

Honeywell

51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)

July 12, 2007

Report No. HONE0011.4

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: July 24, 2007

Honeywell

51153884-100, REVISION B, MULTINODE ASSEMBLY
w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)

Emissions				
Test Description	Specification	Test Method	Pass	Fail
AC Powerline Conducted Emissions	FCC 15.207:2006	ANSI C63.4:2003	☒	☐
Occupied Bandwidth	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐
Output Power	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐
Band Edge Compliance	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐
Power Spectral Density	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐
Spurious Conducted Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐
Spurious Radiated Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	☒	☐

Modifications made to the product

See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Avenue
Irvine, CA 92618

Phone: (949) 861-8918 Fax: 861-8923

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:

Ethan Schoonover, Sultan Lab Manager

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested, the specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294).



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.



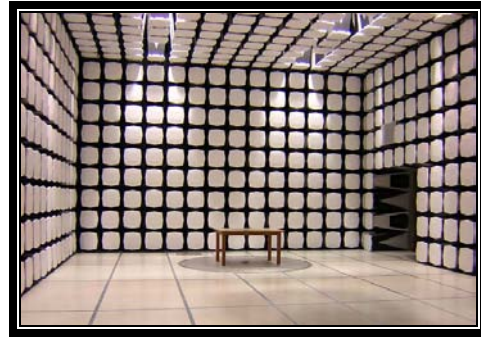
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



SCOPE

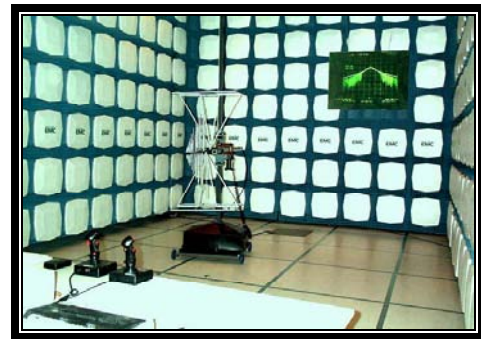
For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/scope.asp>



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Honeywell
Address:	2500 W. Union Hills Road
City, State, Zip:	Phoenix, AZ 85027
Test Requested By:	David Shipley
Model:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)
First Date of Test:	April 19, 2007
Last Date of Test:	May 18, 2007
Receipt Date of Samples:	April 11, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

DTS radio with variable output power operating in the 5.7 GHz band.

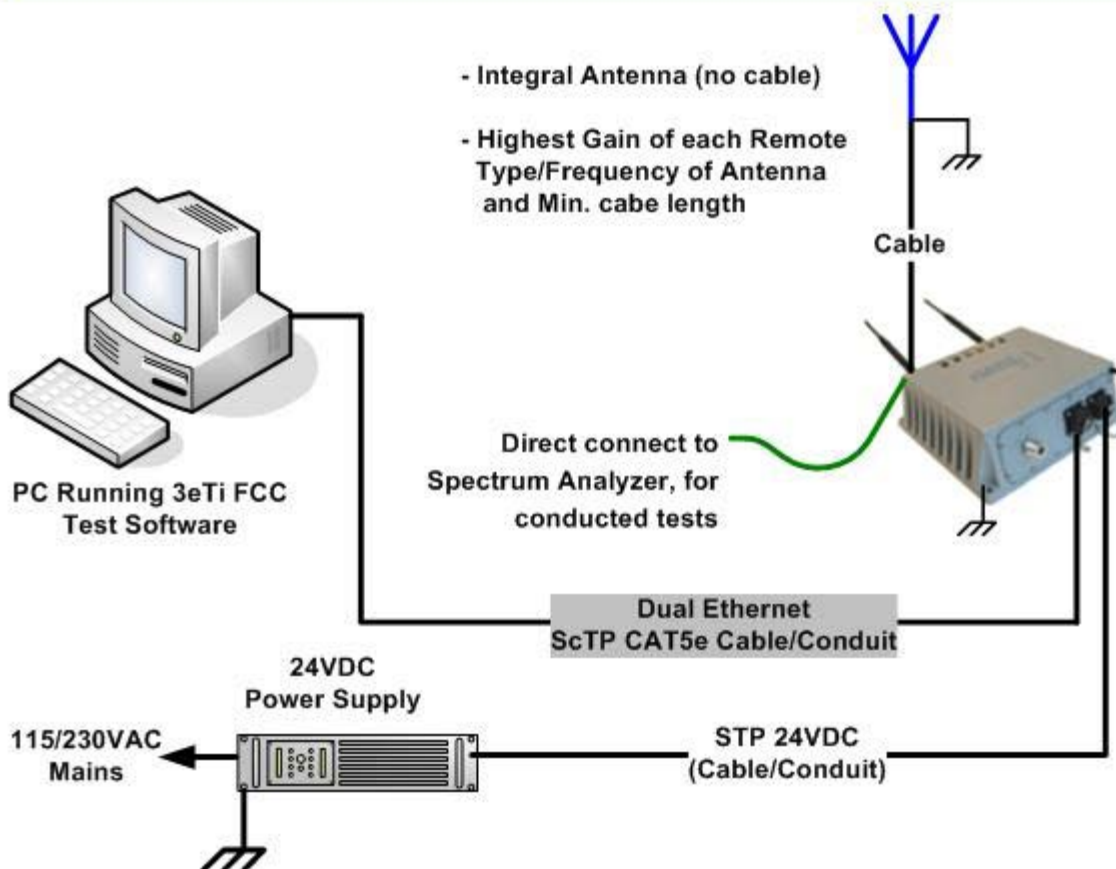
Testing Objective:

DTS radio that is professionally installed. Adjustable power levels by the professional installers. Seeking to demonstrate compliance to FCC 15.247 as a module with host specific configurations (limited modular approval).

CONFIGURATION 1 HONE0011**EUT**

Description

Refer to the configuration document provided by the client below.

Radio Transmitter Test Setup, MultiNode Wi-Fi and Mesh Radios

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	4/19/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/7/2007	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/7/2007	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/7/2007	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/8/2007	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	5/10/2007	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	5/18/2007	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

802.11(a) 6Mbps, High Channel. Radio On.

802.11(a) 6Mbps, Mid Channel. Radio On.

Mid Channel. Radio Off.

802.11(a) 6 Mbps, Low Channel. Radio On

POWER SETTINGS INVESTIGATED

120VAC/60Hz

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-24-BNC	LIB	5/8/2006	13
OC11 cables a-b-e-f			OCM	1/8/2007	13
Receiver	Rohde & Schwartz	ESCI	ARF	12/14/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

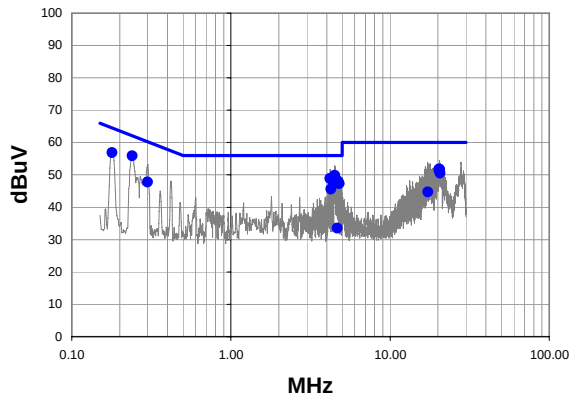
Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

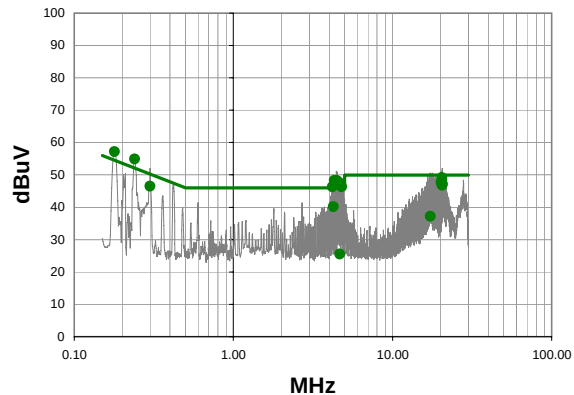
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	802.11(a) 6 Mbps, Low Channel (5.5 GHz). Radio ON						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	13	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

