 °C Rel. Humidity: 37 %

Summary of Results

Run #	Test Performed	Limit	Result	Margin
1	Radiated Emissions	FCC 15.209 / RSS 210	Pass	34.9dBµV/m @ 199.83MHz
	30 - 1000 MHz	FCC 13.209 / N33 210	F 455	(-8.6dB)

Note - preliminary measurements indicated that the radiated emissions from the combination of test fixture and EUT were not affected by the modules operating frequency or mode (transmit versus receive mode). The system was therefore evaluated against the most stringent set of limits from FCC 15.247, FCC 15E and RSS 210 with the **device operating at max power per chain on both chains in 802.11n 20MHz mode at 2437 MHz.**

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.

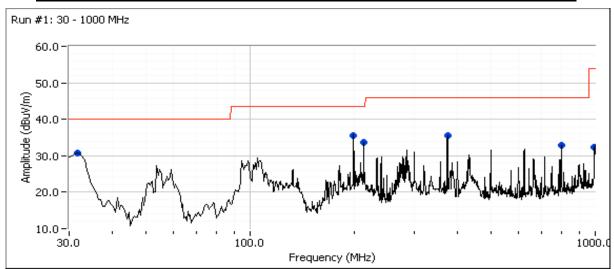


EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wodei.	02203ANHIVIVV (IIItel® Celtillio® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

Run #1: Preliminary Radiated Emissions, 30 - 1000 MHz Configured to TX at 16.5dBm on each chain (settings 33/31) on channel 6, HT8

Frequency Range	Test Distance	Limit Distance	Extrapolation Factor
30 - 1000 MHz	3	3	0.0



Preliminary peak readings captured during pre-scan

· · · · · · · · · · · · · · · · · · ·	Terminal permitter and the control of the comments of the comm								
Frequency	Level	Pol	FCC 15.209	9 / RSS 210	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
199.830	35.5	Н	43.5	-8.0	Peak	232	1.5		
32.144	30.8	V	40.0	-9.2	Peak	83	1.0		
213.950	33.6	Н	43.5	-9.9	Peak	262	1.5		
374.346	35.6	Н	46.0	-10.4	Peak	283	1.0		
796.607	32.9	Н	46.0	-13.1	Peak	171	1.0		
996.867	32.3	Н	54.0	-21.7	Peak	238	1.5		

Maximized quasi-peak readings (includes manipulation of EUT interface cables)

Frequency	Level	Pol	FCC 15.209	9 / RSS 210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
199.830	34.9	Н	43.5	-8.6	QP	251	1.5	QP (1.00s)
32.144	29.0	V	40.0	-11.0	QP	56	1.0	QP (1.00s)
374.346	33.2	Н	46.0	-12.8	QP	259	1.0	QP (1.00s)
213.950	30.1	Н	43.5	-13.4	QP	261	1.5	QP (1.00s)
796.607	31.8	Н	46.0	-14.2	QP	163	1.0	QP (1.00s)
996.867	28.3	Н	54.0	-25.7	QP	231	1.5	QP (1.00s)
		•						

	Elliott An AVAS company	EMO	C Test Data
Client:	Intel Corporation	Job Number:	J80050
Madalı	COORDANILIMAN (Intel® Contring® Advanced N COOR)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 and FCC 15.E (NII) Radiated Emissions Band Edge Measurements

Summary of Results

MAC Address: 001500633B2C DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

Note - the target and measured power are average powers (measured with average power sensor) and are used for reference purposes

only. Power is set using " GAIN CONTROL" mode in the DRTU tool.

Run#	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin								
		#38 5190MHz	11.0	11.2	Restricted Band Edge at 5150 MHz	15.209	45.3dBµV/m @ 5150.0MHz (-8.7dB)								
		#62 5310MHz	11.0	11.2	Restricted Band Edge at 5350 MHz	15.209	44.4dBµV/m @ 5350.0MHz (-9.6dB)								
Run # 1	n 40MHz Chain A	#102	13.5	13.6	Restricted Band Edge at 5460 MHz	15.209	45.2dBµV/m @ 5460.0MHz (-8.8dB)								
		5510MHz	13.5	13.0	Band Edge at 5470 MHz	15 E	54.2dBµV/m @ 5469.8MHz (-14.1dB)								
		#134 5670MHz	16.5	16.6	Band Edge at 5725 MHz	15 E	46.5dBµV/m @ 5725.0MHz (-21.8dB)								
		#38 5190MHz	11.0	11.3	Restricted Band Edge at 5150 MHz	15.209	48.2dBµV/m @ 5150.0MHz (-5.8dB)								
		#62 5310MHz	11.0	11.2	Restricted Band Edge at 5350 MHz	15.209	46.6dBµV/m @ 5350.0MHz (-7.4dB)								
Run # 2	n 40MHz Chain B		#102 13.5	13.4	Restricted Band Edge at 5460 MHz	15.209	46.0dBµV/m @ 5460.0MHz (-8.0dB)								
	_		#13 5670N	5510MHz	10.0	7.0	Band Edge at 5470 MHz	15 E	53.8dBµV/m @ 5469.6MHz (-14.5dB)						
					#134 5670MHz	16.5	16.6	Band Edge at 5725 MHz	15 E	43.1dBµV/m @ 5727.6MHz (-25.2dB)					
		#38 5190MHz	A: 10 B: 10	A: 10.0 B: 10.0	Restricted Band Edge at 5150 MHz	15.209	47.3dBµV/m @ 5149.4MHz (-6.7dB)								
	Run # 3 n 40MHz Chain A+B		n 40MHz Chain A+B	n 40MHz	n 40MHz					#62 5310MHz	A: 10 B: 10	A: 10.1 B: 10.1	Restricted Band Edge at 5350 MHz	15.209	46.5dBµV/m @ 5350.0MHz (-7.5dB)
Run # 3						#102	A: 12.5	A: 12.6	Restricted Band Edge at 5460 MHz	15.209	49.4dBµV/m @ 5458.6MHz (-4.6dB)				
		5510MHz	B: 12.5	B: 12.4	Band Edge at 5470 MHz	15 E	52.2dBµV/m @ 5469.8MHz (-16.1dB)								
		#134 5670MHz	A: 13.5 B: 13.5	A: 13.5 B: 13.8	Band Edge at 5725 MHz	15 E	42.3dBµV/m @ 5725.5MHz (-26.0dB)								

	Ellic	ott Zer*company				EMO	C Test Data	
Client:	Intel Corpora	ation				Job Number:	J80050	
				T-Log Number:	T80214			
Model:	62205ANHN	/IW (Intel® C	entrino® Ad\	anced-N 620	05)	Account Manager:		
	Steven Hack							
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / I	-CC 15 B		Class:	N/A	
	•							
Run#	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin	
		#36	15.5	15.5	Restricted Band Edge at	15.209	38.8dBµV/m @	
		5180MHz			5150 MHz		5150.0MHz (-15.2dB)	
		#64	16.0	15.9	Restricted Band Edge at	15.209	40.4dBµV/m @	
	n 20MHz	5320MHz			5350 MHz Restricted Band Edge at		5350.3MHz (-13.6dB) 37.9dBµV/m @	
Run # 4	_	#100			5460 MHz	15.209		
	Chain A	#100 5500MHz	16.5	16.5	Band Edge at		5458.1MHz (-16.1dB) 43.3dBµV/m @	
			3300IVII IZ			5470 MHz	15 E	5468.9MHz (-25.0dB)
			#140			Band Edge at		47.2dBµV/m @
		5700MHz	16.5	16.4	5725 MHz	15 E	5728.0MHz (-21.1dB)	
		#36			Restricted Band Edge at	45.000	45.2dBµV/m @	
		5180MHz	15.5	15.6	5150 MHz	15.209	5149.3MHz (-8.8dB)	
		#64	4 16.0 16	16.0	Restricted Band Edge at	15.209	39.5dBµV/m @	
		5320MHz		10.0	5350 MHz		5350.0MHz (-14.5dB)	
Run # 5	n 20MHz	Chain B #100 16.5 16.4		Restricted Band Edge at	15.209	39.8dBµV/m @		
itαiiπ σ	Chain B		16.5	16.4	5460 MHz	10.203	5459.2MHz (-14.2dB)	
		5500MHz	10.0	10.1	Band Edge at	15 E	44.3dBµV/m @	
		"440			5470 MHz		5469.3MHz (-24.0dB)	
		#140	16.5	16.4	Band Edge at	15 E	43.9dBµV/m @	
		5700MHz #36	A: 12.5	A: 12.4	5725 MHz Restricted Band Edge at		5729.4MHz (-24.4dB) 52.9dBµV/m @	
		#36 5180MHz	A: 12.5 B: 12.5	A: 12.4 B: 12.5	5150 MHz	15.209	5149.5MHz (-1.1dB)	
		#64	A: 13.0	A: 13.2	Restricted Band Edge at		48.6dBµV/m @	
		5320MHz	B: 13.0	B: 13.1	5350 MHz	15.209	5350.0MHz (-5.4dB)	
	n 20MHz	JJZUWII IZ	D. 15.0	D. 10.1	Restricted Band Edge at		47.4dBµV/m @	
Run #6	Chain A+B	#100	A: 13.5	A: 13.6	5460 MHz	15.209	5457.6MHz (-6.6dB)	
		5500MHz	B: 13.5	B: 13.6	Band Edge at	45.5	48.5dBµV/m @	
					5470 MHz	15 E	5469.1MHz (-19.8dB)	
		#140	A: 13.5	A: 13.4	Band Edge at	15 E	51.8dBµV/m @	
		5700MHz	B: 13.5	B: 13.6	5725 MHz	IJ L	5728.7MHz (-16.5dB)	
802.11a mo	de tested on		h least marg	in from 802.	11n 20MHz mode		40.0 15	
		#36	16.0	16.2	Restricted Band Edge at	15.209	48.0dBµV/m @	
		5180MHz		. ,,_	5150 MHz		5150.0MHz (-6.0dB)	
		#64	16.0	15.9	Restricted Band Edge at 5350 MHz	15.209	43.1dBµV/m @	
	802.11a	5320MHz			Restricted Band Edge at		5350.0MHz (-10.9dB) 39.9dBµV/m @	
Run # 7	Chain B	#100			5460 MHz	15.209	5459.9MHz (-14.1dB)	
	Chair	5500MHz	16.5	16.7	Band Edge at		46.9dBµV/m @	
		JOOUTINI IZ			5470 MHz	15 E	5470.0MHz (-21.4dB)	
		#140	40.5	40.5	Band Edge at	45.5	46.5dBµV/m @	
		5700MHz	16.5	16.5	5725 MHz	15 E	5725.1MHz (-21.8dB)	



EMC Test Data

	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Test Specific Details

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

General Test Configuration

The EUT ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions: Rel. Humidity: 25 - 50 %

> Temperature: 18 - 25 °C

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.

Marker Delta Measurements

Three sets of marker deltas are measured using the following settings: RB=VB=100kHz; RB=1MHz,VB=1MHz; RB=1MHz, VB=10Hz. Marker deltas are made conducted (analyzer connected to EUT rf port a 20dB pad) for single chain operation and radiated (at a distance of ~ 50cm) for MIMO modes.

The fundamental field strength is always measured at a 3m test distance.

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	All Death Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1, Band Edge Field Strength - n 40MHz, Chain A Run # 1a, EUT on Channel #38 5190MHz - n 40MHz, Chain A

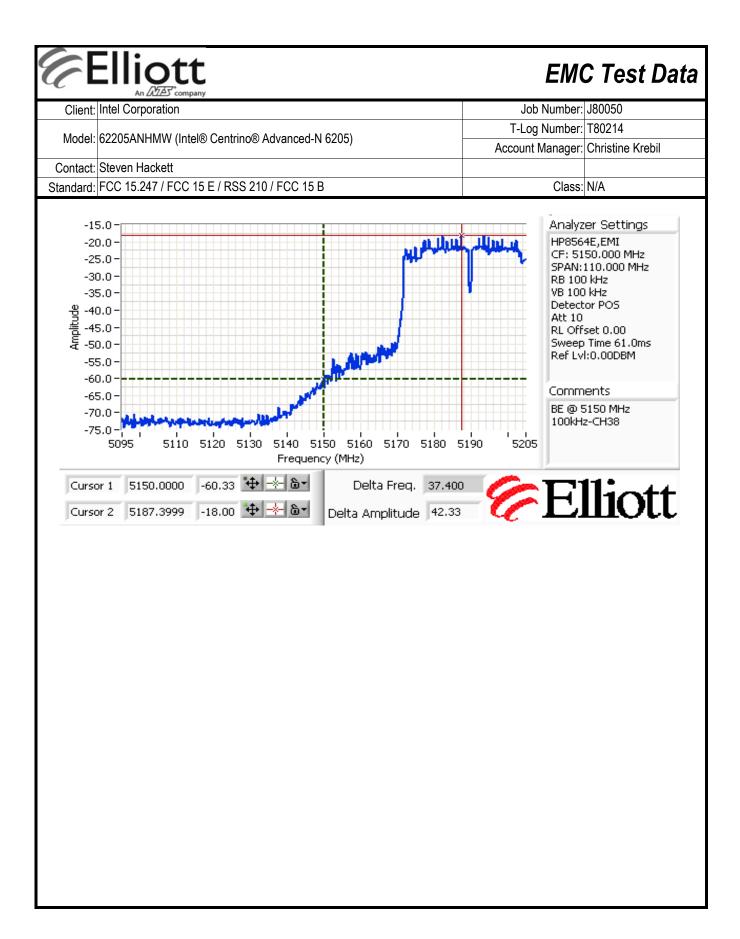
Date of Test: 8/4/2010 Test Location: Chamber #3
Test Engineer: Suhaila Khushzad Config Change: none

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	11.0	11.2	15.5

Fundamental Signal Field Strength

	ur ergmur r	• • •						
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5187.130	87.2	Н	-	-	AVG	316	1.0	RB 1 MHz;VB 10 Hz;Pk
5182.270	95.0	Н	-	-	PK	316	1.0	RB 1 MHz;VB 3 MHz;Pk
5192.800	87.6	V	-	-	AVG	123	1.9	RB 1 MHz;VB 10 Hz;Pk
5191.870	95.6	V	-	-	PK	123	1.9	RB 1 MHz;VB 3 MHz;Pk

5150 MHZ B	ana ⊑age S	ignai Radiai	ea Fiela Str	engtn - wari	ker Deita		_			
					Н	V				
F	undamental	emission lev	/el @ 3m in	1MHz RBW:	95.0	95.6	Peak Measi	urement (RB=	=VB=1MHz)	
F	undamental	emission lev	/el @ 3m in	1MHz RBW:	87.2	87.6	Average Me	asurement (F	RB=1MHz, V	B=10Hz)
			Delta Mark	er - 100kHz	42.3	dB	<- this can o	only be used i	if band edge	signal is
	Calcula	ted Band-Ed	ge Measurer	nent (Peak):	53.3	dBuV/m	highest with	in 2MHz of b	and edge.	
	Calcul	ated Band-E	dge Measure	ement (Avg):	45.3	dBuV/m	Margin	Level	Limit	Detector
		Deli	ta Marker - 1	MHz/1MHz:	37.0	dB	-8.7	45.3	54	Avg
		De	lta Marker - 1	1MHz/10Hz:	41.3	dB	-20.7	53.3	74	Pk
	Calcula	ted Band-Ed	ge Measurer	nent (Peak):	58.6	dBuV/m	Using 100kl	Hz delta value	Э	
	Calcul	ated Band-E	dge Measure	ement (Avg):	46.3	dBuV/m	Using 100kl	Hz delta value	Э	
							_			
Frequency	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5150.000	45.3	-	54.0	-8.7	Avg	-	-	Using 100kl	Iz delta valu	е



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Elliott An AZET company
An ZAZZZ company
Client: Intel Corporation
Model: 62205ANHMW (Intel®

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEW CEITHING Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b, EUT on Channel #62 5310MHz - n 40MHz, Chain A Date of Test: 8/4/2010 Test Location: Chamber #3 Test Engineer: Suhaila Khushzad Config Change: none

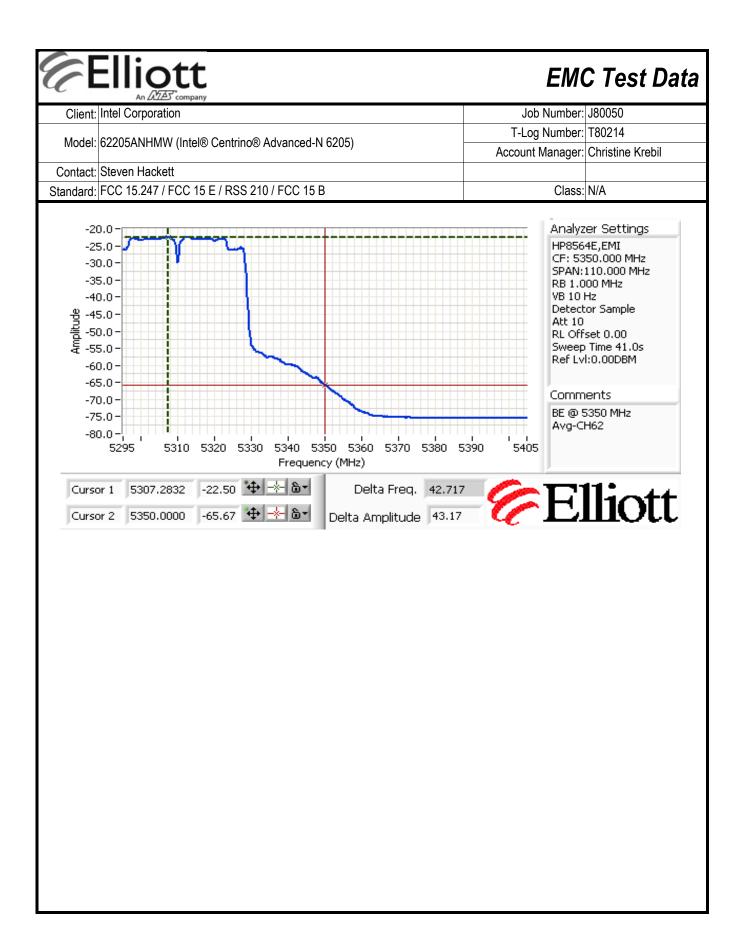
		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	11.0	11.2	16.0

Fundamental Signal Field Strength

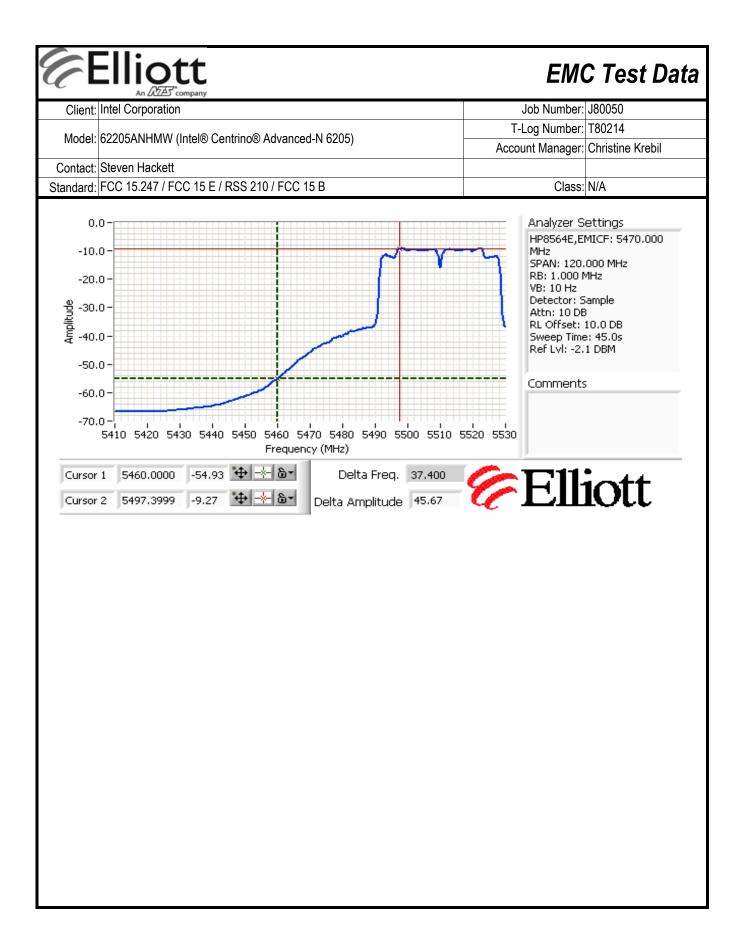
	<i>019114111</i>							
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5313.070	86.7	Η	-	-	AVG	330	1.0	RB 1 MHz;VB 10 Hz;Pk
5312.800	94.6	Η	-	-	PK	330	1.0	RB 1 MHz;VB 3 MHz;Pk
5313.070	87.6	V	-	-	AVG	159	1.1	RB 1 MHz;VB 10 Hz;Pk
5313.600	95.6	V	-	-	PK	159	1.1	RB 1 MHz;VB 3 MHz;Pk

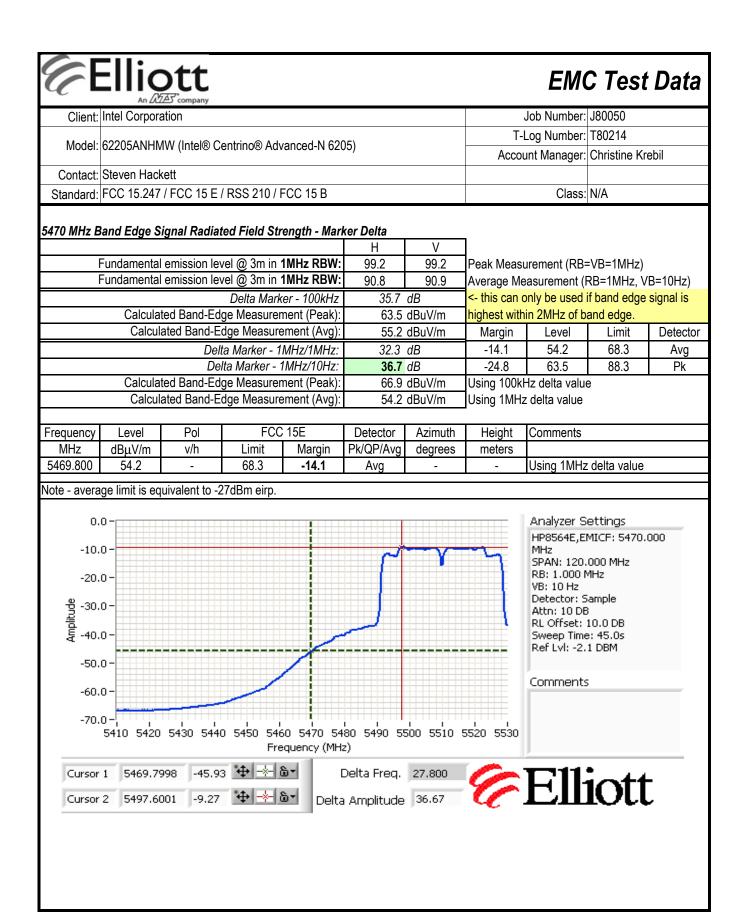
			_				
	Н	V					
Fundamental emission level @ 3m in 1MHz RBW:	94.6	95.6	Peak Measurement (RB=VB=1MHz)				
Fundamental emission level @ 3m in 1MHz RBW:	86.7	87.6	Average Me	asurement (F	RB=1MHz, V	B=10Hz)	
Delta Marker - 100kHz	42.8	dB	<- this can only be used if band edge signal is				
Calculated Band-Edge Measurement (Peak):	52.8	dBuV/m	highest within 2MHz of band edge.				
Calculated Band-Edge Measurement (Avg):	44.8	dBuV/m	Margin	Level	Limit	Detector	
Delta Marker - 1MHz/1MHz:	39.2	dB	-9.6	44.4	54	Avg	
Delta Marker - 1MHz/10Hz:	43.2	dB	-21.2	52.8	74	Pk	
Calculated Band-Edge Measurement (Peak):	56.4	dBuV/m	Using 100kh	Iz delta value	Э		
Calculated Band-Edge Measurement (Avg):	44.4	dBuV/m	Using 1MHz	Using 1MHz delta value			
			_				

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	44.4	-	54.0	-9.6	Avg	-	-	Using 1MHz delta value

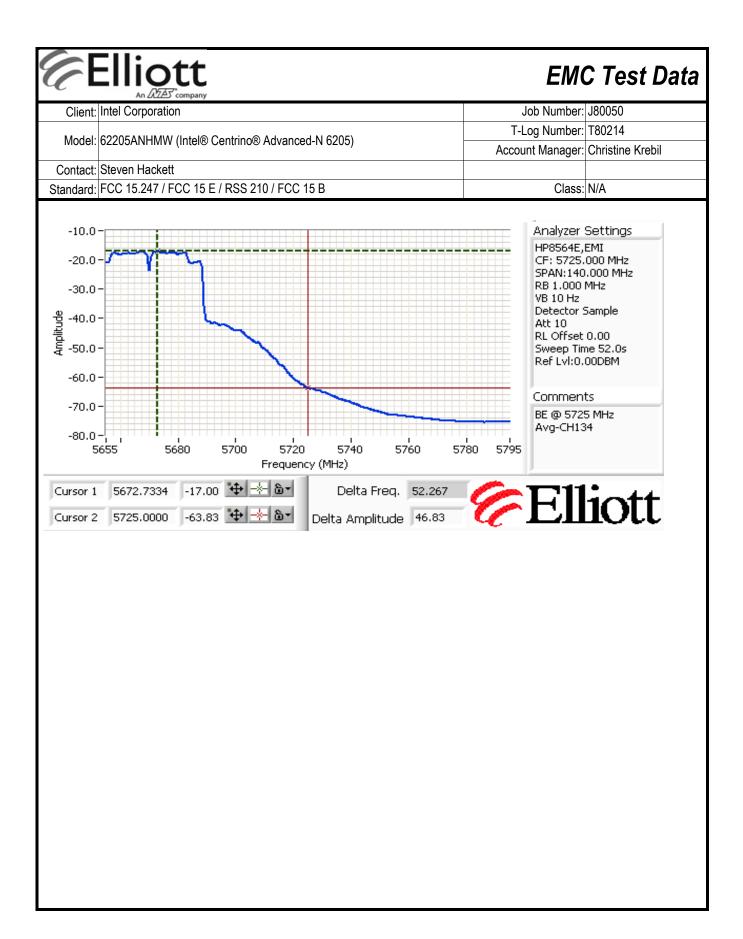


Client:	Intel Corpora	をで company ation		Job Number:	J80050						
					 \		T-	Log Number:	T80214		
Model:	62205ANHN	/IW (Intel® C	entrino® Ad\	/anced-N 62	05)			unt Manager:		ebil	
Contact:	Steven Hacl	kett									
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A		
Run # 1c, E	UT on Chan	nel #102 55 ²	10MHz - n 40	OMHz, Chair	ı A						
					Power S	Settings					
			Target	t (dBm)	Measure	-		e Setting			
		Chain A	13	3.5	13	3.6	2:	2.0			
- - 	al Signal Fie	eld Strength									
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5512.870	90.9	V	-	-	AVG	183	1.9	RB 1 MHz;V	MHz;VB 10 Hz;Pk		
5513.670	99.2	V	-	-	PK	183	1.9	RB 1 MHz;V			
5497.530	90.8	Н	-	-	AVG	262	1.0	RB 1 MHz;V	'B 10 Hz;Pk		
5497.530	99.2	Н	-	-	PK	262	1.0	RB 1 MHz;V	B 3 MHz;Pk		
5/60 MH= P	estricted R	and Edga Si	anal Padiat	ad Field Str	ength - Marke	ar Dalta					
7400 MITIZ IX	confeteu De	and Lage of	griai Naulati	ou i icia ou c	H	V	1				
F	undamenta	l emission lev	/el @ 3m in	1MHz RBW:		99.2	Peak Meas	urement (RB=	VB=1MHz)		
		l emission lev				90.9		easurement (F	,	B=10Hz)	
				er - 100kHz	45.0			only be used i			
	Calcula	ted Band-Ed				dBuV/m		nin 2MHz of ba		J	
		ated Band-E				dBuV/m	Margin	Level	Limit	Detecto	
		Deli	ta Marker - 1	MHz/1MHz:	40.0		-8.8	45.2	54	Avg	
			lta Marker -		45.7		-19.8	54.2	74	Pk	
	Calcula	ted Band-Ed	ge Measurer	ment (Peak):		dBuV/m		Hz delta value			
		ated Band-E						z delta value			
Frequency	Level	Pol	FCC	15.209	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
	45.2		54.0	-8.8	Avg	-	i	Using 1MHz			





Model:			ntel Corporation						•		
Contact:	62205ANHIVI	62205ANHMW (Intel® Centrino® Advanced-N 6205)						Log Number:	T80214		
	Model. 02203ANHMWV (IIItel® Celttillo® Advanced-N 0203)							unt Manager:		ebil	
	Steven Hacke						<u> </u>				
Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B								Class:	N/A		
?un # 1d. E	UT on Chann	nel #134 567	70MHz - n 4	∩MHz. Chair	1 A						
Wii ii, .	Г	101 11 10	VIII.	Jiii i=, C		0.10			I		
	Power Settings Target (dBm) Measured (dBm)						I Softwar	e Setting			
	-	Chain A		6.5		6.6		6.5			
	L	Ondin		<i>7.0</i>	1		<u>.</u> L	<u></u>	ļ		
	al Signal Fiel		45 200	145.047	I	* * · · · · · · · · · · · · · · · · · ·	T 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10			
requency	Level	Pol v/b		/ 15.247	Detector	Azimuth	Height	Comments			
MHz 5657.930	dBμV/m	v/h ⊔	Limit	Margin	Pk/QP/Avg	degrees	meters		/□ 10 U→.Dk		
5662.130	93.3 101.7	H	-	-	AVG PK	259 259	1.4 1.4	RB 1 MHz;V			
5662.130	91.8	V	-	-	AVG	259 145	1.4		RB 1 MHz;VB 3 MHz;Pk RB 1 MHz;VB 10 Hz;Pk		
5662.600	100.7	V	-	-	PK	145	1.0	RB 1 MHz;VB 3 MHz;Pk			
3002.000	100.1	V			FIX	140	1.0	ND I IVII IZ, V	D J IVII IZ,F K		
725 MHz R	Restricted Ba	nd Edge Sig	anal Radiat	ed Field Stre	enath - Mark	er Delta					
-			1	1	Н	V	1				
	Fundamental	emission lev	/el @ 3m in	1MHz RBW:	101.7	100.7	Peak Meas	urement (RB=	=VB=1MHz)		
F	Fundamental	emission lev	/el @ 3m in	1MHz RBW:	93.3	91.8		easurement (F		B=10Hz	
			Delta Mark	ker - 100kHz	45.7	45.7 dB <- this can only be used if band edge					
	Calculate	ted Band-Edg	ge Measurer	nent (Peak):	56.0	dBuV/m		nin 2MHz of ba			
	Calcula	ated Band-Ed	dge Measure	ement (Avg):	47.6	dBuV/m	Margin	Level	Limit	Detect	
		Delt	ta Marker - 1	MHz/1MHz:	43.3	dB	-21.8	46.5	68.3	Avg	
		Del	lta Marker - 1	1MHz/10Hz:	46.8	dB	-32.3	56.0	88.3	Pk	
		ted Band-Edg				dBuV/m	Using 100k	Hz delta value	9		
	Calcula	ited Band-Ed	dge Measure	ement (Avg):	46.5	dBuV/m	Using 1MHz	z delta value			
	Level	Pol	FCC	C 15E	Detector	Azimuth	Height	Comments			
Frequency	1 C V C I							0011111101110			
Frequency MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				



E	liott
	An ATAT company

	All Death Company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2, Band Edge Field Strength - n 40MHz, Chain B Run # 2a, EUT on Channel #38 5190MHz - n 40MHz, Chain B

Date of Test: 8/4/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

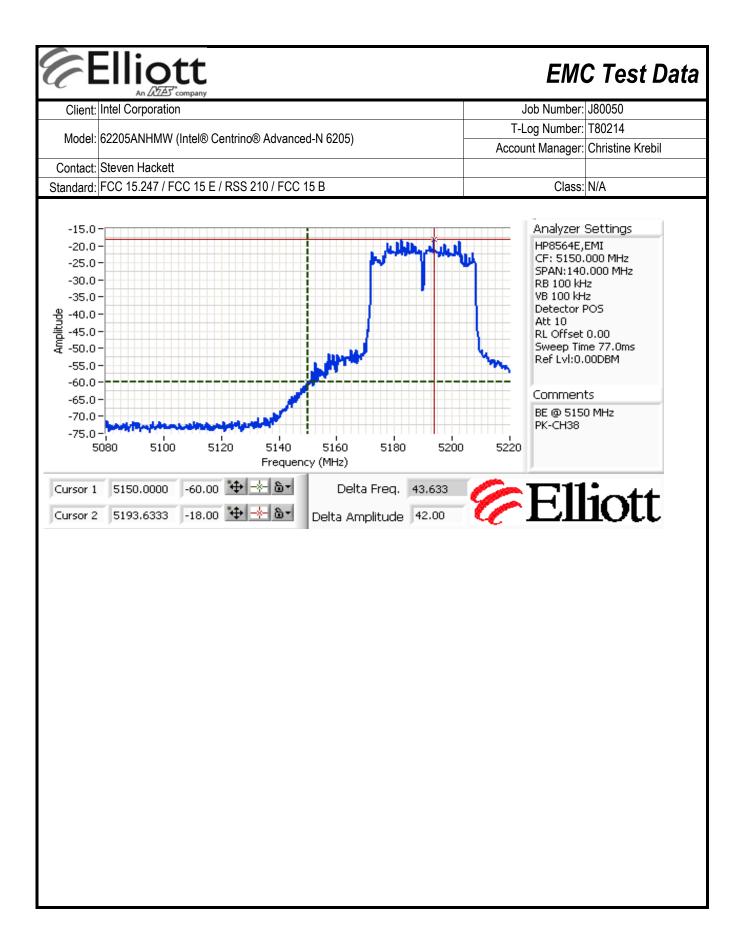
	Power Settings							
	Target (dBm)	arget (dBm) Measured (dBm) Software Setting						
Chain B	11.0	11.3	15.5					

Fundamental Signal 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	
5182.130	89.2	Н	-	-	AVG	152	1.0	RB 1 MHz;VB 10 Hz;Pk
5182.270	97.8	Н	-	-	PK	152	1.0	RB 1 MHz;VB 3 MHz;Pk
5193.000	90.2	V	-	-	AVG	160	1.2	RB 1 MHz;VB 10 Hz;Pk
5193.670	98.3	V	-	-	PK	160	1.2	RB 1 MHz;VB 3 MHz;Pk

	Н	V				
Fundamental emission level @ 3m in 1MHz RBW:	98.3	97.8	Peak Measurement (RB=VB=1MHz)			
Fundamental emission level @ 3m in 1MHz RBW:	90.2	89.2	Average Measurement (RB=1MHz, VB=10Hz)			
Delta Marker - 100kHz	42.0	dB	<- this can only be used if band edge signal is			
Calculated Band-Edge Measurement (Peak):	56.3	dBuV/m	highest within 2MHz of band edge.			
Calculated Band-Edge Measurement (Avg):	48.2	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	37.0	dB	-5.8	48.2	54	Avg
Delta Marker - 1MHz/10Hz:	41.0	dB	-17.7	56.3	74	Pk
Calculated Band-Edge Measurement (Peak):	61.3	dBuV/m	Using 100kh	Using 100kHz delta value		
Calculated Band-Edge Measurement (Avg):	49.2	dBuV/m	Using 100kh	łz delta value	Э	

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	48.2	-	54.0	-5.8	Avg	-	-	Using 100kHz delta value



Elliott An Was company

EMC Test Data

	All Death Company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2b, EUT on Channel #62 5310MHz - n 40MHz, Chain B

Date of Test: 8/4/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

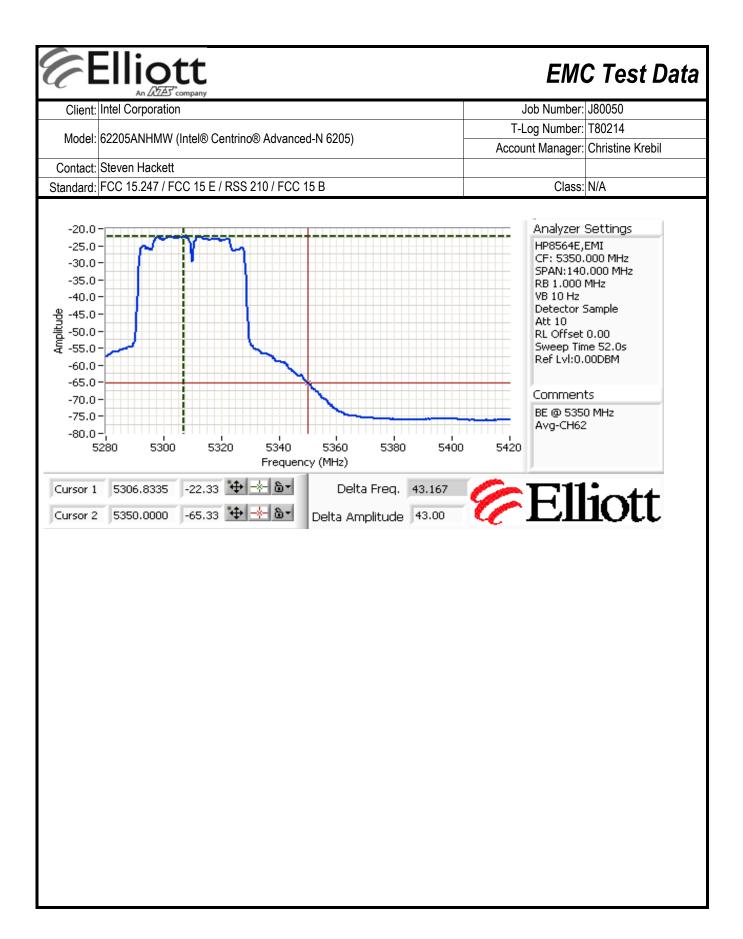
			Power Settings	
		Target (dBm)	Measured (dBm)	Software Setting
Cha	ain B	11.0	11.2	16.5

Fundamental Signal Field Strength

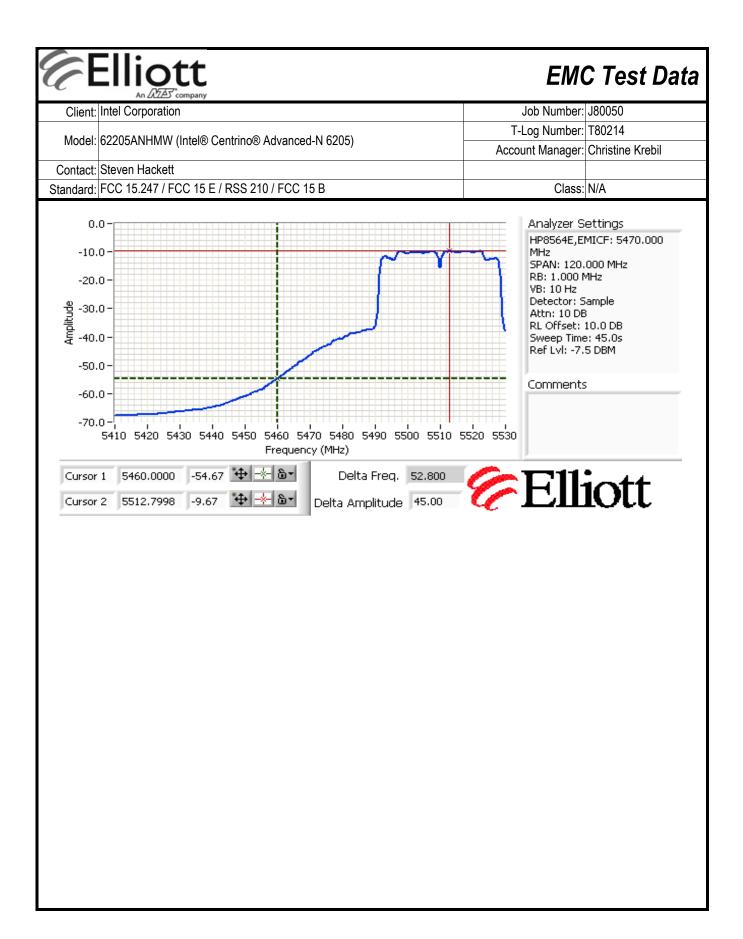
	e.g	• • 9						
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5311.600	88.0	V	-	-	AVG	160	1.0	RB 1 MHz;VB 10 Hz;Pk
5311.330	96.3	V	-	-	PK	160	1.0	RB 1 MHz;VB 3 MHz;Pk
5322.600	89.6	Н	-	-	AVG	118	1.1	RB 1 MHz;VB 10 Hz;Pk
5320.270	97.8	Н	-	-	PK	118	1.1	RB 1 MHz;VB 3 MHz;Pk