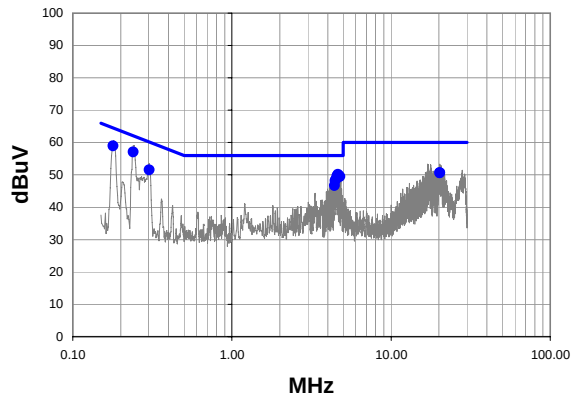
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.500	29.3	0.6	49.9	56.0	-6.1
0.240	34.7	1.2	55.9	62.1	-6.2
4.440	28.7	0.6	49.3	56.0	-6.7
4.200	28.3	0.6	48.9	56.0	-7.1
4.320	28.0	0.6	48.6	56.0	-7.4
4.620	27.8	0.6	48.4	56.0	-7.6
0.179	35.3	1.6	56.9	64.5	-7.6
4.380	27.6	0.6	48.2	56.0	-7.8
4.740	27.4	0.6	48.0	56.0	-8.0
4.560	27.4	0.6	48.0	56.0	-8.0
20.404	30.7	1.2	51.9	60.0	-8.1
20.288	30.5	1.2	51.7	60.0	-8.3
20.464	30.4	1.2	51.6	60.0	-8.4
20.510	30.3	1.2	51.5	60.0	-8.5
4.800	26.7	0.6	47.3	56.0	-8.7
20.644	29.4	1.2	50.6	60.0	-9.4
4.252	25.0	0.6	45.6	56.0	-10.4
0.300	26.7	1.1	47.8	60.2	-12.4
17.278	23.6	1.1	44.7	60.0	-15.3
4.672	12.9	0.6	33.5	56.0	-22.5

Average Data - vs - Average Limit

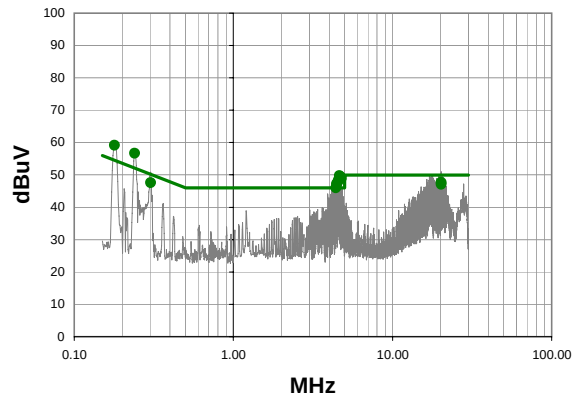
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.240	33.7	1.2	54.9	52.1	2.8
0.179	35.6	1.6	57.2	54.5	2.7
4.440	27.7	0.6	48.3	46.0	2.3
4.320	27.7	0.6	48.3	46.0	2.3
4.500	27.6	0.6	48.2	46.0	2.2
4.380	27.4	0.6	48.0	46.0	2.0
4.620	27.0	0.6	47.6	46.0	1.6
4.740	26.7	0.6	47.3	46.0	1.3
4.560	26.5	0.6	47.1	46.0	1.1
4.800	25.7	0.6	46.3	46.0	0.3
4.200	25.7	0.6	46.3	46.0	0.3
20.404	28.0	1.2	49.2	50.0	-0.8
20.464	27.3	1.2	48.5	50.0	-1.5
20.288	26.4	1.2	47.6	50.0	-2.4
20.644	26.0	1.2	47.2	50.0	-2.8
20.510	25.6	1.2	46.8	50.0	-3.2
0.300	25.4	1.1	46.5	50.2	-3.7
4.252	19.6	0.6	40.2	46.0	-5.8
17.278	16.1	1.1	37.2	50.0	-12.8
4.672	4.9	0.6	25.5	46.0	-20.5

Work Order:	HONE0011	Date:	05/18/07		
Project:	None	Temperature:	23c		
Job Site:	OC06	Humidity:	32		
Serial Number:	None	Barometric Pres.:	30.08	Tested by: Jaemi Suh	
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)				
Configuration:	1				
Customer:	Honeywell				
Attendees:	David Shipley				
EUT Power:	120VAC/60Hz				
Operating Mode:	802.11(a) 6 Mbps, Low Channel (5.5 GHz). Radio On				
Deviations:	No deviations.				
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.				
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003		
Run #	14	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.240	35.9	1.2	57.1	62.1	-5.0
0.179	37.3	1.6	58.9	64.5	-5.6
4.644	29.6	0.6	50.2	56.0	-5.8
4.704	29.2	0.6	49.8	56.0	-6.2
4.584	29.1	0.6	49.7	56.0	-6.3
4.764	28.9	0.6	49.5	56.0	-6.5
4.524	28.1	0.6	48.7	56.0	-7.3
4.464	27.6	0.6	48.2	56.0	-7.8
0.303	30.4	1.1	51.5	60.2	-8.7
4.404	26.1	0.6	46.7	56.0	-9.3
20.268	29.5	1.2	50.7	60.0	-9.3
20.204	29.5	1.2	50.7	60.0	-9.3

Average Data - vs - Average Limit

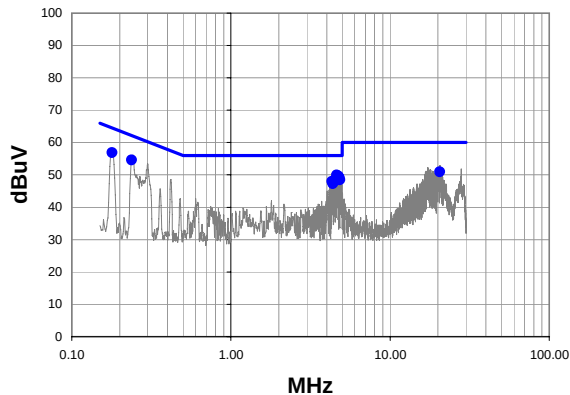
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.179	37.5	1.6	59.1	54.5	4.6
0.240	35.5	1.2	56.7	52.1	4.6
4.644	29.2	0.6	49.8	46.0	3.8
4.704	28.9	0.6	49.5	46.0	3.5
4.764	28.3	0.6	48.9	46.0	2.9
4.584	27.8	0.6	48.4	46.0	2.4
4.524	27.0	0.6	47.6	46.0	1.6
4.464	26.6	0.6	47.2	46.0	1.2
4.404	25.4	0.6	46.0	46.0	0.0
20.204	26.5	1.2	47.7	50.0	-2.3
0.303	26.5	1.1	47.6	50.2	-2.6
20.268	25.9	1.2	47.1	50.0	-2.9

EMC

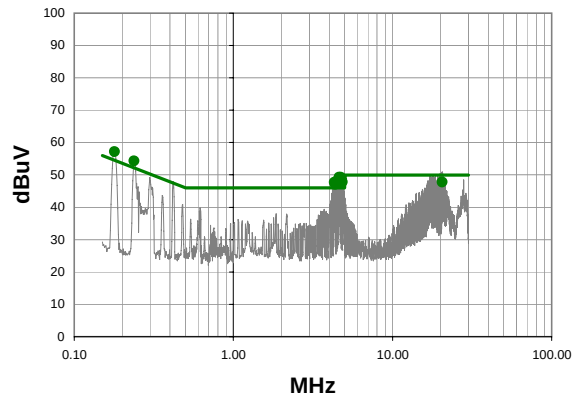
CONDUCTED EMISSIONS

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	Mid Channel. Radio Off.						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	15	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.612	29.4	0.6	50.0	56.0	-6.0
4.732	29.1	0.6	49.7	56.0	-6.3
4.792	28.6	0.6	49.2	56.0	-6.8
4.672	28.5	0.6	49.1	56.0	-6.9
4.848	27.9	0.6	48.5	56.0	-7.5
0.238	33.4	1.2	54.6	62.2	-7.6
0.179	35.3	1.6	56.9	64.5	-7.6
4.492	27.8	0.6	48.4	56.0	-7.6
4.552	27.7	0.6	48.3	56.0	-7.7
4.432	27.4	0.6	48.0	56.0	-8.0
4.312	27.4	0.6	48.0	56.0	-8.0
4.372	26.7	0.6	47.3	56.0	-8.7
20.534	29.8	1.2	51.0	60.0	-9.0

Average Data - vs - Average Limit

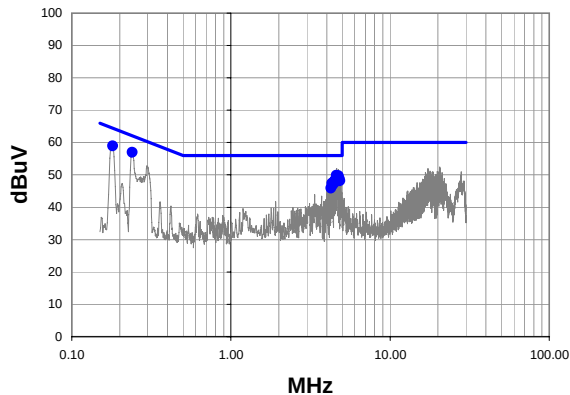
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.732	28.7	0.6	49.3	46.0	3.3
4.612	28.7	0.6	49.3	46.0	3.3
0.179	35.6	1.6	57.2	54.5	2.7
4.792	28.0	0.6	48.6	46.0	2.6
4.672	27.8	0.6	48.4	46.0	2.4
0.238	33.1	1.2	54.3	52.2	2.1
4.492	27.5	0.6	48.1	46.0	2.1
4.432	27.3	0.6	47.9	46.0	1.9
4.848	27.2	0.6	47.8	46.0	1.8
4.312	27.1	0.6	47.7	46.0	1.7
4.552	27.0	0.6	47.6	46.0	1.6
4.372	26.5	0.6	47.1	46.0	1.1
20.534	26.6	1.2	47.8	50.0	-2.2

EMC

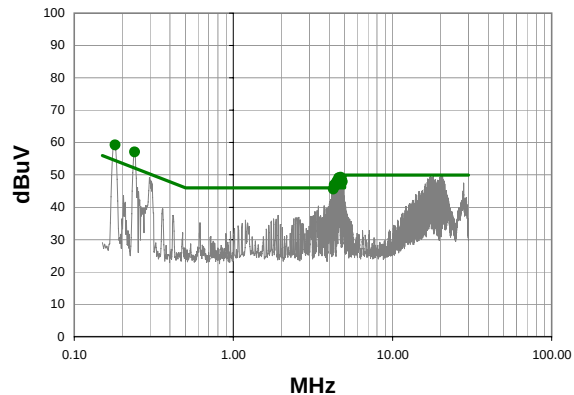
CONDUCTED EMISSIONS

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	Mid Channel. Radio Off.						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	16	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.240	35.8	1.2	57.0	62.1	-5.1
0.181	37.4	1.6	59.0	64.4	-5.5
4.608	29.3	0.6	49.9	56.0	-6.1
4.728	29.2	0.6	49.8	56.0	-6.2
4.788	28.3	0.6	48.9	56.0	-7.1
4.668	28.1	0.6	48.7	56.0	-7.3
4.488	27.7	0.6	48.3	56.0	-7.7
4.848	27.6	0.6	48.2	56.0	-7.8
4.548	27.2	0.6	47.8	56.0	-8.2
4.428	27.2	0.6	47.8	56.0	-8.2
4.308	26.8	0.6	47.4	56.0	-8.6
4.368	26.3	0.6	46.9	56.0	-9.1
4.248	25.3	0.6	45.9	56.0	-10.1

Average Data - vs - Average Limit

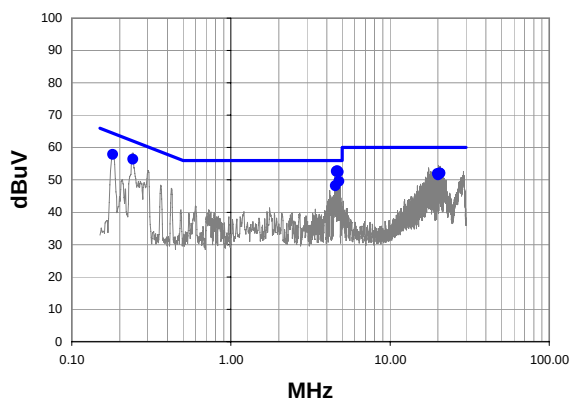
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.240	35.9	1.2	57.1	52.1	5.0
0.181	37.7	1.6	59.3	54.4	4.8
4.728	28.7	0.6	49.3	46.0	3.3
4.608	28.5	0.6	49.1	46.0	3.1
4.788	27.9	0.6	48.5	46.0	2.5
4.668	27.6	0.6	48.2	46.0	2.2
4.488	27.5	0.6	48.1	46.0	2.1
4.848	27.3	0.6	47.9	46.0	1.9
4.428	26.9	0.6	47.5	46.0	1.5
4.548	26.7	0.6	47.3	46.0	1.3
4.308	26.3	0.6	46.9	46.0	0.9
4.368	26.0	0.6	46.6	46.0	0.6
4.248	25.0	0.6	45.6	46.0	-0.4

EMC

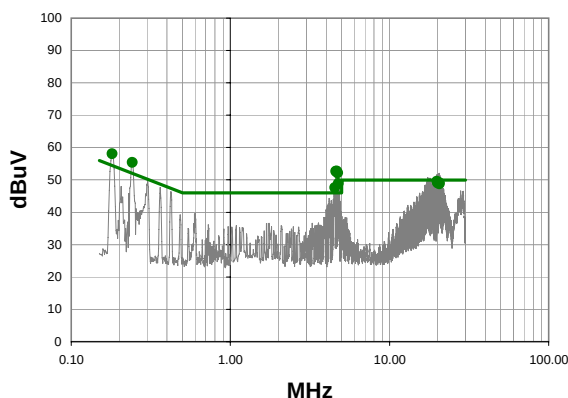
CONDUCTED EMISSIONS

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	802.11(a) 6Mbps, Mid Channel. Radio On.						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	17	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

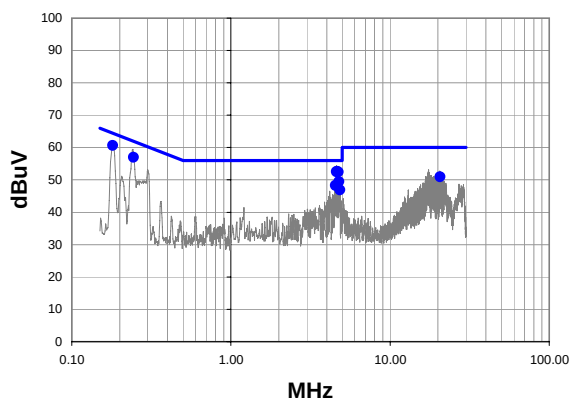
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.660	32.2	0.6	52.8	56.0	-3.2
4.600	32.0	0.6	52.6	56.0	-3.4
4.720	31.8	0.6	52.4	56.0	-3.6
0.242	35.2	1.2	56.4	62.0	-5.7
4.780	29.0	0.6	49.6	56.0	-6.4
0.181	36.3	1.6	57.9	64.4	-6.6
4.540	27.6	0.6	48.2	56.0	-7.8
20.518	30.9	1.2	52.1	60.0	-7.9
20.578	30.8	1.2	52.0	60.0	-8.0
19.912	30.8	1.2	52.0	60.0	-8.0
20.032	30.4	1.2	51.6	60.0	-8.4

Average Data - vs - Average Limit

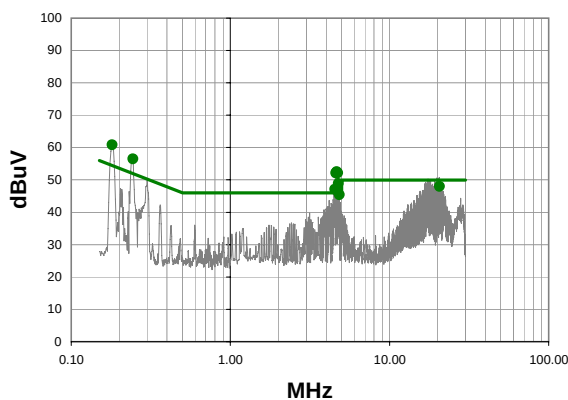
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.660	32.1	0.6	52.7	46.0	6.7
4.600	32.0	0.6	52.6	46.0	6.6
4.720	31.5	0.6	52.1	46.0	6.1
0.181	36.5	1.6	58.1	54.4	3.6
0.242	34.2	1.2	55.4	52.0	3.3
4.780	28.3	0.6	48.9	46.0	2.9
4.540	27.0	0.6	47.6	46.0	1.6
19.912	28.4	1.2	49.6	50.0	-0.4
20.518	28.0	1.2	49.2	50.0	-0.8
20.032	27.9	1.2	49.1	50.0	-0.9
20.578	27.6	1.2	48.8	50.0	-1.2

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	802.11(a) 6Mbps, Mid Channel. Radio On.						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	18	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.660	32.0	0.6	52.6	56.0	-3.4
4.600	31.9	0.6	52.5	56.0	-3.5
4.720	31.8	0.6	52.4	56.0	-3.6
0.181	39.1	1.6	60.7	64.4	-3.8
0.244	35.8	1.2	57.0	62.0	-5.0
4.780	28.9	0.6	49.5	56.0	-6.5
4.540	27.7	0.6	48.3	56.0	-7.7
20.578	29.8	1.2	51.0	60.0	-9.0
4.840	26.3	0.6	46.9	56.0	-9.1

Average Data - vs - Average Limit

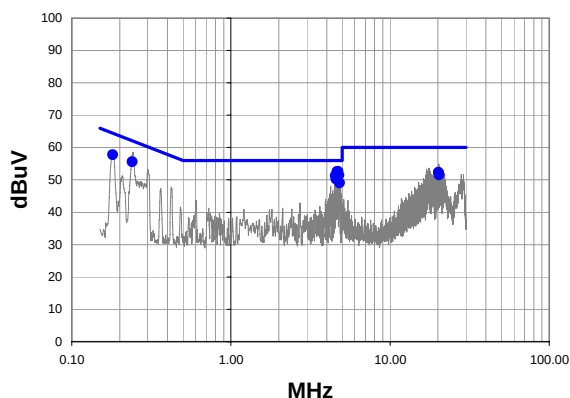
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.660	31.9	0.6	52.5	46.0	6.5
0.181	39.3	1.6	60.9	54.4	6.4
4.720	31.5	0.6	52.1	46.0	6.1
4.600	31.5	0.6	52.1	46.0	6.1
0.244	35.3	1.2	56.5	52.0	4.5
4.780	28.3	0.6	48.9	46.0	2.9
4.540	26.5	0.6	47.1	46.0	1.1
4.840	24.8	0.6	45.4	46.0	-0.6
20.578	26.8	1.2	48.0	50.0	-2.0