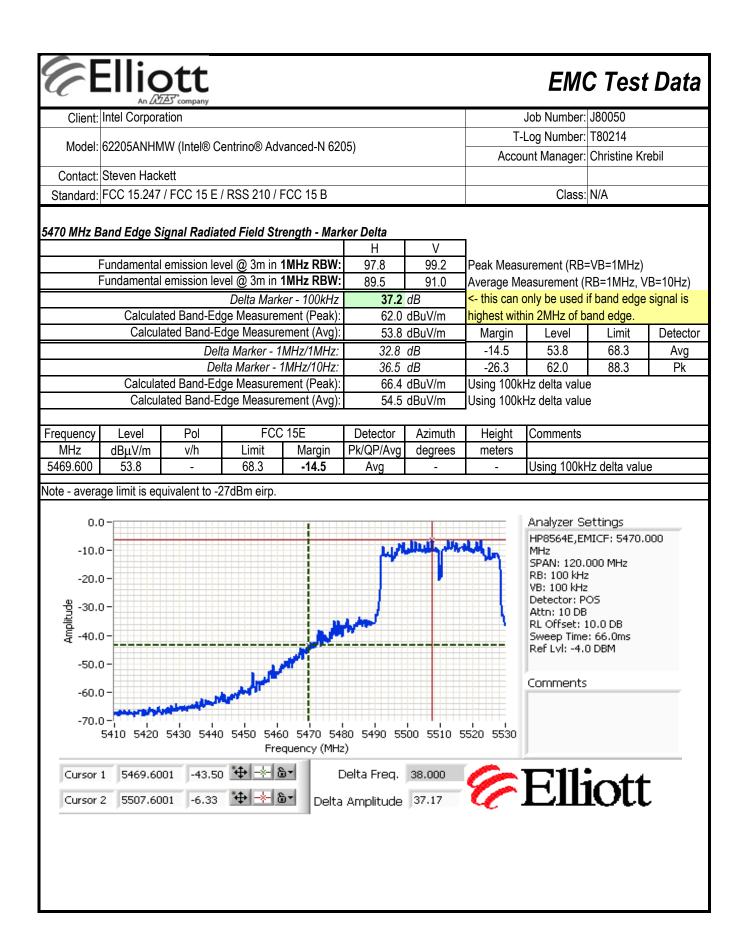
	0. 2 0.10		_			
	Н	V				
Fundamental emission level @ 3m in 1MHz RBW:	97.8	96.3	Peak Measurement (RB=VB=1MHz)			
Fundamental emission level @ 3m in 1MHz RBW:	89.6	88.0	Average Measurement (RB=1MHz, VB=10Hz)			
Delta Marker - 100kHz	43.0	dB	<- this can only be used if band edge signal is			
Calculated Band-Edge Measurement (Peak):	54.8	dBuV/m	highest within 2MHz of band edge.			
Calculated Band-Edge Measurement (Avg):	46.6	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	39.8	dB	-7.4	46.6	54	Avg
Delta Marker - 1MHz/10Hz:	43.0	dB	-19.2	54.8	74	Pk
Calculated Band-Edge Measurement (Peak):	58.0	dBuV/m	Using 100kHz delta value			
Calculated Band-Edge Measurement (Avg):	46.6	dBuV/m	Using 1MHz	delta value		
			_			

Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	46.6	-	54.0	-7.4	Avg	•	-	Using 1MHz delta value

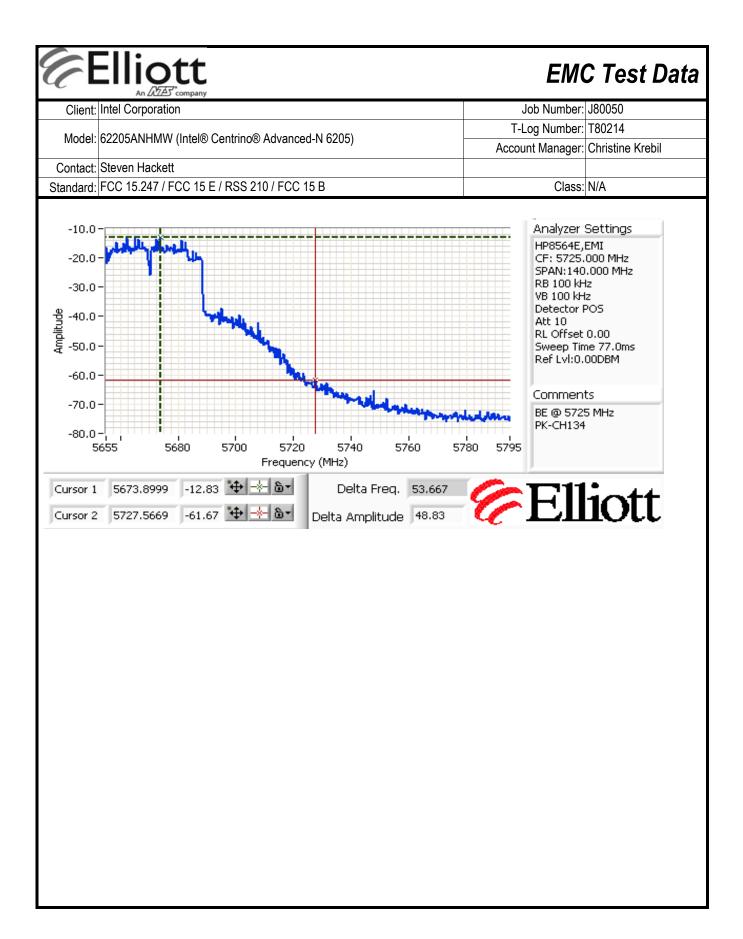


Model:		ation						Job Number:	J80050	
WOOD!	62205ANHN	1W (Intel® C	entrino® Adv	anced-N 620	75)			Log Number:		
			cittiiio Auv	7d110CU-11 020			Acco	unt Manager:	Christine Kre	ebil
	Steven Hack		. = 0 0 0 4 0 4							
Standard:	FCC 15.247	/ FCC 15 E /	/ RSS 210 / I	-CC 15 B				Class:	N/A	
Run # 2c. E	UT on Chan	nel #102 551	10MHz - n 40	MHz. Chain	В					
				, <u>.</u> , C.	Power	Settings				
				(dBm)	Measure	, ,		e Setting		
	Chain B 13.5				13	.4	2	2.0		
undamen	tal Signal Fie	eld Strenath								
requency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
FF00 000	89.5	V	-	-	AVG	136	1.0	RB 1 MHz;V	B 10 Hz;Pk	
008.ducd					D1/	400	4.0	DD 4 MH-M	B 3 MHz;Pk	
5506.270	97.8	V	-	-	PK	136	1.0			
5506.270 5517.870		V H H	- - -	- - -	AVG PK	136 103 103	1.2	RB 1 MHz;V RB 1 MHz;V	B 10 Hz;Pk	
5506.270 5517.870 5513.670	97.8 91.0 99.2	H H	-	-	AVG PK	103 103	1.2	RB 1 MHz;V	B 10 Hz;Pk	
5506.270 5517.870 5513.670	97.8 91.0	H H	-	-	AVG PK ength - Mark	103 103 er Delta	1.2	RB 1 MHz;V	B 10 Hz;Pk	
5506.270 5517.870 5513.670 6460 MHz F	97.8 91.0 99.2 Restricted Ba	H H and Edge Si	- gnal Radiate	- - ed Field Stre	AVG PK ength - Marke H	103 103 er Delta V	1.2	RB 1 MHz;V RB 1 MHz;V	B 10 Hz;Pk B 3 MHz;Pk	
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Ba	H H and Edge Si	- gnal Radiate vel @ 3m in s	- ed Field Stre 1MHz RBW:	AVG PK ength - Marke H 97.8	103 103 er Delta V 99.2	1.2 1.2 Peak Meas	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz)	B=10Hz)
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Ba	H H and Edge Si	- g nal Radiate vel @ 3m in vel @ 3m in vel	ed Field Stre 1MHz RBW: 1MHz RBW:	AVG PK ength - Mark H 97.8 89.5	103 103 er Delta V 99.2 91.0	1.2 1.2 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI	
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Bases Fundamental	H H and Edge Si emission lev emission lev	gnal Radiate vel @ 3m in vel @	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	AVG PK ength - Marke H 97.8 89.5 44.2	103 103 er Delta V 99.2 91.0	1.2 1.2 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used i	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge	
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Bases Fundamental Fundamental	H H and Edge Si	gnal Radiate vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel wark Delta Mark	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0	103 103 er Delta V 99.2 91.0 dB	1.2 1.2 Peak Meas Average Me this can highest with	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FB) only be used in 2MHz of be	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge and edge.	signal is
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Bases Fundamental Fundamental	H H and Edge Signary emission level emission	gnal Radiate vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel wark Delta Mark	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0	103 103 er Delta V 99.2 91.0 dB dBuV/m	1.2 1.2 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used i	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge	signal is Detec
5506.270 5517.870 5513.670 460 MHz F	97.8 91.0 99.2 Restricted Bases Fundamental Fundamental	H H and Edge Signary emission lever emission lever ted Band-Edge ated Band-Edge Band-Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Band-Edge Band-Band-Band-Band-Band-Band-Band-Band-	gnal Radiate vel @ 3m in vel @	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m	1.2 1.2 Peak Meas Average Meas - this can oblighest with	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FBonly be used in 2MHz of be Level	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge and edge. Limit	signal is Detec
5506.270 5517.870 5513.670	97.8 91.0 99.2 Restricted Barricted	H H and Edge Signary emission lever emission lever ted Band-Edge ated Band-Edge Band-Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Edge Band-Band-Edge Band-Band-Band-Band-Band-Band-Band-Band-	gnal Radiate yel @ 3m in yel @	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz:	AVG PK PR 97.8 89.5 44.2 55.0 46.8 40.3	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m	Peak Meas Average Me - this can highest with Margin -8.0 -19.0	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of be used in 2MHz	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
5506.270 5517.870 5513.670	97.8 91.0 99.2 Restricted Barricted	H H H and Edge Signary emission lever emission e	gnal Radiate yel @ 3m in yel @ 4m in yel @	ed Field Stre IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: ment (Peak):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8 40.3 45.0 58.9	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m dB	Peak Meas Average Me - this can e highest with Margin -8.0 -19.0 Using 100k	urement (RB=easurement (Fonly be used in 2MHz of balance 46.0 55.0	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
	97.8 91.0 99.2 Restricted Barricted	H H H and Edge Signary emission lever emission	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - 1 ge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR PR PR PR PR PR PR PR	103 103 2er Delta V 99.2 91.0 dB dBuV/m dBuV/m dB dBuV/m dB	Peak Meas Average Me - this can elighest with Margin -8.0 -19.0 Using 100k Using 1MH:	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of bit) Level 46.0 55.0 Hz delta value z delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
5506.270 5517.870 5513.670	97.8 91.0 99.2 Restricted Barricted	H H H and Edge Signary emission lever emission e	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - 1 ge Measurer dge Measurer	ed Field Stre IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: ment (Peak):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8 40.3 45.0 58.9	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m dB dB dBuV/m	Peak Meas Average Me - this can e highest with Margin -8.0 -19.0 Using 100k	urement (RB=easurement (RBonly be used in 2MHz of be 46.0 55.0 Hz delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg

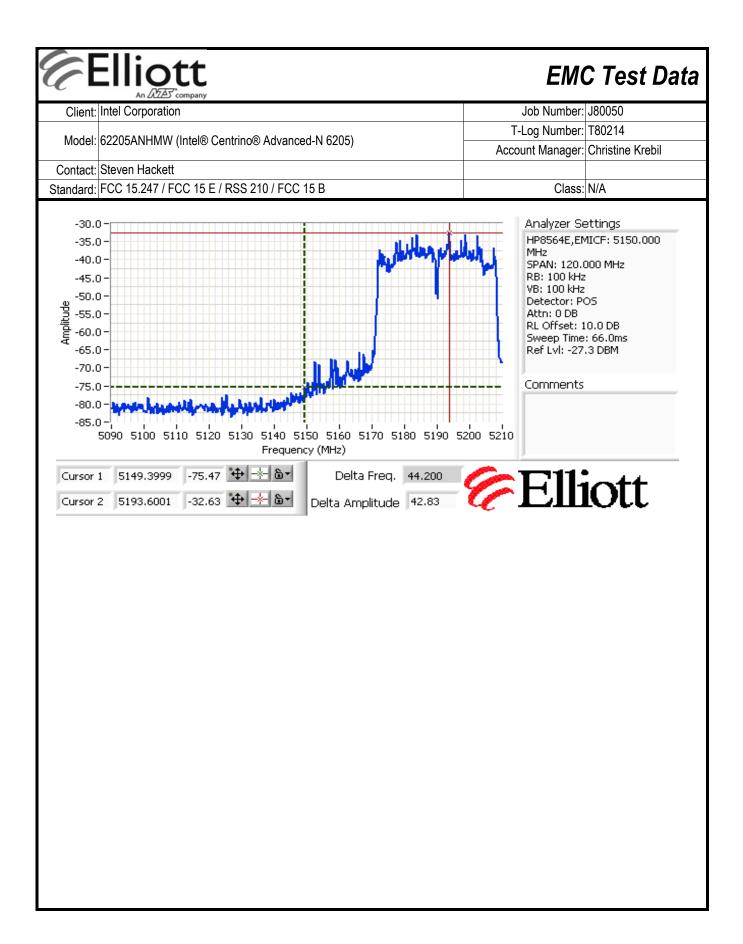




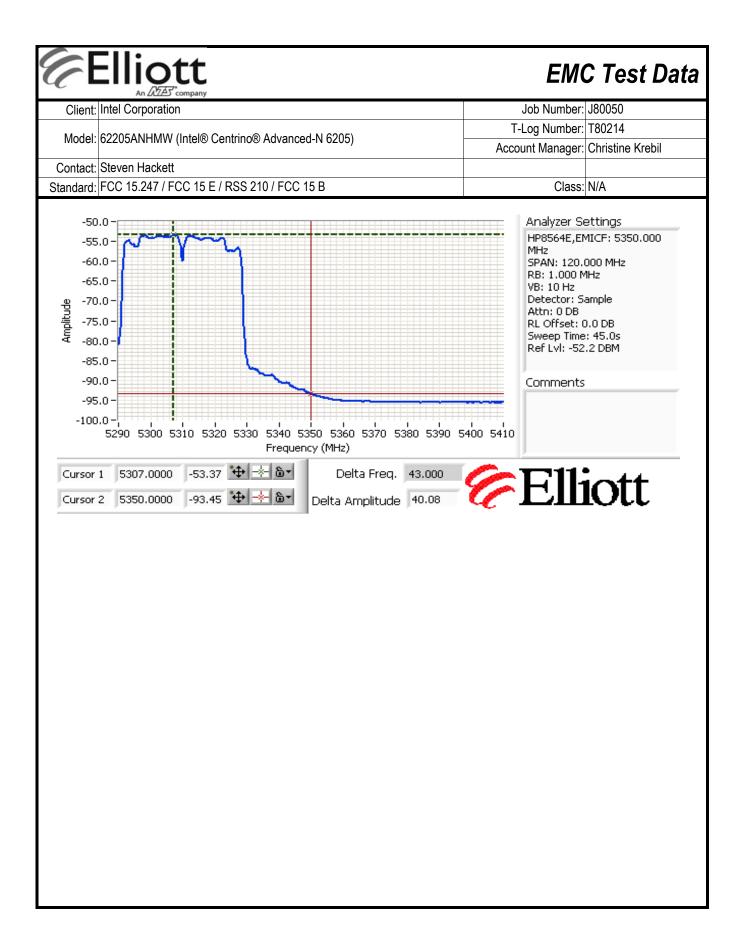
Model:								Job Number:	000000	
Model:	COOCEANUIN	MAZ / L. L. L. A. A.		1 1 1 00	05)		T-	Log Number:	T80214	
	62205ANHM	IVV (Intel® C	entrino® Ad\	/anced-N 620	U5)		Acco	unt Manager:	Christine Kre	ebil
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Run # 2d, E	UT on Chan	nel #134 56	70MHz - n 4	0MHz, Chair	ı B					
	ſ				Power S	Settings				
			Target	(dBm)	Measure	-	Softwar	e Setting		
		Chain B	16	S.5	16	5.6	2	6.5		
undamont	al Signal Fie	ald Stronath								
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5682.600	90.4	V	-	-	AVG	146	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5682.200	98.4	V	-	-	PK	146	1.0	RB 1 MHz;V	B 3 MHz;Pk	
5661.870	91.9	Н	-	-	AVG	108	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5662.200	100.9	Н	-	-	PK	108	1.0	RB 1 MHz;V	B 3 MHz;Pk	
:725 MU- F	Destricted De	and Edag Ci	anal Dadiat	ad Field Ctus	nauth Maule	ou Dolfo				
OT ZO IVITIZ N	estricted ba	iliu Euge Si	gilai Kaulau	eu rieiu sire	ength - Marke ⊟	V V	1			
	Fundamental	emission lev	vel @ 3m in	1MHz RBW:		98.4	Peak Meas	urement (RB=	:VR=1MHz)	
	Fundamental					90.4	-1	easurement (F	,	3=10Hz)
				er - 100kHz	48.8			only be used i		,
	Calculat	ted Band-Ed				dBuV/m		nin 2MHz of b	-	J
		ated Band-E	•	, ,		dBuV/m	Margin	Level	Limit	Detecto
			ta Marker - 1	, ,,	43.7		-25.2	43.1	68.3	Avg
			Ita Marker -		47.7		-36.2	52.1	88.3	Pk
	Calculat	ted Band-Ed	ge Measurer	ment (Peak):	57.2	dBuV/m	Using 100k	Hz delta value	9	
	Calcula	ated Band-E	dge Measure	ement (Avg):	44.2	dBuV/m	Using 100k	Hz delta value	Э	
	Level	Pol	FCC	: 15E	Detector	Azimuth	Height	Comments		
reguency					Pk/QP/Avg	degrees	meters	30		
Frequency MHz	dBμV/m	v/h	Limit	Margin	PK/QP/AVu	uegrees	11166619			



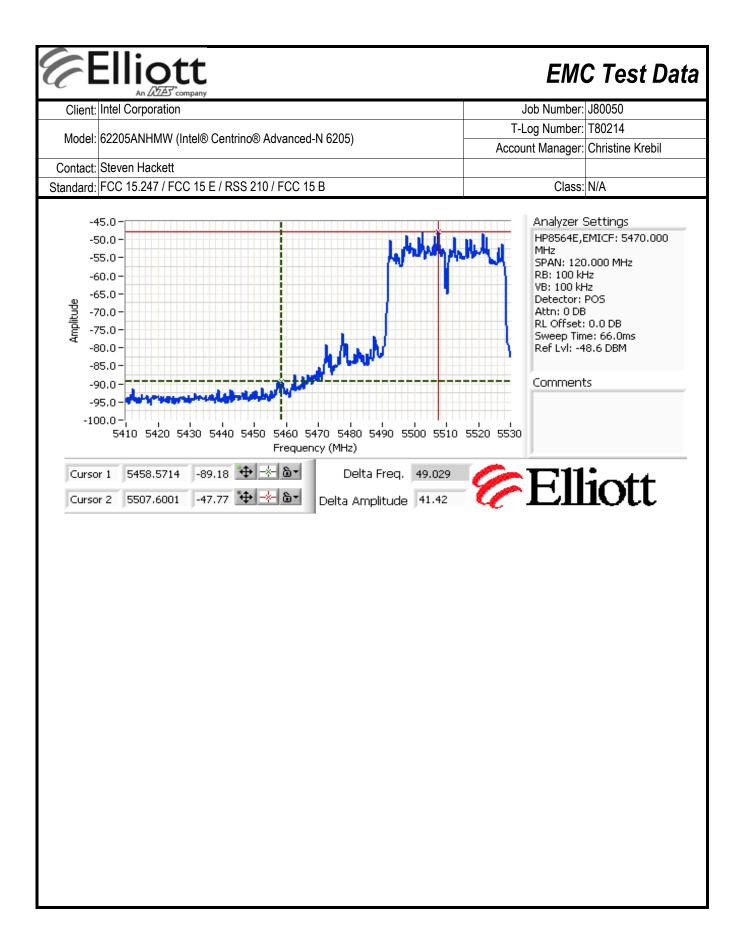
E E	Ellic	ott						EMO	C Test	Data
Client:	Intel Corpora	函 company ation						Job Number:		
							T-I	Log Number:	T80214	
Model:	62205ANHM	/IW (Intel® C	entrino® Adv	ranced-N 620)5)			unt Manager:		ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	FCC 15 B				Class:	N/A	
Run # 3a, E	Ind Edge Fie UT on Chan Date of Test: est Engineer:	nel #38 5190 8/5/2010	0MHz - n 40I		Te Cor	nfig Change:	FT Chambe none	r #3		
		.	(15.)		Power 9	•		ĺ	- 6	3
	Target (dBm)						ed (dBm)	T = (.)	Software	e Setting
Chain	A 10.0	B 10.0	С	Total 13.0	A 10.0	B 10.0	С	Total 13.0	18.5	/ 18.0
Frequency MHz 5187.270	tal Signal Fie Level dBμV/m 90.1	Pol v/h V		/ 15.247 Margin -	Detector Pk/QP/Avg AVG	Azimuth degrees 153	Height meters	Comments RB 1 MHz;V		
5184.670	100.4	V	-	-	PK	153	1.2	RB 1 MHz;VB 3 MHz;Pk		
5193.600 5195.330	88.6 98.6	H	-	-	AVG PK	129 129	1.0 1.0	RB 1 MHz;V		
5150 MHz B	Band Edge S	ignal Radiat			ker Delta H	V]	RB 1 MHz;V		
	Fundamental				98.6	100.4	4	urement (RB=	,	- 40H_\
	Fundamental	emission iev		1MHZ RBW: cer - 100kHz	88.6 42.8	90.1		easurement (Fooling to the contract of the con		,
	Calcula	ited Band-Ed				dBuV/m		in 2MHz of b	•	Signans
		lated Band-Ed				dBuV/m	Margin	Level	Limit	Detector
					36.5		-6.7	47.3	54	Avg
Delta Marker - 1MHz/1MH							-16.4	57.6	74	Pk
	Delta Marker - 1MHz/10H				39.1 dB 63.9 dBuV/m		Using 100kHz delta value			
	Calcula	Calculated Band-Edge Measurement (Pea Calculated Band-Edge Measurement (Av				63.9 dBuV/m Using 100kHz delta v 51.0 dBuV/m Using 100kHz delta v		nz delta value	9	
Frequency	Calcul	lated Band-E	dge Measure	ement (Avg):	51.0	dBuV/m	Using 100kl	∃z delta value		
Frequency MHz			dge Measure							

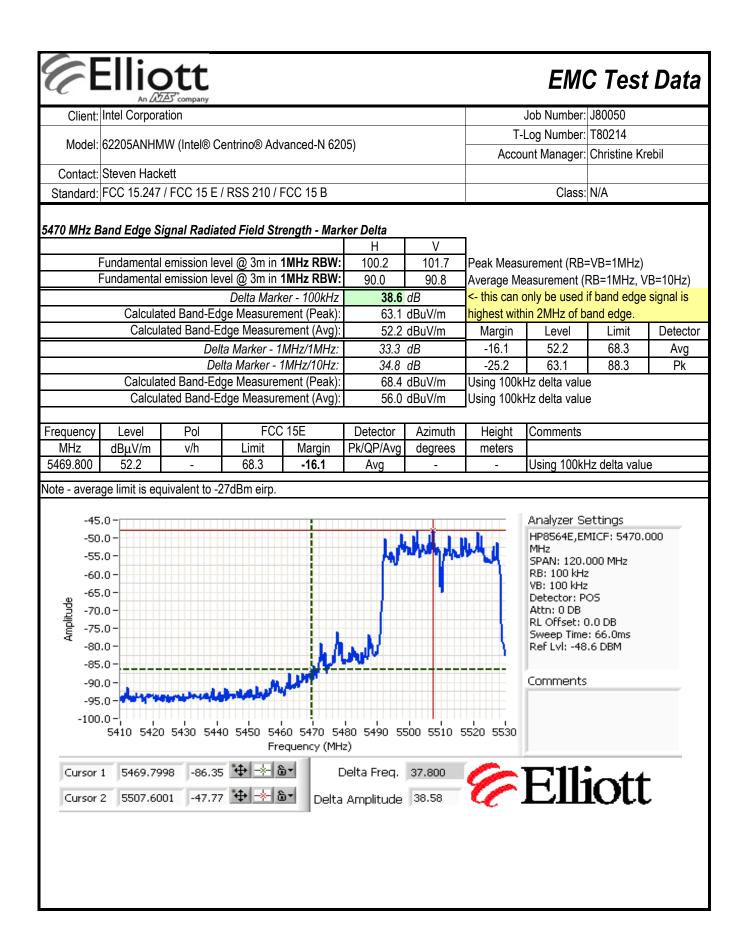


Model Contact	62205ANHN	ation						Job Number:		
		1W (Intel® C	entrino® Adv	anced-N 620	05)			Log Number:		
Contact					,		Acco	unt Manager:	Christine Kr	ebil
04	Steven Hack FCC 15.247		/ DCC 240 / I	TOO 15 D			Class: N/A			
Standard	FCC 15.247	/ FCC 13 E	/ RSS 210 / 1	FCC 13 B				Class.	N/A	
Run # 3b, E	EUT on Chan	nel #62 531	0MHz - n 40	MHz, Chain	A+B					
					Power S	Settings	3			
		Target	(dBm)			-	ed (dBm)		Software	e Setting
Chain	Α	В	С	Total	Α	В	С	Total		
	10.0 10.0 13.0				10.1	10.1		13.1	19.5	/ 19.5
Zundaman	tal Signal Eig	old Stronath								
Frequency	tal Signal Fie Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	Commonto		
5298.130	88.7	V	-	-	AVG	153	1.2	RB 1 MHz;V	B 10 Hz:Pk	
5305.470	99.6	V	-	-	PK	153	1.2	RB 1 MHz;VB 3 MHz;Pk		
								RB 1 MHz;VB 10 Hz;Pk		
5312.400	87.0	Н	-	-	AVG	111	1.2	IRB 1 MHz:V	B 10 Hz:Pk	
5312.400 5308.870	87.0 96.7	H H	-	-	AVG PK	111 111	1.2 1.2	RB 1 MHz;V		
5308.870	96.7	Н	-	-	PK					
5308.870		Н	- - ted Field Str	- - rength - Mari	PK ker Delta	111				
5308.870 5 350 MHz I	96.7 Band Edge S	H ignal Radia			PK ker Delta H	111 V	1.2	RB 1 MHz;V	B 3 MHz;Pk	
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental	H ignal Radia emission lev	vel @ 3m in	1MHz RBW:	PK ker Delta H 87.0	V 99.6	1.2 Peak Meas	RB 1 MHz;V	B 3 MHz;Pk -VB=1MHz)	D=10U=\
5308.870 5 350 MHz I	96.7 Band Edge S	H ignal Radia emission lev	vel @ 3m in vel @ 3m in	1MHz RBW: 1MHz RBW:	PK ker Delta H 87.0 96.7	V 99.6 88.7	1.2 Peak Meas Average Mo	RB 1 MHz;V urement (RB= easurement (F	B 3 MHz;Pk -VB=1MHz) RB=1MHz, V	
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental Fundamental	H ignal Radia emission levenission levenis lev	vel @ 3m in vel @ 3m in Delta Mark	1MHz RBW: 1MHz RBW: cer - 100kHz	PK ker Delta H 87.0 96.7 45.7	111 V 99.6 88.7	1.2 Peak Meas Average Mo	RB 1 MHz;V urement (RB= easurement (Foolly be used in	B 3 MHz;Pk VB=1MHz) RB=1MHz, V f band edge	
5308.870 3 50 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radiate emission levented Band-Ed	vel @ 3m in vel @ 3m in Delta Mark ge Measurer	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9	V 99.6 88.7 dB	Peak Meas Average Meas - this can highest with	RB 1 MHz;V urement (RB= easurement (F only be used in 2MHz of ba	B 3 MHz;Pk VB=1MHz) RB=1MHz, V f band edge and edge.	signal is
5308.870 3 50 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radia emission levemission levemission levemted Band-Edand	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0	V 99.6 88.7 dB dBuV/m dBuV/m	1.2 Peak Meas Average Mo this can highest with Margin	urement (RB= easurement (Fonly be used in 2MHz of be	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit	signal is Detecto
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radia emission leventssion leventssion leventsed Band-Edated Band-Edated Band-E	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5	V 99.6 88.7 dB dBuV/m dBuV/m	Peak Meas Average Mo <- this can highest with Margin -7.5	urement (RB=easurement (Fonly be used in 2MHz of balance) Level 46.5	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54	signal is Detector Avg
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula Calcul	H ignal Radiate emission lever emission em	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1	V 99.6 88.7 dB dBuV/m dBuV/m dB	Peak Meas Average Mo <- this can highest with Margin -7.5 -20.1	urement (RB=easurement (Fonly be used in 2MHz of but the Level 46.5 53.9	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detecto
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H ignal Radiat emission levented Band-Edeted	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - ge Measurer	1MHz RBW: 1MHz RBW: 1er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1	V 99.6 88.7 dB dBuV/m dBuV/m dB dB dB dB	Peak Meas Average Meas Average Meas Highest with Margin -7.5 -20.1 Using 100k	urement (RB=easurement (Fonly be used in 2MHz of balance 46.5 53.9 Hz delta value	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detector Avg
5308.870 5350 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H ignal Radiat emission levented Band-Edeted	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	1MHz RBW: 1MHz RBW: 1er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1	V 99.6 88.7 dB dBuV/m dBuV/m dB	Peak Meas Average Meas Average Meas Highest with Margin -7.5 -20.1 Using 100k	urement (RB=easurement (Fonly be used in 2MHz of but the Level 46.5 53.9	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detector Avg
5308.870	96.7 Band Edge S Fundamental Fundamental Calcula Calcul Calcula Calcula	emission levemission levemissi	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: 1er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1	V 99.6 88.7 dB dBuV/m dBuV/m dB dBuV/m dBuV/m	Peak Meas Average Mo this can highest with Margin -7.5 -20.1 Using 100k Using 100k	urement (RB=easurement (Fonly be used in 2MHz of be 46.5 53.9 Hz delta value	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detector Avg
5308.870 5 350 MHz I	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H ignal Radiat emission levented Band-Edeted	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1 56.6	V 99.6 88.7 dB dBuV/m dBuV/m dB dB dB dB	Peak Meas Average Meas Average Meas Highest with Margin -7.5 -20.1 Using 100k	urement (RB=easurement (Fonly be used in 2MHz of balance 46.5 53.9 Hz delta value	B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detector Avg

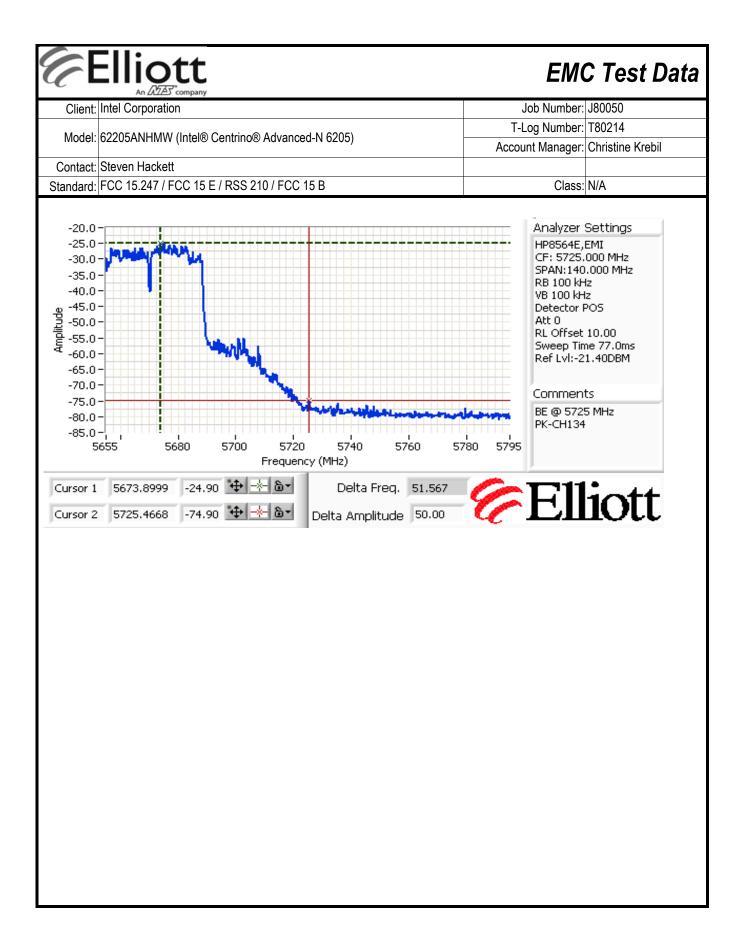


Model	'	ation						Job Number:	J80050		
								Log Number:			
	: 62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620	05)			unt Manager:		ebil	
Contact	: Steven Hack	kett									
Standard	: FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A		
Run # 3c, E	EUT on Chan	nel #102 55′	10MHz - n 40	MHz, Chain	ı A+B						
					Power	Settings					
			(dBm)			Measur	ed (dBm)		Softwar	e Setting	
Chain	Α					Total					
	12.5 12.5 15.5 12.5					12.4		15.5	24.0	/ 24.0	
iundamon	ntal Signal Fie	old Stronath									
requency		Pol		/ 15.247	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	Commonto			
5505.130	90.8	V	-	-	AVG	142	1.1	RB 1 MHz;V	/B 10 Hz:Pk		
5505.000	101.7	V	-	-	PK	142	1.1	· · · · · · · · · · · · · · · · · · ·	RB 1 MHz;VB 3 MHz;Pk		
JJUJ.UUU											
			-	-	AVG	261	1.0	RB 1 MHz:\/	/B 10 Hz:Pk		
5497.930 5521.130	90.0 100.2 Restricted Ba	H H	- - gnal Radiate	- - ed Field Stre			1.0	· · · · · · · · · · · · · · · · · · ·	/B 10 Hz;Pk /B 3 MHz;Pk		
5497.930 5521.130	90.0	H H and Edge Si		- ed Field Stre	PK	261	1.0	· · · · · · · · · · · · · · · · · · ·	/B 3 MHz;Pk		
5497.930 5521.130	90.0 100.2 Restricted Ba	H H and Edge Si	vel @ 3m in	- ed Field Stre 1MHz RBW:	PK ength - Marke	261 er Delta V	1.0 Peak Meas	RB 1 MHz;\	/B 3 MHz;Pk =VB=1MHz)		
5497.930 5521.130	90.0 100.2 Restricted Ba	H H and Edge Si	vel @ 3m in vel @ 3m in	- ed Field Stre 1MHz RBW:	PK ength - Marko H 100.2	261 er Delta V 101.7 90.8	1.0 Peak Meas Average Me	RB 1 MHz;\vurement (RB=easurement (Ionly be used	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	'B=10Hz)	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental	H H and Edge Signary I emission level ted Band-Edge	vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	PK ength - Marke H 100.2 90.0 41.4	261 er Delta V 101.7 90.8	1.0 Peak Meas Average Me	RB 1 MHz;\vullet	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	'B=10Hz)	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental	H H and Edge Si	vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	PK ength - Marke H 100.2 90.0 41.4 60.3	261 er Delta V 101.7 90.8 dB	1.0 Peak Meas Average Me	RB 1 MHz;\vurement (RB=easurement (Ionly be used	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	B=10Hz) signal is	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental	H H and Edge Signary I emission level ted Band-Edge Band	vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg):	PK ength - Marke H 100.2 90.0 41.4 60.3	261 V 101.7 90.8 dB dBuV/m dBuV/m	Peak Meas Average Me - this can highest with	RB 1 MHz;\v urement (RB= easurement (I only be used nin 2MHz of b	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	B=10Hz) signal is	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcul	H H H and Edge Signary I emission level ted Band-Edge ated Band-Edge Delta Delta Band-Edge Delta Band-Edge	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1	261 V 101.7 90.8 dB dBuV/m dBuV/m dB	1.0 Peak Meas Average Me - this can object with Margin	urement (RB- easurement (I only be used hin 2MHz of b	=VB=1MHz) RB=1MHz, V if band edge and edge. Limit	B=10Hz) signal is Detector	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula	H H H and Edge Signary I emission level ted Band-Edge Ba	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	261 V 101.7 90.8 dB dBuV/m dBuV/m dB dB dB dB dB dB	Peak Meas Average Me - this can of highest with Margin -4.6 -13.7 Using 100k	urement (RBseasurement (I conly be used nin 2MHz of bused 49.4 60.3 Hz delta value	=VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	B=10Hz) signal is Detector	
5497.930 5521.130	90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula	H H H and Edge Signary I emission level ted Band-Edge ated Band-Edge Delta Delta Band-Edge Delta Band-Edge	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	261 V 101.7 90.8 dB dBuV/m dBuV/m dB dB	Peak Meas Average Me - this can of highest with Margin -4.6 -13.7 Using 100k	urement (RBseasurement (I polly be used nin 2MHz of bused 49.4 60.3	=VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	B=10Hz) signal is Detector	
5497.930 5521.130 460 MHz I	90.0 100.2 Restricted Ba Fundamental Fundamental Calcula Calcul Calcula	H H H and Edge Signary I emission level emission em	vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 1MHz (Peak): 1MHz/1MHz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz:	PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4 51.7	261 V 101.7 90.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dBuV/m	Peak Meas Average Me - this can object with Margin -4.6 -13.7 Using 100k Using 100k	urement (RBseasurement (IRBseasurement (IRBsea	=VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	B=10Hz) signal is Detector	
5497.930 5521.130	90.0 100.2 Restricted Ba Fundamental Fundamental Calcula Calcul Calcula	H H H and Edge Signary I emission level ted Band-Edge Ba	vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	261 V 101.7 90.8 dB dBuV/m dBuV/m dB dB dB dB dB dB	Peak Meas Average Me - this can of highest with Margin -4.6 -13.7 Using 100k	urement (RBseasurement (I conly be used nin 2MHz of bused 49.4 60.3 Hz delta value	=VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	B=10Hz) signal is Detector	