EMC

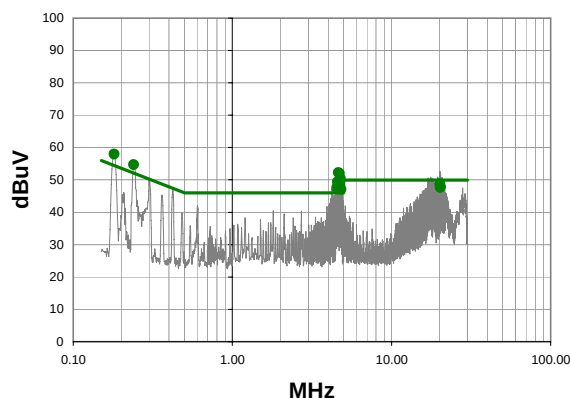
CONDUCTED EMISSIONS

Work Order:	HONE0011	Date:	05/18/07				
Project:	None	Temperature:	23c				
Job Site:	OC06	Humidity:	32				
Serial Number:	None	Barometric Pres.:	30.08				
Tested by: Jaemi Suh							
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)						
Configuration:	1						
Customer:	Honeywell						
Attendees:	David Shipley						
EUT Power:	120VAC/60Hz						
Operating Mode:	802.11(a) 6Mbps, High Channel. Radio On.						
Deviations:	No deviations.						
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.						
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003				
Run #	19	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

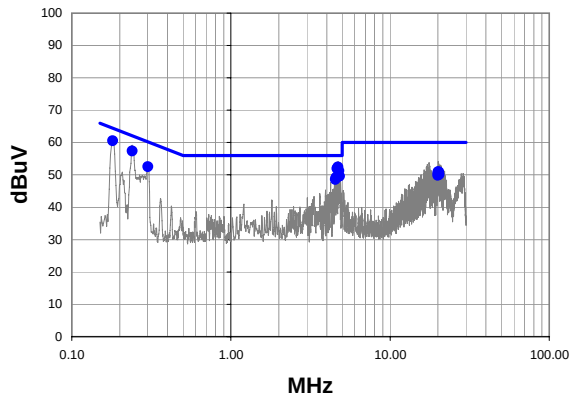
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.708	32.0	0.6	52.6	56.0	-3.4
4.648	31.9	0.6	52.5	56.0	-3.5
4.768	30.8	0.6	51.4	56.0	-4.6
4.528	30.7	0.6	51.3	56.0	-4.7
4.588	29.7	0.6	50.3	56.0	-5.7
0.240	34.4	1.2	55.6	62.1	-6.5
0.181	36.2	1.6	57.8	64.4	-6.7
4.828	28.5	0.6	49.1	56.0	-6.9
20.164	31.2	1.2	52.4	60.0	-7.6
20.224	30.9	1.2	52.1	60.0	-7.9
20.344	30.4	1.2	51.6	60.0	-8.4

Average Data - vs - Average Limit

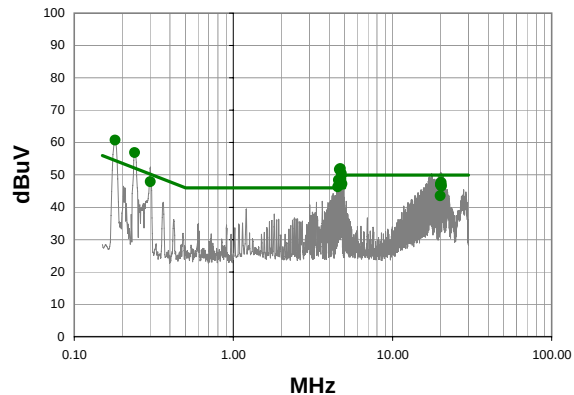
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.648	31.6	0.6	52.2	46.0	6.2
4.708	31.4	0.6	52.0	46.0	6.0
4.768	29.9	0.6	50.5	46.0	4.5
0.181	36.4	1.6	58.0	54.4	3.5
4.588	28.8	0.6	49.4	46.0	3.4
0.240	33.5	1.2	54.7	52.1	2.6
4.528	27.0	0.6	47.6	46.0	1.6
4.828	26.5	0.6	47.1	46.0	1.1
20.164	27.6	1.2	48.8	50.0	-1.2
20.344	26.6	1.2	47.8	50.0	-2.2
20.224	26.5	1.2	47.7	50.0	-2.3

Work Order:	HONE0011	Date:	05/18/07		
Project:	None	Temperature:	23c		
Job Site:	OC06	Humidity:	32		
Serial Number:	None	Barometric Pres.:	30.08	Tested by: Jaemi Suh	
EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)				
Configuration:	1				
Customer:	Honeywell				
Attendees:	David Shipley				
EUT Power:	120VAC/60Hz				
Operating Mode:	802.11(a) 6Mbps, High Channel. Radio On.				
Deviations:	No deviations.				
Comments:	Compliance is based on Emission comparison between radio on and radio off plots. Plot should show no difference between radio on and off. Refer to Wistron FCC Grant NKRCM9 for radio conducted emissions compliance.				
Test Specifications FCC 15.207:2006			Test Method ANSI C63.4:2003		
Run #	20	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.708	31.8	0.6	52.4	56.0	-3.6
0.181	39.0	1.6	60.6	64.4	-3.9
4.648	31.3	0.6	51.9	56.0	-4.1
0.240	36.2	1.2	57.4	62.1	-4.7
4.768	30.6	0.6	51.2	56.0	-4.8
4.828	29.0	0.6	49.6	56.0	-6.4
4.588	28.6	0.6	49.2	56.0	-6.8
4.528	28.0	0.6	48.6	56.0	-7.4
0.301	31.4	1.1	52.5	60.2	-7.7
20.224	29.8	1.2	51.0	60.0	-9.0
20.104	29.8	1.2	51.0	60.0	-9.0
20.284	29.4	1.2	50.6	60.0	-9.4
20.044	29.4	1.2	50.6	60.0	-9.4
20.344	28.9	1.2	50.1	60.0	-9.9
19.988	28.7	1.2	49.9	60.0	-10.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.708	31.3	0.6	51.9	46.0	5.9
4.648	31.0	0.6	51.6	46.0	5.6
0.240	35.7	1.2	56.9	52.1	4.8
4.768	29.9	0.6	50.5	46.0	4.5
4.588	27.8	0.6	48.4	46.0	2.4
4.828	26.6	0.6	47.2	46.0	1.2
4.528	25.7	0.6	46.3	46.0	0.3
0.301	26.8	1.1	47.9	50.2	-2.3
20.224	26.5	1.2	47.7	50.0	-2.3
20.104	25.9	1.2	47.1	50.0	-2.9
20.284	25.8	1.2	47.0	50.0	-3.0
20.044	25.7	1.2	46.9	50.0	-3.1
20.344	25.3	1.2	46.5	50.0	-3.5
19.988	22.4	1.2	43.6	50.0	-6.4



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

EMC

OCCUPIED BANDWIDTH

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	41%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting on PC = (25) in Test Software.

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps				
	Low Channel	16.65 MHz	> 500 KHz	Pass
	Mid Channel	16.60 MHz	> 500 KHz	Pass
	High Channel	16.60 MHz	> 500 KHz	Pass
802.11(a) 36 Mbps				
	Low Channel	16.60 MHz	> 500 KHz	Pass
	Mid Channel	16.60 MHz	> 500 KHz	Pass
	High Channel	16.55 MHz	> 500 KHz	Pass
802.11(a) 54 Mbps				
	Low Channel	16.60 MHz	> 500 KHz	Pass
	Mid Channel	16.65 MHz	> 500 KHz	Pass
	High Channel	16.60 MHz	> 500 KHz	Pass

EMC

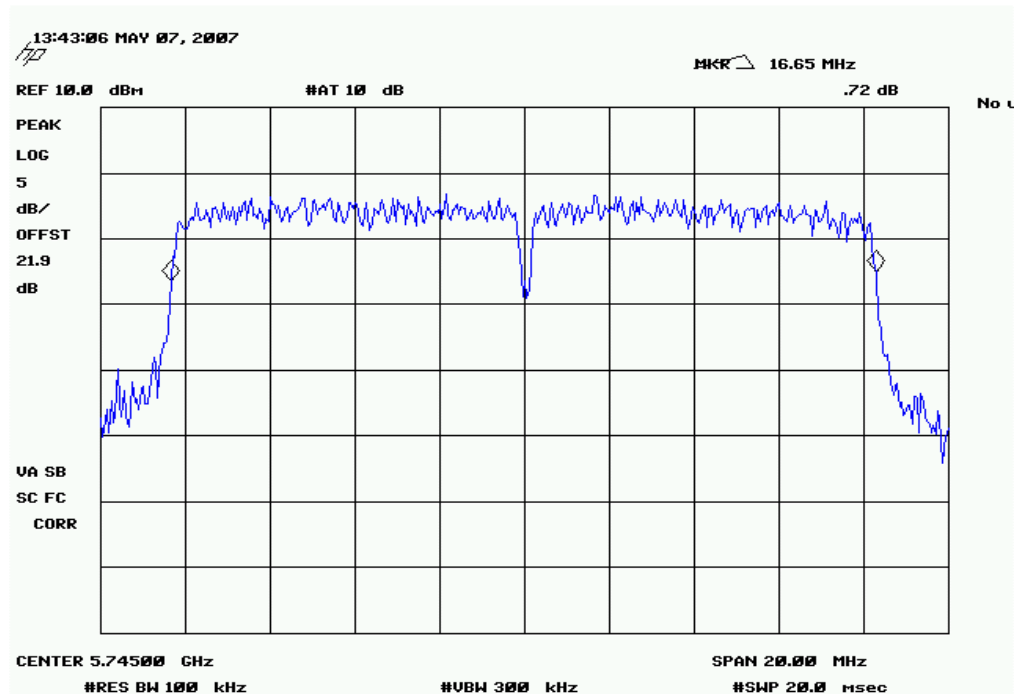
OCCUPIED BANDWIDTH

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: 16.65 MHz

Limit: > 500 KHz

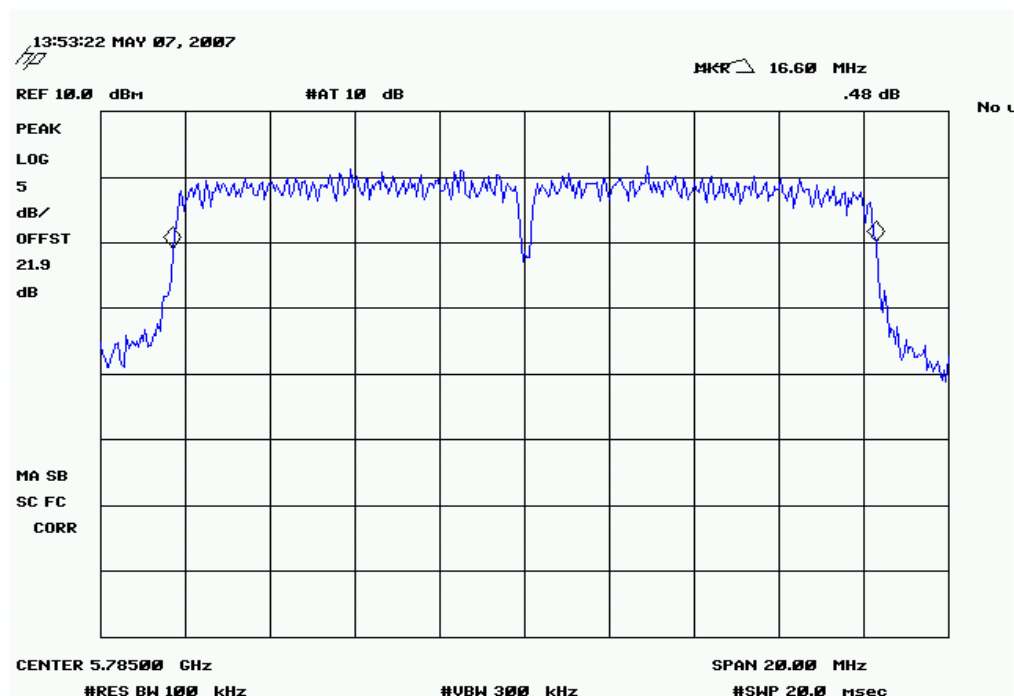


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz



EMC

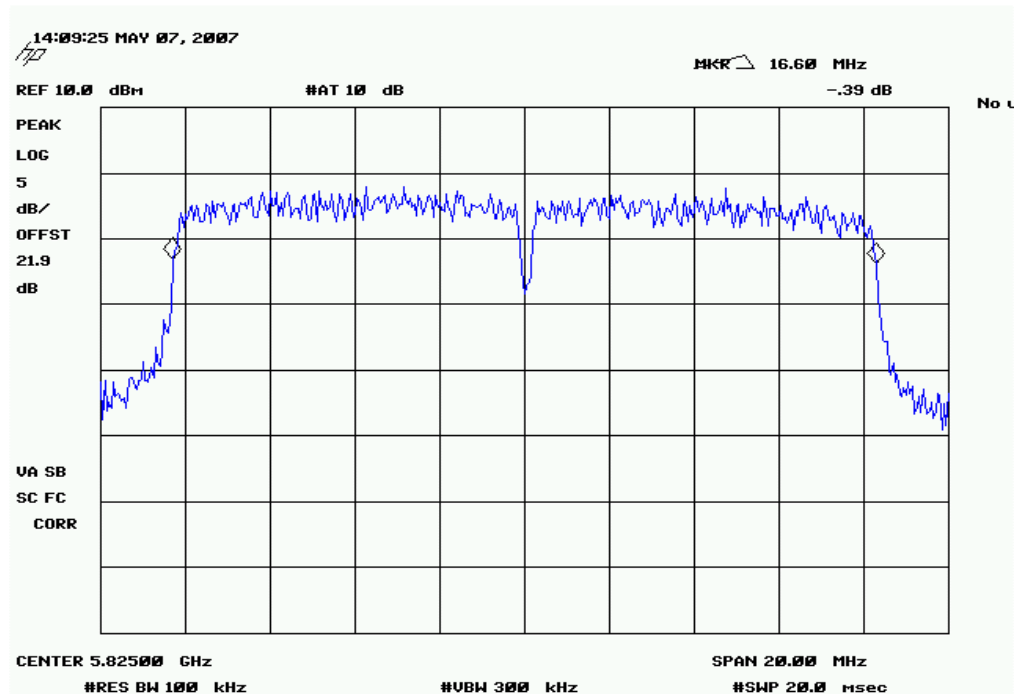
OCCUPIED BANDWIDTH

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

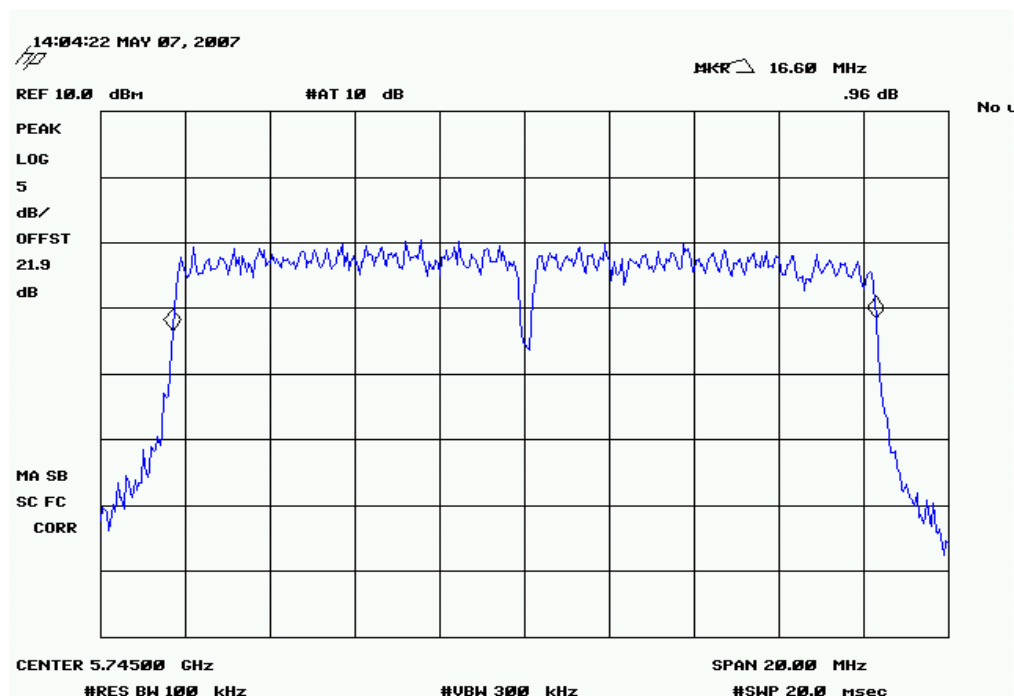


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz



EMC

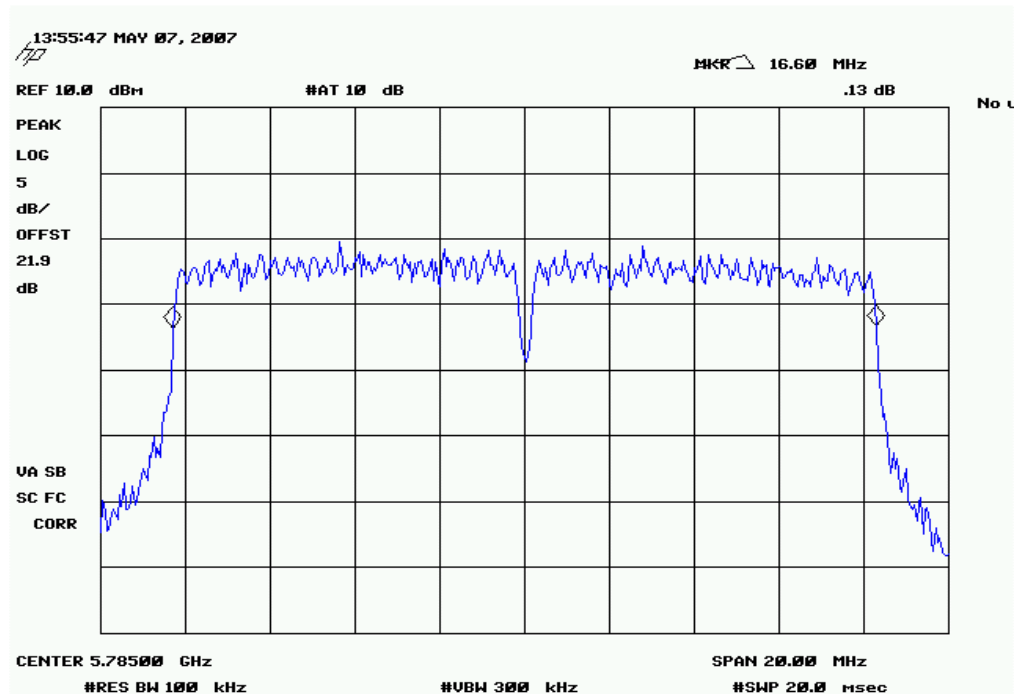
OCCUPIED BANDWIDTH

802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