T-Log Number: T80214 Account Manager: Christine Krebil	Client	: Intel Corpora	ation						Job Number:	J80050		
Account Manager: Christine Krebil Contact: Steven Hackett Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class: N/A												
Contact: Steven Hackett Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class: N/A	Model	: 62205ANHM	1W (Intel® C	entrino® Adv	anced-N 620	05)					ebil	
Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Power Settings Power Settings Measured (dBm) Software Setting Software Setting	Contact	· Steven Hack	cett					71000	ant managon.	Cimouno ru		
Target (dBm)				/ RSS 210 / I	FCC 15 B				Class:	N/A		
Power Settings Measured (dBm) Software Setting	Otaridard	. 1 00 10.211	71 00 10 21	1100 21071	00 10 15				0,000.	14/7 (
Power Settings Measured (dBm) Software Setting	Run # 3d. I	EUT on Chan	nel #134 56	70MHz - n 4	0MHz. Chair	n A+B						
Chain	,				····-, ·····		Settings					
13.5			Target	(dBm)			Measur	ed (dBm)		Software Se	etting	
13.5	Chair			С				С			_	
Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments		13.5	13.5		16.5	13.5	13.8		16.7	26	o.5	
Tequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments		tal Clausel F!-	.lal C4u									
MHz		1		15 209	/ 15 247	Detector	Azimuth	Height	Comments			
See See					1				Comments			
100.3				-	-	_			RB 1 MHz:\	/B 10 Hz:Pk		
H V Fundamental emission level @ 3m in 1MHz RBW: 101.3 H Solution Hold				-	-							
Fundamental emission level @ 3m in 1MHz RBW: 101.3 100.3 Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Average Measurement (RB=1MHz, VB=10Hz)				-	-							
Fundamental emission level @ 3m in 1MHz RBW: 101.3 100.3 Peak Measurement (RB=VB=1MHz)				-	-							
Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Delta Marker - 100kHz Calculated Band-Edge Measurement (Peak): 51.3 dBuV/m highest within 2MHz of band edge. Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Detector Delta Marker - 1MHz/10Hz: 44.8 dB -26.0 42.3 68.3 Avg Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Pk Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m V/h Limit Margin Pk/QP/Avg degrees meters F725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value				<u> </u>				7				
Calculated Band-Edge Measurement (Peak): Calculated Band-Edge Measurement (Avg): Calculated Band-Edge Measurement (Avg): Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Avg Delta Marker - 1MHz/10Hz: 49.2 dB Calculated Band-Edge Measurement (Peak): Calculated Band-Edge Measurement (Peak): Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Using 100kHz delta value Using 100kHz delta value Trequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m V/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value		Fundamental	emission lev	/el @ 3m in	1MHz RBW:			Peak Meas	urement (RB:	=VB=1MHz)		
Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Detection Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Avg Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Pk Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value						101.3	100.3		•	,	/B=10Hz)	
Delta Marker - 1MHz/1MHz:44.8 dB-26.042.368.3AvgDelta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3PkCalculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5725.46642.3-68.3-26.0AvgUsing 100kHz delta value				/el @ 3m in	1MHz RBW:	101.3 92.3	100.3 90.7	Average Mo	easurement (l	RB=1MHz, V	,	
Delta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3PkCalculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5725.46642.3-68.3-26.0AvgUsing 100kHz delta value		Fundamental Calculat	emission lev ted Band-Ed	vel @ 3m in Delta Mark ge Measurer	1MHz RBW: xer - 100kHz ment (Peak):	101.3 92.3 50.0	100.3 90.7	Average Mo	easurement (lonly be used	RB=1MHz, V <mark>if band edge</mark>	,	
Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value		Fundamental Calculat	emission lev ted Band-Ed	vel @ 3m in Delta Mark ge Measurer	1MHz RBW: xer - 100kHz ment (Peak):	101.3 92.3 50.0 51.3	100.3 90.7 dB dBuV/m	Average Moscan control	easurement (lonly be used only be used on 2MHz of bearing)	RB=1MHz, V if band edge and edge.	signal is	
Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value		Fundamental Calculat	emission lev ted Band-Ed ated Band-E	vel @ 3m in Delta Mark ge Measurer dge Measure	1MHz RBW: xer - 100kHz ment (Peak): ement (Avg):	101.3 92.3 50.0 51.3 42.3	100.3 90.7 dB dBuV/m dBuV/m	Average Moscon of this can of	easurement (lonly be used hin 2MHz of based	RB=1MHz, V if band edge and edge. Limit	signal is	
Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value		Fundamental Calculat Calculat	emission levated Band-Eduted B	vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker	ter - 100kHz ment (Peak): ment (Avg): mHz/1MHz: 1MHz/10Hz:	101.3 92.3 50.0 51.3 42.3 44.8 49.2	100.3 90.7 dB dBuV/m dBuV/m dB	Average Model this can highest with Margin -26.0 -37.0	easurement (I only be used in 2MHz of b Level 42.3 51.3	RB=1MHz, V if band edge and edge. Limit 68.3 88.3	Detect Avg	
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg Using 100kHz delta value		Calculat Calculat Calculat	ted Band-Ed ated Band-E Deli Del ted Band-Ed	vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 lta Marker	ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5	100.3 90.7 dB dBuV/m dBuV/m dB dB dBuV/m	Average Model this can highest with Margin26.037.0 Using 100k	easurement (I conly be used nin 2MHz of b Level 42.3 51.3 Hz delta valu	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg	
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg Using 100kHz delta value		Calculat Calculat Calculat	ted Band-Ed ated Band-E Deli Del ted Band-Ed	vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 lta Marker	ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5	100.3 90.7 dB dBuV/m dBuV/m dB dB dBuV/m	Average Model this can highest with Margin26.037.0 Using 100k	easurement (I conly be used nin 2MHz of b Level 42.3 51.3 Hz delta valu	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg	
5725.466 42.3 - 68.3 -26.0 Avg Using 100kHz delta value		Calculat Calculat Calculat Calculat	ted Band-Ed ated Band-E Deli Del ted Band-Ed ated Band-Ed	vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 lta Marker - ge Measurer dge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5 43.1	100.3 90.7 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dBuV/m	Average Model - this can highest with Margin -26.0 -37.0 Using 100k Using 100k	easurement (I conly be used in 2MHz of b Level 42.3 51.3 Hz delta value	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg	
	requency	Calculat Calculat Calculat Calculat Calculat Calculat	ted Band-Ed ated Band-E Delt Delted Band-Ed ated Band-Ed ated Band-E	vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker ge Measurer dge Measurer dge Measurer	ter - 100kHz ment (Peak): ment (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5 43.1	100.3 90.7 dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m dBuV/m	Average Model this can highest with Margin 26.0 37.0 Using 100k Using 100k Height	easurement (I conly be used in 2MHz of b Level 42.3 51.3 Hz delta value	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg	
iote - average iimit is equivalent to -27ασm emp.	Frequency MHz	Calculat	ted Band-Ed ated Band-E Deli Deleted Band-Ed ated Band-Ed ated Band-E	vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer dge Measurer Limit	ter - 100kHz ment (Peak): ment (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ment (Avg): C 15E Margin	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5 43.1 Detector Pk/QP/Avg	100.3 90.7 dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m dBuV/m	Average Model this can highest with Margin 26.0 37.0 Using 100k Using 100k Height	easurement (I	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg Pk	
	requency MHz 5725.466	Calculat Calculat Calculat Calculat Calculat Calculat Calculat Above Level dB\(\mu \text{V/m} \) 42.3	ted Band-Ed ated Band-E Delted Band-Ed ted Band-Ed ated Band-Ed ated Band-E	vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - 2 ge Measurer dge Measurer dge Measurer Limit 68.3	ter - 100kHz ment (Peak): ment (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ment (Avg): C 15E Margin	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5 43.1 Detector Pk/QP/Avg	100.3 90.7 dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m dBuV/m	Average Model this can highest with Margin 26.0 37.0 Using 100k Using 100k Height	easurement (I	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detec Avg Pk	
	Frequency MHz 5725.466	Calculat Calculat Calculat Calculat Calculat Calculat Calculat Above Level dB\(\mu \text{V/m} \) 42.3	ted Band-Ed ated Band-E Delted Band-Ed ted Band-Ed ated Band-Ed ated Band-E	vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - 2 ge Measurer dge Measurer dge Measurer Limit 68.3	ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	101.3 92.3 50.0 51.3 42.3 44.8 49.2 56.5 43.1 Detector Pk/QP/Avg	100.3 90.7 dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m dBuV/m	Average Model this can highest with Margin 26.0 37.0 Using 100k Using 100k Height	easurement (I	RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	Detect Avg Pk	



Ott

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEW CEITHING Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4, Band Edge Field Strength - n 20MHz, Chain A Run # 4a, EUT on Channel #36 5180MHz - n 20MHz, Chain A

Date of Test: 8/5/2010 Test Location: Chamber #3
Test Engineer: David W. Bare Config Change: none

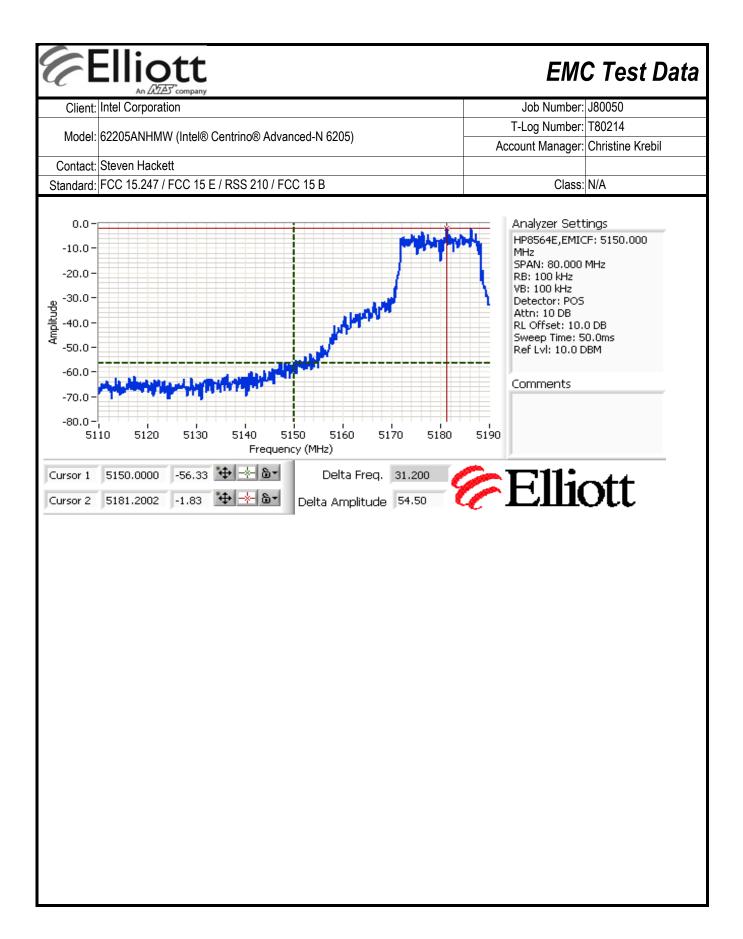
		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	15.5	15.5	19.5

Fundamental Signal 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	
5181.390	93.3	Η	-	-	AVG	256	1.4	RB 1 MHz;VB 10 Hz;Pk
5178.770	101.5	Η	-	-	PK	256	1.4	RB 1 MHz;VB 3 MHz;Pk
5181.300	92.6	V	-	-	AVG	106	1.4	RB 1 MHz;VB 10 Hz;Pk
5178.720	101.0	V	-	-	PK	106	1.4	RB 1 MHz;VB 3 MHz;Pk

OTOO MITTE Da	na Lage oig	jiiai itaala	ca i icia oa ciigai main	Ci Deita		_			
				Η	V				
Fi	undamental e	emission lev	vel @ 3m in 1MHz RBW:	101.5	101.0	Peak Meas	urement (RB=	·VB=1MHz)	
Fi	undamental e	emission lev	vel @ 3m in 1MHz RBW:	93.3	92.6	2.6 Average Measurement (RB=1MHz, VB=1			
	Delta Marker - 100kHz				dB	<- this can	only be used i	f band edge	signal is
	Calculated Band-Edge Measurement (Peak):				dBuV/m	highest with	nin 2MHz of ba	and edge.	
	Calculat	ted Band-E	dge Measurement (Avg):	38.8 dBuV/m		Margin	Level	Limit	Detector
		Del	ta Marker - 1MHz/1MHz:	47.3 dB		-15.2	38.8	54	Avg
		De	lta Marker - 1MHz/10Hz:	48.5 dB		-27.0	47.0	74	Pk
	Calculate	ed Band-Ed	ge Measurement (Peak):	54.2 dBuV/m		Using 100kHz delta value			
	Calculated Band-Edge Measurement (Avg):				44.8 dBuV/m		Hz delta value)	
Frequency	Level	Pol	FCC 15 209	Detector	Azimuth	Height	Comments		

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	38.8	-	54.0	-15.2	Avg	ı	-	Using 100kHz delta value



6	Ellic	う tt						EMO	C Test	Data
Client:	Intel Corpora	ation					,	Job Number:	J80050	
				1.11.00	^		T-I	Log Number:	T80214	
Model:	62205ANHIV	√IW (Intel® Ce	entrino® Adv	anced-N 620)5)			unt Manager:		ebil
Contact:	Steven Hack	ĸett								
Standard:	FCC 15.247	/ FCC 15 E /	/ RSS 210 / F	Class: N/A						
	<u></u>									
Run # 4b, E	UT on Chan	nel #64 5320	JMHz - n 201	MHz, Chain	Α					
	Date of Test:						: Chamber #3	3		
Te	st Engineer:	David W. Ba	ıre			nfig Change:	none		-	
			1		Power S	•				
	ļ			t (dBm)	Measure	\ /		e Setting		
		Chain A	16	6.0	15.	.9	21	1.5	j	
Fundamen	tal Signal Fie									
Frequency		Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	_	meters			
5318.540	94.7	Н	100.0	-5.3	AVG	257	1.4	RB 1 MHz;V	•	
5318.830	103.2	Н	70.0	33.2	PK	257	1.4		/B 3 MHz;Pk	
5321.330	95.2	V	100.0	-4.8	AVG	154	1.2	RB 1 MHz;V	•	
5318.790	103.5	V	70.0	33.5	PK	154	1.2	RB 1 MHz;V	/B 3 MHz;Pk	
5350 MHz E	3and Edge S	Signal Radiat	ted Field Str	ength - Mar	ker Delta		_			
					Н	V]			
		l emission lev				103.5		urement (RB=	,	
	Fundamental	l emission lev				95.2		easurement (F		,
				ker - 100kHz				only be used i		signal is
<u> </u>		ted Band-Edg				dBuV/m		in 2MHz of b	and edge.	
	Calcul	lated Band-Ed		(0,		dBuV/m	Margin	Level	Limit	Detector
			ta Marker - 11		48.2		-13.6	40.4	54	Avg
			Ita Markor 1	1MHz/10Hz:	50.0	dB	-25.3	48.7	74	Pk
						55.3 dBuV/m		Using 100kHz delta value		
		ted Band-Edg	ge Measuren	ment (Peak):	55.3		_			
			ge Measuren	ment (Peak):	55.3	dBuV/m dBuV/m	_	Hz delta value Hz delta value		

dBμV/m

40.4

v/h

Limit

54.0

МНz

5350.267

Pk/QP/Avg

Avg

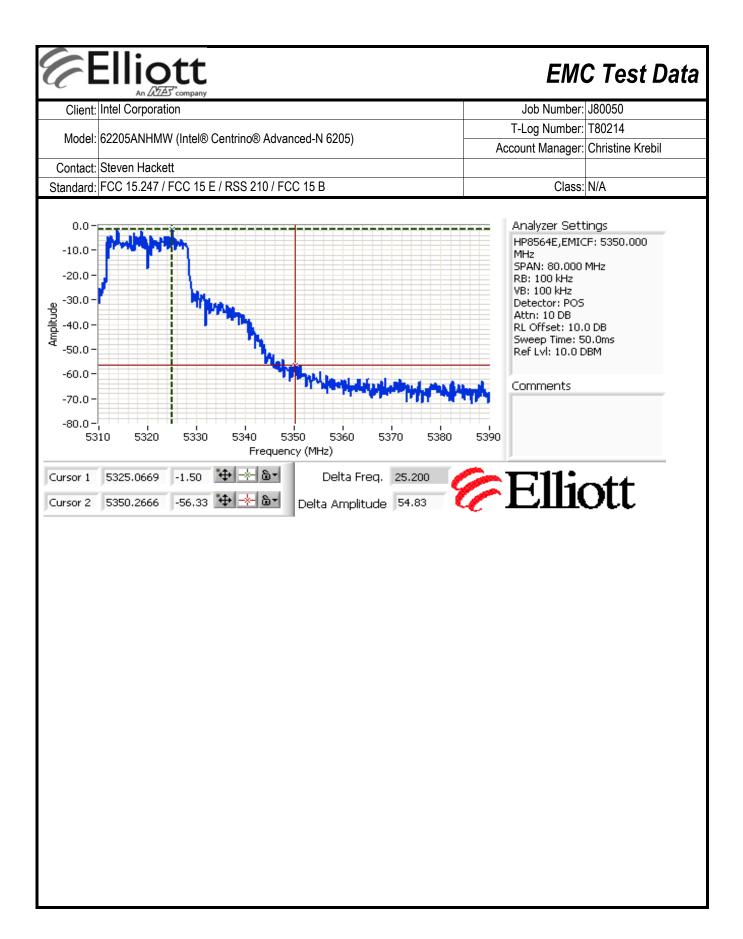
degrees

meters

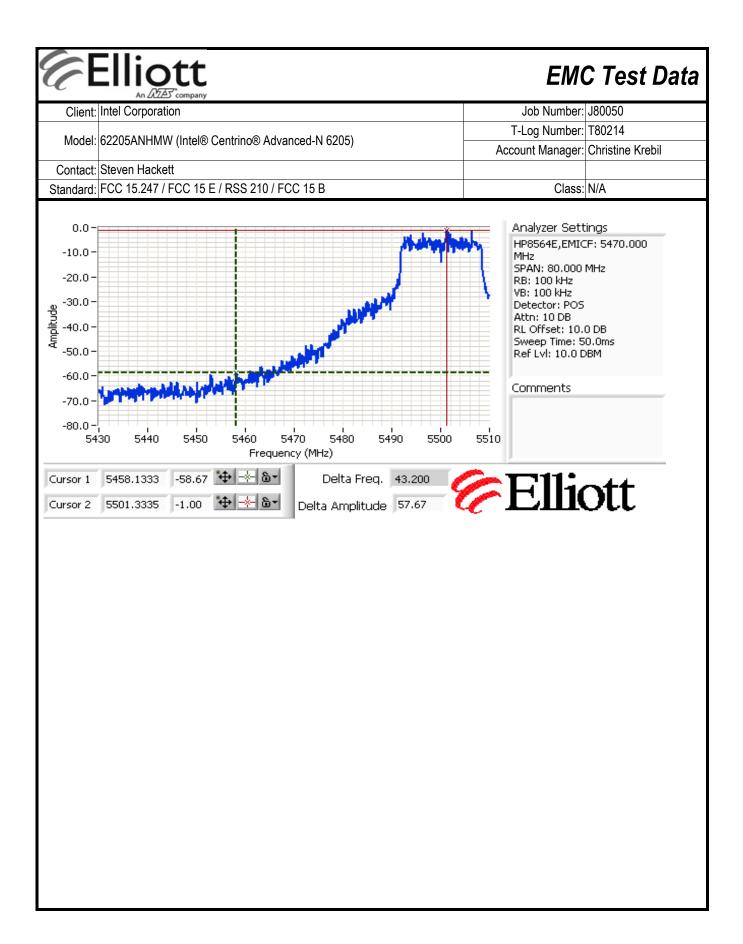
Using 100kHz delta value

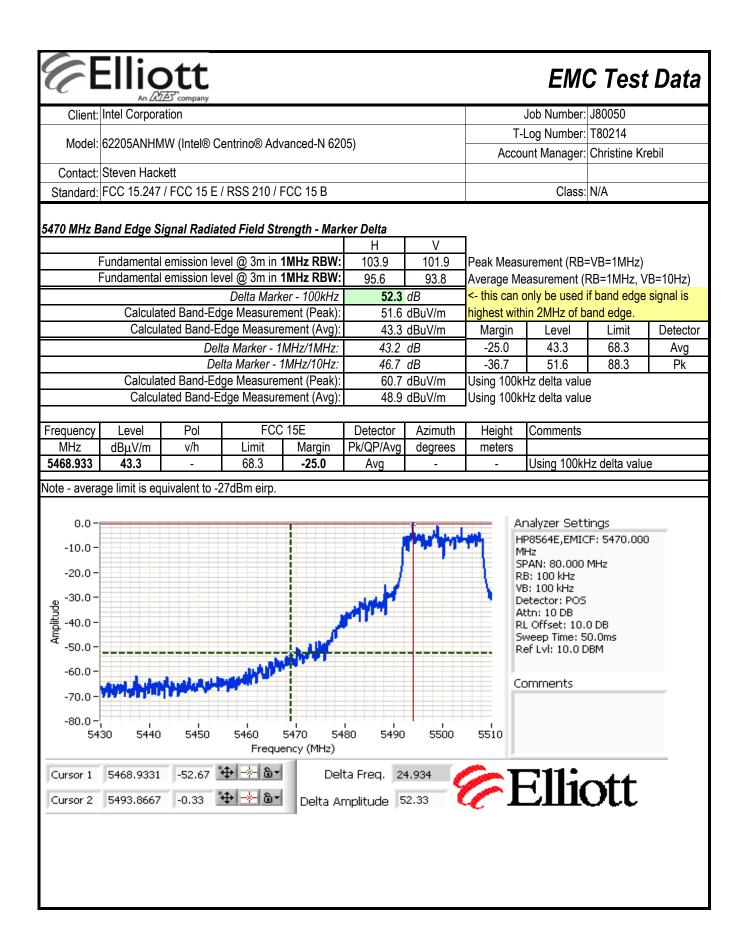
Margin

-13.6

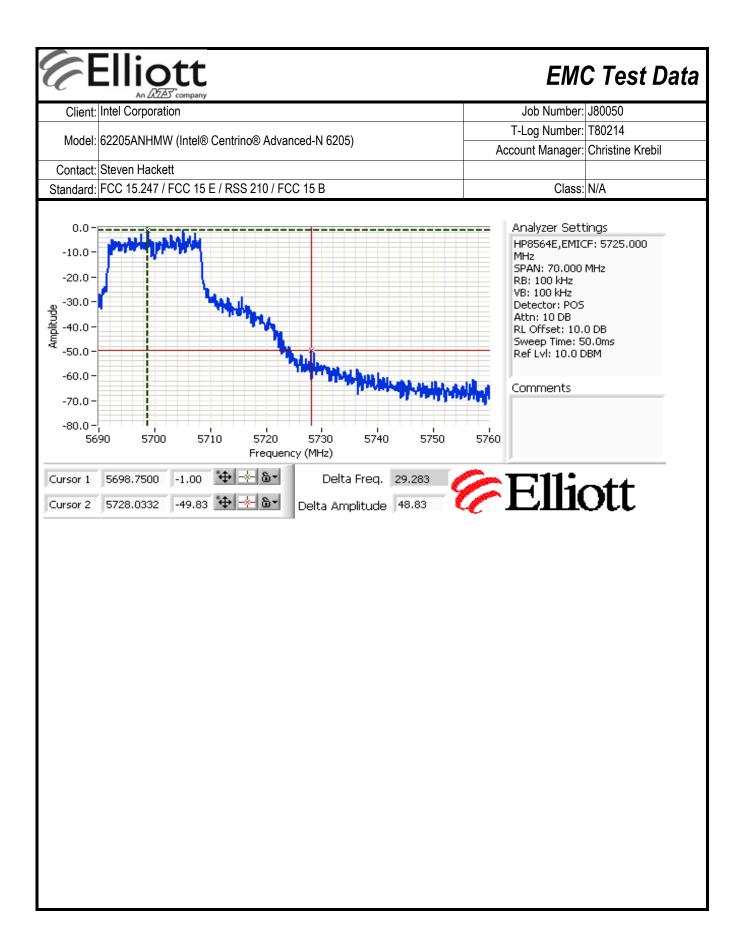


Model:		ation						Job Number:	J80050	
Wiodoi.	62205ANHM	IW (Intel® Co	entrino® Adv	vanced-N 620	15)		T-	Log Number:	T80214	
			antinio Auv	anceu-iv ozc			Acco	unt Manager:	Christine Kre	ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / F	-CC 15 B				Class:	N/A	
Run#4c F	UT on Chanr	nel #100 550	10MHz . n 20	MHz Chain	Δ					
.uii # 40, L		1101 # 100 550	70111112 - 11 ZC	Jivii iz, Olialii	Power	Settings				
			Target	, ,	Measure	ed (dBm)	Softwar	e Setting		
	L	Chain A 16.5		3.5	16.5		24.0			
undamen	tal Signal Fie	ld Stronath								
requency		Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg		meters			
F 400 F00	95.6	Н	-	-	AVG	260	1.3	RB 1 MHz;V	B 10 Hz;Pk	
5498.500					PK	260	1.3	RR 1 MHz·V	B 3 MHz;Pk	
	103.9	Н	-	-	1 11	200	1.0			
5498.810 5501.290	103.9 93.8 101.9	H V V	-	-	AVG PK	107 107	1.0	RB 1 MHz;V	B 10 Hz;Pk	
5498.810 5501.290 5501.080	93.8 101.9	V	-	-	AVG PK	107 107	1.0	RB 1 MHz;V	B 10 Hz;Pk	
5498.500 5498.810 5501.290 5501.080	93.8	V	-	-	AVG PK ength - Mark	107 107 er Delta	1.0	RB 1 MHz;V	B 10 Hz;Pk	
5498.810 5501.290 5501.080	93.8 101.9 Restricted Ba	∨ ∨ and Edge Sig	- gnal Radiate	- - ed Field Stre	AVG PK ength - Marke	107 107 er Delta V	1.0	RB 1 MHz;V RB 1 MHz;V	B 10 Hz;Pk B 3 MHz;Pk	
5498.810 5501.290 5501.080	93.8 101.9 Restricted Ba	V V and Edge Sig	- gnal Radiate rel @ 3m in '	- ed Field Stre	AVG PK ength - Marke H 103.9	107 107 er Delta V 101.9	1.0 1.0	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz)	D-10U-
5498.810 5501.290 5501.080 6460 MHz F	93.8 101.9 Restricted Ba	V V and Edge Sig	- gnal Radiate rel @ 3m in ' rel @ 3m in '	- ed Field Stre 1MHz RBW: 1MHz RBW:	AVG PK ength - Mark H 103.9 95.6	107 107 er Delta V 101.9 93.8	1.0 1.0 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, V	
5498.810 5501.290 5501.080 6460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental	V V and Edge Sig emission lev emission lev	gnal Radiate rel @ 3m in rel @ 3m in rel @ 3m in rel	- ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	AVG PK ength - Marke H 103.9 95.6 57.7	107 107 er Delta V 101.9 93.8	1.0 1.0 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used i	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, Vi f band edge	
5498.810 5501.290 5501.080 460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental	V V and Edge Sigential emission lever emission levered Band-Edge	el @ 3m in ' Delta Mark ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	AVG PK ength - Marke H 103.9 95.6 57.7 46.2	107 107 er Delta V 101.9 93.8 dB	1.0 1.0 Peak Meas Average Me this can highest with	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FB) only be used in 2MHz of be	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, V f band edge and edge.	signal is
5498.810 5501.290 5501.080 460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental	V V emission lev emission lev emission lev ed Band-Edgated Band-Edgated Band-Edgated	gnal Radiate rel @ 3m in rel @ 3m in rel @ 3m in rel Delta Mark ge Measuren dge Measure	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg):	AVG PK ength - Marke H 103.9 95.6 57.7 46.2 37.9	107 107 er Delta V 101.9 93.8 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Meas - this can of highest with Margin	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FBonly be used in 2MHz of be Level	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, V f band edge and edge. Limit	signal is Detec
5498.810 5501.290 5501.080 460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental	V V and Edge Signard Edge Signard Edge Signard Edge Edge Edge Edge Edge Edge Edge Edg	gnal Radiate rel @ 3m in ' rel @ 3m in ' Delta Mark ge Measurer dge Measure a Marker - 1	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8	107 107 er Delta V 101.9 93.8 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Me - this can object with Margin -16.1	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of be used in 2MHz of be used in 37.9	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54	signal is Detect Avg
5498.810 5501.290 5501.080	93.8 101.9 Restricted Ba Fundamental Fundamental Calculat Calculat	v V V V V V V V V V V V V V V V V V V V	rel @ 3m in rel @	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 1000000000000000000000000000000000000	AVG PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7	107 107 er Delta V 101.9 93.8 dB dBuV/m dBuV/m dB	Peak Meas Average Me - this can highest with Margin -16.1 -27.8	urement (RB=easurement (Fonly be used in 2MHz of base) Level 37.9 46.2	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detec
5498.810 5501.290 5501.080	93.8 101.9 Restricted Ba Fundamental Fundamental Calculat Calculat	V V and Edge Signard Edge Signard Edge Signard Edge Edge Edge Edge Edge Edge Edge Edg	el @ 3m in rel @ 3	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: ment (Peak):	AVG PK PR H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1	107 107 er Delta V 101.9 93.8 dB dBuV/m dBuV/m	Peak Meas Average Me - this can e highest with Margin -16.1 -27.8 Using 100k	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of be used in 2MHz of be used in 37.9	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detect Avg
5498.810 5501.290 5501.080	93.8 101.9 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	emission level emission level emission level emission level ed Band-Edge et ed Band-Edge ed Band-Edge ed Band-Edge ed Band-Edge et ed Edge et ed	gnal Radiate rel @ 3m in ' rel @ 3m in ' Delta Mark ge Measurer dge Measure a Marker - 1 ta Marker - 2 ge Measurer dge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/10Hz: ment (Peak): ement (Avg):	AVG PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1 41.9	107 107 107 Per Delta V 101.9 93.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	Peak Meas Average Me - this can elighest with Margin -16.1 -27.8 Using 100k Using 100k	urement (RB= easurement (FBonly be used in 2MHz of bits) Level 37.9 46.2 Hz delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detect Avg
5498.810 5501.290 5501.080 6460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat Level	emission lever emission emissi	rel @ 3m in rel @ 4m in rel @		AVG PK PR PR PR PR PR PR PR PR PR	107 107 Per Delta V 101.9 93.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dBuV/m	Peak Meas Average Me - this can elighest with Margin -16.1 -27.8 Using 100k Using 100k	urement (RB=easurement (RBonly be used in 2MHz of based in 37.9 46.2 Hz delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	signal is Detect Avg
5498.810 5501.290 5501.080 6460 MHz F	93.8 101.9 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	emission level emission level emission level emission level ed Band-Edge et ed Band-Edge ed Band-Edge ed Band-Edge ed Band-Edge et ed Edge et ed	gnal Radiate rel @ 3m in ' rel @ 3m in ' Delta Mark ge Measurer dge Measure a Marker - 1 ta Marker - 2 ge Measurer dge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/10Hz: ment (Peak): ement (Avg):	AVG PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1 41.9	107 107 107 Per Delta V 101.9 93.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	Peak Meas Average Me - this can elighest with Margin -16.1 -27.8 Using 100k Using 100k	urement (RB= easurement (FBonly be used in 2MHz of bits) Level 37.9 46.2 Hz delta value	B 10 Hz;Pk B 3 MHz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, V f band edge and edge. Limit 54 74	Detect Avg Pk





		OTT						EM	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
Madal	COOOE ANILIN	*** / ~ t ~ l @ C			05)		T-	Log Number:	T80214	
Mouei.	62205ANHM	IVV (INTER® C	3µttiuor ∀an	ancea-in o∠d	J5)		Acco	unt Manager:	Christine Kre	ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / F			Class:	N/A			
- 444 5	'IT Chan	1 #4 40 E70		Chair						
<un #="" 4a,="" td="" ∟<=""><td>UT on Chan</td><td>nel #140 570</td><td>)UMHZ = N Zu</td><td>)MHZ, Chain</td><td>Power S</td><td>Settings</td><td></td><td></td><td>1</td><td></td></un>	UT on Chan	nel #140 570)UMHZ = N Zu)MHZ, Chain	Power S	Settings			1	
			Target	(dBm)	Measure	-	Softwar	e Setting		
	ļ	Chain A		6.5	16.4		25.5			
Frequency	Level	Pol	15.209 /	/ 15.247	Detector	Azimuth	Height	Comments		
	al Signal Fie			/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5698.500	96.0	Н	-	-	AVG	259	1.4	RB 1 MHz;V		
5698.710	104.7	Н	-	-	PK	259	1.4	· ·	/B 3 MHz;Pk	
				,				RB 1 MHz;VB 10 Hz;Pk		
5698.520	93.6	V	-	-	AVG	149	1.0	· ·		
	93.6 102.0	V	-	-	AVG PK	149 149	1.0	· ·	/B 10 Hz;Pk /B 3 MHz;Pk	
5698.520 5698.670	102.0	V	-	-	PK ength - Marke	149		· ·		
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba	∨ and Edge Sig	- gnal Radiate	- ed Field Stre	PK ength - Marke	149 er Delta V	1.0	RB 1 MHz;V	/B 3 MHz;Pk	
5698.520 5698.670 5 725 MHz R	102.0 Restricted Ba	V and Edge Sign emission lev	- gnal Radiate vel @ 3m in 1	- ed Field Stre 1MHz RBW:	PK ength - Marke H 104.7	149 er Delta V 102.0	1.0 Peak Meas	RB 1 MHz;\u	/B 3 MHz;Pk =VB=1MHz)	
5698.520 5698.670 5 725 MHz R	102.0 Restricted Ba	V and Edge Sign emission lev	- gnal Radiate vel @ 3m in 1 vel @ 3m in 1	- ed Field Stre 1MHz RBW: 1MHz RBW:	PK ength - Marke H 104.7 96.0	149 er Delta V 102.0 93.6	1.0 Peak Measi	RB 1 MHz;\vulleturement (RB=easurement (l	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	B=10Hz)
5698.520 5698.670 5 725 MHz R	102.0 Restricted Ba Fundamental Fundamental	V and Edge Signary emission level emission level	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz	PK ength - Marke H 104.7 96.0 48.8	149 er Delta V 102.0 93.6 dB	1.0 Peak Measi Average Me	RB 1 MHz;\vurement (RBeasurement (Ionly be used	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	B=10Hz)
5698.520 5698.670 5 725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat	V and Edge Sign emission level emission level ted Band-Edge	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak):	PK ength - Marke H 104.7 96.0 48.8 55.9	149 er Delta V 102.0 93.6 dB dBuV/m	Peak Measi Average Me	RB 1 MHz;\v urement (RB= easurement (I ponly be used nin 2MHz of b	*B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	B=10Hz) signal is
5698.520 5698.670 5 725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat	V and Edge Signary emission level emission level ted Band-Edgated Band-Edgated Band-Edgated	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Mark ge Measuren dge Measure	- A Field Stree IMHz RBW: IMHz RBW: IMHz RBW: IMHz RBW: IMHz IMHz IMHz IMHz IMHz IMHz IMHz IMHz	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2	149 V 102.0 93.6 dB dBuV/m dBuV/m	1.0 Peak Measi Average Me - this can of highest with Margin	urement (RB- easurement (I only be used hin 2MHz of b	*VB=1MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit	B=10Hz) signal is Detect
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat	V and Edge Signard Edge Signard Edge Emission level Edge Edge Edge Edge Edge Edge Edge Edge	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11	- And the street of the street	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2 46.8	149 v 102.0 93.6 dB dBuV/m dBuV/m dB	Peak Mease Average Me <- this can of highest with Margin -21.1	urement (RBseasurement (I only be used hin 2MHz of busel 47.2	VB=1MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3	B=10Hz) signal is Detect Avg
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat Calcula	V and Edge Signard Edge Signard Edge Edge Edge Edge Edge Edge Edge Edg	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 1 Ita Marker - 1	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 1000 Field Stree	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2 46.8 45.0	149 V 102.0 93.6 dB dBuV/m dBuV/m dB dB	Peak Meas Average Me <- this can o highest with Margin -21.1 -32.4	urement (RBseasurement (I only be used hin 2MHz of bused 47.2 55.9	VB=1MHz;Pk =VB=1MHz, V RB=1MHz, V if band edge and edge. Limit 68.3 88.3	B=10Hz) signal is Detect
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	V and Edge Signard Edge Signard Edge Emission level Edge Edge Edge Edge Edge Edge Edge Edge	yel @ 3m in 1 yel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100kHz 100kH	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9	149 V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Peak Meas Average Me - this can of highest with Margin -21.1 -32.4 Using 100k	urement (RBseasurement (I only be used hin 2MHz of busel 47.2	VB=1MHz;Pk =VB=1MHz, V RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detect Avg
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	V and Edge Signard Edge Signard Edge Band-Edge Band-Edg	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 1 ge Measuren dge Measuren dge Measuren	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100000000000000000000000000000000000	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9 51.0	149 v 102.0 93.6 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	Peak Mease Average Mease this can on highest with Margin -21.1 -32.4 Using 100k Using 100k	urement (RBseasurement (I conly be used nin 2MHz of bused 47.2 55.9 Hz delta value	VB=1MHz;Pk =VB=1MHz, V RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detect Avg
5698.520 5698.670 5725 MHz R	102.0 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat Calculat	emission level emission	gnal Radiate vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 1 ge Measuren dge Measuren dge Measuren	and Field Street IMHz RBW: IMHz RBW: IMHz RBW: IMHz - 100kHz IMHz (Avg): IMHZ/1MHz: IMHZ/10Hz: IMH	PK ength - Marke H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9	149 V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Peak Meas Average Me - this can of highest with Margin -21.1 -32.4 Using 100k	urement (RBseasurement (ICON) be used hin 2MHz of be 17.2 55.9 Hz delta value	VB=1MHz;Pk =VB=1MHz, V RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detect Avg



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	711 Date Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTINIVY (IIILENO CETILITION AGVANCEG-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 5, Band Edge Field Strength - n 20MHz, Chain B Run # 5a, EUT on Channel #36 5180MHz - n 20MHz, Chain B

Date of Test: 8/5/2010 Test Location: Chamber #3
Test Engineer: David W. Bare Config Change: none

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	15.5	15.6	19.5

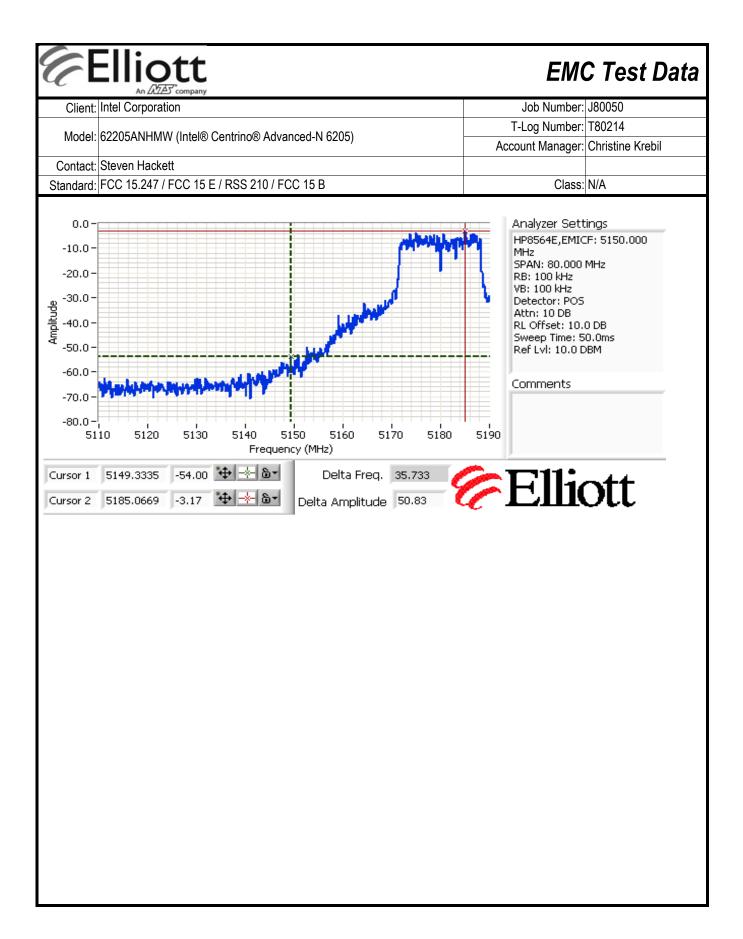
Fundamental Signal Field Strength

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5180.990	94.6	Н	100.0	-5.4	AVG	143	1.4	RB 1 MHz;VB 10 Hz;Pk
5180.420	104.5	Н	70.0	34.5	PK	143	1.4	RB 1 MHz;VB 3 MHz;Pk
5181.210	96.0	V	100.0	-4.0	AVG	161	1.0	RB 1 MHz;VB 10 Hz;Pk
5180.560	105.9	V	70.0	35.9	PK	161	1.0	RB 1 MHz;VB 3 MHz;Pk

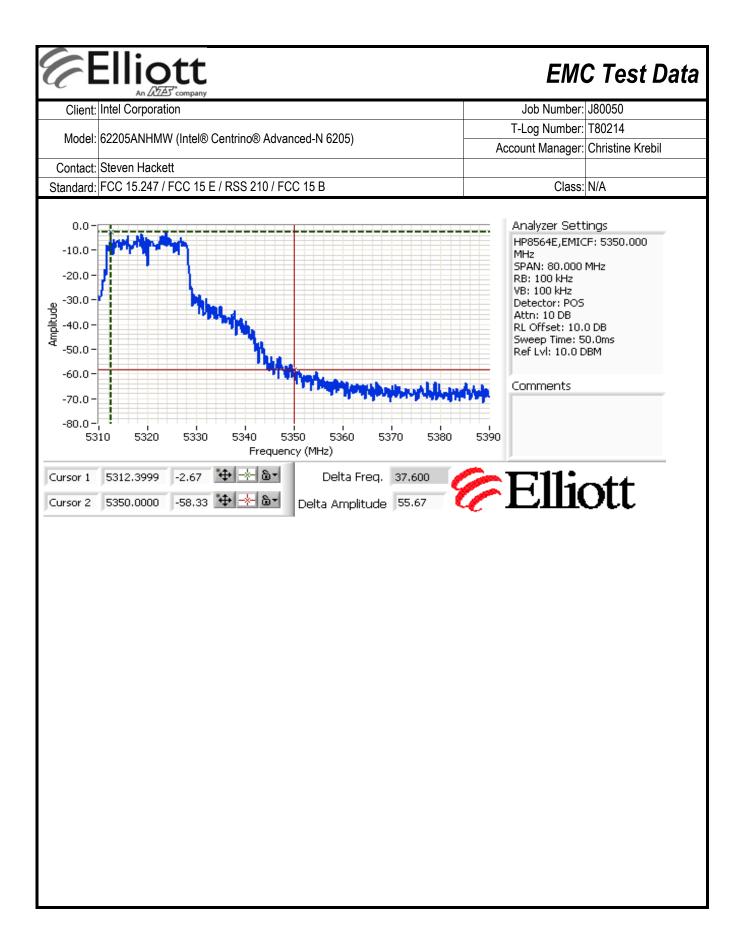
5150 MHz Band Edge Signal Radiated Field Strength - Marker Delta

Н	V				
104.5	105.9	Peak Measu	rement (RB=	=VB=1MHz)	
94.6	96.0	Average Me	asurement (F	RB=1MHz, V	B=10Hz)
50.8	dB	<- this can o	nly be used	if band edge	signal is
55.1	dBuV/m	highest withi	n 2MHz of b	and edge.	
45.2	dBuV/m	Margin	Level	Limit	Detector
48.5	dB	-8.8	45.2	54	Avg
47.5	dB	-18.9	55.1	74	Pk
57.4	dBuV/m	Using 100kH	Iz delta value	Э	
48.5	dBuV/m	Using 100kH	lz delta value	Э	
	104.5 94.6 50.8 55.1 45.2 48.5 47.5 57.4	104.5 105.9 94.6 96.0 50.8 dB 55.1 dBuV/m 45.2 dBuV/m 48.5 dB 47.5 dB 57.4 dBuV/m	104.5 105.9 Peak Measu 94.6 96.0 Average Measu 50.8 dB <- this can o 55.1 dBuV/m highest withi 45.2 dBuV/m Margin 48.5 dB -8.8 47.5 dB -18.9 57.4 dBuV/m Using 100kH	104.5 105.9 Peak Measurement (RB=94.6 94.6 96.0 Average Measurement (IS=40.0 50.8 dB < this can only be used highest within 2MHz of b 45.2 dBuV/m Margin Level 48.5 dB -8.8 45.2 47.5 dB -18.9 55.1 57.4 dBuV/m Using 100kHz delta value	104.5 105.9 Peak Measurement (RB=VB=1MHz) 94.6 96.0 Average Measurement (RB=1MHz, V 50.8 dB <- this can only be used if band edge. 55.1 dBuV/m highest within 2MHz of band edge. 45.2 dBuV/m Margin Level Limit 48.5 dB -8.8 45.2 54 47.5 dB -18.9 55.1 74 57.4 dBuV/m Using 100kHz delta value

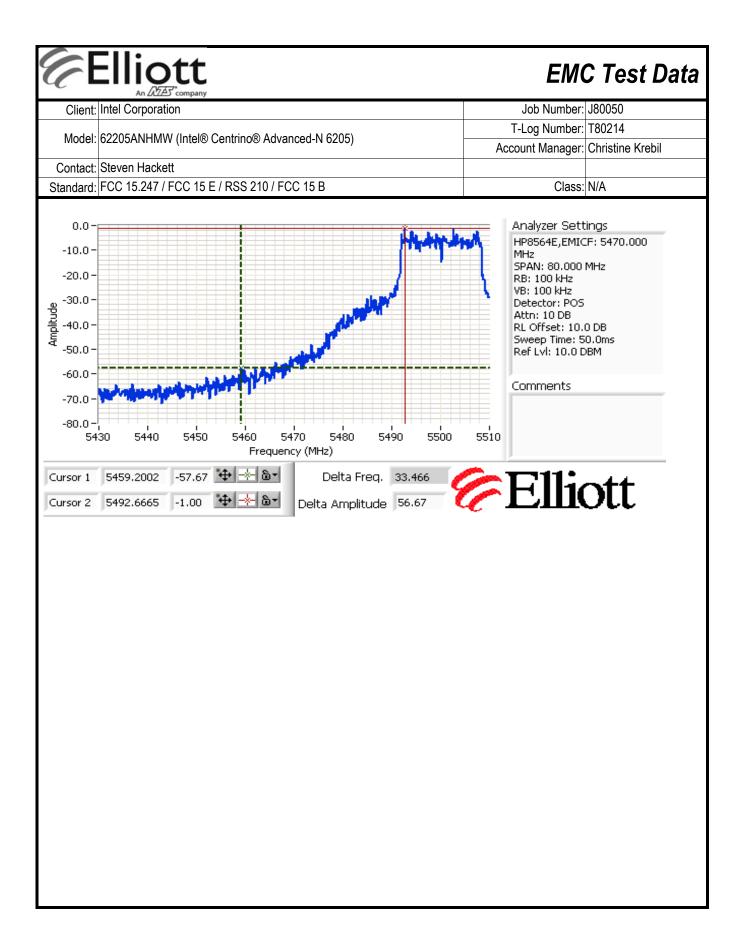
Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5149.334	45.2	-	54.0	-8.8	Avg	-	-	Using 100kHz delta value

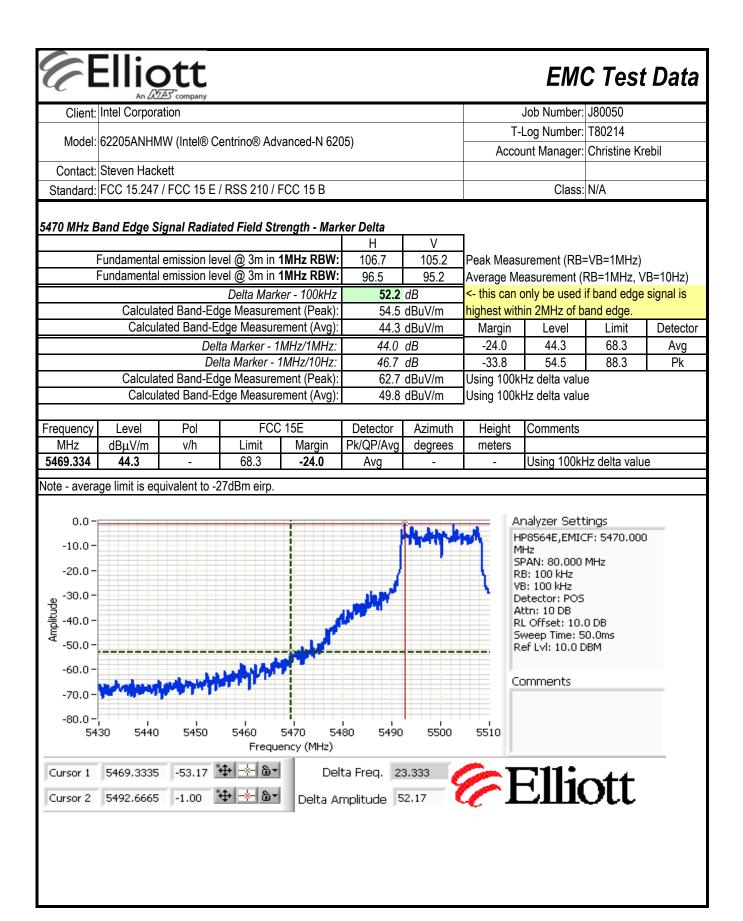


E E	Ellic	ott AF company						EMO	C Test	Data
Client:	Intel Corpora	ation					,	Job Number:	J80050	
5 4 - 1 - 1	22225 A NII IN			1 N1 000	>- \		T-I	_og Number:	T80214	
Model:	62205ANHM	IW (Intel® Ce	entrino® Adv	/anced-N 620	J5)		Accol	ınt Manager:	Christine Kr	ebil
Contact:	Steven Hack	ett								
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / I	FCC 15 B				Class:	N/A	
	UT on Chan Date of Test: st Engineer:		Targe	MHz, Chain I	Te Cor Power S Measure	ed (dBm)	Softwar	e Setting		
Fundament	L al Signal Fie	Chain B	10	5.0	10	5.0		1.5		
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5318.500	95.1	Н	100.0	-4.9	AVG	145	1.4	RB 1 MHz;V	'B 10 Hz;Pk	
5320.440	105.1	Н	70.0	35.1	PK	145	1.4	RB 1 MHz;V	B 3 MHz;Pk	
5318.510	95.2	V	100.0	-4.8	AVG	158	1.1	RB 1 MHz;V	'B 10 Hz;Pk	
5320.400	104.8	V	70.0	34.8	PK	158	1.1	RB 1 MHz;V	B 3 MHz;Pk	
5350 MHz B	and Edge Si	ignal Radiat	ed Field Str	ength - Mari	ker Delta		_			
					Н	V				
	undamental				105.1	104.8		rement (RB=	,	
F	undamental	emission lev	rel @ 3m in	1MHz RBW:	95.1	95.2		asurement (F		,
				er - 100kHz	55.7	-		only be used i	•	signal is
		ed Band-Ed		/		dBuV/m		in 2MHz of b	and edge.	
	Calcula	ated Band-E	<u> </u>	τ σ,		dBuV/m	Margin	Level	Limit	Detector
				MHz/1MHz:	49.3		-14.5	39.5	54	Avg
	0.1.1.			1MHz/10Hz:	49.5		-24.6	49.4	74	Pk
		ed Band-Edgated Band-Edgated				dBuV/m dBuV/m		Hz delta value Hz delta value		
Frequency	Level	Pol	FCC	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			

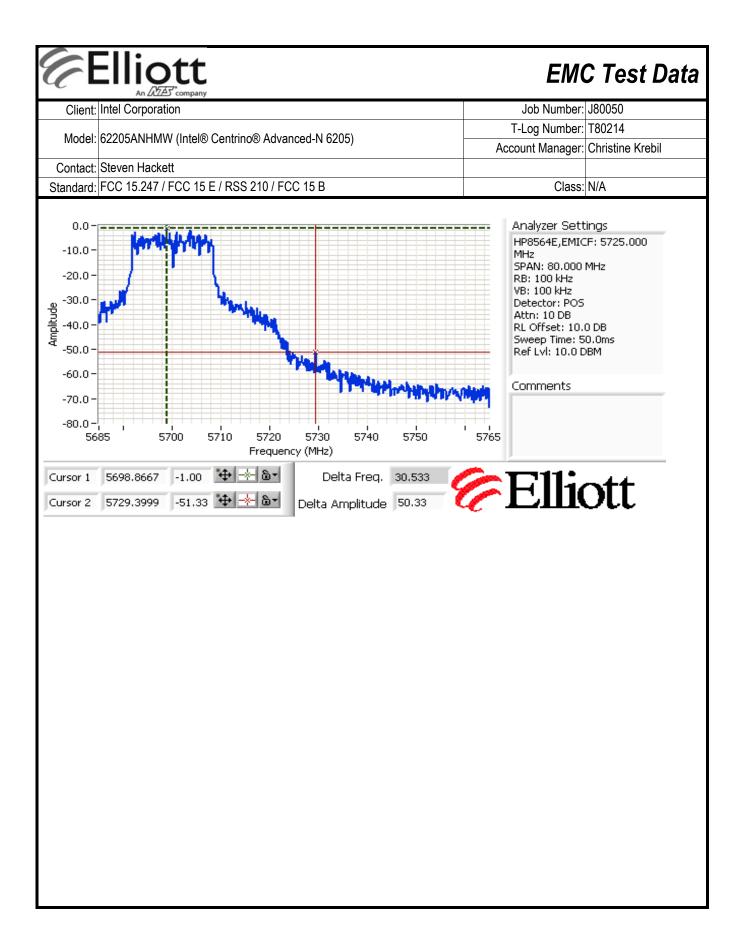


		ition						Job Number:	J80050	
	COOOE A NII IN A	W /L L IO 0			05)		T-	Log Number:	T80214	
Contact	62205ANHM	vv (intel® Ce	entrino® Adv	/anced-N 62	U5)		Acco	unt Manager:	Christine Kr	ebil
O O I I LUOI.	Steven Hack	ett								
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / F	FCC 15 B				Class:	N/A	
Run#5c F	UT on Chani	nel #100 550	10MHz . n 2(MHz Chair	ı R					
(uii # 50, L		101 # 100 550	OWITE - IT Z	Jilliz, Ollan	Power	Settings]	
				(dBm)	Measure	_ , _ ,		e Setting		
		Chain B	16	3.5	16	5.4	2	4.0		
- undamen	tal Signal Fie	ld Strenath								
Frequency		Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5501.070	96.5	Н	100.0	-3.5	AVG	134	1.2	RB 1 MHz;V	/B 10 Hz;Pk	
5500.440	106.7	Н	70.0	36.7	PK	134	1.2	RB 1 MHz;V	/B 3 MHz;Pk	
5498.500	95.2	V	100.0	-4.8	AVG	152	1.0	RB 1 MHz;V	/B 10 Hz;Pk	
5500.600	105.2	V	70.0	35.2	PK	152	1.0	RB 1 MHz;V	/B 3 MHz;Pk	
5/60 MHz I	Restricted Ba	nd Edge Sid	anal Padiat	ad Field Str	anath - Marki	ar Dolta				
1400 1811 12 1	testricted Da	na Lage on	jilai Naulate	a i iela su e	H	V				
	Fundamental	emission lev	el @ 3m in	1MHz RBW:		105.2	Peak Meas	urement (RB=	=VB=1MHz)	
				1MHz RBW:		95.2	-	easurement (F	•	B=10Hz)
	runuamentai			er - 100kHz	56.7			only be used		,
	runuamentai		Delta Mark					•		Ü
		ed Band-Edg			50.0	dBuV/m	highest with	nin 2MHz of b	ana cago.	
	Calculat	ed Band-Edo	ge Measurer	ment (Peak):		dBuV/m dBuV/m		nin 2MHz of b Level	Limit	Detecto
	Calculat	ated Band-Ed	ge Measurer	ment (Peak): ement (Avg):		dBuV/m	Margin -14.2	1		
	Calculat	ated Band-Ed	ge Measurer dge Measure	ment (Peak): ement (Avg): MHz/1MHz:	39.8 54.2	dBuV/m dB	Margin	Level	Limit	Detecto Avg Pk
	Calculat Calcula	ated Band-Ed	ge Measurer dge Measure a Marker - 1 ta Marker - 1	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	39.8 54.2 53.2	dBuV/m dB	Margin -14.2 -24.0	39.8 50.0	Limit 54 74	Avg
	Calculat Calcula Calculat	ated Band-Ed Delt Del	ge Measurer dge Measure a Marker - 1 ta Marker - 1 ge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	39.8 54.2 53.2 52.5	dBuV/m dB dB	Margin -14.2 -24.0 Using 100k	Level 39.8	Limit 54 74	Avg
	Calculat Calcula Calculat Calculat	nted Band-Ed Delt Del ed Band-Ed ated Band-Ed	ge Measurer dge Measure a Marker - 1 ta Marker - 1 ge Measurer dge Measure	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	39.8 54.2 53.2 52.5 43.3	dBuV/m dB dB dBuV/m dBuV/m	Margin -14.2 -24.0 Using 100k Using 100k	Level 39.8 50.0 Hz delta value Hz delta value	Limit 54 74	Avg
	Calculat Calcula Calculat	ated Band-Ed Delt Del ed Band-Edg	ge Measurer dge Measure a Marker - 1 ta Marker - 1 ge Measurer dge Measure	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	39.8 54.2 53.2 52.5	dBuV/m dB dB dBuV/m	Margin -14.2 -24.0 Using 100k	Level 39.8 50.0 Hz delta value	Limit 54 74	_

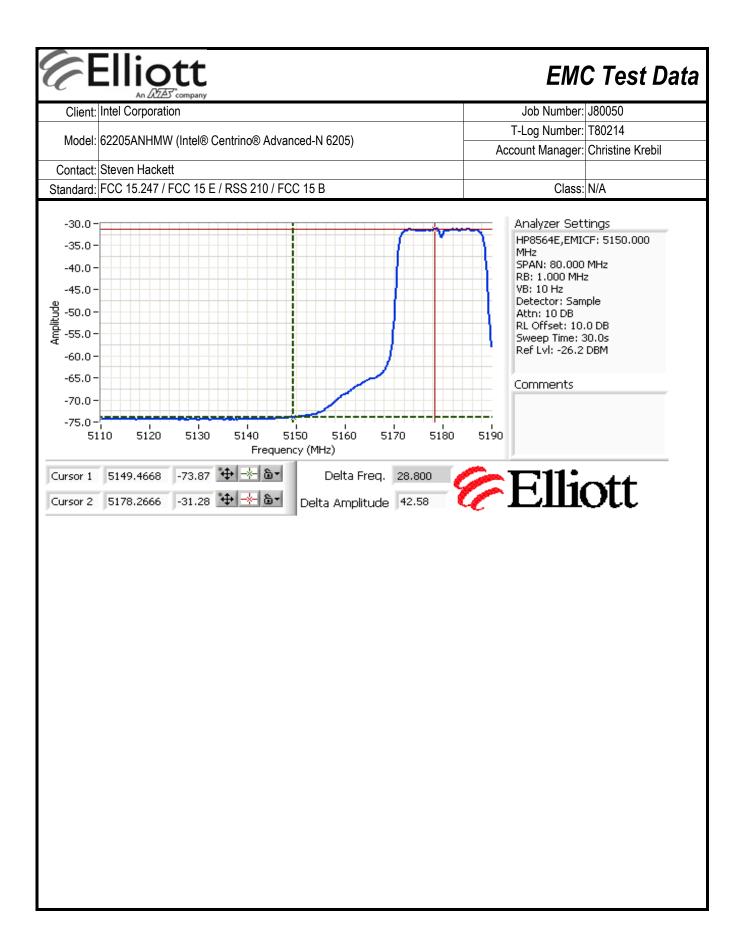




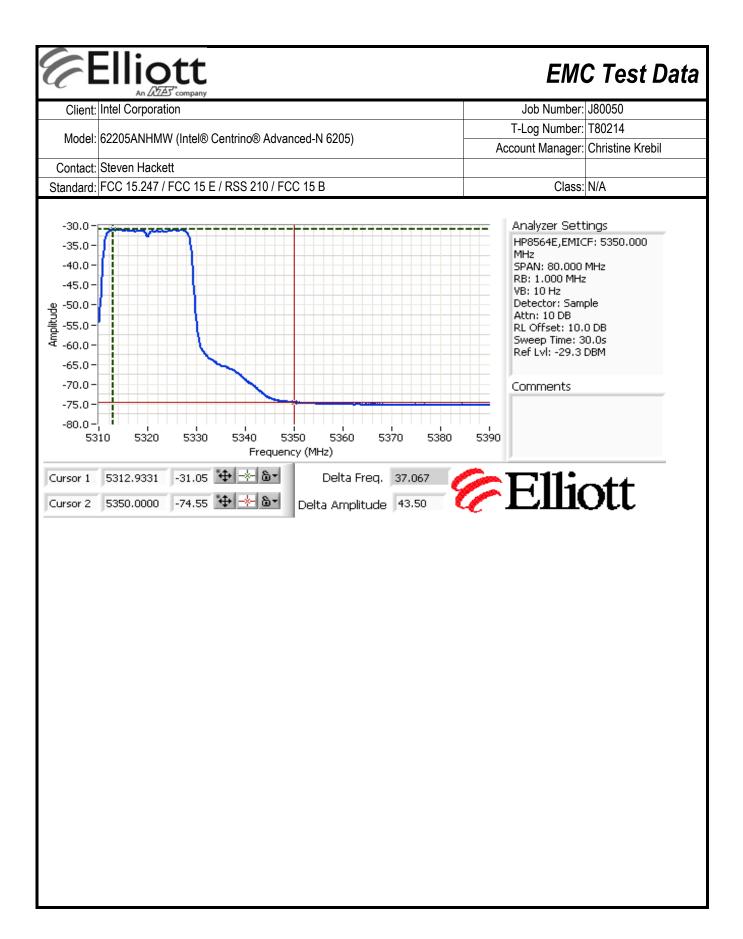
Ct	Ellic	ott Æreompany						EMO	C Test	Data
Client:	Intel Corpora							Job Number:	J80050	
				1.11.00/	^=\		T-	Log Number:	T80214	
Modei:	62205ANHIV	IW (Intel® Ce	entrino® Aav	vanced-N 620	J5)			unt Manager:		ebil
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E /	/ RSS 210 / F	FCC 15 B				Class:	N/A	
Run # 5d, E	.UT on Chan	nel #140 57()0MHz - n 2(0MHz, Chain		0-4:200			1	
	ļ	1	Targe'	+ (dDm)	•	Settings	I Coffwar	Cotting	1	
		Chain B		t (dBm) 6.5	Measure 16	ea (aBm) 6.4		re Setting 5.0	1	
	L	Ollalli).0				5.0	i	
F <u>undament</u>	tal Signal Fie	ald Strength								_
Frequency	1	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5698.500	94.2	Н	100.0	-5.8	AVG	132	1.5	RB 1 MHz;V		
5700.480	104.6	Н	70.0	34.6	PK	132	1.5		/B 3 MHz;Pk	
5701.120	93.9	V	100.0	-6.1	AVG	187	1.0	RB 1 MHz;V		
5700.440	104.2	V	70.0	34.2	PK	187	1.0	RB 1 MHz;V	/B 3 MHz;Pk	
5725 MHz F	Postricted B	and Fdae Si	anal Radiat	ed Field Stre	ength - Marke	or Delta				
JI 20 1911 12 1 .	.C30101010 ==	mu Lugo J.	Jiai itaaiate	Ju i ioia Ga S	H H	V	1			
	Fundamental	emission le	vel @ 3m in	1MHz RBW:		104.2	Peak Meas	urement (RB=	=VB=1MHz)	
	Fundamental					93.9	_	easurement (F		B=10Hz
			_	ker - 100kHz	50.3			only be used i		
	Calcula	ted Band-Edg				dBuV/m		nin 2MHz of b		
		lated Band-Ed				dBuV/m	Margin	Level	Limit	Detec
		Del	ta Marker - 1	MHz/1MHz:	46.2		-24.4	43.9	68.3	Avg
			elta Marker - 1		45.7		-34.0	54.3	88.3	Pk
		ted Band-Ed		. ,		dBuV/m		Hz delta value		
	Calcula	ated Band-E	dge Measure	ement (Avg):	48.5	dBuV/m	Using 100kl	Hz delta value	е	
			FCC	C 15E	Detector	Azimuth	Height	Comments		
Ereguency	امریم ا	PΛΙ		/ IUL .	Delector	Azimuu		Commons		
Frequency MHz	Level dBµV/m	Pol v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			



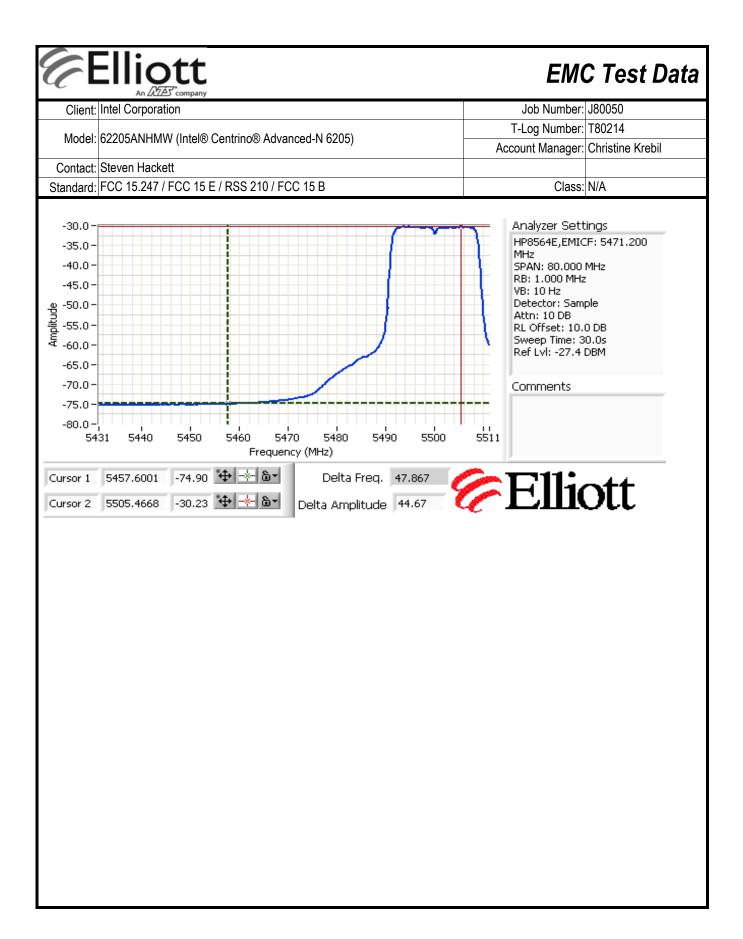
	Ellic	tt						EMO	C Test	Data
Client:	Intel Corpora	tion						Job Number:	J80050	
	-			11100	05)		T-	Log Number:	T80214	
Model:	62205ANHM	W (Intel® C	entrino® Adv	/anced-N 62	05)		Acco	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	ett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 /	FCC 15 B				Class:	N/A	
Run #6a, El [nd Edge Field UT on Chann Date of Test:	e l #36 5180 8/5/2010	MHz - n 20N		Te	est Location:				
16	est Engineer:	Menian birg	jani		COI	ilig Change.	none			
		Targef	: (dBm)		Power S		ed (dBm)		Softwar	e Setting
Chain	Α	В	Ć	Total	Α	В	C	Total		
Onam	12.5	12.5		15.5	12.4	12.5		15.5	19.5	/19.5
MHz 5173.630 5184.470 5185.470 5186.100	dBμV/m 95.5 105.5 93.0 103.3	v/h V V H H	Limit	Margin - - - -	Pk/QP/Avg AVG PK AVG PK	157 157 113 113	meters 1.2 1.2 1.1 1.1	RB 1 MHz;V RB 1 MHz;V RB 1 MHz;V RB 1 MHz;V	B 3 MHz;Pk B 10 Hz;Pk	
150 MHz E	Band Edge Si	gnal Radia	ted Field Str	rength - Mar			-			
	Fundamental	omission le	(al @ 2m in	4MU~ DDW.	H 103.3	V 105 5	Dook Moss	uramant (DD-	\/D=1MLI=\	
	Fundamental				93.0	105.5 95.5	-1	urement (RB= easurement (F	,	/B=10Hz)
				er - 100kHz	44.9			only be used i		
				ment (Peak):		dBuV/m	highest with	in 2MHz of ba	and edge.	
	Calcula			ement (Avg):		dBuV/m	Margin	Level	Limit	Detecto
			ta Marker - 1		36.3		-1.1	52.9	54	Avg
	Calculat		<i>lta Marker -</i> ge Measurei		42.6	<i>aв</i> dBuV/m	-13.4	60.6 Hz delta value	74	Pk
			dge Measure			dBuV/m		Hz delta value		
		Pol	FCC	15.209	Detector	Azimuth	Height	Comments		
Frequency	Level							İ		
Frequency MHz	Level dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			

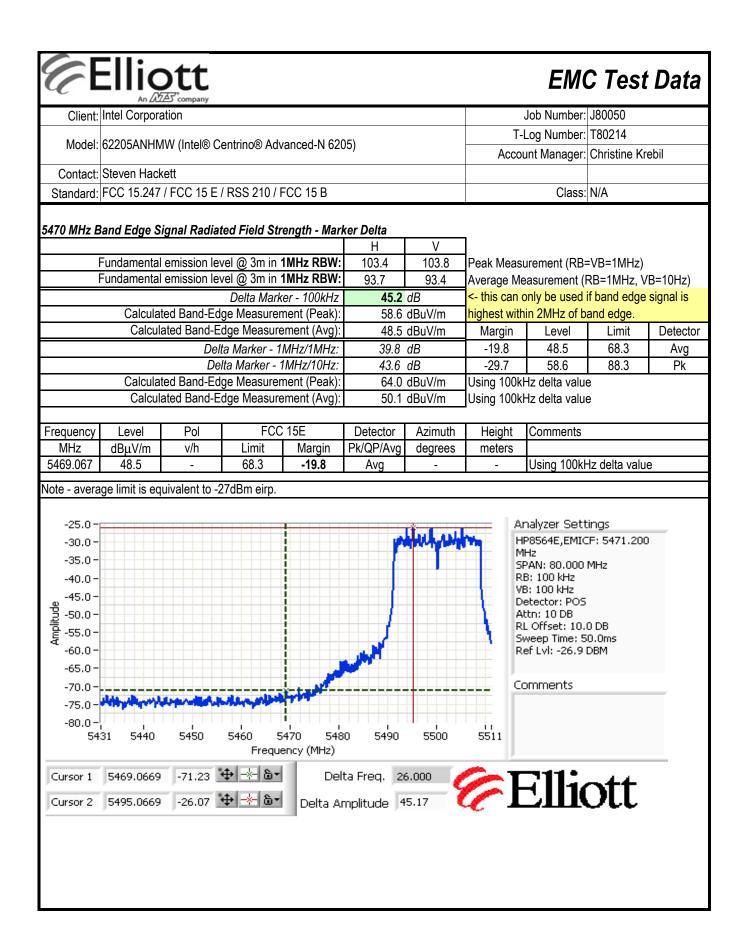


		ott Fer*company						EMO	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
Madalı	COOOE A NILIA	1\1\ /!=tal@ C	ti a@ A dı		٥٢١		T-1	Log Number:	T80214	
Modei.	62205ANHM	IVV (Intel® C	entrinow Auv	/ancea-iv o∠u	J5)		Accol	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E	RSS 210 / I	FCC 15 B				Class:	N/A	
	UT on Chanr Date of Test:	8/5/2010		MHz, Chain A	Te	est Location:				
Te	st Engineer:	Mehran Birg	ani		Con	nfig Change:	none			
	Γ				Power S	Settinas				
		Target	(dBm)			•	ed (dBm)	!	Software	e Setting
Chain	А	В	C	Total	А	В	C	Total		<u>-</u>
Chain	13.0	13.0		16.0	13.2	13.1		16.2	21.5	/21.5
Fundament Frequency MHz	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
5312.830	dBμV/m 93.6	v/h V	Limit -	Margin -	Pk/QP/Avg AVG	degrees 151	meters 1.0	RB 1 MHz;V	/R 10 Hz·Pk	
5313.800	103.3	V		-	PK	151	1.0	RB 1 MHz;V	•	
5325.430	93.2	Н	-	-	AVG	118	1.1	RB 1 MHz;V		
5326.100	103.4	Н	-	-	PK	118	1.1	RB 1 MHz;V	•	
5350 MHz E	Band Edge S	ignal Radiat	ted Field Str	ength - Marl	ker Delta	V	1			
-	Fundamental	emission lev	vel @ 3m in	1MHz RBW:		103.3	Peak Meası	urement (RB=	=VB=1MHz)	
	Fundamental					93.6	Average Me	easurement (F	RB=1MHz, V	,
				er - 100kHz	45.0			only be used i		signal is
		ted Band-Ed				dBuV/m	<u> </u>	nin 2MHz of b	and edge.	
	Calcula			ement (Avg):		dBuV/m	Margin	Level	Limit	Detecto
			ta Marker - 1		39.6		-5.4	48.6	54	Avg
			lta Marker - 1		43.5		-15.6	58.4	74	Pk
		ted Band-Ed				dBuV/m		Hz delta value		
	Calcul	ated Band-E	age Measure	ment (Avg).	JU. I	dBuV/m	Jusing Tuuki	Hz delta value	3	
			FCC ·	15.209	Detector	Azimuth	Height	Comments		
Frequency	Level	Pol i								
Frequency MHz	Level dBμV/m	Pol v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			

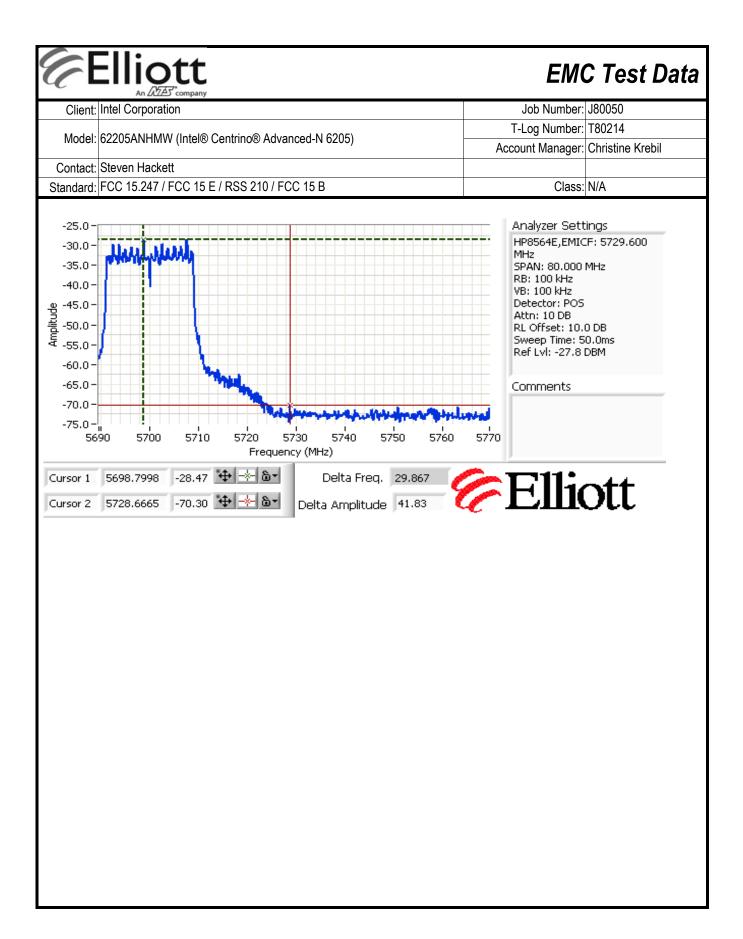


	Intel Corpora							Job Number:	J80050	
Madal	C0005 A NII IN	MA / L L I & O		1 1 1 00	25)		T-	Log Number:	T80214	
Model:	62205ANHM	ivv (intel® C	entrino® Ad\	/anced-N 620	J5)		Acco	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Run #6c, El	JT on Chanr	nel #100 550	0MHz - n 20	MHz, Chain	A+B					
					Power	Settings			_	
			(dBm)	T			ed (dBm)		Softwar	e Setting
Chain	A 42.5	B	С	Total	A 42.0	B	С	Total	24.0	/24.0
	13.5	13.5		16.5	13.6	13.6		16.6	24.0	/24.0
undament	al Signal Fie	eld Strenath								
requency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5506.570	93.4	V	-	-	AVG	137	1.0	RB 1 MHz;\	/B 10 Hz;Pk	
						407				
5495.070	103.8	V	-	-	PK	137	1.0	RB 1 MHz;\	/B 3 MHz;Pk	
	103.8 93.7	V H	-	-	PK AVG	260	1.0	RB 1 MHz;\\ RB 1 MHz;\		
5493.500 5494.330	93.7 103.4	H H	-	- - - ed Field Stre	AVG PK ength - Mark	260 260 er Delta		RB 1 MHz;\		
	93.7 103.4 Restricted Ba	H H and Edge Si	gnal Radiate	1MHz RBW:	AVG PK ength - Mark H 103.4	260 260 er Delta V 103.8	1.0 1.0	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz)	
5493.500 5494.330 6460 MHz F	93.7 103.4 Restricted Ba	H H and Edge Si	- gnal Radiate vel @ 3m in vel @ 3m in	1MHz RBW: 1MHz RBW:	AVG PK ength - Mark H 103.4 93.7	260 260 er Delta V 103.8 93.4	1.0 1.0 Peak Meas Average Me	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (RB:	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	(B=10Hz)
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Ba Fundamental	H H and Edge Si emission lev emission lev	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark	1MHz RBW: 1MHz RBW: xer - 100kHz	AVG PK ength - Marke H 103.4 93.7 46.3	260 260 er Delta V 103.8 93.4	1.0 1.0 Peak Meas Average Meas	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	(B=10Hz)
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Ba Fundamental Fundamental	H H and Edge Si emission lev emission lev ted Band-Ed	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz	AVG PK ength - Mark H 103.4 93.7 46.3 57.5	260 260 er Delta V 103.8 93.4 dB	1.0 1.0 Peak Meas Average Me this can on highest with	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (lonly be used	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	/B=10Hz) signal is
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Ba Fundamental Fundamental	H H and Edge Signary emission level emission emissi	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg):	AVG PK ength - Mark H 103.4 93.7 46.3 57.5	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Meas	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I) only be used uin 2MHz of b	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	B=10Hz) signal is Detector
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Ba Fundamental Fundamental	H H H emission lever emission emission lever emission emi	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Mark H 103.4 93.7 46.3 57.5 47.4	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Meas - this can of highest with Margin	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I) only be used in 2MHz of b	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit	/B=10Hz) signal is
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Ba Fundamental Fundamental Calcula Calcula	H H H and Edge Signary emission leverage emission emissio	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m	Peak Meas Average Me this can highest with Margin6.616.5	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (I only be used in 2MHz of b Level 47.4	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	/B=10Hz) signal is Detector
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Bases Fundamental Fundamental Calcular Calcular	H H H and Edge Signary emission leverage emission emissio	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	1MHz RBW: 1MHz RBW: 1MHz RBW: (er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m dB	Peak Meas Average Me - this can e highest with Margin -6.6 -16.5 Using 100k	urement (RBseasurement (Ipoly be used hin 2MHz of bused 47.4 57.5	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330	93.7 103.4 Restricted Barricted Bar	emission lever ted Band-Edurated Band-Edurat	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1 49.0	260 260 V 103.8 93.4 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	1.0 1.0 1.0 Peak Meas Average Me - this can object with Margin -6.6 -16.5 Using 100k Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I) only be used in 2MHz of b Level 47.4 57.5 Hz delta value Hz delta value	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330 5460 MHz F	93.7 103.4 Restricted Ba Fundamental Fundamental Calcula Calcula Calcula Calcula	H H H and Edge Signary emission lever emission emissi	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer dge Measurer	1MHz RBW: 1MHz RBW: Mer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR PR PR PR PR PR PR PR	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m	1.0 1.0 1.0 Peak Meas Average Me - this can object with Margin -6.6 -16.5 Using 100k Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I only be used in 2MHz of b Level 47.4 57.5 Hz delta value	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330 460 MHz F	93.7 103.4 Restricted Barricted Bar	emission lever ted Band-Edurated Band-Edurat	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1 49.0	260 260 V 103.8 93.4 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	1.0 1.0 1.0 Peak Meas Average Me - this can object with Margin -6.6 -16.5 Using 100k Using 100k	RB 1 MHz;\v RB 1 MHz;\v RB 1 MHz;\v urement (RB= easurement (I only be used in 2MHz of b Level 47.4 57.5 Hz delta value Hz delta value Comments	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector Avg Pk





Client:	Intel Corpora	ation						Job Number:	J80050	
Model:	62205ANHM	NW (Intel® C	entrino® Adv	/anced-N 62	05)			Log Number:		
			CHUIIIO AC	7411004-14 021			Acco	unt Manager:	Christine Kr	ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Run #6d, E	UT on Chanr	nel #140 570	00MHz - n 20	MHz, Chain	A+B					
					Power	Settings				
			(dBm)			Measure	ed (dBm)	_	Software	e Setting
Chain	Α	В	С	Total	Α	В	С	Total		
	13.5	13.5		16.5	13.4	13.6		16.5	25.0	/25.0
	tal Ciamal Fis	dal Chua marth								
Frequency	tal Signal Fie Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	Comments		
	93.6	V	-	- Iviaigiii	AVG	151	1.1	RR 1 MHz·\	/R 10 Hz·Pk	
5603 570	33.0	V	_	_	710	101		RB 1 MHz;VB 10 Hz;Pk RB 1 MHz;VB 3 MHz;Pk		
5693.570		V	_	_	PK	151	1 1 1	RR 1 MHz·\	/B 3 MHz·Pk	
5702.700	103.7	V	-	-	PK AVG	151 129	1.1			
5702.700 5706.630 5702.730		H H	- - gnal Radiate	- - ed Field Stre	AVG PK ength - Mark	129 129 er Delta	1.1	RB 1 MHz;\		
5702.700 5706.630 5702.730 5725 MHz F	103.7 92.4 102.0 Restricted Ba	H H and Edge Si			AVG PK ength - Marke	129 129	1.1 1.1	RB 1 MHz;\\ RB 1 MHz;\	/B 10 Hz;Pk /B 3 MHz;Pk	
5702.700 5706.630 5702.730 5725 MHz F	103.7 92.4 102.0	H H and Edge Si	vel @ 3m in	1MHz RBW:	AVG PK ength - Mark	129 129 er Delta V	1.1 1.1 Peak Meas	RB 1 MHz;\	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz)	
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Ba	H H and Edge Si	vel @ 3m in vel @ 3m in	1MHz RBW:	AVG PK ength - Marke H 102.0	129 129 er Delta V 103.7 93.6	1.1 1.1 Peak Meas Average Mo	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	B=10Hz)
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Ba Fundamental	H H and Edge Signal emission level emission level	vel @ 3m in vel @ 3m in	1MHz RBW: 1MHz RBW: cer - 100kHz	AVG PK ength - Marke H 102.0 92.4 41.8	129 129 er Delta V 103.7 93.6	1.1 1.1 Peak Meas Average Mo	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (IRB:	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	B=10Hz)
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental	H H and Edge Signature emission level emission emis	vel @ 3m in vel @ 3m in Delta Mark	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak):	AVG PK ength - Mark H 102.0 92.4 41.8 61.9	129 129 er Delta V 103.7 93.6	1.1 1.1 Peak Meas Average Mo	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (lonly be used	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	B=10Hz) signal is
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental	H H and Edge Signary emission level emission level ed Band-Edge ended en	vel @ 3m in vel @	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg):	AVG PK ength - Mark H 102.0 92.4 41.8 61.9	129 129 er Delta V 103.7 93.6 dB dBuV/m dBuV/m	1.1 1.1 Peak Meas Average Meas this can highest with	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I only be used	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	B=10Hz) signal is
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental	H H H emission level emission level ted Band-Edeted Band-Edete	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Mark H 102.0 92.4 41.8 61.9 51.8	129 129 er Delta V 103.7 93.6 dB dBuV/m dBuV/m	1.1 1.1 Peak Meas Average Mo - this can highest with Margin	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I only be used hin 2MHz of b	B 10 Hz;Pk (B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit	B=10Hz) signal is Detecto
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Base Fundamental Fundamental Calculat Calculat Calculat	H H H and Edge Signary emission lever emission emis	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - 2 ge Measurer	1MHz RBW: 1MHz RBW: 1MHz RBW: (er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	AVG PK ength - Marke H 102.0 92.4 41.8 61.9 51.8 37.9 40.3 65.8	129 129 er Delta V 103.7 93.6 dB dBuV/m dBuV/m dB dB dB dB	1.1 1.1 Peak Meas Average Meas Average Meas - this can highest with Margin -16.5 -26.4 Using 100k	urement (RB: easurement (I only be used in 2MHz of b Level 51.8 61.9 Hz delta value	WB 10 Hz;Pk WB 3 MHz;Pk EVB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detector
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Base Fundamental Fundamental Calculat Calculat Calculat	H H H and Edge Signary emission lever emission emis	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	1MHz RBW: 1MHz RBW: 1MHz RBW: (er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	AVG PK ength - Marke H 102.0 92.4 41.8 61.9 51.8 37.9 40.3 65.8	129 129 Per Delta V 103.7 93.6 dB dBuV/m dBuV/m dB	1.1 1.1 Peak Meas Average Meas Average Meas - this can highest with Margin -16.5 -26.4 Using 100k	urement (RBseasurement (Incomply be used bein 2MHz of bein 21.8 61.9	WB 10 Hz;Pk WB 3 MHz;Pk EVB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detector
5702.700 5706.630 5702.730	103.7 92.4 102.0 Restricted Base Fundamental Fundamental Calculat Calculat Calculat Calculat	H H H emission level emission emissi	vel @ 3m in vel @	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR 102.0 92.4 41.8 61.9 51.8 37.9 40.3 65.8 53.3	129 129 V 103.7 93.6 dB dBuV/m dBuV/m dB dBuV/m dB	1.1 1.1 Peak Meas Average Meas	urement (RB: easurement (IRB: only be used nin 2MHz of b Level 51.8 61.9 Hz delta value Hz delta value	WB 10 Hz;Pk WB 3 MHz;Pk EVB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detector
5702.700 5706.630 5702.730 5725 MHz F	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental Calcula Calcula Calcula Level	emission lever emission emissi	vel @ 3m in vel @ 3m in Delta Mark ge Measure dge Measure ta Marker - 1 Ita Marker - 2 ge Measure dge Measure fge Measure	1MHz RBW: 1MHz RBW: 1MHz RBW: (er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR 102.0 92.4 41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector	129 129 Per Delta V 103.7 93.6 dB dBuV/m dBuV/m dB dB dBuV/m dB dB dBuV/m dBuV/m dBuV/m	Peak Meas Average Mo - this can highest with Margin -16.5 -26.4 Using 100k Using 100k	urement (RB: easurement (I only be used in 2MHz of b Level 51.8 61.9 Hz delta value	WB 10 Hz;Pk WB 3 MHz;Pk EVB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detector
5702.700 5706.630 5702.730 5725 MHz F	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental Calcula Calcula Calcula Level dBµV/m	H H H H and Edge Signary emission leverage emission emiss	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - 2 ge Measurer dge Measurer dge Measurer Limit	1MHz RBW: 1MHz RBW: 1MHz RBW: 1000000000000000000000000000000000000	AVG PK PR PR PR PR PR PR PR PR PR	129 129 V 103.7 93.6 dB dBuV/m dBuV/m dB dBuV/m dB	1.1 1.1 Peak Meas Average Meas	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (I only be used nin 2MHz of b Level 51.8 61.9 Hz delta valu Hz delta valu Comments	WB 10 Hz;Pk WB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detecto Avg Pk
5702.700 5706.630 5702.730 5725 MHz F	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental Calcula Calcula Calcula Level	emission lever emission emissi	vel @ 3m in vel @ 3m in Delta Mark ge Measure dge Measure ta Marker - 1 Ita Marker - 2 ge Measure dge Measure fge Measure	1MHz RBW: 1MHz RBW: 1MHz RBW: (er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR 102.0 92.4 41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector	129 129 Per Delta V 103.7 93.6 dB dBuV/m dBuV/m dB dB dBuV/m dB dB dBuV/m dBuV/m dBuV/m	Peak Meas Average Mo - this can highest with Margin -16.5 -26.4 Using 100k Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (I only be used nin 2MHz of b Level 51.8 61.9 Hz delta valu Hz delta valu Comments	WB 10 Hz;Pk WB 3 MHz;Pk EVB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detector Avg Pk
5702.700 5706.630 5702.730 5725 MHz F Frequency MHz 5728.667	103.7 92.4 102.0 Restricted Ba Fundamental Fundamental Calcula Calcula Calcula Level dBµV/m	H H H H H emission level emission	vel @ 3m in vel @ 4m in vel @	1MHz RBW: 1MHz RBW: 1MHz RBW: 1000000000000000000000000000000000000	AVG PK PR PR PR PR PR PR PR PR PR	129 129 Per Delta V 103.7 93.6 dB dBuV/m dBuV/m dB dB dBuV/m dB dB dBuV/m dBuV/m dBuV/m	Peak Meas Average Mo - this can highest with Margin -16.5 -26.4 Using 100k Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (I only be used nin 2MHz of b Level 51.8 61.9 Hz delta valu Hz delta valu Comments	WB 10 Hz;Pk WB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 68.3 88.3 e	B=10Hz) signal is Detecto Avg Pk