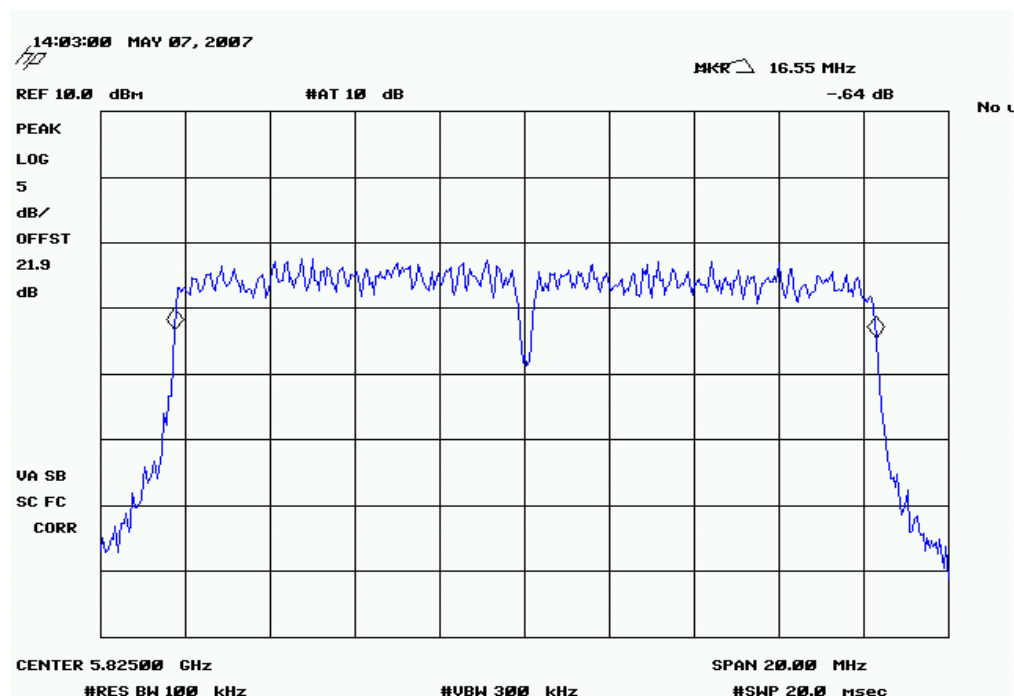


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: 16.55 MHz

Limit: > 500 KHz



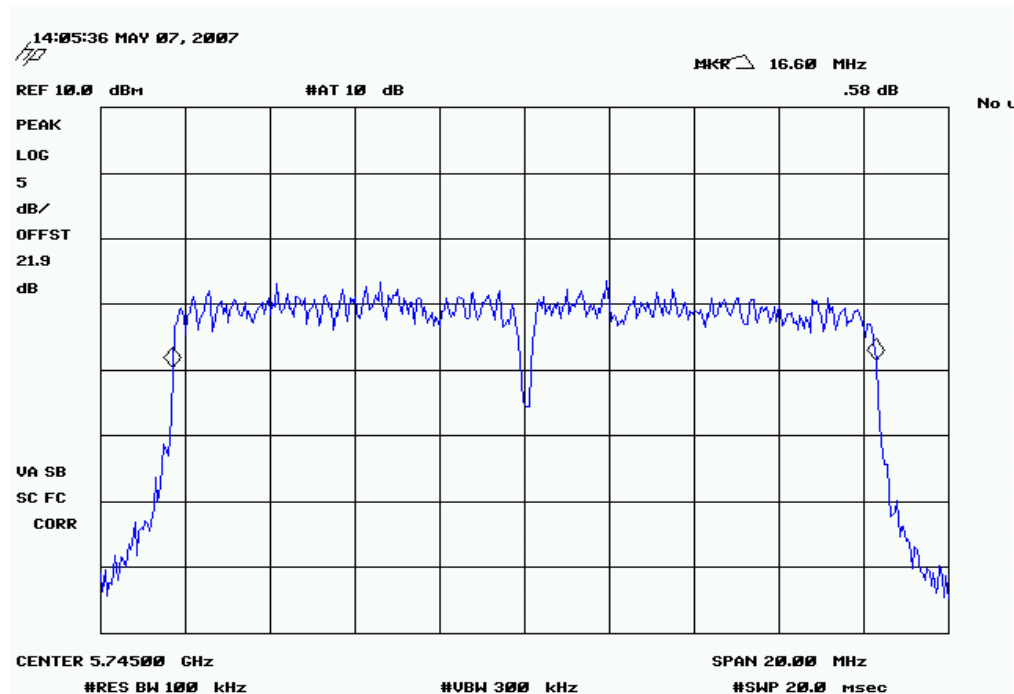
OCCUPIED BANDWIDTH

802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

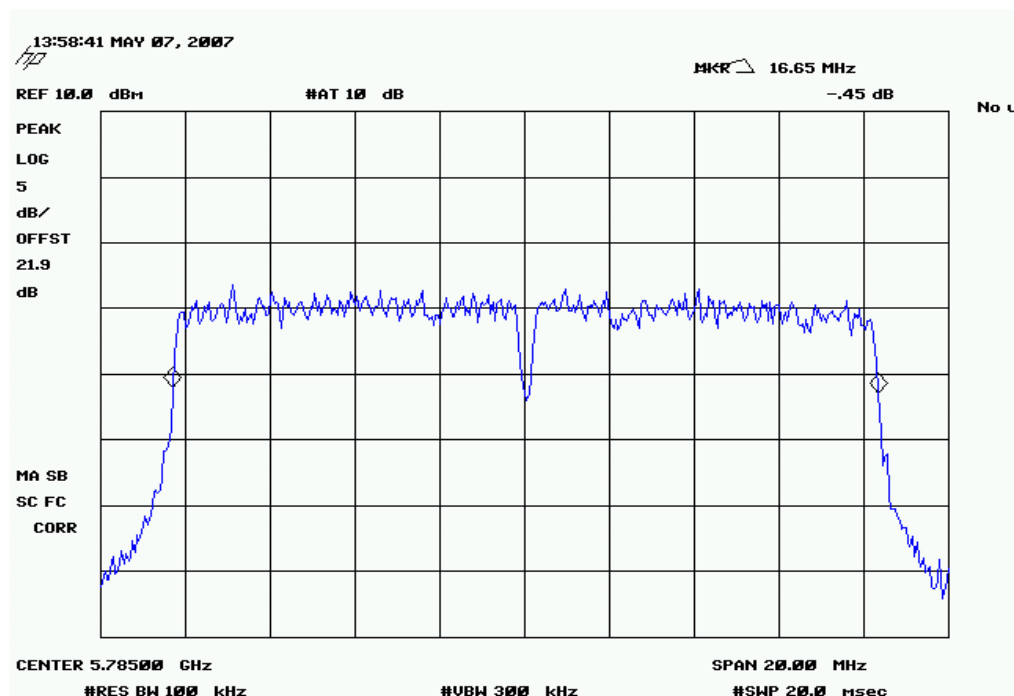


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: 16.65 MHz

Limit: > 500 KHz



EMC

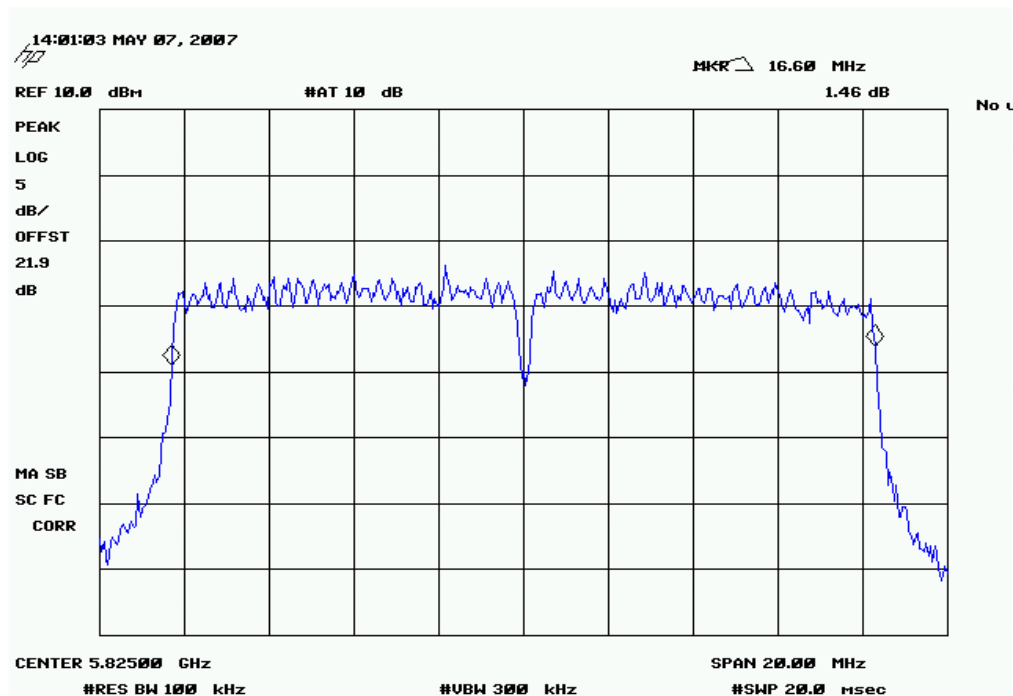
OCCUPIED BANDWIDTH

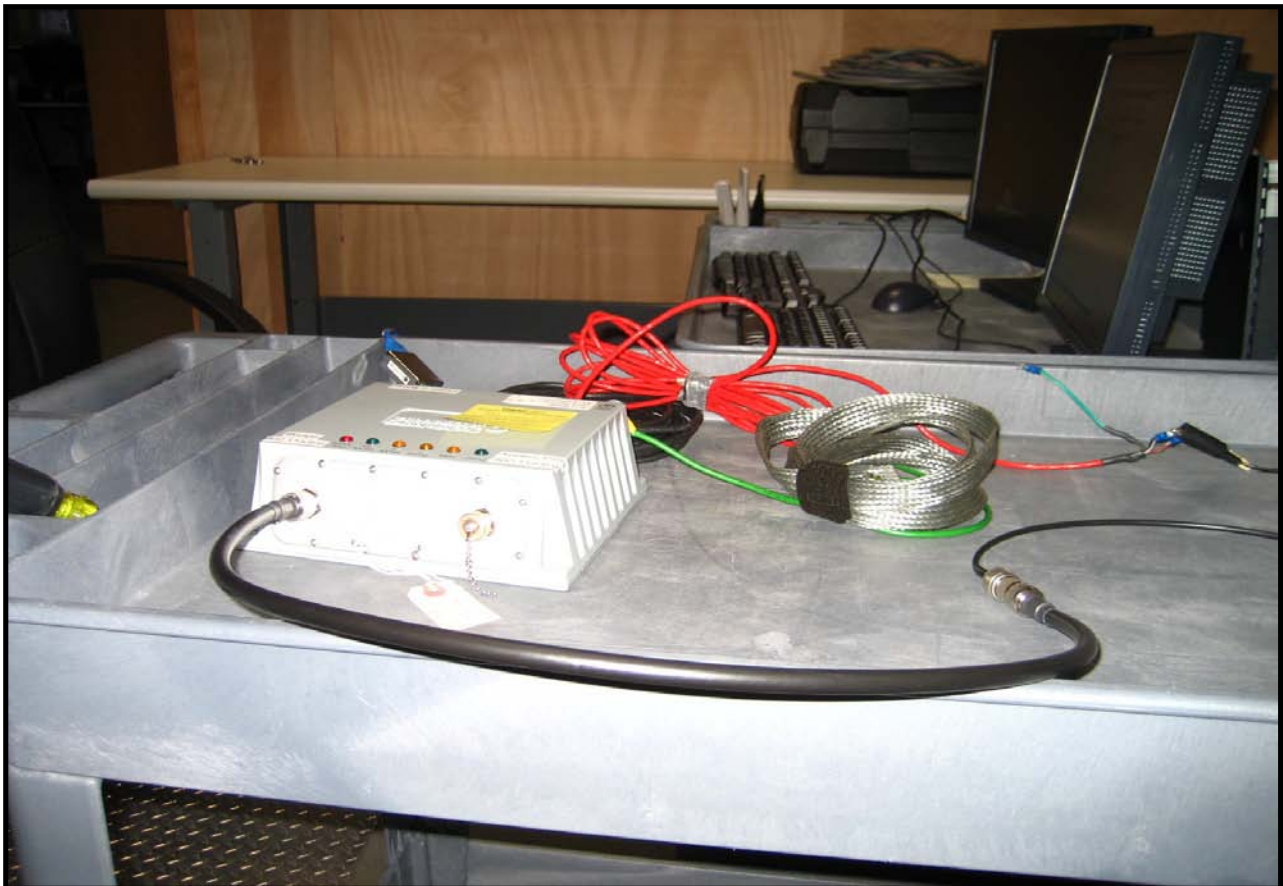
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

EMC

OCCUPIED BANDWIDTH

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	41%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting =(-7) in Test Software

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps				
	Low Channel	16.60 MHz	> 500 KHz	Pass
	Mid Channel	16.65 MHz	> 500 KHz	Pass
	High Channel	16.55 MHz	> 500 KHz	Pass
802.11(a) 36 Mbps				
	Low Channel	16.60 MHz	> 500 KHz	Pass
	Mid Channel	16.60 MHz	> 500 KHz	Pass
	High Channel	16.60 MHz	> 500 KHz	Pass
802.11(a) 54 Mbps				
	Low Channel	16.60 MHz	> 500 KHz	Pass
	Mid Channel	16.55 MHz	> 500 KHz	Pass
	High Channel	16.55 MHz	> 500 KHz	Pass