An AZAS company

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 7, Band Edge Field Strength - 802.11a, Chain B Run # 7a, EUT on Channel #36 5180MHz - 802.11a, Chain B

Date of Test: 8/5/2010 Test Location: Test Engineer: Mehran Birgani Config Change: none

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.0	16.2	20.5

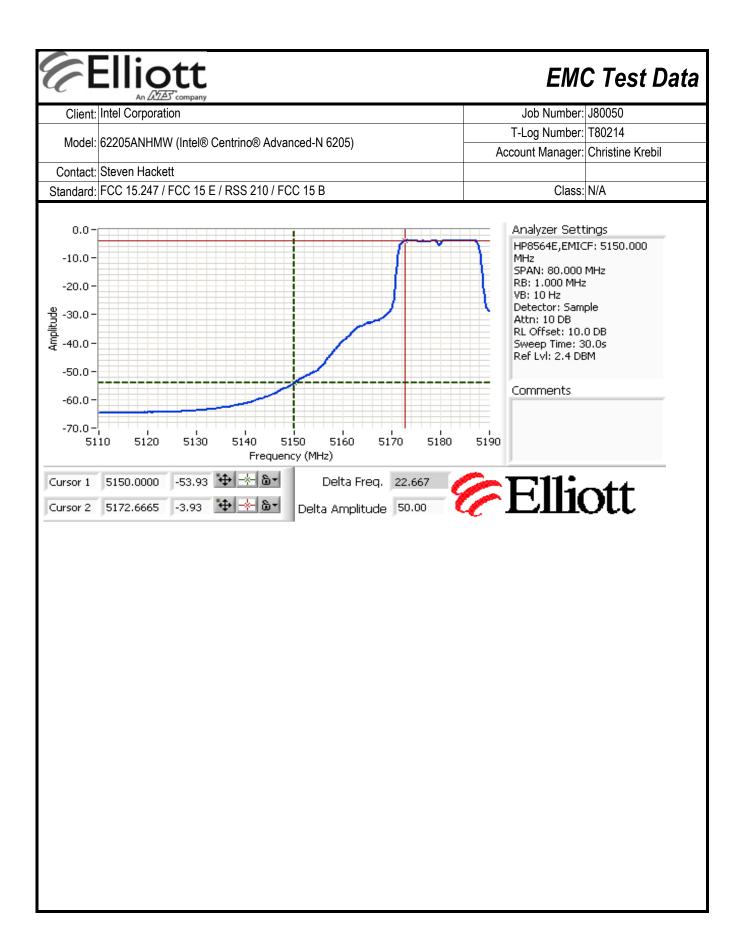
Fundamental Signal Field Strength

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5173.130	98.0	V	-	-	AVG	159	1.1	RB 1 MHz;VB 10 Hz;Pk
5173.000	106.4	V	-	-	PK	159	1.1	RB 1 MHz;VB 3 MHz;Pk
5186.300	96.9	Н	-	-	AVG	116	1.1	RB 1 MHz;VB 10 Hz;Pk
5182.130	105.0	Н	-	-	PK	116	1.1	RB 1 MHz;VB 3 MHz;Pk

5150 MHz Band Edge Signal Radiated Field Strength - Marker Delta

Н	V				
105.0	106.4	Peak Measu	rement (RB=	VB=1MHz)	
96.9	98.0	Average Measurement (RB=1MHz, VB=10Hz)			
49.8	dB	<- this can only be used if band edge signal is			signal is
56.6	dBuV/m	highest within 2MHz of band edge.			
48.2	48.2 dBuV/m		Level	Limit	Detector
44.7	44.7 dB		48.0	54	Avg
50.0	50.0 dB		56.6	74	Pk
	dBuV/m	Using 100kHz delta value			
48.0	dBuV/m				
	96.9 49.8 56.6 48.2 44.7 50.0 61.7	96.9 98.0 49.8 dB 56.6 dBuV/m 48.2 dBuV/m 44.7 dB 50.0 dB 61.7 dBuV/m	96.9 98.0 Average Mea 49.8 dB <- this can o	96.9 98.0 Average Measurement (F 49.8 dB <- this can only be used in highest within 2MHz of both and hight within 2MHz of both and highest withi	96.9 98.0 Average Measurement (RB=1MHz, V 49.8 dB <- this can only be used if band edge highest within 2MHz of band edge.

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	48.0	-	54.0	-6.0	Avg	1	-	Using 1MHz delta value



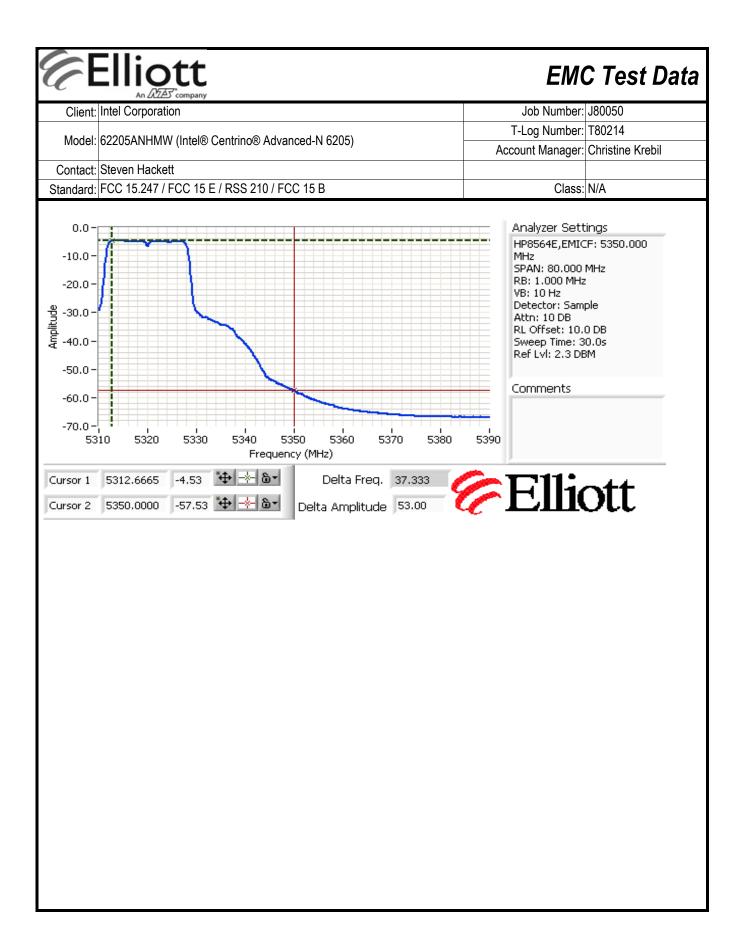
	Ellic	ott Æ company						EMO	C Test	Data
Client:	Intel Corpor	ation					,	Job Number:	J80050	
							T-I	Log Number:	T80214	
Model:	62205ANH	MW (Intel® C	entrino® Adv	/anced-N 620	05)			unt Manager:		ebil
Contact:	Steven Hac	kett								
		7 / FCC 15 E /	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Otanaara.	1 00 10.211	71001027	1100 2107	00 10 5				0.000.		
. [Date of Test:	nnel #64 5320 8/5/2010 Mehran Birg		11a, Chain B	Te	est Location: ofig Change:				
	Powe									
Target (dBm)					ed (dBm)	Softwar	e Setting			
	Chain B 16.0					5.9	21.5			
Fundament	tal Signal Fi	eld Strength								
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5312.970	95.7	V	-	-	AVG	148	1.4	RB 1 MHz;V		
5312.970	103.8	V	-	-	PK	148	1.4		B 3 MHz;Pk	
5326.170	96.1	Н	-	-	AVG	121	1.1	RB 1 MHz;V		
5326.870	104.1	Н	-	-	PK	121	1.1	RB 1 MHz;V	B 3 MHz;Pk	
E0E0 MII- F	Dand Edua C	Namel Dedict	tad Field C4.	ramarth Marri	kan Dalta					
OSOU WITZ E	sana Eage S	Signal Radiat	ea Fiela Sti	engtn - wari	Ker Deita H	V	1			
	Fundamenta	l emission lev	(al @ 3m in	1MUz DRW:	104.1	103.8	Poak Moasi	urement (RB=	-\/D-1MU-\	
		l emission le			96.1	95.7		easurement (F	,	D-10H-\
	i unuamenta	i ciriissiori ic		er - 100kHz	52.3			only be used		
	Calcula	ted Band-Ed				dBuV/m		in 2MHz of b	_	Signal is
	Calcu	lated Band-Ed	dge Measure	ement (Ava):		dBuV/m	Margin	Level	Limit	Detector
	5554		ta Marker - 1		46.7		-10.9	43.1	54	Avg
			Ita Marker -		53.0		-22.2	51.8	74	Pk
	Calcula	ited Band-Ed				dBuV/m		Iz delta value		1
		lated Band E				dDu\//m	Using 1MH			

Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	43.1	-	54.0	-10.9	Avg	-	-	Using 1MHz delta value

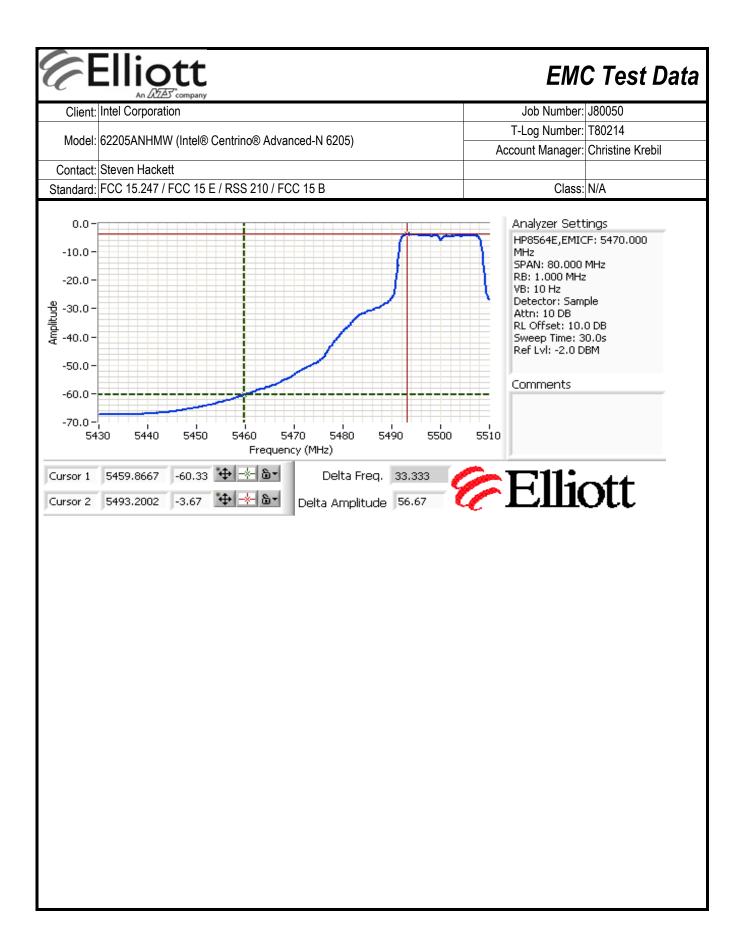
43.1 dBuV/m

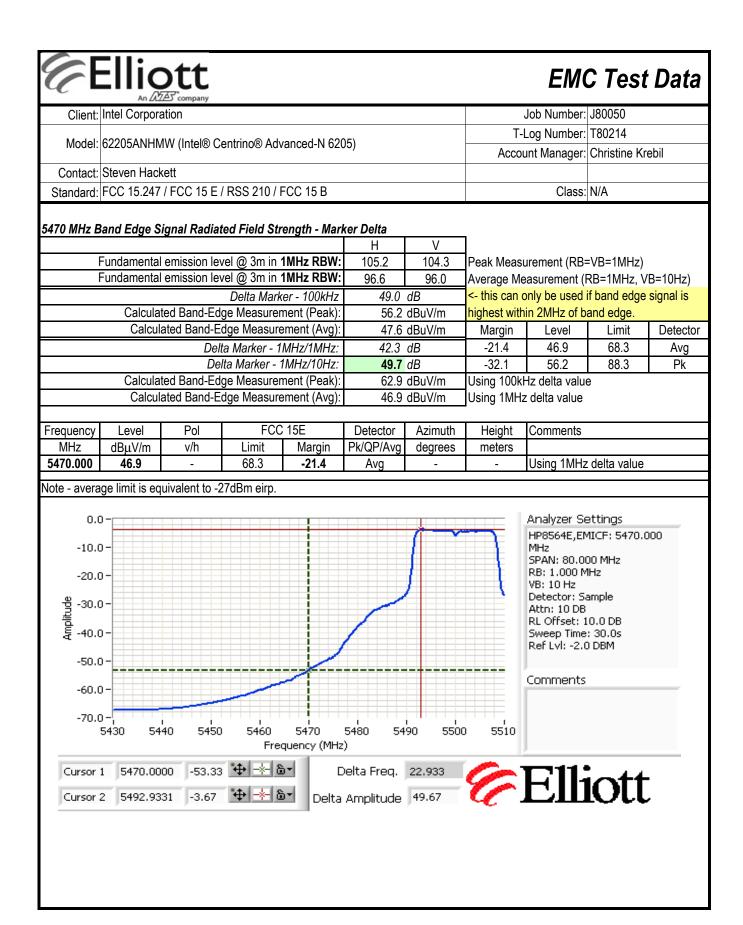
Calculated Band-Edge Measurement (Avg):

Using 1MHz delta value

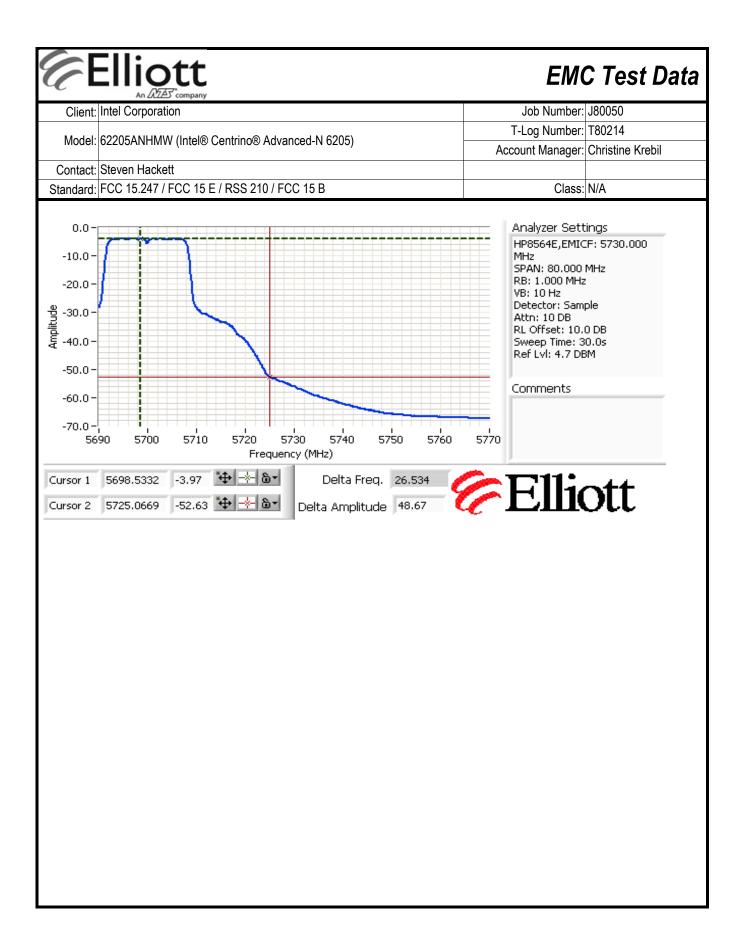


	Intel Corpora	ation						Job Number:	J80050	
Madal	COOOEANIIIA	1\1\1\1\n\1\n\1\n\1\n\1\n\1\n\1\n\1\n\1	tuin A d.	ranged NLCO	05)		T-	Log Number:	T80214	
Model:	622U5ANHN	/IW (Intel® C	entrino® Adv	/anced-IN 620	05)		Acco	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	kett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	-CC 15 B				Class:	N/A	
Run # 7c, E	UT on Chan	nel #100 550	00MHz - 802	.11a, Chain	В					
					Power	Settings				
				(dBm)	Measure	, ,		e Setting		
		Chain B	16	3.5	16	5.7	24.5			
undament	al Signal Fie	eld Strength								
requency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5493.200	96.0	V	-	-	AVG	156	1.0	RB 1 MHz;V		
5493.500	104.3	V	-	-	PK	156	1.0	RB 1 MHz;VB 3 MHz;Pk		
5493.270	96.6	Н	-	-	AVG	114	1.1	RB 1 MHz;VB 10 Hz;Pk		
5493.500	105.2	Н	-	-	PK	114	1.1	RB 1 MHz;V	B 3 MHz;Pk	
/60 MU- E	Postriotod D	and Edga Si	anal Dadiate	nd Eiold Str	ength - Marke	or Dolta				
700 1911 12 1	lestricted De	and Luge on	gilai Naulate	a i ieia sii e	H H	V]			
	Fundamental	l emission lev	/el @ 3m in	1MHz RBW:		104.3	Peak Meas	urement (RB=	VB=1MHz)	
		emission lev				96.0	-1	easurement (F	,	B=10Hz)
				er - 100kHz		dB		only be used i		,
	Calcula	ted Band-Ed	ge Measurer	nent (Peak):		dBuV/m		in 2MHz of b	_	
		ated Band-E	•	, ,		dBuV/m	Margin	Level	Limit	Detecto
		Delt	ta Marker - 1	MHz/1MHz:	49.0		-14.1	39.9	54	Avg
			lta Marker - 1		56.7		-25.1	48.9	74	Pk
	Calcula	ted Band-Ed				dBuV/m		Hz delta value		
		ated Band-E					Using 1MH:			
	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments		
reguency		v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	Comments		
Frequency MHz	dBμV/m				S. // 9	#59,000	meters Using 1MHz delta value			





Client: II	ntel Corpora	tion						Job Number:		
Model: 6	2205ANHM	W (Intel® Ce	entrino® Adv	anced-N 62	05)			Log Number:		. 1. 21
Cantacti	Steven Hack	· · · · · · · · · · · · · · · · · · ·					Acco	Account Manager: Christine Krebil		
		ett / FCC 15 E /	DSS 210 / I	FCC 15 B				Class:	NI/A	
		nel #140 570			В					
	Г				Power	Settings				
				(dBm)	Measure	, ,		e Setting		
		Chain B	16	3.5	16	5.5	2	5.0		
undamental	l Signal Fie	ld Strenath								
requency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
706.230	94.2	٧	-	-	AVG	250	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
702.370	102.5	V	-	-	PK	250	1.0	RB 1 MHz;V	B 3 MHz;Pk	
706.900	95.2	Н	-	-	AVG	136	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
703.030	103.3	Н	-	-	PK	136	1.0	RB 1 MHz;V	B 3 MHz;Pk	
		emission lev emission lev	el @ 3m in	1MHz RBW:		V 102.5 94.2	Average Me	urement (RB= easurement (F	RB=1MHz, V	
	<u> </u>			er - 100kHz	47.0			only be used	•	signal is
		ed Band-Edg				dBuV/m	-	nin 2MHz of b		
	Calcula	ated Band-Ed		ν σ,		dBuV/m	Margin	Level	Limit	Detec
		D ~ I #	a Marker - 1	MHz/1MHz:	41.5		-21.8	46.5	68.3	Avg
						۸D	-32.0	56.3	88.3	Pk
	0.1.1.1	Del	ta Marker - 1		48.7					
		<i>Del</i> ed Band-Edo	ge Measurer	ment (Peak):	61.8	dBuV/m	_	Hz delta value	e	
		Del	ge Measurer	ment (Peak):	61.8		_	Hz delta value z delta value	e	
	Calcula Level	Del ed Band-Edg ated Band-Ed Pol	ge Measurer dge Measure	nent (Peak):	61.8 46.5 Detector	dBuV/m	Using 1MH:		9	
MHz	Calcula Level dBµV/m	Del ed Band-Edg ated Band-Ed	ge Measurer dge Measure FCC Limit	ment (Peak): ement (Avg): 3 15E Margin	61.8 46.5 Detector Pk/QP/Avg	dBuV/m dBuV/m	Using 1MH	z delta value Comments		
requency MHz 5725.067	Calcula Level	Del ed Band-Edg ated Band-Ed Pol	ge Measurer dge Measure FCC	ment (Peak): ement (Avg): 215E	61.8 46.5 Detector	dBuV/m dBuV/m Azimuth	Using 1MH:	z delta value		





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANT INVV (ITILEI® CETITITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 and FCC 15.E (NII) Radiated Emissions

Summary of Results

MAC Address: 001500633B14 DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

/					5: : 5: 5: 5: 5: : 5: 6: 6: 6: E				
Run#	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin		
First set of n	neasurement	s - center ch	annel in eacl	h band to det	ermine which mode has t	he highest emissions. SI	SO modes evaluated at		
the same per chain power as the highest single chain power to cover both MIMO & SISO operation.									
		#46	A: 16.0	A: 16.1			38.4dBµV/m @		
		5230MHz	B: 16.0	B: 15.9			2485.0MHz (-15.6dB)		
Run # 1	n40	#62	A: 16.0	A: 16.1	Radiated Emissions,	FCC 15.209 / 15 E	43.0dBµV/m @		
Rull# I	Chain A+B	5310MHz	B: 16.0	B: 16.0	1 - 40 GHz	FGC 15.2097 15 E	10621.2MHz (-11.0dB)		
		#118	A: 16.5	A: 16.4			42.7dBµV/m @		
		5590MHz	B: 16.5	B: 16.5			11178.6MHz (-11.3dB)		
		#40	A: 16.0	A: 16.1			44.3dBµV/m @		
		5200MHz	B: 16.0	B: 16.0			7500.1MHz (-9.7dB)		
Run # 2	n20	#60	A: 16.5	A: 16.5	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	43.8dBµV/m @		
Rull # Z	Chain A+B	5300MHz	B: 16.5	B: 16.4		FGC 15.2097 15 E	10600.7MHz (-10.2dB)		
		#120	A: 16.5	A: 16.7			45.8dBµV/m @		
		5600MHz	B: 16.5	B: 16.5			11199.1MHz (-8.2dB)		
		#40	16.0	16.3			42.9dBµV/m @		
		5200MHz	16.0	10.3			7500.1MHz (-11.1dB)		
	802.11a	#60	46.0	16.1	Radiated Emissions,	FCC 15.209 / 15 E	42.2dBµV/m @		
	Chain A	5300MHz	16.0	10.1	1 - 40 GHz	FCC 15.2097 15 E	7500.0MHz (-11.8dB)		
		#120	4C F	16.6			47.5dBµV/m @		
Run # 3		5600MHz	16.5	10.0			11200.2MHz (-6.5dB)		
Kull#3		#40	16.0	16.2			44.0dBµV/m @		
		5200MHz	10.0	10.2			7500.0MHz (-10.0dB)		
	802.11a	#60	16.0	16.2	Radiated Emissions,	F00 4F 000 / 4F F	44.0dBµV/m @		
	Chain B	5300MHz	10.0	10.2	1 - 40 GHz	FCC 15.209 / 15 E	7500.1MHz (-10.2dB)		
		#120	16.5	16.6			44.4dBµV/m @		
		5600MHz					7500.1MHz (-9.6dB)		
Final measu	rements bas	ed on center	channel mea	asurements i	n each band. 802.11n 20I	MHz mode was worst cas	e in the 5150-5250 and		
5250-5350 I	MHz bands.								
		#36	A: 16.0	A: 16.0			43.7dBµV/m @		
Run # 4	n20	5180MHz	B: 16.0	B: 15.9	Radiated Emissions,	FCC 15.209 / 15 E	7500.1MHz (-10.3dB)		
IXUIIπ T	Chain A+B	#48	A: 16.0	A: 16.0	1 - 40 GHz	100 10.2007 10 L	45.4dBµV/m @		
		5240MHz	B: 16.0	B: 15.9			10478.9MHz (-22.9dB)		
		#52	A: 16.0	A: 15.9			44.7dBµV/m @		
Run # 4	n20	5260MHz	B: 16.0	B: 16.1	Radiated Emissions,	FCC 15.209 / 15 E	10519.2MHz (-23.6dB)		
TOT I	Chain A+B	#64	A: 16.0	A: 15.9	1 - 40 GHz	1 00 10.2097 10 E	44.9dBµV/m @		
		5320MHz	B: 16.0	B: 15.8			10639.6MHz (-9.1dB)		



42.8dBµV/m @

11400.0MHz (-11.2dB)

Client:	Intel Corporation	Job Number:	J80050
Madal	000054411441411111111111111111111111111	T-Log Number:	T80214
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Final measurements based on center channel measurements in each band. 802.11a was worst case in the 5470-5725MHz band. Target Measured Run# Mode Channel Test Performed Limit Result / Margin Power Power 41.2dBµV/m @ #100 16.5 16.5 802.11a 5500MHz Radiated Emissions. 10996.9MHz (-12.8dB) Run #4 FCC 15.209 / 15 E Chain A #140 1 - 40 GHz 42.2dBµV/m @ 16.5 16.4 5700MHz 11399.8MHz (-11.8dB) 47.7dBµV/m @ #100 16.5 16.5 802.11a 5500MHz Radiated Emissions. 11000.3MHz (-6.3dB) Run #4 FCC 15.209 / 15 E

1 - 40 GHz

Note - the target and measured power are average powers (measured with average power sensor) and are used for reference purposes only. Power is set using " GAIN CONTROL" mode in the DRTU tool.

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

Chain B

The EUT ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

16.5

16.5

Ambient Conditions: Rel. Humidity: 15 - 55 %

Temperature: 18 - 25 °C

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.

#140

5700MHz



Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1, Radiated Spurious Emissions, 1-40GHz, n40, Chain A+B

Date of Test: 8/9/2010 Test Location: FT Chamber #5

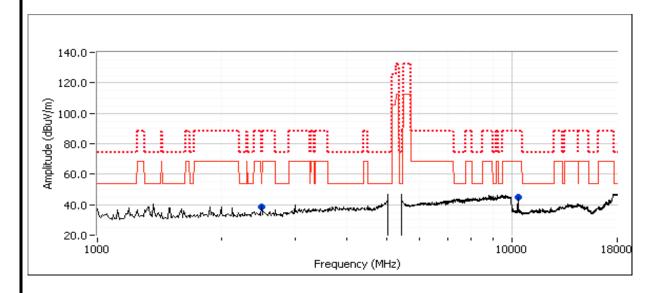
Test Engineer: Rafael Varelas Config Change: none

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 1a: EUT on Channel #46 5230MHz - n40, Chain A+B

		Power Settings									
		Target	(dBm)		Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Chain	16.0	16.0		19.0	16.1	15.9		19.0	24.5/24.5		

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2485.000	38.4	V	54.0	-15.6	Peak	321	1.3	
10453.330	45.0	V	68.3	-23.3	Peak	360	1.3	



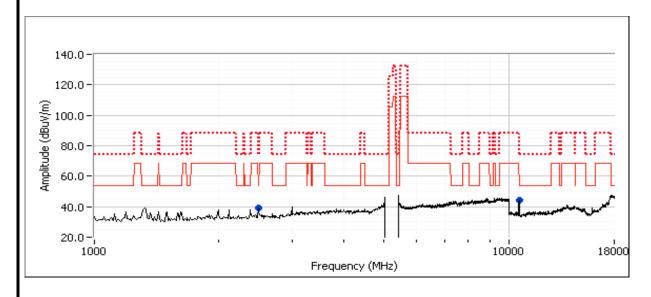


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b: EUT on Channel #62 5310MHz - n40, Chain A+B

		Power Settings									
	Target (dBm)				Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
	16.5	16.5		19.5	16.1	16.0		19.1	25.5/26.5		

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10621.220	43.0	V	54.0	-11.0	AVG	0	1.0	MHz;VB 10 Hz;Pk
10621.120	55.3	V	74.0	-18.7	PK	0	1.0	MHz;VB 3 MHz;Pk
2485.000	39.2	V	54.0	-14.8	Peak	318	1.3	



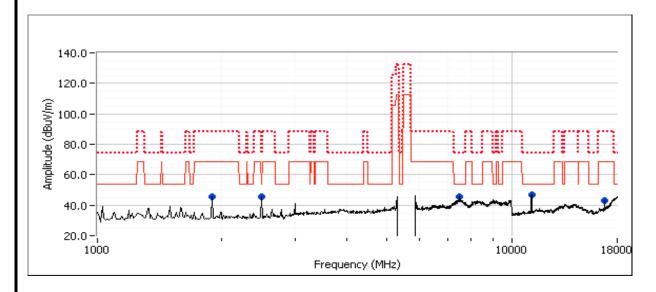


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1c: EUT on Channel #118 5590MHz - n40, Chain A+B

		Power Settings									
		Target	(dBm)		Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Chain	16.5	16.5		19.5	16.4	16.5		19.5	30.5/31.0		

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
11178.580	42.7	V	54.0	-11.3	AVG	226	1.0	RB 1 MHz;VB 10 Hz;Pk			
11178.880	54.3	V	74.0	-19.7	PK	226	1.0	RB 1 MHz;VB 3 MHz;Pk			
2489.940	36.8	V	54.0	-17.2	AVG	143	1.4	RB 1 MHz;VB 10 Hz;Pk			
2490.910	52.7	V	74.0	-21.3	PK	143	1.4	RB 1 MHz;VB 3 MHz;Pk			
7500.010	42.3	V	54.0	-11.7	AVG	254	1.0	RB 1 MHz;VB 10 Hz;Pk			
7500.080	50.8	V	74.0	-23.2	PK	254	1.0	RB 1 MHz;VB 3 MHz;Pk			
1889.170	45.4	V	68.3	-22.9	Peak	110	1.6				
16773.330	42.7	Н	68.3	-25.6	Peak	144	1.0				





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Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANHIVIV (III.el® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2, Radiated Spurious Emissions, 1-40GHz, n20, Chain A+B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change:

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

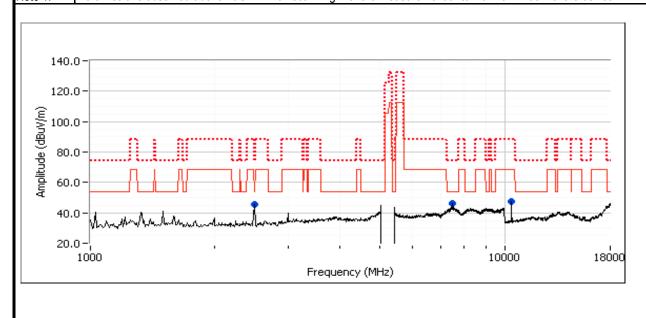
Run # 2a: EUT on Channel #40 5200MHz - n20, Chain A+B

		Power Settings									
	Target (dBm)				Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Criairi	16.0	16.0		19.0	16.1	16.0		19.1	24.0/24.0		

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	44.3	V	54.0	-9.7	AVG	318	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.130	51.1	V	74.0	-22.9	PK	318	1.0	RB 1 MHz;VB 3 MHz;Pk
2489.820	37.0	V	54.0	-17.0	AVG	145	1.0	RB 1 MHz;VB 10 Hz;Pk
2489.040	52.9	V	74.0	-21.1	PK	145	1.0	RB 1 MHz;VB 3 MHz;Pk
10386.670	47.6	V	68.3	-20.7	Peak	238	1.0	

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

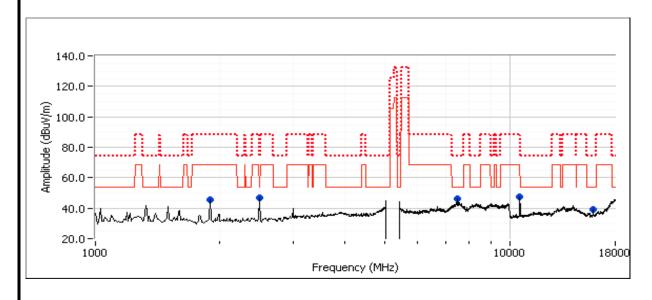
Run # 2b: EUT on Channel #60 5300MHz - n20, Chain A+B

		Power Settings									
	Target (dBm)				Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Chain	16.0	16.0		19.0	16.5	16.4		19.5	25.0/26.0		

Spurious Radiated Emissions:

oparroad re	Sparrous Radiatou Elmosione.									
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
10600.680	43.8	V	54.0	-10.2	AVG	201	1.9	MHz;VB 10 Hz;Pk		
10599.620	55.8	V	88.3	-32.5	PK	201	1.9	MHz;VB 3 MHz;Pk		
1899.420	45.3	V	68.3	-23.0	Peak	159	1.3			
7500.020	43.8	V	54.0	-10.2	AVG	317	1.0	MHz;VB 10 Hz;Pk		
7499.970	50.9	V	74.0	-23.1	PK	317	1.0	MHz;VB 3 MHz;Pk		
2489.840	37.4	V	54.0	-16.6	AVG	147	1.0	MHz;VB 10 Hz;Pk		
2488.910	53.4	V	74.0	-20.6	PK	147	1.0	MHz;VB 3 MHz;Pk		
15906.670	39.0	V	54.0	-15.0	Peak	224	1.0			

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

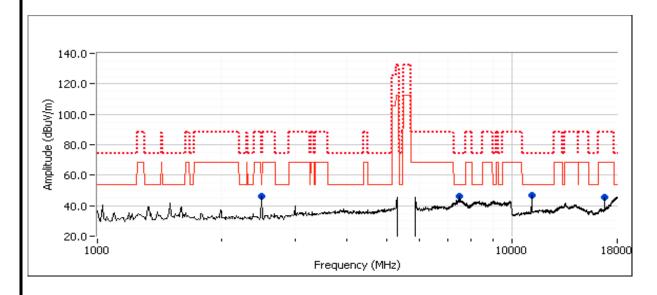
Run # 2c: EUT on Channel #120 5600MHz - n20, Chain A+B

		Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting	
Chain	Chain A B C Total				Α	В	С	Total		
Chain	16.5	16.5		19.5	16.7	16.5		19.6	30.0/30.0	

Spurious Radiated Emissions:

0 0 0 1 1 0 0 0 0 1 1								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11199.130	45.8	V	54.0	-8.2	AVG	225	1.4	RB 1 MHz;VB 10 Hz;Pk
11199.930	60.6	V	74.0	-13.4	PK	225	1.4	RB 1 MHz;VB 3 MHz;Pk
7500.010	42.3	V	54.0	-11.7	AVG	252	1.0	RB 1 MHz;VB 10 Hz;Pk
7499.800	50.1	V	74.0	-23.9	PK	252	1.0	RB 1 MHz;VB 3 MHz;Pk
2496.200	36.1	V	54.0	-17.9	AVG	125	1.0	RB 1 MHz;VB 10 Hz;Pk
2497.060	52.1	V	74.0	-21.9	PK	125	1.0	RB 1 MHz;VB 3 MHz;Pk
16800.000	45.6	Н	68.3	-22.7	Peak	147	1.0	
								·

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





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Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3, Radiated Spurious Emissions, 1-40GHz, 802.11a, Chain A and Chain B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

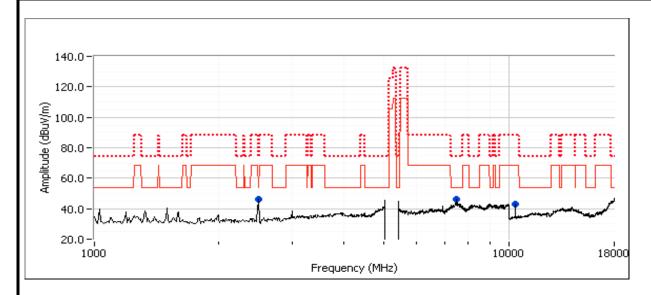
Test Engineer: Rafael Varelas Config Change:

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 3a: EUT on Channel #40 5200MHz - 802.11a, Chain A

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	16.0	16.3	20.5

-								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	42.9	V	54.0	-11.1	AVG	263	1.1	RB 1 MHz;VB 10 Hz;Pk
7499.990	50.8	V	74.0	-23.2	PK	263	1.1	RB 1 MHz;VB 3 MHz;Pk
2490.260	37.4	V	54.0	-16.6	AVG	146	1.0	RB 1 MHz;VB 10 Hz;Pk
2490.630	53.3	V	74.0	-20.7	PK	146	1.0	RB 1 MHz;VB 3 MHz;Pk
10400.000	42.7	V	68.3	-25.6	Peak	292	1.3	



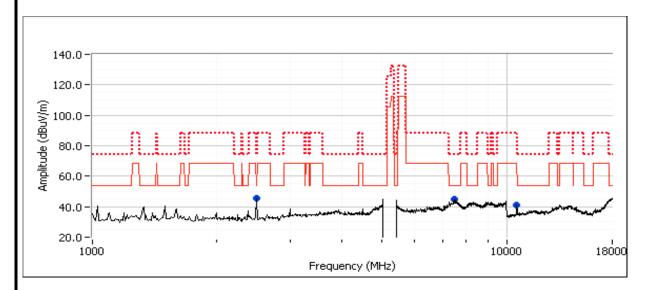


Client:	Intel Corporation	Job Number:	J80050
Madalı	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3b: EUT on Channel #60 5300MHz - 802.11a, Chain A

	Power Settings					
	Target (dBm)	Measured (dBm)	Software Setting			
Chain A	16.0	16.1	20.5			

Spurious N	Spurious Nadiated Linissions.							
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.030	42.2	V	54.0	-11.8	AVG	253	1.0	MHz;VB 10 Hz;Pk
7499.930	51.3	V	74.0	-22.7	PK	253	1.0	MHz;VB 3 MHz;Pk
2496.720	37.4	V	54.0	-16.6	AVG	145	1.0	MHz;VB 10 Hz;Pk
2497.440	53.3	V	74.0	-20.7	PK	145	1.0	MHz;VB 3 MHz;Pk
10600.100	41.6	V	54.0	-12.4	AVG	199	1.2	MHz;VB 10 Hz;Pk
10600.900	52.6	V	74.0	-21.4	PK	199	1.2	MHz;VB 3 MHz;Pk



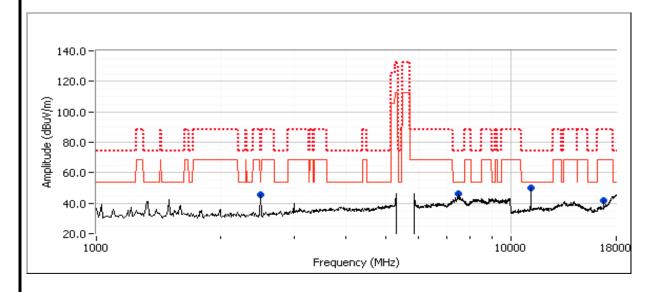


Client:	Intel Corporation	Job Number:	J80050
Madali	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3c: EUT on Channel #120 5600MHz - 802.11a, Chain A

			Power Settings					
		Target (dBm)	Measured (dBm)	Software Setting				
Ī	Chain A	16.5	16.5	24.5				

opurious Radiated Elliissions.								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11200.200	47.5	V	54.0	-6.5	AVG	220	1.5	RB 1 MHz;VB 10 Hz;Pk
11201.800	58.9	V	74.0	-15.1	PK	220	1.5	RB 1 MHz;VB 3 MHz;Pk
7500.010	43.3	V	54.0	-10.7	AVG	262	1.0	RB 1 MHz;VB 10 Hz;Pk
7499.860	51.5	V	74.0	-22.5	PK	262	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.580	35.7	V	54.0	-18.3	AVG	125	1.0	RB 1 MHz;VB 10 Hz;Pk
2495.520	51.5	V	74.0	-22.5	PK	125	1.0	RB 1 MHz;VB 3 MHz;Pk
16800.000	41.8	Н	68.3	-26.5	Peak	146	1.0	



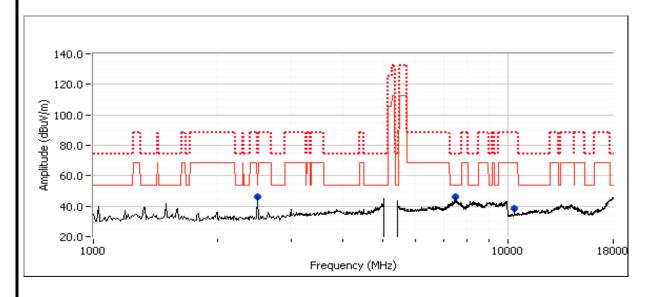


Client:	Intel Corporation	Job Number:	J80050
Madalı	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3d: EUT on Channel #40 5200MHz - 802.11a, Chain B

		Power Settings					
	Target (dBm)	Measured (dBm)	Software Setting				
Chain B	16.0	16.2	20.0				

Frequency	Level	Pol	15.209) / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.010	44.0	V	54.0	-10.0	AVG	78	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.180	51.0	V	74.0	-23.0	PK	78	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.320	37.1	Н	54.0	-16.9	AVG	154	1.0	RB 1 MHz;VB 10 Hz;Pk
2491.450	52.6	Н	74.0	-21.4	PK	154	1.0	RB 1 MHz;VB 3 MHz;Pk
10396.670	38.6	Н	68.3	-29.7	Peak	293	1.3	



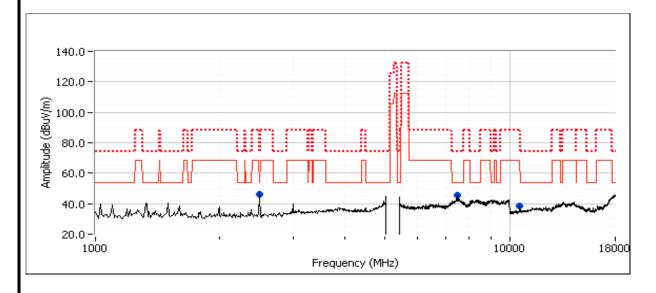


Client:	Intel Corporation	Job Number:	J80050
Madalı	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3e: EUT on Channel #60 5300MHz - 802.11a, Chain B

ſ			Power Settings					
		Target (dBm)	Measured (dBm)	Software Setting				
	Chain B	16.0	16.2	21.5				

oparious in	purious radiated Emissions								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
7500.050	43.8	V	54.0	-10.2	AVG	102	1.0	RB 1 MHz;VB 10 Hz;Pk	
7499.960	51.4	V	74.0	-22.6	PK	102	1.0	RB 1 MHz;VB 3 MHz;Pk	
2490.230	37.9	V	54.0	-16.1	AVG	153	1.0	RB 1 MHz;VB 10 Hz;Pk	
2489.960	54.3	V	74.0	-19.7	PK	153	1.0	RB 1 MHz;VB 3 MHz;Pk	
10600.070	38.8	V	54.0	-15.2	AVG	187	1.1	RB 1 MHz;VB 10 Hz;Pk	
10601.070	49.2	V	74.0	-24.8	PK	187	1.1	RB 1 MHz;VB 3 MHz;Pk	



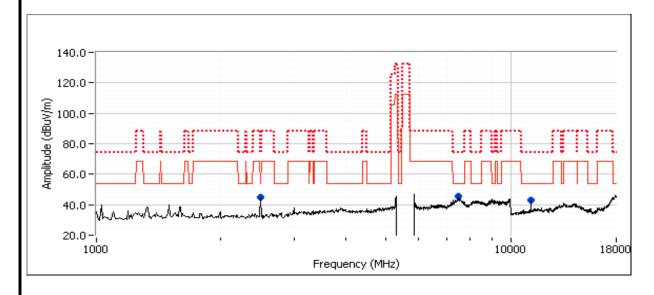


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3f: EUT on Channel #120 5600MHz - 802.11a, Chain B

	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.5	16.6	25.0

oparioac re	opunous radiates Emissioner										
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
7500.050	44.4	V	54.0	-9.6	AVG	264	1.0	RB 1 MHz;VB 10 Hz;Pk			
7499.780	51.5	V	74.0	-22.5	PK	264	1.0	RB 1 MHz;VB 3 MHz;Pk			
2496.460	36.7	V	54.0	-17.3	AVG	152	1.0	RB 1 MHz;VB 10 Hz;Pk			
2498.920	52.2	V	74.0	-21.8	PK	152	1.0	RB 1 MHz;VB 3 MHz;Pk			
11198.090	40.8	V	54.0	-13.2	AVG	227	1.9	RB 1 MHz;VB 10 Hz;Pk			
11193.490	51.5	V	74.0	-22.5	PK	227	1.9	RB 1 MHz;VB 3 MHz;Pk			





10360.000

46.0

EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4, Radiated Spurious Emissions, 1-40GHz, n20, Chain A+B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

68.3

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

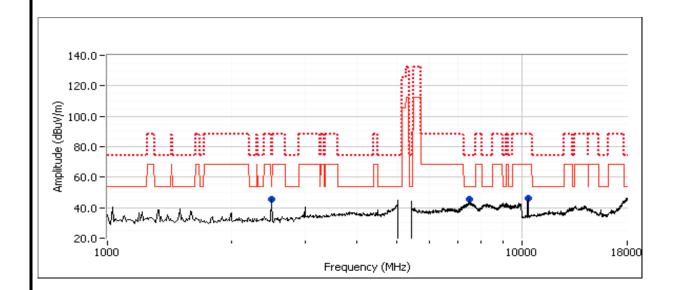
Run # 4a: EUT on Channel #36 5180MHz - n20, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Gilaili	16.0	16.0		19.0	16.0	15.9		19.0	23.5/23.5			
Spurious Radiated Emissions:												
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
7500.120	43.7	V	54.0	-10.3	AVG	254	1.0	RB 1 MHz;V	B 10 Hz;Pk			
7499.950	50.3	V	74.0	-23.7	PK	254	1.0	RB 1 MHz;V	B 3 MHz;Pk			
2489.770	37.5	V	54.0	-16.5	AVG	148	1.0	RB 1 MHz;V	B 10 Hz;Pk			
2488.770	53.4	V	74.0	-20.6	PK	148	1.0	RB 1 MHz;V	B 3 MHz;Pk			

Peak

299

1.3





Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMW (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

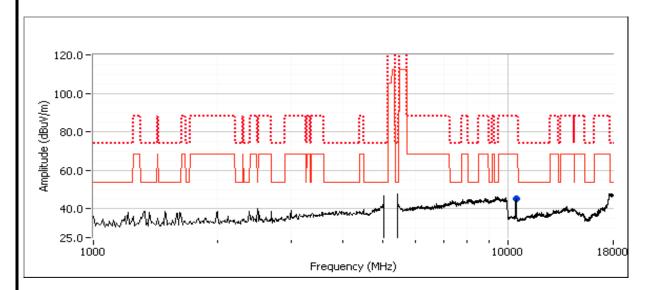
Run # 4b: EUT on Channel #48 5240MHz - n20, Chain A+B

Date of Test: 8/11/2010 Test Location: FT Chamber #3

Test Engineer: Mehran B./Rafael V. Config Change: none

		Power Settings										
	Target (dBm)				Measured (dBm)				Software Setting			
Chain	А	В	С	Total	А	В	С	Total				
Gilalli	16.0	16.0		19.0	16.0	15 9		19.0	24.0 / 25.0			

opulituae it								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10478.900	45.4	V	68.3	-22.9	AVG	189	1.3	RB 1 MHz;VB 10 Hz;Pk
10480.030	59.3	V	88.3	-29.0	PK	189	1.3	RB 1 MHz;VB 3 MHz;Pk



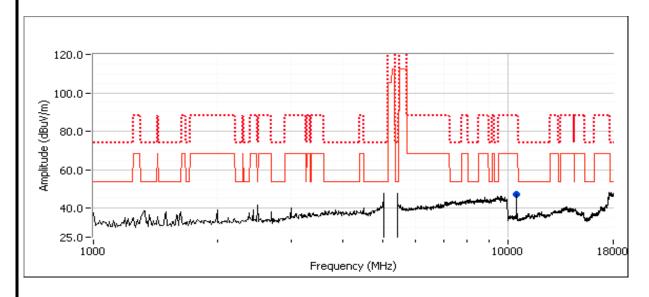


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4c: EUT on Channel #52 5260MHz - n20, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Chain A B C Total				Α	В	С	Total				
Gilaili	Chain 16.0 16.0 19.0 15.9					16.1		19.0	24.0 / 25.5			

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
10519.230	44.7	V	68.3	-23.6	AVG	136	1.3	RB 1 MHz;VB 10 Hz;Pk			
10520.230	57.0	V	88.3	-31.3	PK	136	1.3	RB 1 MHz;VB 3 MHz;Pk			



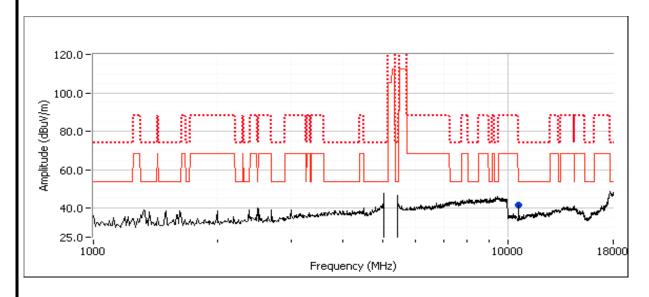


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4d: EUT on Channel #64 5320MHz - n20, Chain A+B

		Power Settings											
		Target	(dBm)		Measured (dBm)				Software Setting				
Chain	Α	В	С	Total	Α	В	С	Total					
Gilaili	16.0	16.0		19.0	15.9	15.8		18.9	24.5 / 26.0				

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
10639.570	44.9	V	54.0	-9.1	AVG	298	1.8	RB 1 MHz;VB 10 Hz;Pk				
10640.170	57.0	V	74.0	-17.0	PK	298	1.8	RB 1 MHz;VB 3 MHz;Pk				



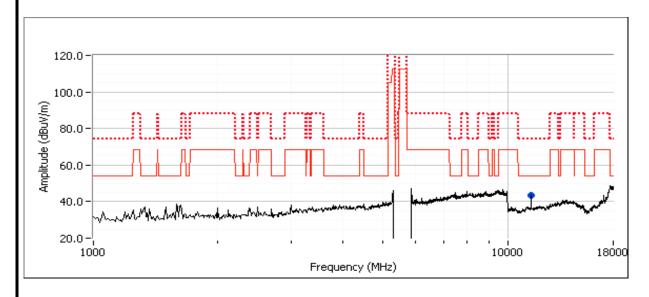


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4e: EUT on Channel #100 5500MHz - 802.11a, Chain A

		Power Settings										
		Target	t (dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Chain	16.5			16.5	16.5			16.5	24.0			

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
10996.930	41.2	Н	54.0	-12.8	AVG	226	1.5	RB 1 MHz;VB 10 Hz;Pk				
10996.930	52.8	Н	74.0	-21.2	PK	226	1.5	RB 1 MHz;VB 3 MHz;Pk				



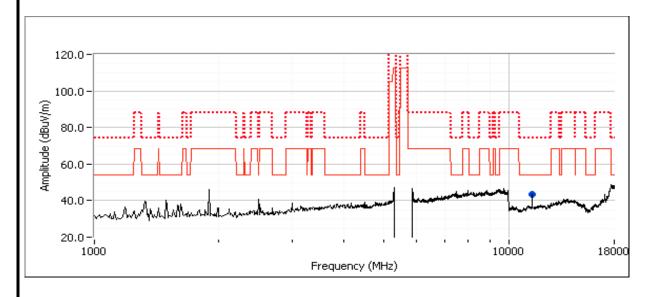


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4f: EUT on Channel #140 5700MHz - 802.11a, Chain A

		Power Settings											
		Target	t (dBm)		Measured (dBm)				Software Setting				
Chain	Α	В	С	Total	Α	В	С	Total					
Gliaili	16.5			16.5	16.4			16.4	25.5				

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11399.800	42.2	Η	54.0	-11.8	AVG	225	1.5	RB 1 MHz;VB 10 Hz;Pk
11396.500	53.9	Н	74.0	-20.1	PK	225	1.5	RB 1 MHz;VB 3 MHz;Pk



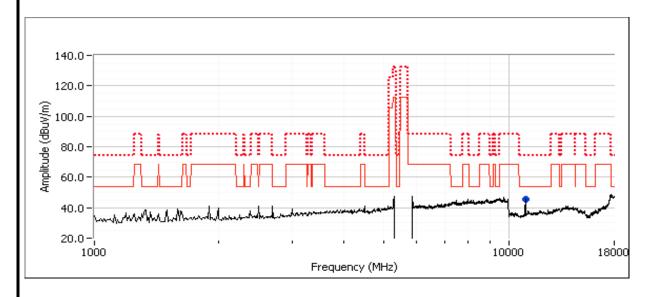


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4g: EUT on Channel #100 5500MHz - 802.11a, Chain B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Chain		16.5		16.5		16.5		16.5	24.5			

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
11000.340	47.7	V	54.0	-6.3	AVG	175	1.9	RB 1 MHz;VB 10 Hz;Pk			
11002.470	59.6	V	74.0	-14.4	PK	175	1.9	RB 1 MHz;VB 3 MHz;Pk			



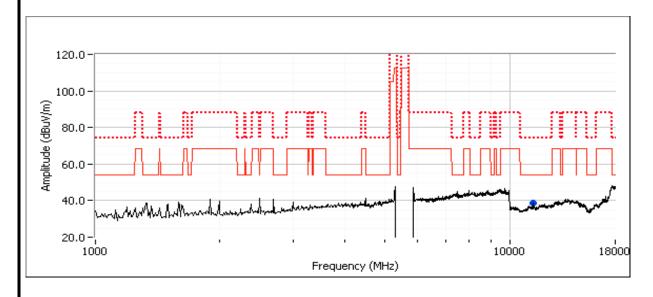


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4h: EUT on Channel #140 5700MHz - 802.11a, Chain B

		Power Settings							
		Target (dBm) Measured (dBm)						Software Setting	
Chain	Α	В	С	Total	Α	В	С	Total	
Cilalii		16.5		16.5		16.5		16.5	25.5

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11400.000	42.8	V	54.0	-11.2	AVG	232	1.3	RB 1 MHz;VB 10 Hz;Pk
11400.770	53.9	V	74.0	-20.1	PK	232	1.3	RB 1 MHz;VB 3 MHz;Pk



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	An 222 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 Receiver Spurious Radiated Emissions (LELAN bands)

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 ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Summary of Results

MAC Address: 001500633B14 DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

Dup#	Mode	Channel	Target	Measured	Test Performed	Limit	Result / Margin				
Run#	Power Power		rest renomieu	LIIIII	i Nesuit / Margin						
Receiver sp	Receiver spurious measurements for the 5.7GHz band indicated that there were no signifcant differences in emissions between Chain B										
and Chain A + B and emissions on Chain A were lower than both Chain B and Chain A+B. Measurements were made with both chains											
active and only repeated on the individual chains for frequencies where the margin was less than 10dB.											
		#40					40.7dBµV/m @				
	ropoivo	5200MHz		-			9520.0MHz (-13.3dB)				
Run # 1	receive	#60			Radiated Emissions,	RSS 210	44.6dBµV/m @				
rtuii# I	mode	5300MHz	-	-	1 - 18 GHz	K00 2 IU	7500.0MHz (-9.4dB)				
	Chain A+B	#120					44.7dBµV/m @				
		5600MHz	-	-			7500.1MHz (-9.3dB)				
		#40					Dual chain had > 10dB				
	receive	5200MHz	_	-	Radiated Emissions,		margin				
Run # 2	mode	#60				RSS 210	44.6dBµV/m @				
IXUII # Z	Chain A	5300MHz	_	•	1 - 18 GHz	1100 210	7500.0MHz (-9.4dB)				
	Oliaili A	#120					44.5dBµV/m @				
		5600MHz		_			7500.0MHz (-9.5dB)				
		#40					Dual chain had > 10dB				
	receive	5200MHz	_	-			margin				
Run # 3	mode	#60			Radiated Emissions,	RSS 210	43.7dBµV/m @				
ruil#3	Chain B	5300MHz		-	1 - 18 GHz	NOO 210	7500.1MHz (-10.3dB)				
	Clidili B	#120					44.4dBµV/m @				
		5600MHz	-	-			7500.0MHz (-9.6dB)				



	An ZZZZZZ company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANHIVIV (III.el® Celillillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Ambient Conditions:

Rel. Humidity: 15 - 55 % Temperature: 18 - 25 °C

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.

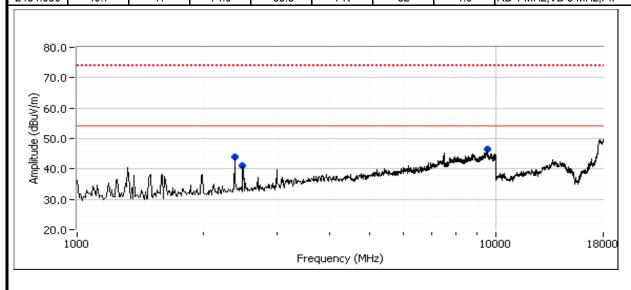
Run # 1, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain A+B

Date of Test: 8/11/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

Run # 1a: EUT on Channel #40 5200MHz - Receive Mode, Chain A+B

Opanoac n		00.00.						
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
9519.950	40.7	V	54.0	-13.3	AVG	61	1.1	RB 1 MHz;VB 10 Hz;Pk
9515.150	51.9	V	74.0	-22.1	PK	61	1.1	RB 1 MHz;VB 3 MHz;Pk
2372.380	29.8	V	54.0	-24.2	AVG	147	1.0	RB 1 MHz;VB 10 Hz;Pk
2372.020	41.6	V	74.0	-32.4	PK	147	1.0	RB 1 MHz;VB 3 MHz;Pk
2487.800	28.9	Н	54.0	-25.1	AVG	32	1.0	RB 1 MHz;VB 10 Hz;Pk
2484.050	40.7	Н	74.0	-33.3	PK	32	1.0	RB 1 MHz:VB 3 MHz:Pk

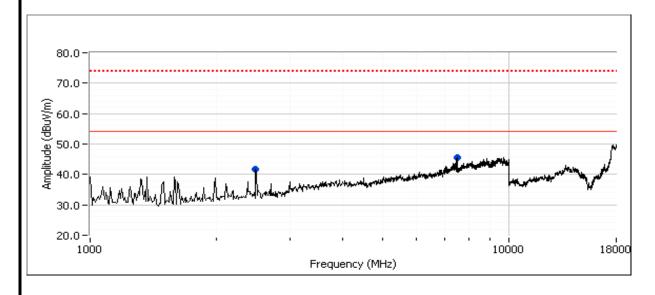




	All Dates Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b: EUT on Channel #60 5300MHz - Receive Mode, Chain A+B

Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.030	44.6	V	54.0	-9.4	AVG	87	1.0	RB 1 MHz;VB 10 Hz;Pk
7499.630	51.3	V	74.0	-22.7	PK	87	1.0	RB 1 MHz;VB 3 MHz;Pk
2489.800	33.7	V	54.0	-20.3	AVG	146	1.0	RB 1 MHz;VB 10 Hz;Pk
2495.700	50.8	V	74.0	-23.2	PK	146	1.0	RB 1 MHz;VB 3 MHz;Pk

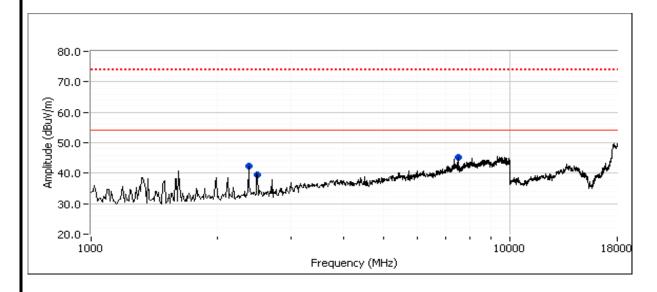




Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1c: EUT on Channel #120 5600MHz - Receive Mode, Chain A+B

Frequency	Level	Pol	RSS	3210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	44.7	V	54.0	-9.3	AVG	87	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.620	52.9	V	74.0	-21.1	PK	87	1.0	RB 1 MHz;VB 3 MHz;Pk
2378.160	29.8	V	54.0	-24.2	AVG	0	1.0	RB 1 MHz;VB 10 Hz;Pk
2377.960	42.1	V	74.0	-31.9	PK	0	1.0	RB 1 MHz;VB 3 MHz;Pk
2497.170	33.1	V	54.0	-20.9	AVG	140	1.0	RB 1 MHz;VB 10 Hz;Pk
2497.000	50.3	V	74.0	-23.7	PK	140	1.0	RB 1 MHz;VB 3 MHz;Pk





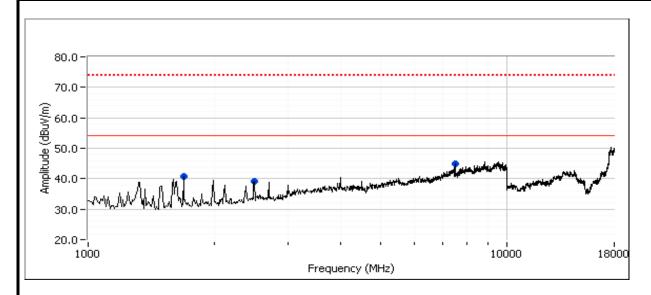
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIItel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain A

Date of Test: 8/11/2010 Test Location: FT Chamber #3
Test Engineer: Rafael Varelas Config Change: none

Run # 2b: EUT on Channel #60 5300MHz - Receive Mode, Chain A

	/punious numbers =									
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
7500.000	44.6	V	54.0	-9.4	AVG	86	1.0	RB 1 MHz;VB 10 Hz;Pk		
7499.830	52.3	V	74.0	-21.7	PK	86	1.0	RB 1 MHz;VB 3 MHz;Pk		
1691.880	40.8	Н	54.0	-13.2	Peak	47	1.0			
2517.770	39.0	V	54.0	-15.0	Peak	145	1.0			

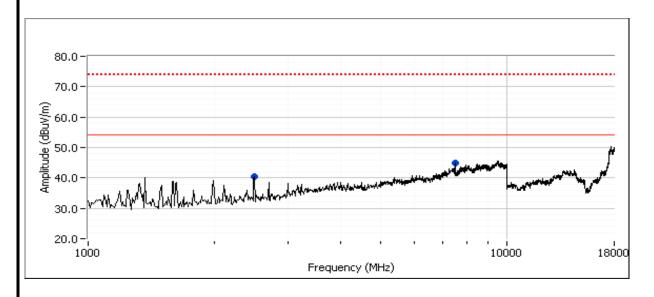




Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2c: EUT on Channel #120 5600MHz - Receive Mode, Chain A

0 0 0 0 1 1 0 0 1 0 1 1										
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
7500.040	44.5	V	54.0	-9.5	AVG	90	1.0	RB 1 MHz;VB 10 Hz;Pk		
7500.150	51.5	V	74.0	-22.5	PK	90	1.0	RB 1 MHz;VB 3 MHz;Pk		
2499.510	40.3	V	54.0	-13.7	Peak	119	1.0			





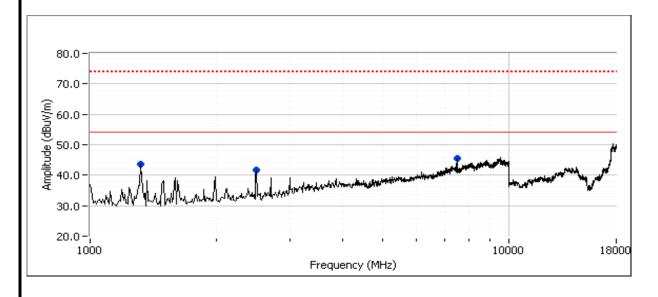
	All Dates Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain B

Date of Test: 8/11/2010 Test Location: FT Chamber #3
Test Engineer: Rafael Varelas Config Change: none

Run # 3b: EUT on Channel #60 5300MHz - Receive Mode, Chain B

	, ,								
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
7500.090	43.7	V	54.0	-10.3	AVG	86	1.0	MHz;VB 10 Hz;Pk	
7500.270	51.7	V	74.0	-22.3	PK	86	1.0	MHz;VB 3 MHz;Pk	
1329.560	37.9	V	54.0	-16.1	AVG	243	1.0	MHz;VB 10 Hz;Pk	
1326.830	49.5	V	74.0	-24.5	PK	243	1.0	MHz;VB 3 MHz;Pk	
2491.930	41.8	V	54.0	-12.2	Peak	148	1.0		

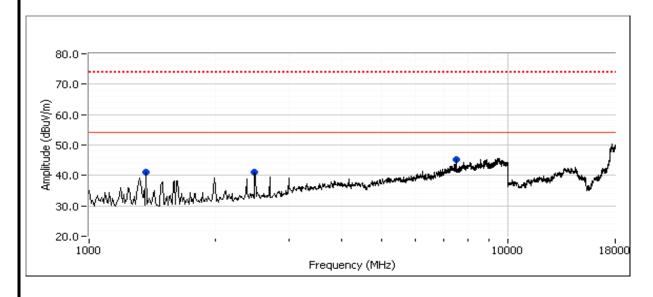




Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3c: EUT on Channel #120 5600MHz - Receive Mode, Chain B

Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.030	44.4	V	54.0	-9.6	AVG	90	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.040	52.0	V	74.0	-22.0	PK	90	1.0	RB 1 MHz;VB 3 MHz;Pk
1355.030	41.0	V	54.0	-13.0	Peak	200	1.3	
2500.590	41.2	V	54.0	-12.8	Peak	150	1.0	



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Client:	Intel Corporation	
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T.
Model.	02203ANI INVV (IIILEI® CEITIIIIO® AUVAIICEU-N 0203)	Α

EMC Test Data Job Number: J80050 T-Log Number: T80214 Account Manager: Christine Krebil

Class: N/A

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, SISO Mode Chain A Power, PSD, Peak Excursion, Bandwidth and Spurious Emissions

Test Specific Details

Contact: Steven Hackett

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

Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B

Date of Test: 8/17/2010 Config. Used: 1 Test Engineer: Rafael Varelas Config Change: None Test Location: FT Lab #3 Host Unit Voltage 120V/60Hz

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 27.5 mW 802.11n 20MHz: 27.5 mW 802.11n n40MHz: 29.5 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 1.8 dBm/MHz 802.11n 20MHz: 1.6 dBm/MHz 802.11n n40MHz: -0.6 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 27.5 mW 802.11n 20MHz: 27.5 mW 802.11n n40MHz: 28.8 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 1.6 dBm/MHz 802.11n 20MHz: 1.8 dBm/MHz 802.11n n40MHz: -0.8 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 33.1 mW 802.11n 20MHz: 32.4 mW 802.11n n40MHz: 31.6 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 2.5 dBm/MHz 802.11n 20MHz: 2.2 dBm/MHz 802.11n n40MHz: -0.2 dBm/MHz
1	26dB Bandwidth	15.407 (Information only)	-	> 20MHz for all modes
1	99% Bandwidth	RSS 210 (Information only)	N/A	802.11a: 18 MHz 802.11n 20MHz: 18.8 MHz 802.11n n40MHz: 37.1 MHz
2	Peak Excursion Envelope	15.407(a) (6) 13dB	Pass	11.9 dB
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	Pass	All emissions below the -27dBm/MHz limit

EI	liott An ATAS company
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An AZE company							
Client:	Intel Corporation	Job Number:	J80050				
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214				
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil				
Contact:	Steven Hackett						
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A				

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 and cables used.

Ambient Conditions:

Temperature: 22.5 °C Rel. Humidity: 43 %

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.

	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 40MHz (n20) or 80 MHz (n40) - method 1 of DA
	02-2138A1.

Note 2: Measured using the same analyzer settings used for output power.

For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is 10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that the measured value exceeds the average by more than 3dB.

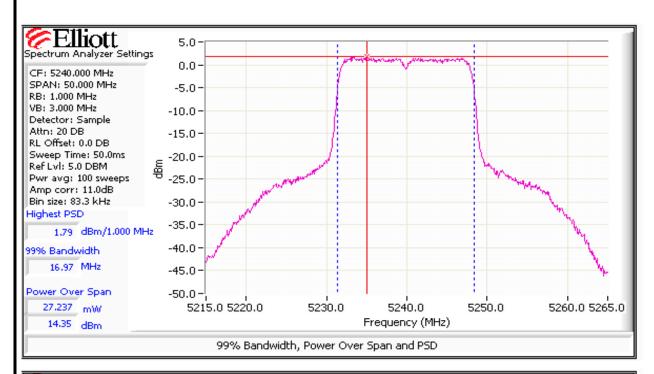
Note 4: 99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB

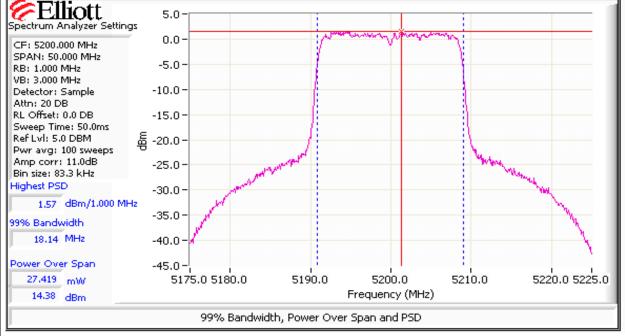
Single Chain Operation, 5150-5250MHz Band - Chain A

	Antenna	a Gain (dBi):	3.7		EIRP:	64.6	mW	18.1	dBm	
Frequency	Software Setting /	Band	width	Output Po	wer ¹ dBm	Power	Р	PSD ² dBm/MHz		Result
(MHz)	Pout	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5180	21 / 16.1	36.2	17.1	14.3	17.0	0.027	1.7	4.0	6.3	Pass
5200	21 / 16	36.4	17.0	14.2	17.0	0.026	1.6	4.0	6.3	Pass
5240	21.5 / 16.1	36.7	17.0	14.4	17.0	0.028	1.8	4.0	6.3	Pass
802.11n 20l	ИНz									
5180	20.5 / 15.6	40.3	18.1	13.6	17.0	0.023	1.0	4.0	6.3	Pass
5200	21.5 / 16.1	43.0	18.1	14.4	17.0	0.028	1.6	4.0	6.3	Pass
5240	21.5 / 16.1	43.0	18.1	14.2	17.0	0.026	1.3	4.0	6.3	Pass
802.11n 40l	ИНz									
5190	16 / 11.1	40.3	36.1	9.3	17.0	0.009	-6.1	4.0	6.3	Pass
5230	22.5 / 16.1	65.8	36.3	14.7	17.0	0.029	-0.6	4.0	6.3	Pass



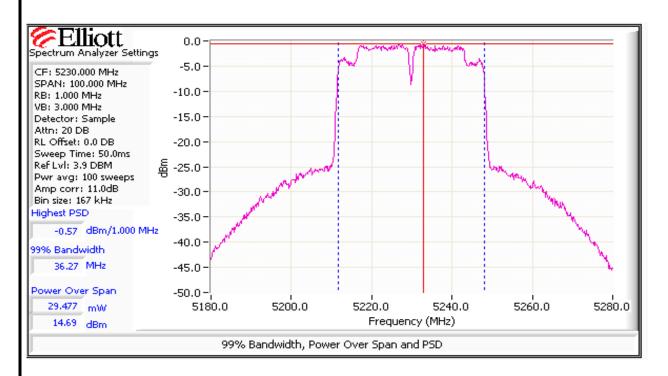
	An ZAZZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMW (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	del: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

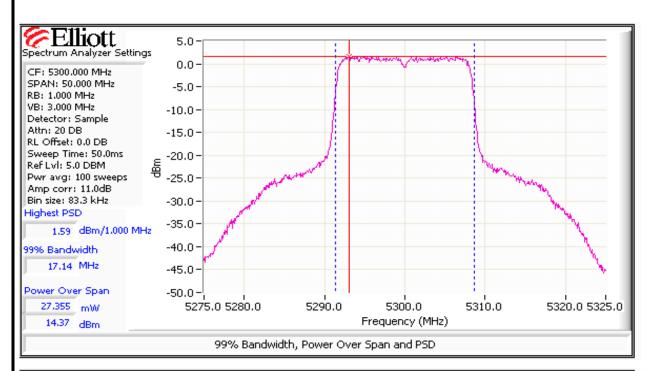


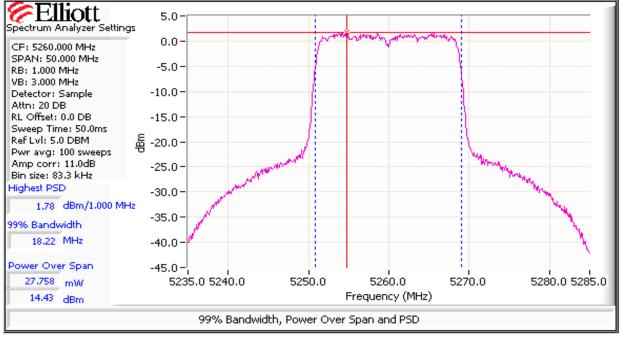
Single Chain Operation, 5250-5350 MHz Band - Chain A

	Antenna	a Gain (dBi):	3.7		EIRP:	64.6	mW	18.1	dBm	
Frequency	Software	Band	width	Output Po	wer ¹ dBm	Power PSD ² dBm/MHz		Ηz	Result	
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Result
802.11a										
5260	21.5 / 16.1	36.8	17.1	14.1	24.0	0.026	1.3	11.0	11.0	Pass
5300	22 / 16.2	37.9	17.1	14.4	24.0	0.028	1.6	11.0	11.0	Pass
5320	22 / 16.1	37.8	17.1	14.2	24.0	0.026	1.4	11.0	11.0	Pass
802.11n 20l	ИHz									
5260	22 / 16.2	42.5	18.2	14.4	24.0	0.028	1.8	11.0	11.0	Pass
5300	22 / 16.1	43.3	18.2	14.2	24.0	0.026	1.4	11.0	11.0	Pass
5320	22 / 16.0	43.7	18.2	14.0	24.0	0.025	1.2	11.0	11.0	Pass
802.11n 40MHz										
5270	23.5 / 16.5	70.0	36.4	14.6	24.0	0.029	-0.8	11.0	11.0	Pass
5310	17 / 11.2	40.5	36.3	9.2	24.0	0.008	-6.2	11.0	11.0	Pass



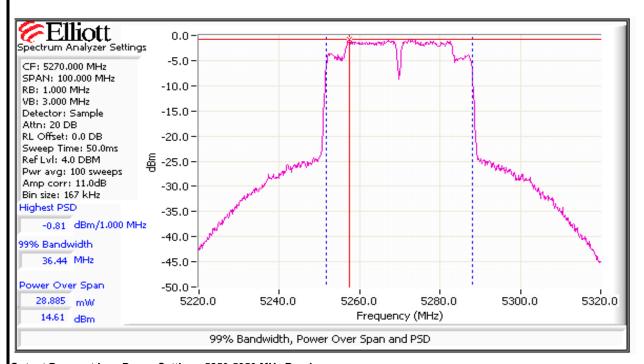
	An ZAZZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	An A7A) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIVI (ITILEI® CETILITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A



Output Power at Low Power Setting - 5250-5350 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

Single Chain Operation, 5470- 5725 MHz Band, Chain A

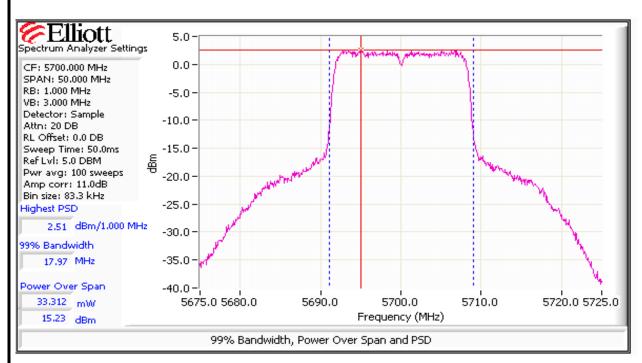
	Antenna	Gain (dBi):	4.8		EIRP:	100.0	mW	20.0	dBm	
Frequency	Software	Band	width	Output Po	wer ¹ dBm	Power	Р	SD ² dBm/Ml	łz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Result
802.11a										
5500	25 / 16.6	39.8	17.3	14.6	24.0	0.029	2.0	11.0	11.0	Pass
5580	26.5 / 16.6	40.7	17.5	14.8	24.0	0.030	2.1	11.0	11.0	Pass
5700	28.5 / 16.6	41.0	18.0	15.2	24.0	0.033	2.5	11.0	11.0	Pass
802.11n 20l	ИНz									
5500	26 / 16.7	45.4	18.6	15.0	24.0	0.032	2.2	11.0	11.0	Pass
5580	27 / 16.7	45.9	18.7	15.1	24.0	0.032	2.2	11.0	11.0	Pass
5700	28.5 / 16.5	46.7	18.8	15.0	24.0	0.032	2.1	11.0	11.0	Pass
802.11n 40l	ИНz									
5510	22 / 13.7	60.5	36.3	11.7	24.0	0.015	-3.6	11.0	11.0	Pass
5550	27 / 16.5	79.2	36.8	14.7	24.0	0.029	-0.8	11.0	11.0	Pass
5670	29 / 16.5	79.7	37.1	15.0	24.0	0.031	-0.2	11.0	11.0	Pass

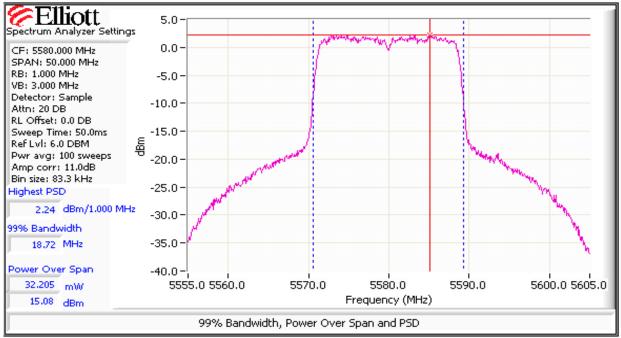
Output Power at Low Power Setting - 5470-5725 MHz Band

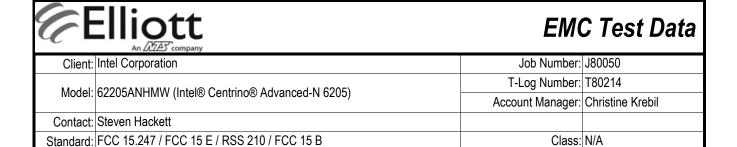
EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

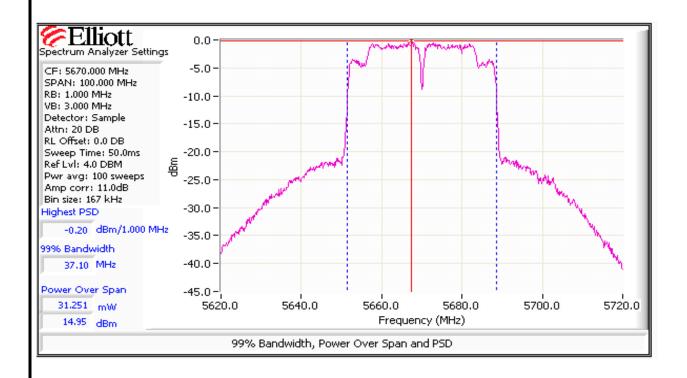


	An ZCZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Job Number: J8005 T-Log Number: T802' Account Manager: Christ Class: N/A	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A











	An ZAZZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANT INVIV (ITTER® CETTETTO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #2: Peak Excursion Measurement

802.11a: Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	Peak Excursion(dB) Freq		Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	9.7	13.0	5260	9.9	13.0	5500	9.8	13.0
5200	9.3	13.0	5300	9.7	13.0	5580	9.8	13.0
5240	9.7	13.0	5320	9.6	13.0	5700	9.9	13.0

n20MHz: Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	Excursion(dB) Freq		Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	10.2	13.0	5260	10.8	13.0	5500	10.6	13.0
5200	10.0	13.0	5300	10.3	13.0	5580	10.3	13.0
5240	10.3	13.0	5320	10.5	13.0	5700	10.3	13.0

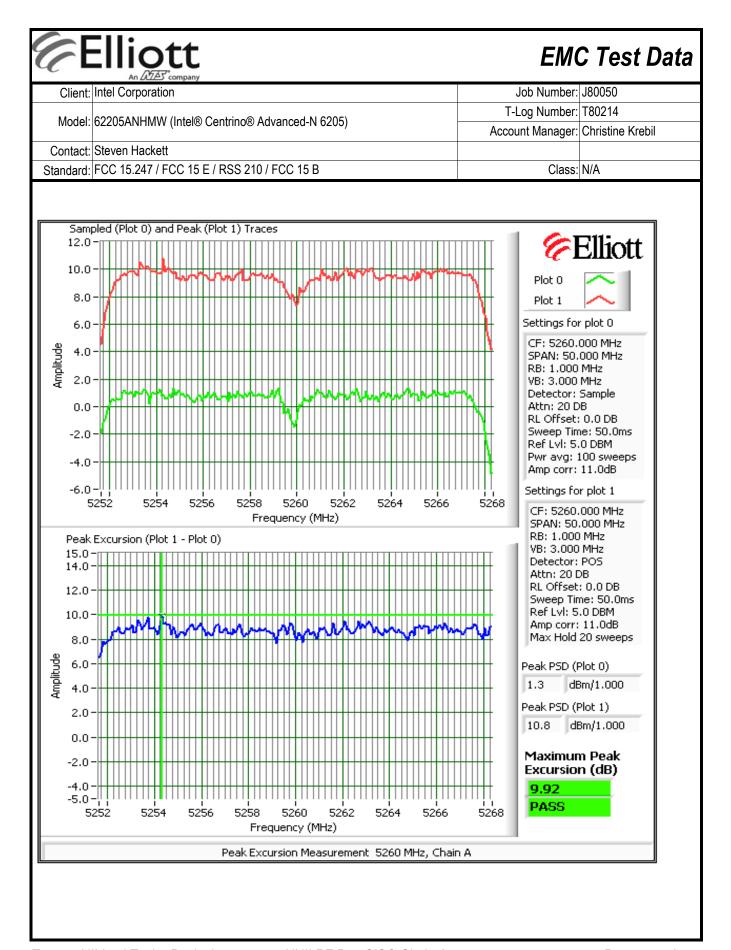
n40MHz: Device meets the requirement for the peak excursion

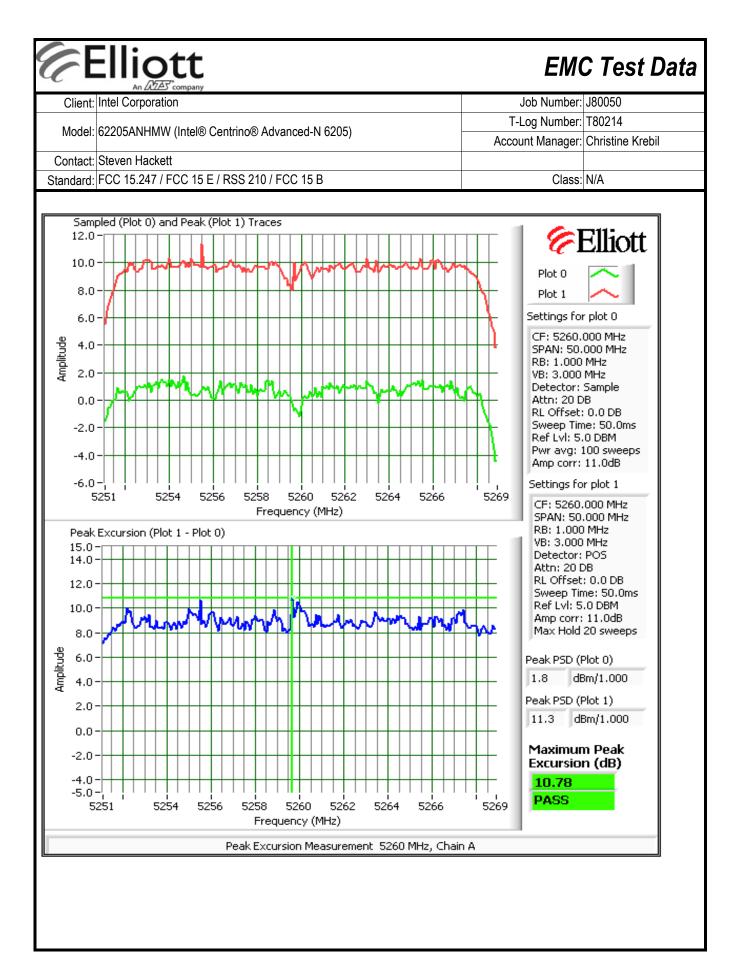
I	Freq	Peak Exc	ursion(dB)	Freq	req Peak Excursion(dB)		Freq	Peak Excursion(dB)	
	(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
	5190	11.7	13.0	5270	11.2	13.0	5510	11.3	13.0
	5230	10.5	13.0	5310	11.6	13.0	5550	11.9	13.0
ſ							5670	11.7	13.0

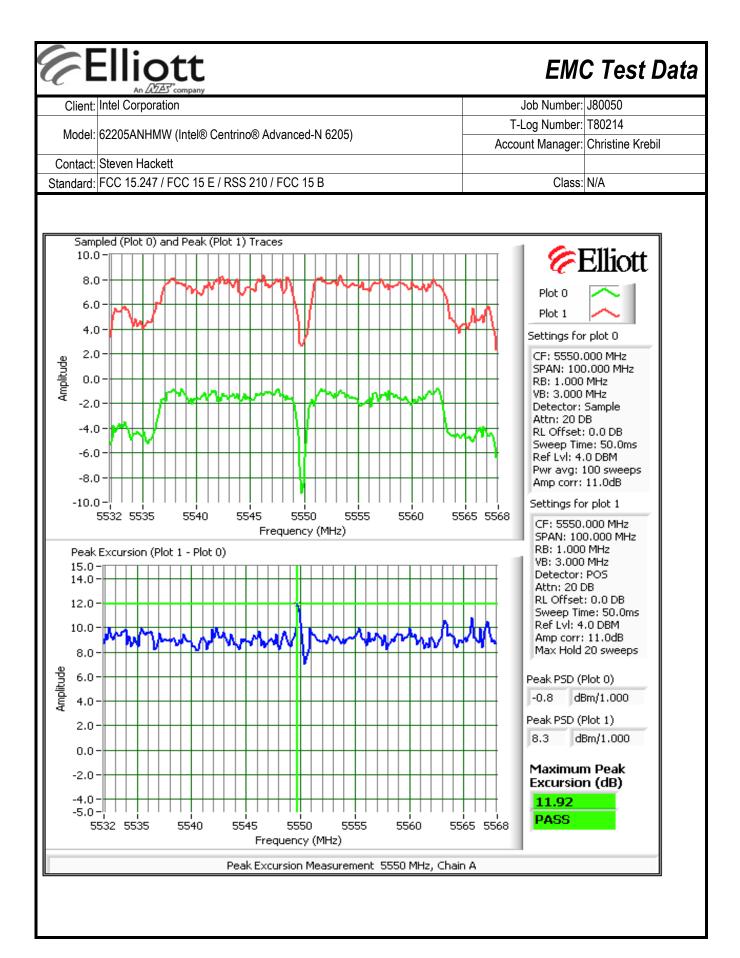
Plots Showing Peak Excursion

Trace A: RBW = 1MHz, VBW = 3MHz, Peak hold

Trace B: Same settings as used for power/PSD measurements (RBW = 1 MHz, VBW = 3MHz, Integrated average power)









	An (ATA) company		
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #3: Out Of Band Spurious Emissions - Antenna Conducted

802.11a Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Limit Used On Plots Note 1: -31.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-11.8 dBm/MHz Peak Limit (RB=VB=1MHz)

802.11n Antenna gain used is the effective gain calculated in the power section of this data sheet. The plots were obtained for each chain individually and the limit was adjusted to account for all chains transmitting simultaneously (solid red line on plot)

Number of transmit chains: 2

Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Adjustment for 2 chains: -3.0 dB adjustment for multiple chains.

Limit Used On Plots Note 1: -34.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-14.8 dBm/MHz Peak Limit (RB=VB=1MHz)

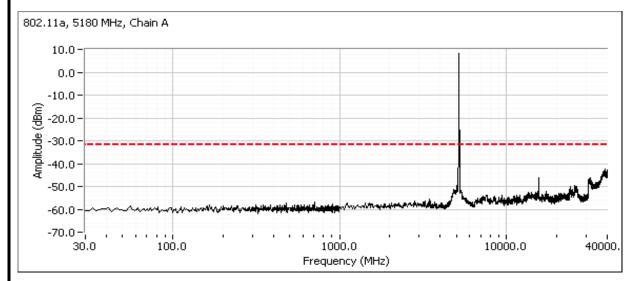
Note 1:	The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements is adjusted to take into consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field strength measurements for signals more than 50MHz from the bands and that are close to the limit are made to determine compliance as the antenna gain is not known at these frequencies.
Note 2:	All spurious signals below 1GHz are measured during digital device radiated emissions test.
Note 3:	Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIRP
Note 4:	If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MHz band.
Note 5:	Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.

	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

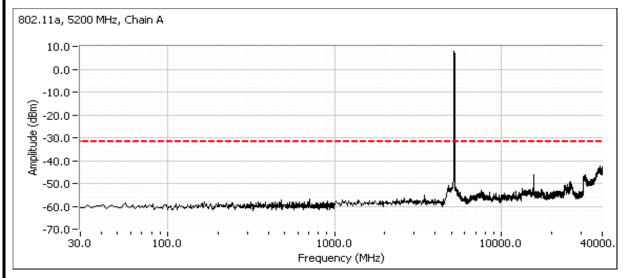
Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)

Low channel, 5150 - 5250 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11a immediately below 5150MHz is demonstrated through the radiated emissions tests.



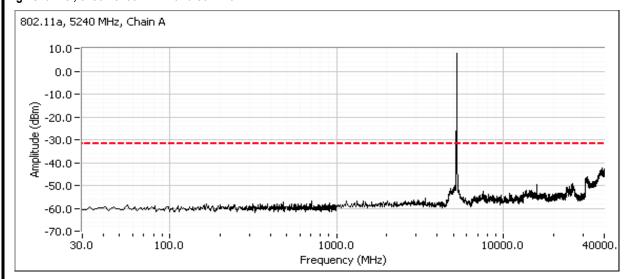
Center channel, 5150 - 5250 MHz Band 802.11a



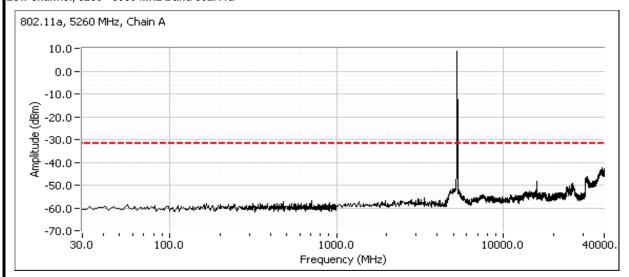


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Client:	Intel Corporation	Job Number:	J80050
Model	GOODE ANILIMAN (Intel® Contring® Advanced N GOOE)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11a



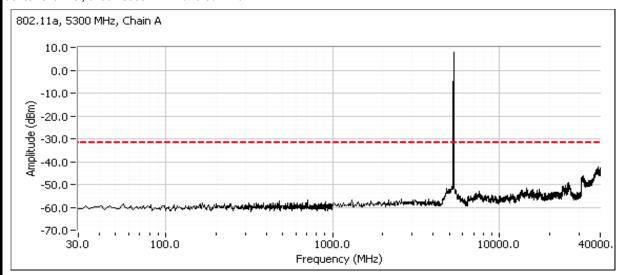
Low channel, 5250 - 5350 MHz Band 802.11a





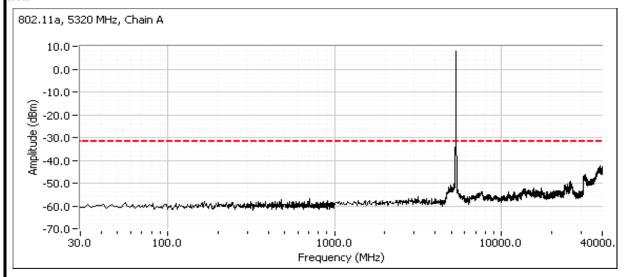
All Zizz Company			
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11a



High channel, 5250 - 5350 MHz Band 802.11a

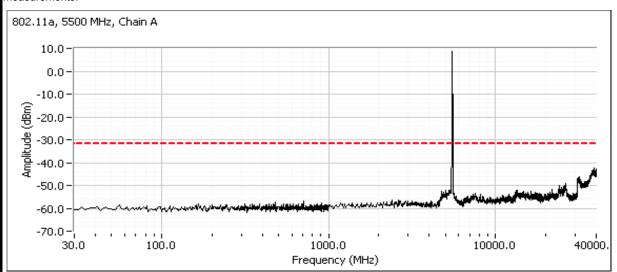
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



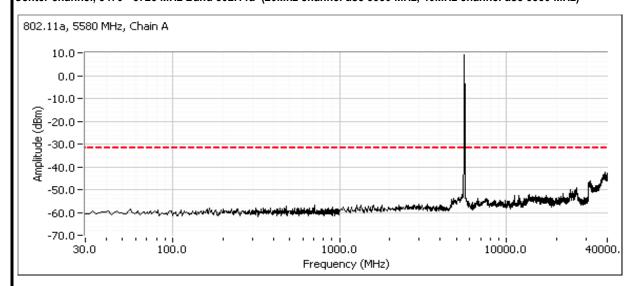
	An AZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



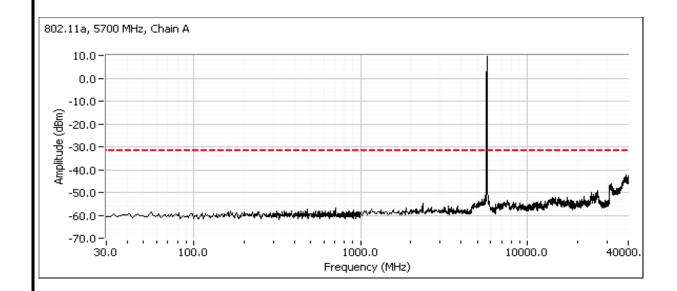
Center channel, 5470 - 5725 MHz Band 802.11a (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



	An AZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

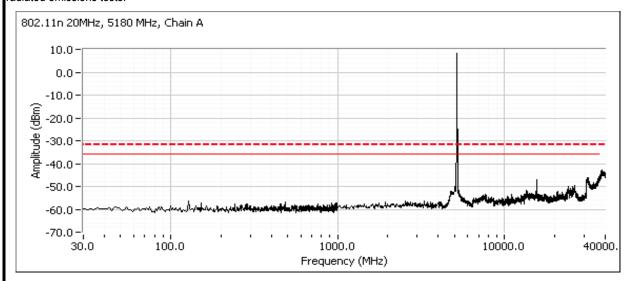




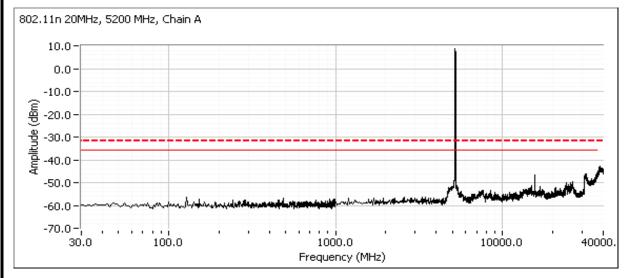
	An ACAT company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band 802.11n 20MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



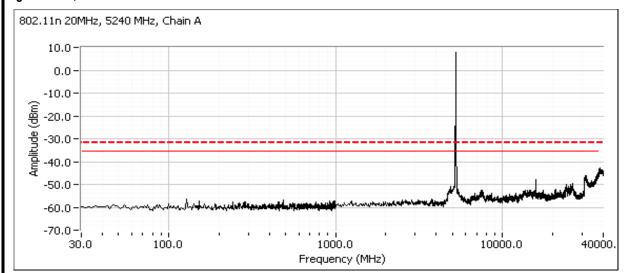
Center channel, 5150 - 5250 MHz Band 802.11n 20MHz



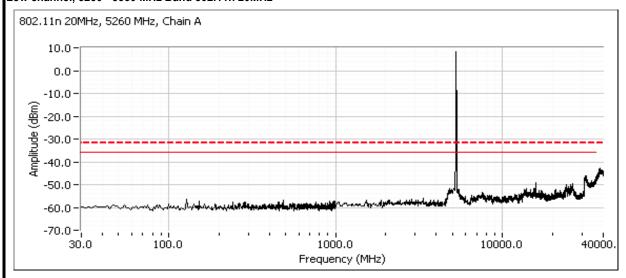


	All Dazz Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11n 20MHz



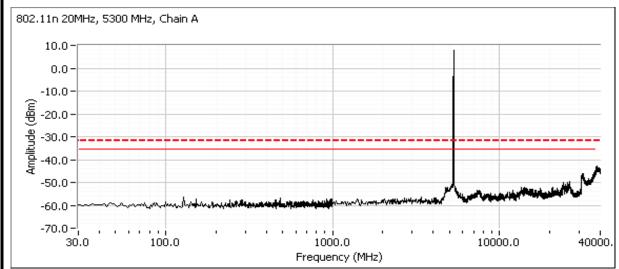
Low channel, 5250 - 5350 MHz Band 802.11n 20MHz





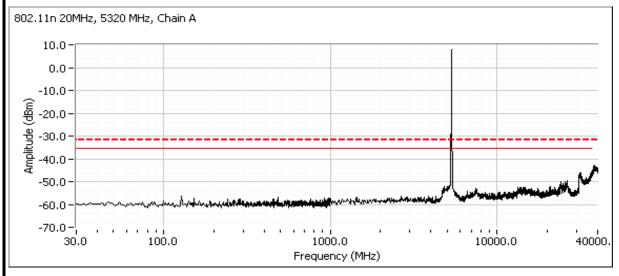
An ZAZEJ Company			
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11n 20MHz



High channel, 5250 - 5350 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.

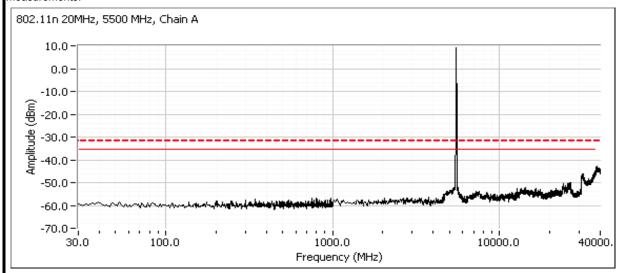




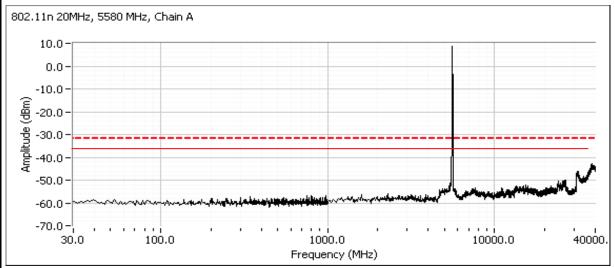
	An ZAZZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Center channel, 5470 - 5725 MHz Band 802.11n 20MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)

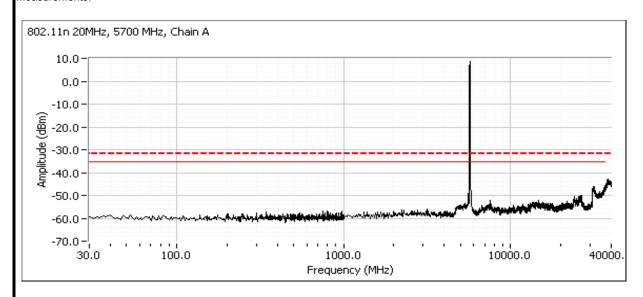




	An ZAZZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

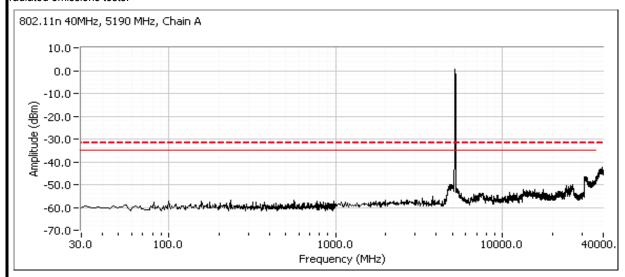




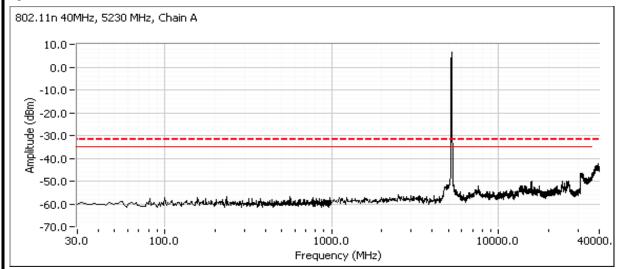
	An ZAZZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



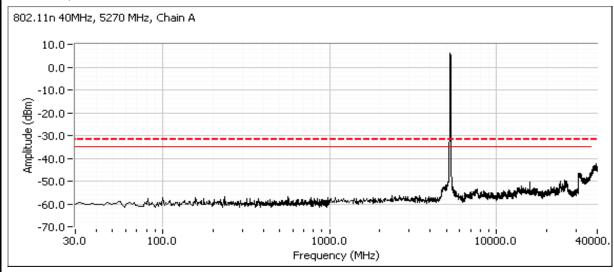
High channel, 5150 - 5250 MHz Band 802.11n 40MHz





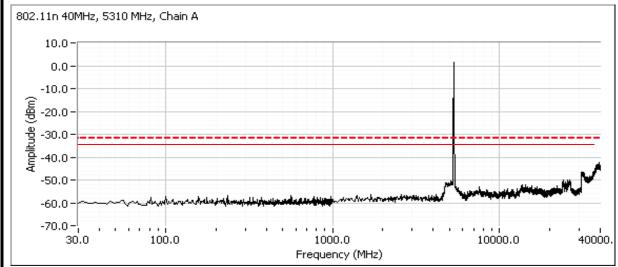
	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 40MHz



High channel, 5250 - 5350 MHz Band 802.11n 40MHz

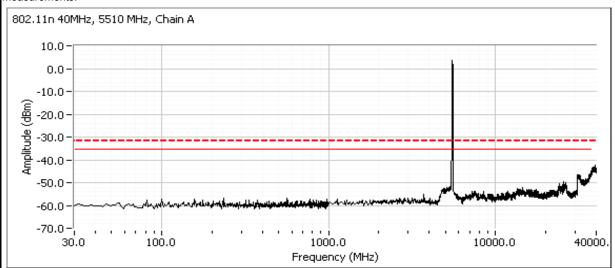
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



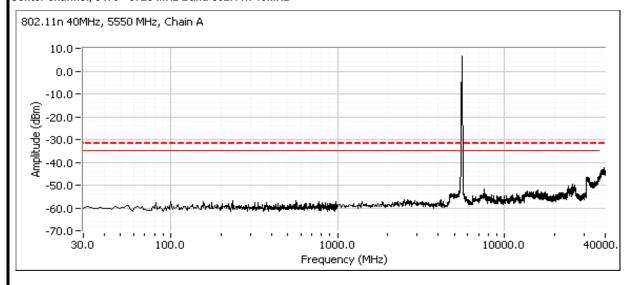
	An ACE company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Center channel, 5470 - 5725 MHz Band 802.11n 40MHz

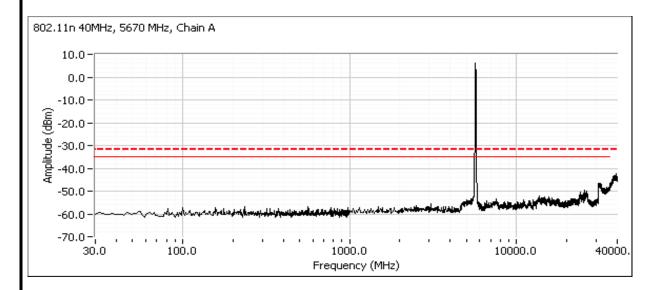




	All Date Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



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	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, SISO Mode Chain B Power, PSD, Peak Excursion, 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: 8/18/2010 Config. Used: 1 Test Engineer: Rafael Varelas Config Change: None Test Location: FT Lab #3 Host Unit Voltage 120V/60Hz

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 32.4 mW 802.11n 20MHz: 25.7 mW 802.11n n40MHz: 26.9 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 2.3 dBm/MHz 802.11n 20MHz: 1.3 dBm/MHz 802.11n n40MHz: -1.1 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 26.9 mW 802.11n 20MHz: 25.1 mW 802.11n n40MHz: 28.2 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 1.8 dBm/MHz 802.11n 20MHz: 1.2 dBm/MHz 802.11n n40MHz: -0.8 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 32.4 mW 802.11n 20MHz: 32.4 mW 802.11n n40MHz: 33.9 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 2.4 dBm/MHz 802.11n 20MHz: 2.4 dBm/MHz 802.11n n40MHz: -0.1 dBm/MHz
1	26dB Bandwidth	15.407 (Information only)	1	> 20MHz for all modes
1	99% Bandwidth	RSS 210 (Information only)	N/A	802.11a: 17.1 MHz 802.11n 20MHz: 18.3 MHz 802.11n n40MHz: 36.6 MHz
2	Peak Excursion Envelope	15.407(a) (6) 13dB	Pass	12.1 dB
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	Pass	All emissions below the -27dBm/MHz limit

	An ZAZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

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 and cables used.

Ambient Conditions:

Temperature: 22.1 °C Rel. Humidity: 44 %

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.

	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 40MHz (n20) or 80 MHz (n40) - method 1 of DA
	02-2138A1.

Note 2: Measured using the same analyzer settings used for output power.

For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is 10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that the measured value exceeds the average by more than 3dB.

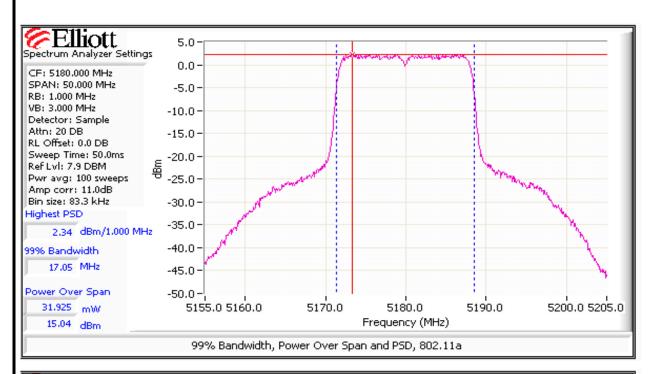
Note 4: 99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB

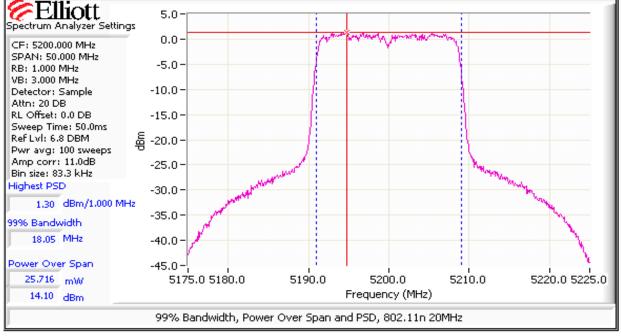
Single Chain Operation, 5150-5250MHz Band - Chain B

	Antenna	a Gain (dBi):	3.7		EIRP:	75.9	mW	18.8	dBm	
Frequency	Software	Band	lwidth	Output Po	ower ¹ dBm	Power	Р	SD ² dBm/Ml	Ηz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5180	20.5 / 16.2	33.9	17.1	15.1	17.0	0.032	2.3	4.0	6.3	Pass
5200	20.5 / 16.1	34.6	17.0	14.2	17.0	0.026	1.6	4.0	6.3	Pass
5240	21 / 16.1	34.1	17.0	14.3	17.0	0.027	1.5	4.0	6.3	Pass
802.11n 20l	MHz									
5180	19.5 / 15.6	39.6	18.1	13.3	17.0	0.021	0.5	4.0	6.3	Pass
5200	20.5 / 16.1	40.4	18.1	14.1	17.0	0.026	1.3	4.0	6.3	Pass
5240	21 / 16	39.2	18.1	14.0	17.0	0.025	1.1	4.0	6.3	Pass
802.11n 40l	802.11n 40MHz									
5190	15.5 / 11.1	40.2	36.1	9.7	17.0	0.009	-5.8	4.0	6.3	Pass
5230	22 / 16	60.7	36.3	14.3	17.0	0.027	-1.1	4.0	6.3	Pass
5240 802.11n 40 5190	21 / 16 MHz 15.5 / 11.1	39.2 40.2	18.1 36.1	9.7	17.0	0.025	1.1	4.0	6.3	



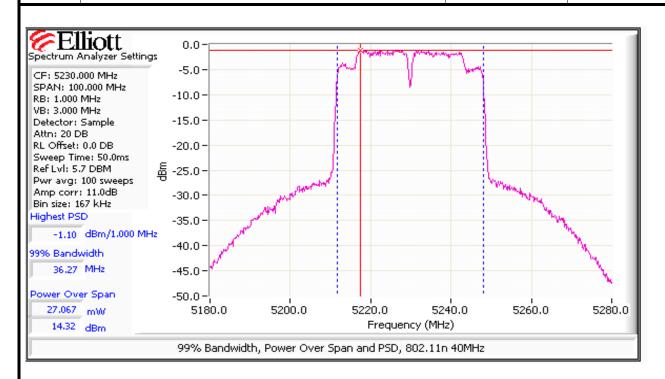
	An ZAZZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







An ZZZZZ Company						
Client:	Intel Corporation	Job Number:	J80050			
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214			
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil			
Contact:	Steven Hackett					
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A			



Single Chain Operation, 5250-5350 MHz Band - Chain B

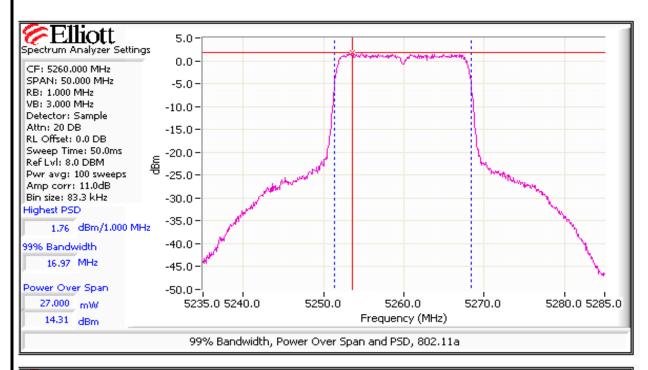
	Antenna	Gain (dBi):	3.7		EIRP:	63.1	mW	18.0	dBm	
Frequency	Software	Band	width	Output Po	ower ¹ dBm	Power	Р	SD ² dBm/Ml	Нz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5260	21.5 / 16.2	36.6	17.0	14.3	24.0	0.027	1.8	11.0	11.0	Pass
5300	22 / 16.2	36.3	17.1	14.0	24.0	0.025	1.3	11.0	11.0	Pass
5320	22.5 / 16.2	36.8	17.1	14.1	24.0	0.026	1.4	11.0	11.0	Pass
802.11n 20N	ЛHz									
5260	21.5 / 16.2	42.6	18.1	14.0	24.0	0.025	1.2	11.0	11.0	Pass
5300	22 / 16.1	42.6	18.2	13.7	24.0	0.023	0.9	11.0	11.0	Pass
5320	22.5 / 16.2	43.1	18.1	13.8	24.0	0.024	1.0	11.0	11.0	Pass
802.11n 40MHz										
5270	23.5 / 16.6	68.8	36.3	14.5	24.0	0.028	-0.8	11.0	11.0	Pass
5310	17 / 11.1	40.2	36.3	8.7	24.0	0.007	-6.5	11.0	11.0	Pass

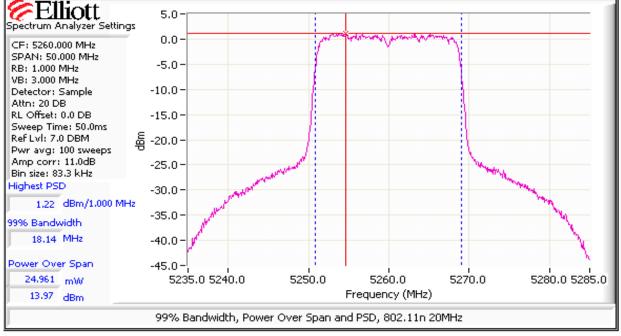
Output Power at Low Power Setting - 5250-5350 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



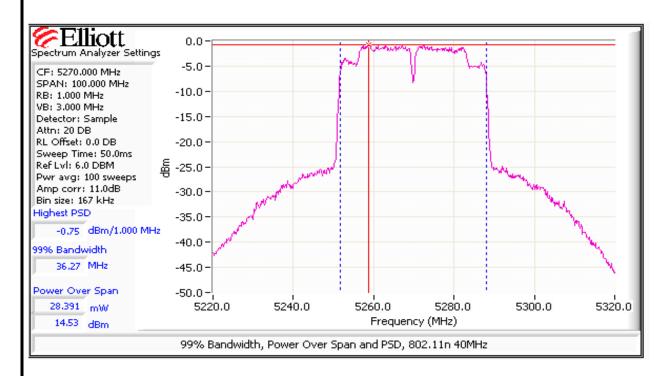
	An Z(ZE) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANT INVIV (ITTER® CETTITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A



Single Chain Operation, 5470- 5725 MHz Band, Chain B

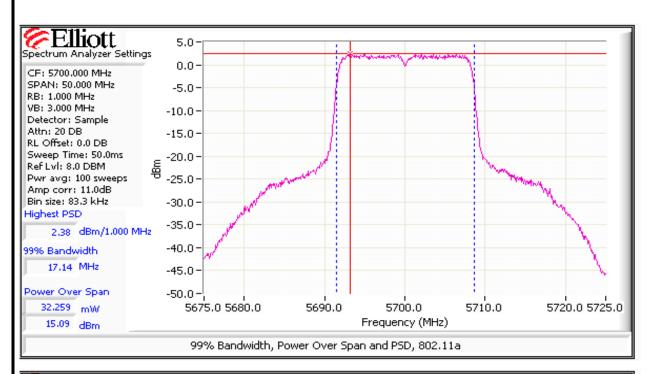
	Antenna	Gain (dBi):	4.8		EIRP:	97.7	mW	19.9	dBm	
Frequency	Software	Band	lwidth	Output Po	wer ¹ dBm	Power	Р	SD ² dBm/Ml	Нz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a	802.11a									
5500	25 / 16.6	37.7	17.1	14.6	24.0	0.029	1.8	11.0	11.0	Pass
5580	26 / 16.7	38.0	17.1	14.9	24.0	0.031	2.4	11.0	11.0	Pass
5700	26.5 / 16.5	37.1	17.1	15.1	24.0	0.032	2.4	11.0	11.0	Pass
802.11n 20l	MHz									
5500	25 / 16.6	42.8	18.2	14.3	24.0	0.027	1.7	11.0	11.0	Pass
5580	26 / 16.6	43.4	18.2	14.5	24.0	0.028	1.9	11.0	11.0	Pass
5700	27 / 16.7	43.3	18.3	15.1	24.0	0.032	2.4	11.0	11.0	Pass
802.11n 40l	802.11n 40MHz									
5510	22 / 13.6	46.3	36.3	11.2	24.0	0.013	-4.0	11.0	11.0	Pass
5550	27 / 16.7	69.2	36.4	14.8	24.0	0.030	-0.7	11.0	11.0	Pass
5670	28 / 16.7	69.8	36.6	15.3	24.0	0.034	-0.1	11.0	11.0	Pass

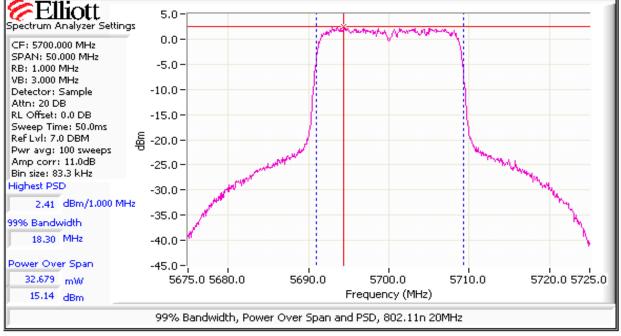
Output Power at Low Power Setting - 5470-5725 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



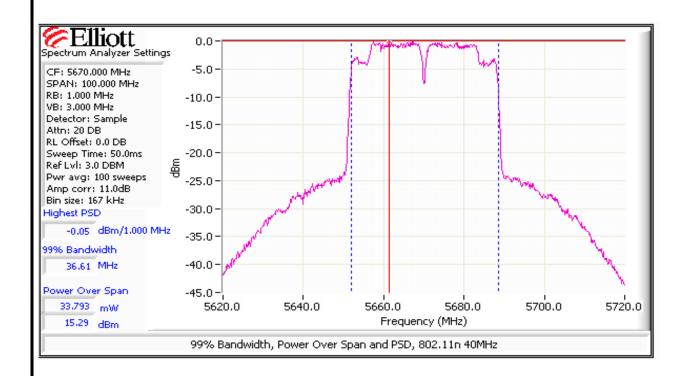
	An (ATA) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	All Diffe Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIItel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





	An ZAZZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #2: Peak Excursion Measurement

802.11a: Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	Peak Excursion(dB)		Freq	Peak Excursion(dB)	
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	9.4	13.0	5260	9.8	13.0	5500	9.8	13.0
5200	9.6	13.0	5300	9.6	13.0	5580	9.9	13.0
5240	9.7	13.0	5320	9.8	13.0	5700	10.1	13.0

n20MHz: Device meets the requirement for the peak excursion

Freq	Peak Excursion(dB) Freq Peak Excursion(dB)		ursion(dB)	Freq	Peak Exc	ursion(dB)		
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	10.6	13.0	5260	10.7	13.0	5500	10.2	13.0
5200	11.1	13.0	5300	10.8	13.0	5580	10.5	13.0
5240	10.9	13.0	5320	10.1	13.0	5700	10.4	13.0

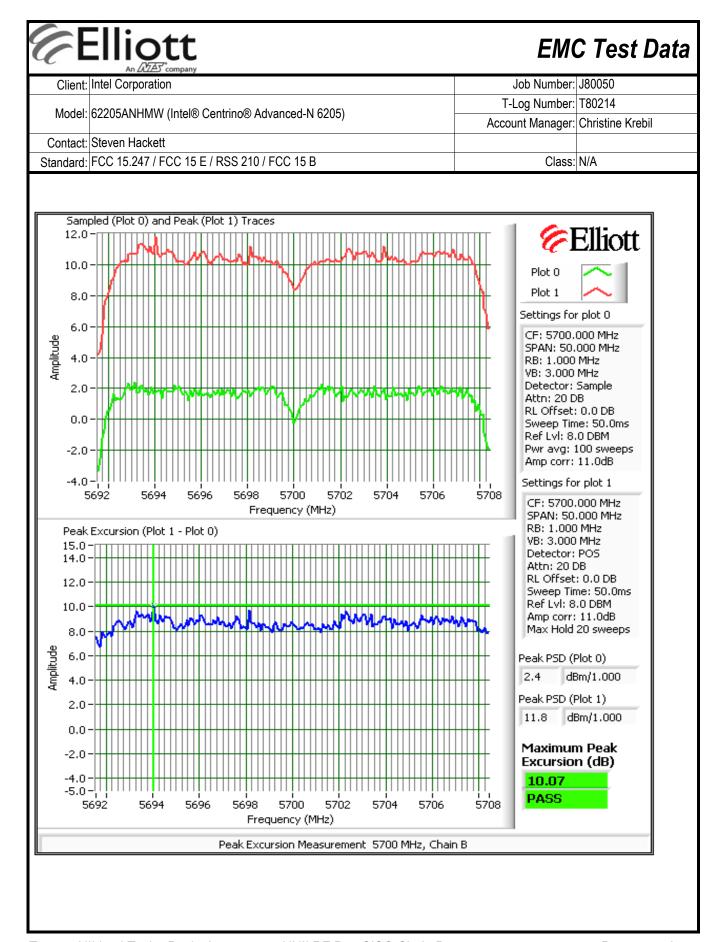
n40MHz: Device meets the requirement for the peak excursion

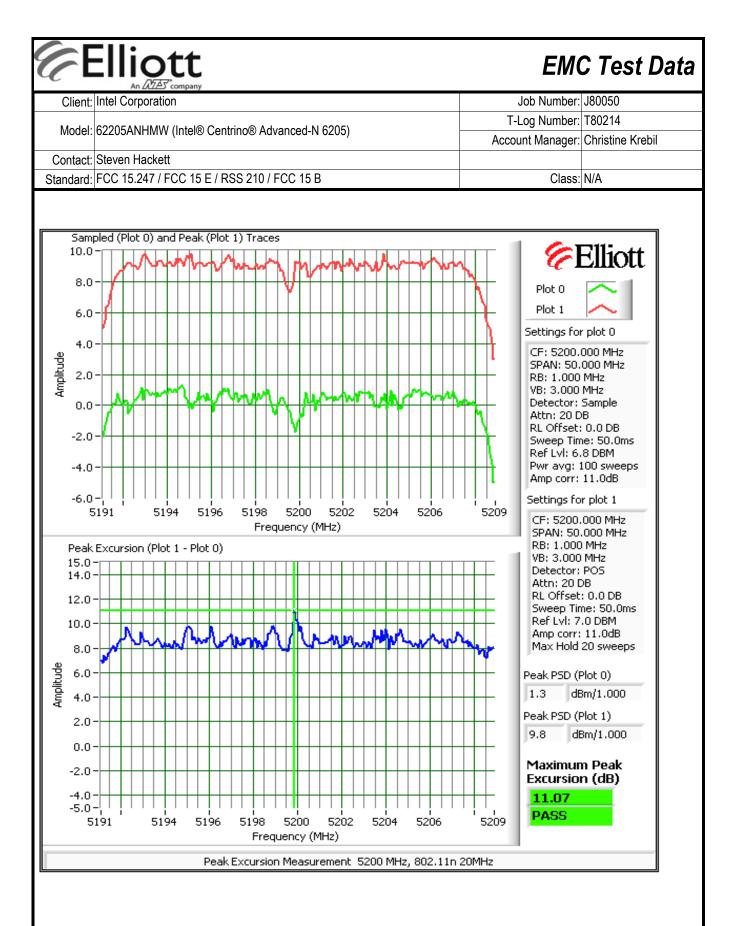
Freq	Peak Excursion(dB)		Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5190	11.4	13.0	5270	12.1	13.0	5510	12.0	13.0
5230	11.0	13.0	5310	11.6	13.0	5550	11.3	13.0
						5670	11.6	13.0

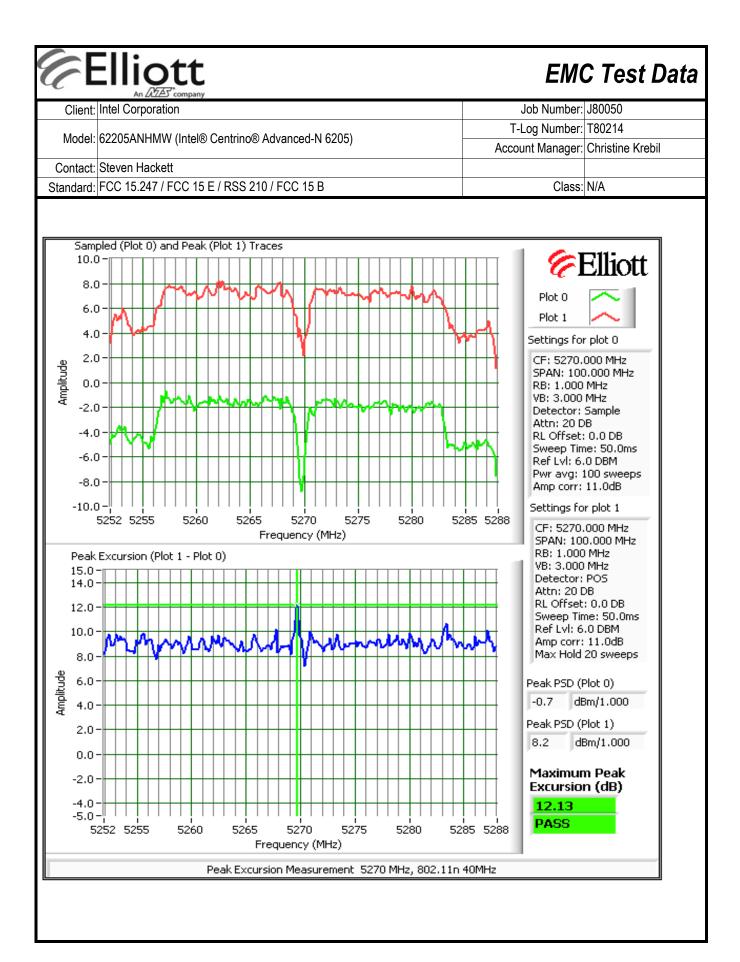
Plots Showing Peak Excursion

Trace A: RBW = 1MHz, VBW = 3MHz, Peak hold

Trace B: Same settings as used for power/PSD measurements (RBW = 1 MHz, VBW = 3MHz, Integrated average power)







Elliott

	An ZCZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEILLIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #3: Out Of Band Spurious Emissions - Antenna Conducted

802.11a Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Limit Used On Plots Note 1: -31.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-11.8 dBm/MHz Peak Limit (RB=VB=1MHz)

802.11n Antenna gain used is the effective gain calculated in the power section of this data sheet. The plots were obtained for each chain individually and the limit was adjusted to account for all chains transmitting simultaneously

Number of transmit chains: 2

Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Adjustment for 2 chains: _______ dB adjustment for multiple chains.

Limit Used On Plots Note 1: -34.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-14.8 dBm/MHz Peak Limit (RB=VB=1MHz)

The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements is adjusted to take into consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field strength measurements for signals more than 50MHz from the bands and that are close to the limit are made to determine compliance as the antenna gain is not known at these frequencies.

Note 2: All spurious signals below 1GHz are measured during digital device radiated emissions test.

Note 3: Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIRP

Note 4: If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MHz band.

Note 5: Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.

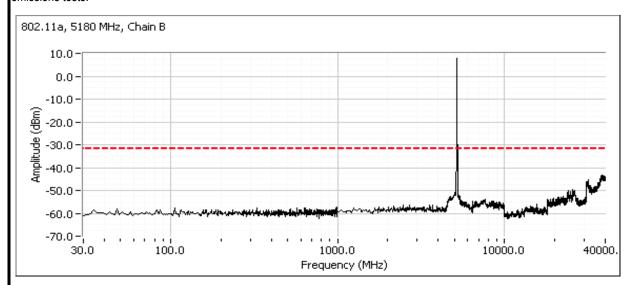
Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)



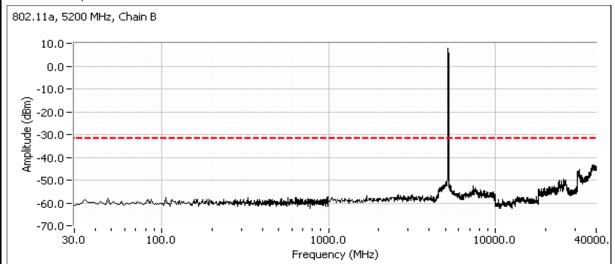
	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11a immediately below 5150MHz is demonstrated through the radiated emissions tests.



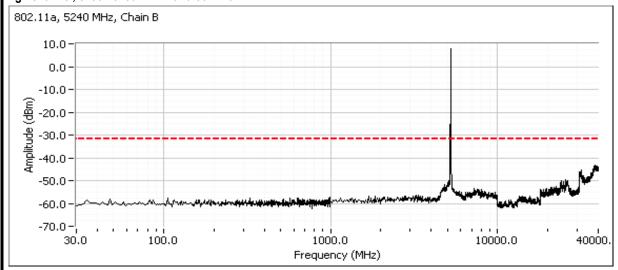
Center channel, 5150 - 5250 MHz Band 802.11a



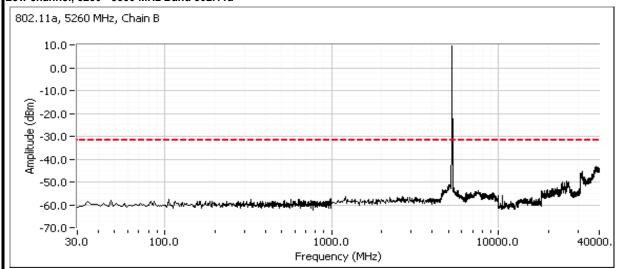


	All Diff. Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANIJIMM (Intel® Centring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11a



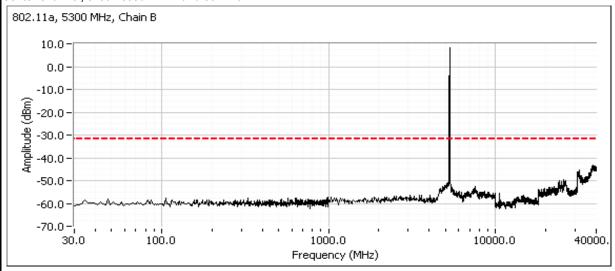
Low channel, 5250 - 5350 MHz Band 802.11a





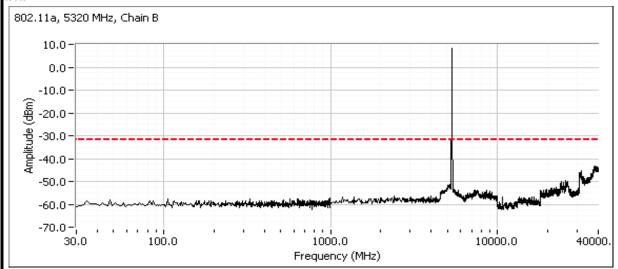
	An ZCZEO company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (III.ele Celiulioe Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11a



High channel, 5250 - 5350 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.

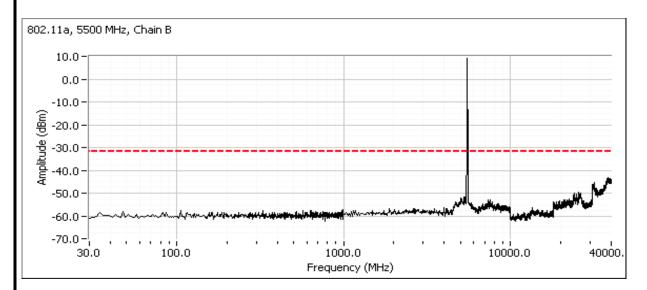




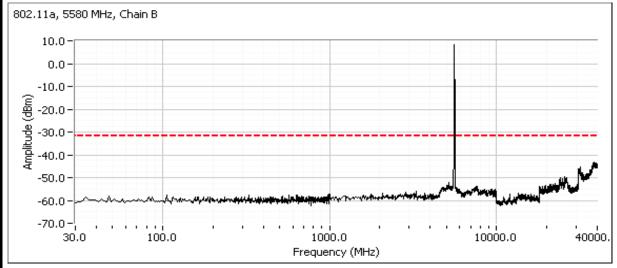
	An DOZED company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).



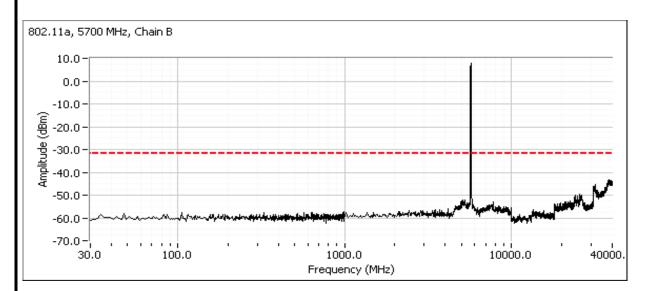
Center channel, 5470 - 5725 MHz Band 802.11a (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



An 2022 company			
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

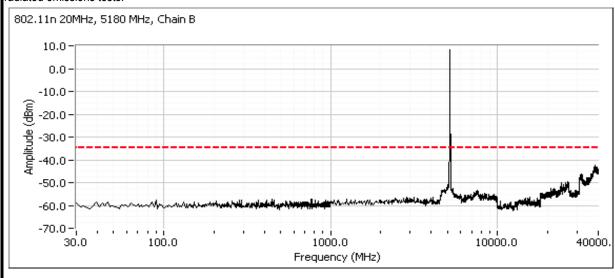
High channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Low channel, 5150 - 5250 MHz Band 802.11n 20MHz

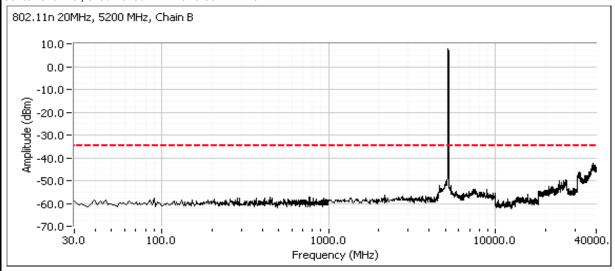
Compliance with the radiated limits for the restricted Band 802.11n 20MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



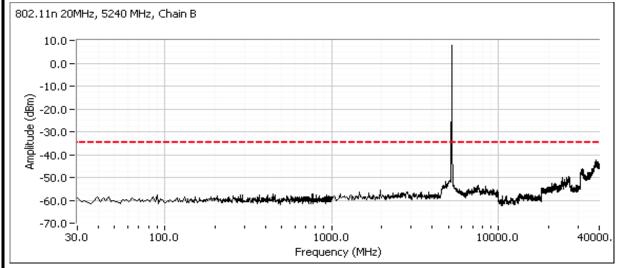


	All 2/22 Company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205ANHMW (Intel® Centrino	62205 ANIJIMM (Intel® Centring® Advanced N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5150 - 5250 MHz Band 802.11n 20MHz



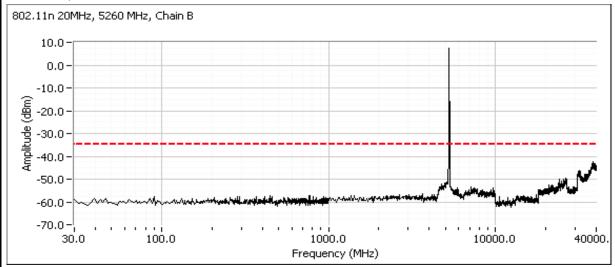
High channel, 5150 - 5250 MHz Band 802.11n 20MHz



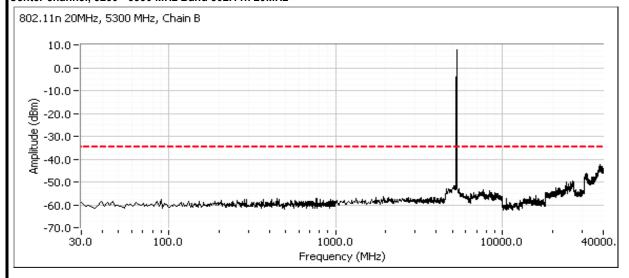


	An ZAZZ Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 20MHz



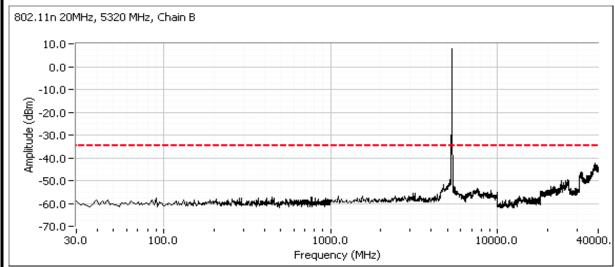
Center channel, 5250 - 5350 MHz Band 802.11n 20MHz



	All Dazz Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

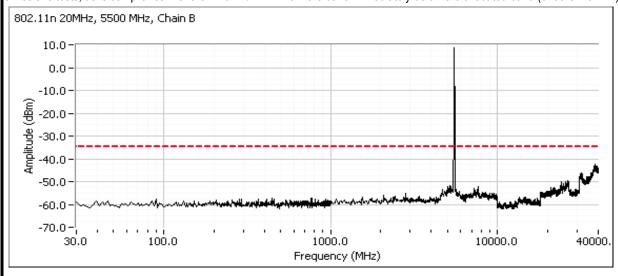
High channel, 5250 - 5350 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



Low channel, 5470 - 5725 MHz Band 802,11n 20MHz

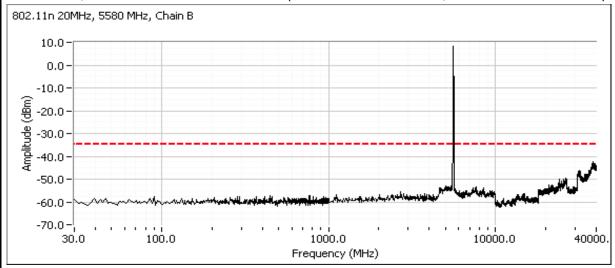
Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).





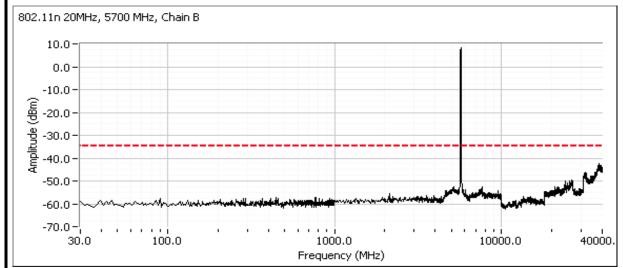
	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5470 - 5725 MHz Band 802.11n 20MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



High channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

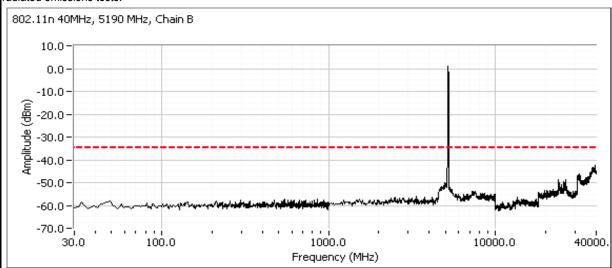




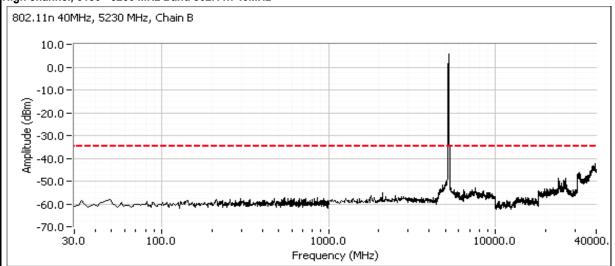
	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



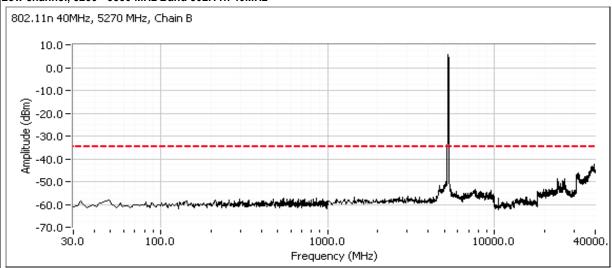
High channel, 5150 - 5250 MHz Band 802.11n 40MHz





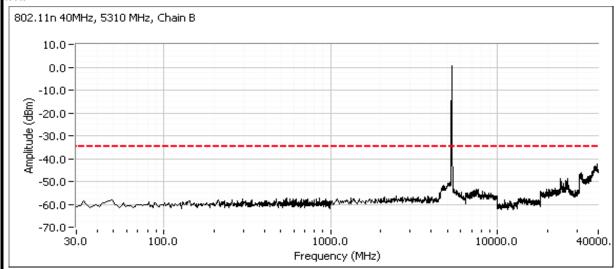
	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model	Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 40MHz



High channel, 5250 - 5350 MHz Band 802.11n 40MHz

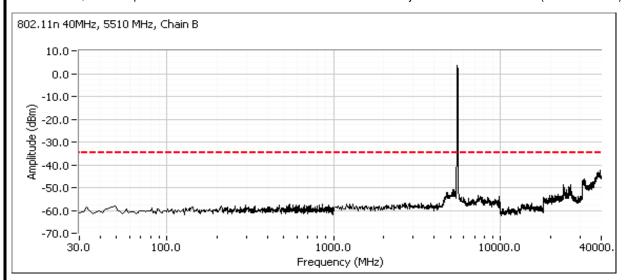
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



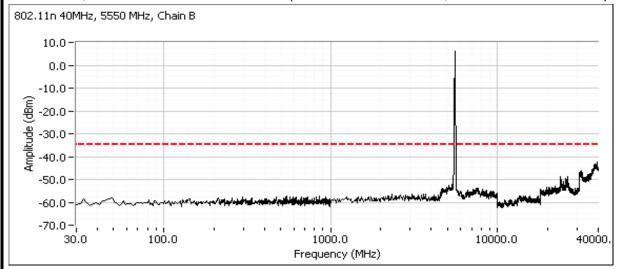
	An ACE company						
Client:	Intel Corporation	Job Number:	J80050				
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214				
woder:	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil				
Contact:	Steven Hackett						
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A				

Low channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).



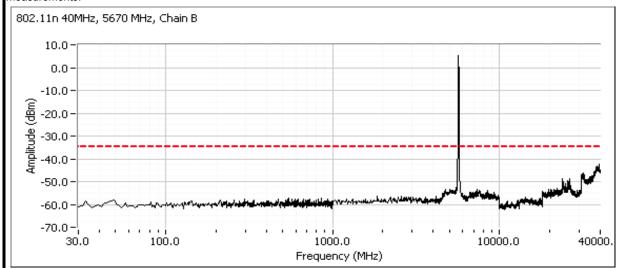
Center channel, 5470 - 5725 MHz Band 802.11n 40MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



Elliott EMC Test					
Client:	Intel Corporation	Job Number:	J80050		
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214		
Model.	02203ANI INIVV (III.el® Celitililo® Advanced-N 0203)	Account Manager:	Christine Krebil		
Contact:	Steven Hackett				
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A		

High channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.





	An ZAZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, MIMO Mode Chain A+B Power, PSD, Peak Excursion, 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.

Config. Used: 1 Date of Test: 8/20/2010 Config Change: None Test Engineer: Rafael Varelas Host Unit Voltage 120V/60Hz Test Location: FT Lab #3

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 25.5 mW 802.11n n40MHz: 26.3 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 1.3 dBm/MHz 802.11n n40MHz: -1.0 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 23.8 mW 802.11n n40MHz: 25.5 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 1.0 dBm/MHz 802.11n n40MHz: -1.1 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 30.6 mW 802.11n n40MHz: 28.9 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 2.3 dBm/MHz 802.11n n40MHz: -0.6 dBm/MHz
1	99% Bandwidth	RSS 210 (Information only)	N/A	refer to SISO measurements
2	Peak Excursion Envelope	15.407(a) (6) 13dB	N/A	refer to SISO measurements
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	N/A	refer to SISO measurements

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 and cables used.

Ambient Conditions:

21.5 °C Temperature: Rel. Humidity: 42 %

	Elliott An AZAS company	EMC Test Data			
Client:	Intel Corporation	Job Number:	J80050		
Madal	62205 ANIJIMA (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214		
woder.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil		
Contact:	Steven Hackett				
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A		

Modifications Made During Testing No modifications were made to the EUT during testing

Deviations From The Standard

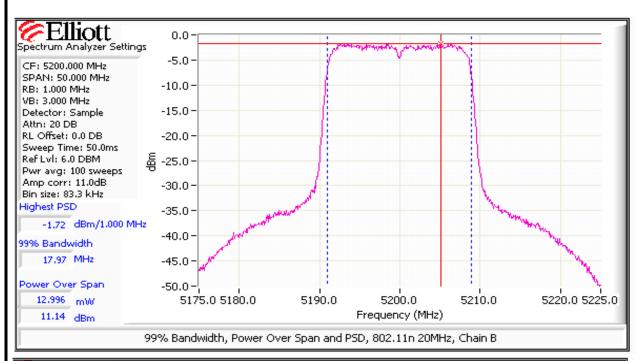
No deviations were made from the requirements of the standard.

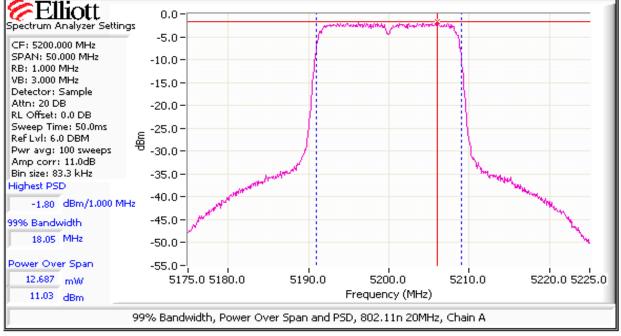
Note 1:	Output power measured using a peak power meter
	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 50MHz (n20) or 100 MHz (n40) - method 1 of
	DA-02-2138A1.
Note 2:	Measured using the same analyzer settings used for output power.
	For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is
Note 3:	10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average
Note 3.	PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that
	the measured value exceeds the average by more than 3dB.
	99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB
	For MIMO systems the total output power and total PSD are calculated form the sum of the powers of the individual chains (in
	linear terms). The antenna gain used to determine the EIRP and limits for PSD/Output power depends on the operating
Note E	mode of the MIMO device. If the signals on the non-coherent between the transmit chains then the gain used to determine
	the limits is the highest gain of the individual chains and the EIRP is the sum of the products of gain and power on each
	chain. If the signals are coherent then the effective antenna gain is the sum (in linear terms) of the gains for each chain and
	the EIRP is the product of the effective gain and total power.

		10								
	Ellic	ott						EMO	C Test	Data
Client:	Intel Corpora	ation					,	Job Number:	J80050	
							T-I	Log Number:	T80214	
Model:	62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620	05)		Accou	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	kett								
		/ FCC 15 E	/ RSS 210 / F	-CC 15 B				Class:	N/A	
MIMO Devi	ce - 5150-52	50 MHz Ban	d					_		-
			Chain 1	Chain 2	Chain 3	Coherent	Effective ⁵	\ /	EIRP (dBm)	
	Antenna	a Gain (dBi):	3.7	3.7		Yes	6.7	123.2	20.9]
Power								_		_
Frequency	Software	26dB BW	Measure	d Output Pov	wer ¹ dBm	To	tal	Limit (dBm)	Max Power	Pass or Fa
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Liiiii (ubiii)	(W)	1 000 01 1-011
20MHz Mod	le				•	•		•	•	•
5180	19.5 / 20	21.9	10.5	10.5		22.4	13.5	16.3		PASS
5200	20.5 / 21	21.8	11.0	11.1		25.5	14.1	16.3	0.0255	PASS
5240	20.5 / 21	21.8	11.0	10.5		23.8	13.8	16.3		PASS
40MHz Mod	le									
5190	18.5 / 18.5	40.0	8.5	8.3		13.8	11.4	16.3	0.0263	PASS
5230	22 / 22	40.5	11.7	10.6		26.3	14.2	16.3	0.0203	PASS
PSD								_		_
Frequency	99% ⁴	Total	Р	SD ² dBm/Ml	Ηz	Total	PSD	Liı	mit	Pass or Fa
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	Fa55 01 Fa
20MHz Mode							•			
5180	18.0	13.5	-2.3	-2.3		1.2	0.7	3.3	3.3	PASS
5200	18.0	14.1	-1.8	-1.7		1.3	1.3	3.3	3.3	PASS
5240	18.0	13.8	-1.6	-2.3		1.3	1.1	3.3	3.3	PASS
40MHz Mod								_		
5190	36.1	11.4	-6.7	-6.9		0.4	-3.8	3.3	3.3	PASS
5230	36.3	14.2	-3.4	-4.7		0.8	-1.0	3.3	3.3	PASS



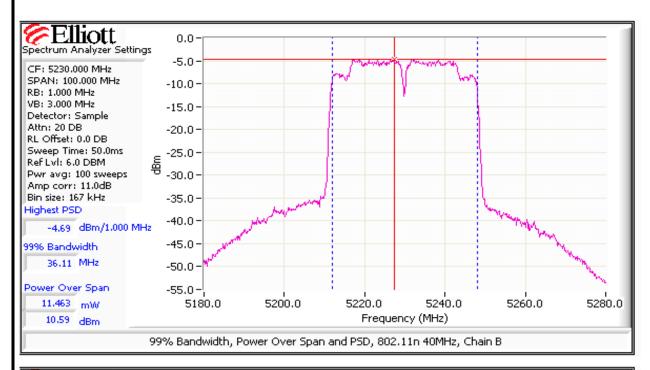
	An ZCZEO company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder:	02203ANTIWW (III.ele Cellulloe Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

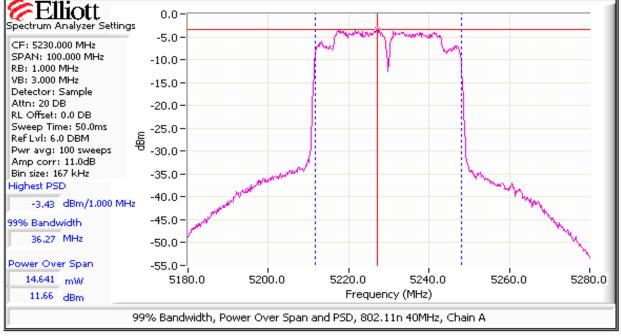






	An Z(ZE) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





	-111									
Ct)tt						EMO	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
Madal	COOCEANILIN	**** / t - 1 @ C	·		05)		T-/	Log Number:	T80214	
Modei.	: 62205ANHM	/IVV (Intel® C	entrinow Auv	/ancea-iv o∠u	J5)		Accor	unt Manager:	Christine Kr	ebil
Contact:	: Steven Hack	kett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	FCC 15 B		-		Class:	N/A	
MIMO Devi	ce - 5250-535	50 MHz Band	d Chain 1	Chain 2	Chain 3	Coherent	Effective ⁵	TEIRP (mW)	EIRP (dBm)	1
	Antenna	a Gain (dBi):	3.7	3.7	Chamo	Yes	6.7	111.5	20.5	4
Power	7 111(011110	T Call (GDI).	0.1	0.1		100	0.1	111.0	20.0	J
Frequency	Software	26dB BW	Measure	ed Output Pov	wer ¹ dBm	To	otal		Max Power	Pass or Fail
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Limit (dBm)	(W)	Pass or Fail
20MHz Mod	Je			<u> </u>	<u> </u>				<u> </u>	
5260	20.5 / 21.5	22.1	10.6	10.9		23.8	13.8	23.3		PASS
5300	21 / 21.5	22.0	11.0	10.2		23.1	13.6	23.3	0.0238	PASS
5320	21 / 22	22.2	10.5	10.3		21.9	13.4	23.3	<u></u>	PASS
40MHz Mod			10.0	140		05.5	T 444	T 00 0		T DAGG
5270	22 / 23	39.8	10.8	11.3		25.5	14.1	23.3	0.0255	PASS
5310 PSD	18.5 / 19.5	39.7	7.9	7.5		11.8	10.7	23.3	<u> </u>	PASS
Frequency	99% ⁴	Total		SD ² dBm/MF		Tota	I PSD	T li	mit	T
(MHz)	99% BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	Pass or Fai
20MHz Mod			Cildiii .	01101112	Criaii C		45 1171111.2		1100 210	
5260	18.0	13.8	-2.2	-1.9		1.2	1.0	10.3	11.0	PASS
				4						+

1.2

1.1

8.0

0.4

8.0

0.5

-1.1

-4.3

10.3

10.3

10.3

10.3

11.0

11.0

11.0

11.0

PASS

PASS

PASS

PASS

Output Power at Low Power Setting - 5250-5350 MHz Band

13.6

13.4

14.1

10.7

-2.0

-2.5

-4.3

-7.3

5300

5320

40MHz Mode 5270

5310

18.1

18.1

36.1

36.3

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

-2.5

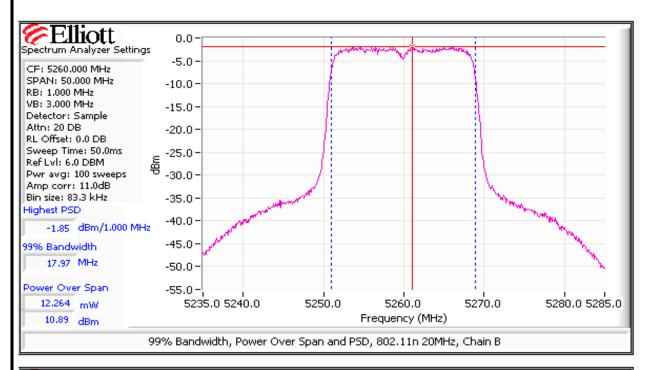
-2.6

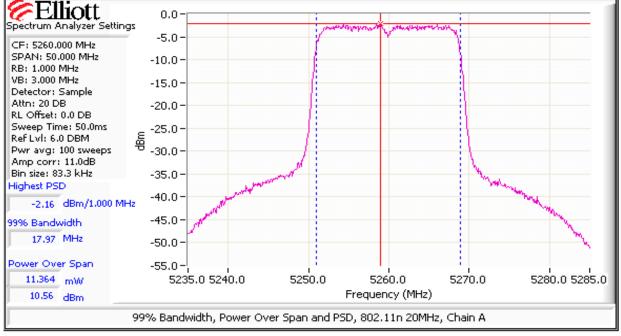
-4.0

-7.4



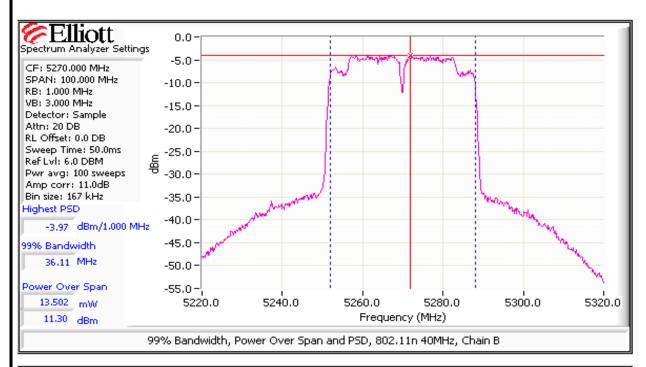
	An ZCZEO company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder:	02203ANTIWW (III.ele Cellulloe Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

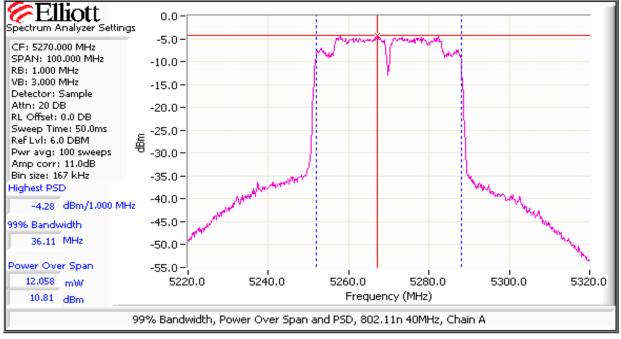






An (ACE) company					
Client:	Intel Corporation	Job Number:	J80050		
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214		
	02203ANT INVIVI (ITILEI® CETILITIO® Advanced-N 0203)	Account Manager:	Christine Krebil		
Contact:	Steven Hackett				
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A		





CE.		ott						EMO	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
Martal	Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205) T-Log Number:							T80214		
Model:	62205ANHIV	ivv (intel® C	entrino® Aav	anced-N 620	J5)		Account Manager:		Christine Krebil	
Contact:	Steven Hack	cett						·		
Standard:	FCC 15.247	/ FCC 15 E /	/ RSS 210 / F	FCC 15 B				Class:	N/A	
MIMO Devid	evice - 5470-5725 MHz Band Chain 1 Chain 2 Chain 3 Coheren				Coherent	Effective ⁵	EIRP (mW)	EIRP (dBm)]	
	Antenna	a Gain (dBi):	4.8	4.8		Yes	7.8	185.1	22.7	
Power						•	•		•	
Frequency	Software	26dB BW	Measure	d Output Pov	wer ¹ dBm	To	otal Limit (dBm)		Max Power	Pass or Fai
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Lilliit (dDill)	(W)	1 433 01 1 41
20MHz Mod	le									
5500	23.5 / 24.5	22.3	11.3	10.9		25.8	14.1	22.2		PASS
5580	25 / 26	23.1	11.5	12.2		30.6	14.9	22.2	0.0306	PASS
5700	27 / 27	26.3	12.0	11.7		30.6	14.9	22.2		PASS
40MHz Mod	е						_	_		

PSD	
-----	--

5510

5550

5670

24 / 25

25.5 / 26

27 / 27

ו טט										
Frequency	99% ⁴	Total	PSD ² dBm/MHz Total PSD		Limit		Pass or Fail			
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	F855 01 F811
20MHz Mod	le					•				-
5500	18.1	14.1	-1.6	-1.6		1.4	1.4	9.2	11.0	PASS
5580	18.1	14.9	-1.2	-0.3		1.7	2.3	9.2	11.0	PASS
5700	18.1	14.9	-0.6	-1.3		1.6	2.1	9.2	11.0	PASS
40MHz Mod	le									
5510	36.1	13.5	-4.9	-4.5		0.7	-1.7	9.2	11.0	PASS
5550	36.3	14.2	-3.9	-4.1		0.8	-1.0	9.2	11.0	PASS
5670	36.4	14.6	-3.7	-3.5		0.9	-0.6	9.2	11.0	PASS

22.6

26.4

28.9

13.5

14.2

14.6

22.2

22.2

22.2

0.0289

PASS

PASS

PASS

42.3

41.8

44.7

10.3

11.2

11.4

10.8

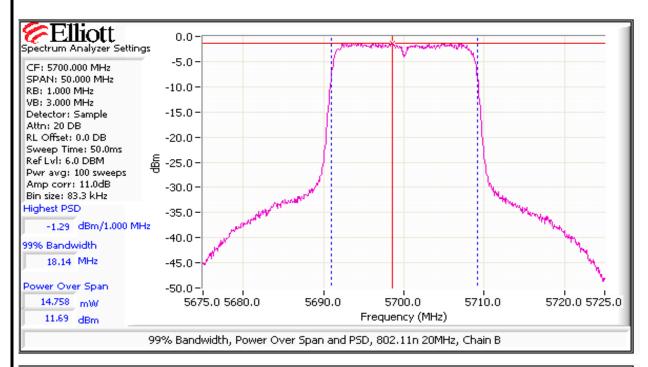
11.2

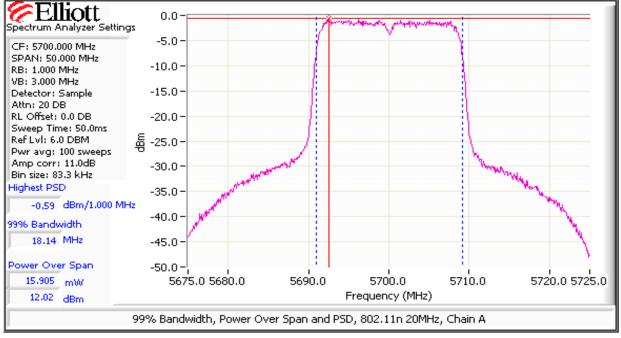
11.8

Output Power at Low Power Setting - 5470-5725 MHz Band
EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



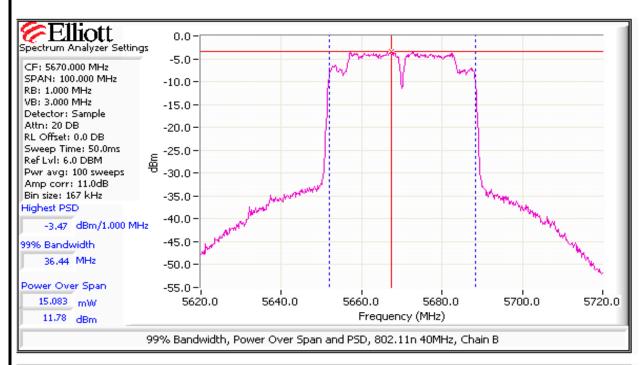
An ZCZEO company					
Client:	Intel Corporation	Job Number:	J80050		
Model:	62205 ANHMIN (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214		
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil		
Contact:	Steven Hackett				
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A		

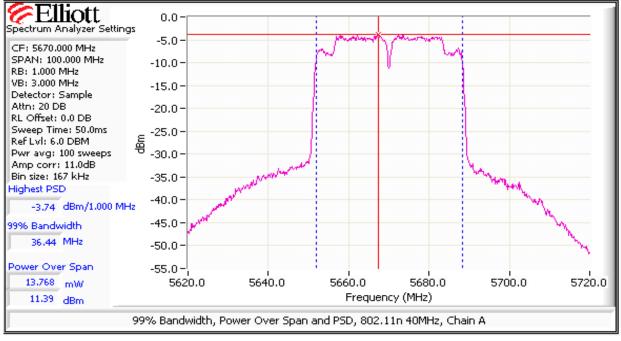






	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANHIVIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





Appendix C Photographs of Test Configurations

Uploaded as a separate exhibit

File: R80361 Appendix Page 3 of 3