EMC

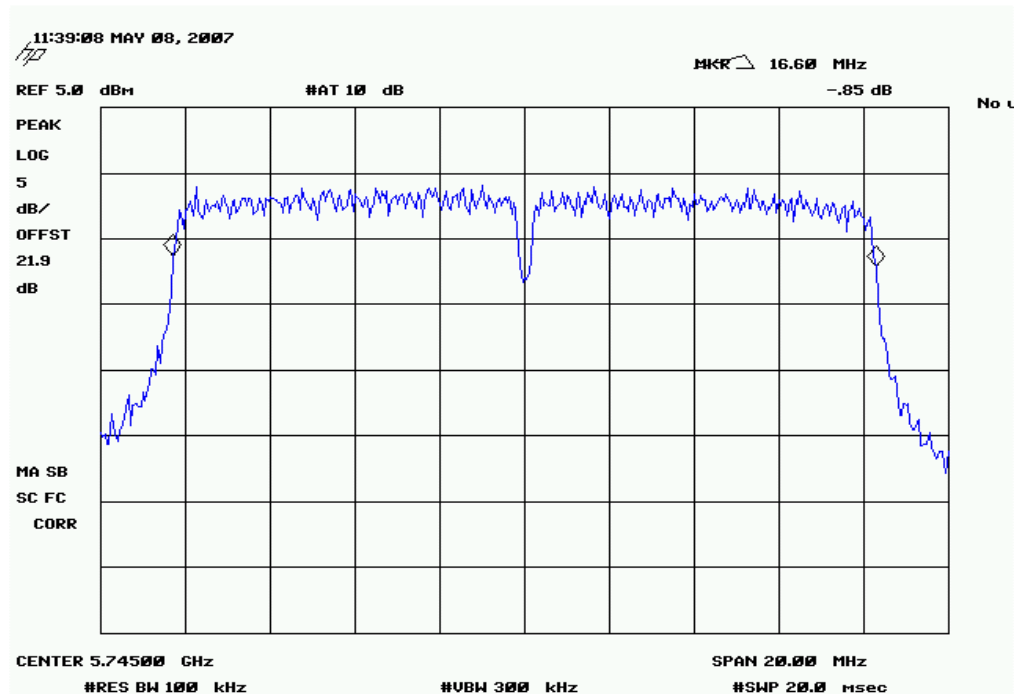
OCCUPIED BANDWIDTH

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

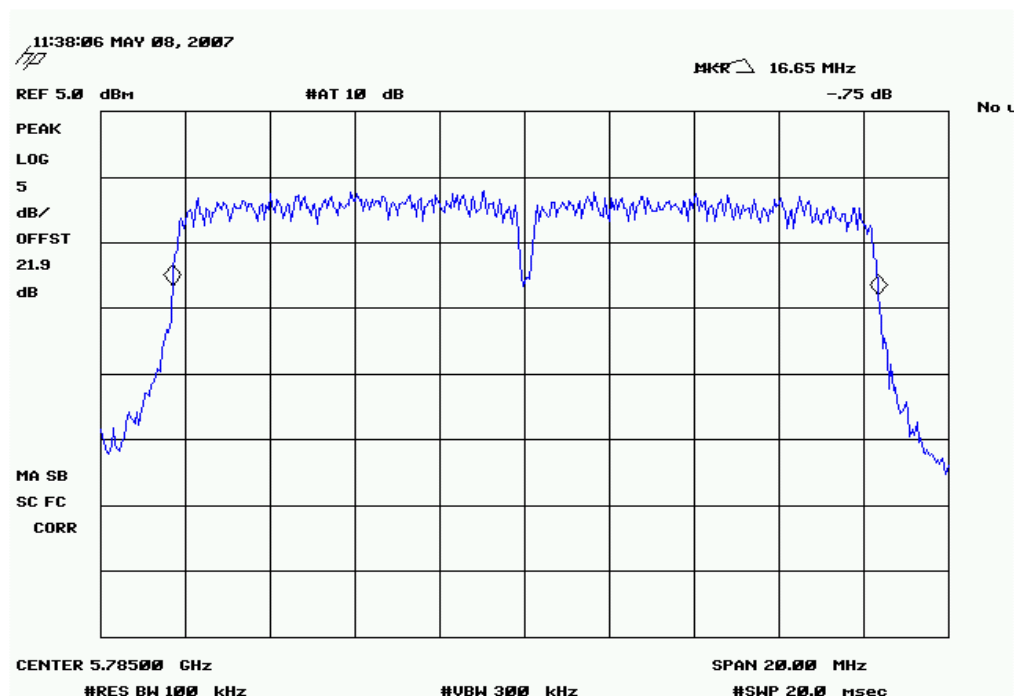


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: 16.65 MHz

Limit: > 500 KHz

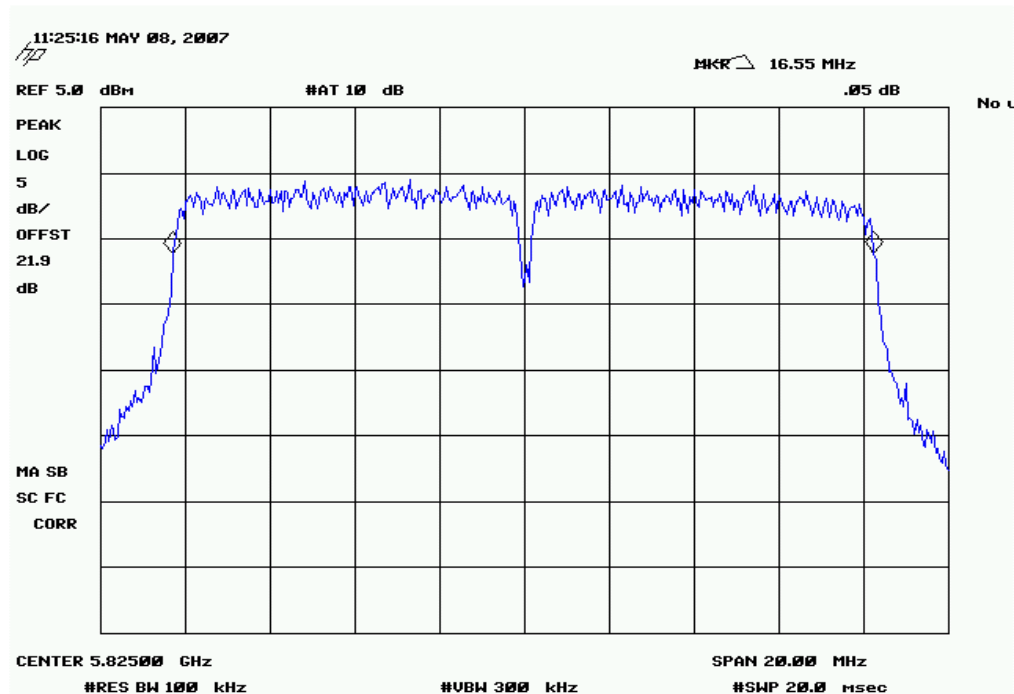


802.11(a) 6 Mbps, High Channel

Result: Pass

Value: 16.55 MHz

Limit: > 500 KHz

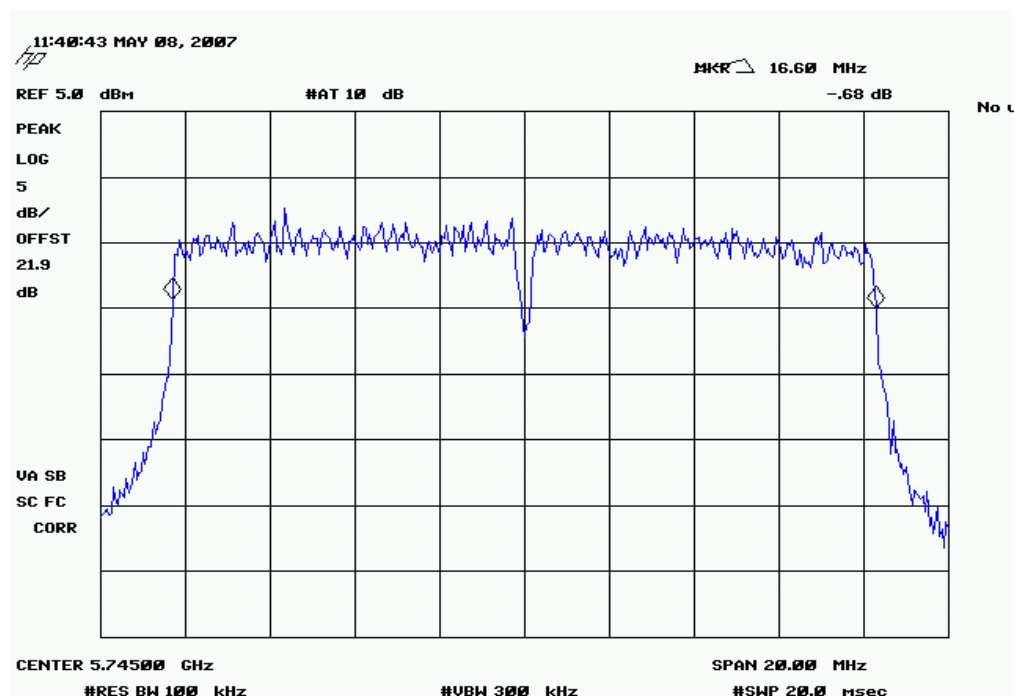


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz



EMC

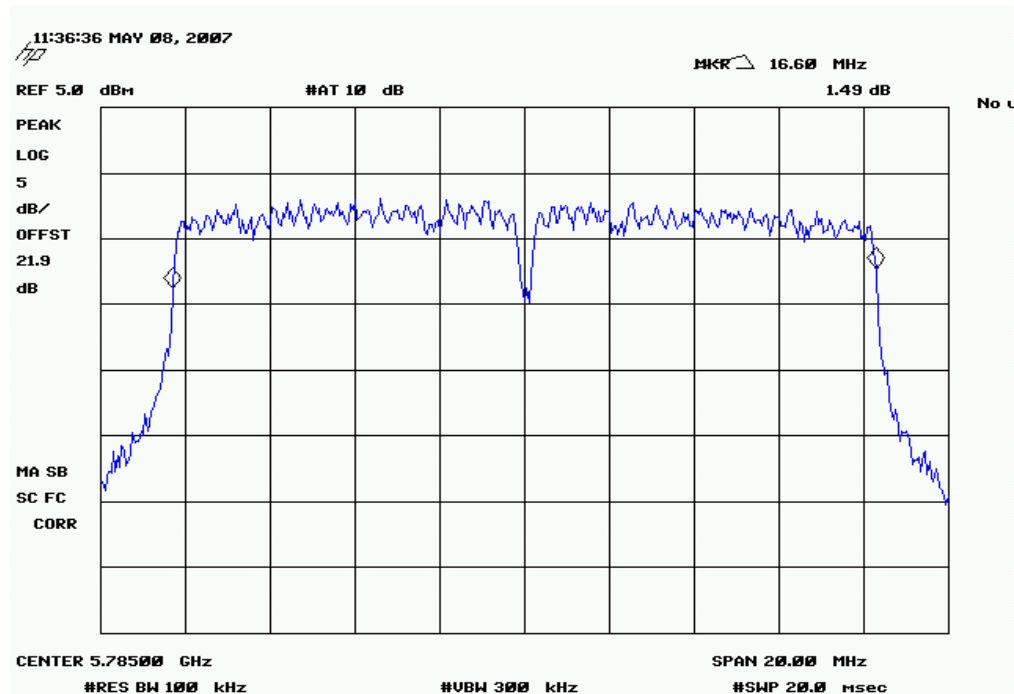
OCCUPIED BANDWIDTH

802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

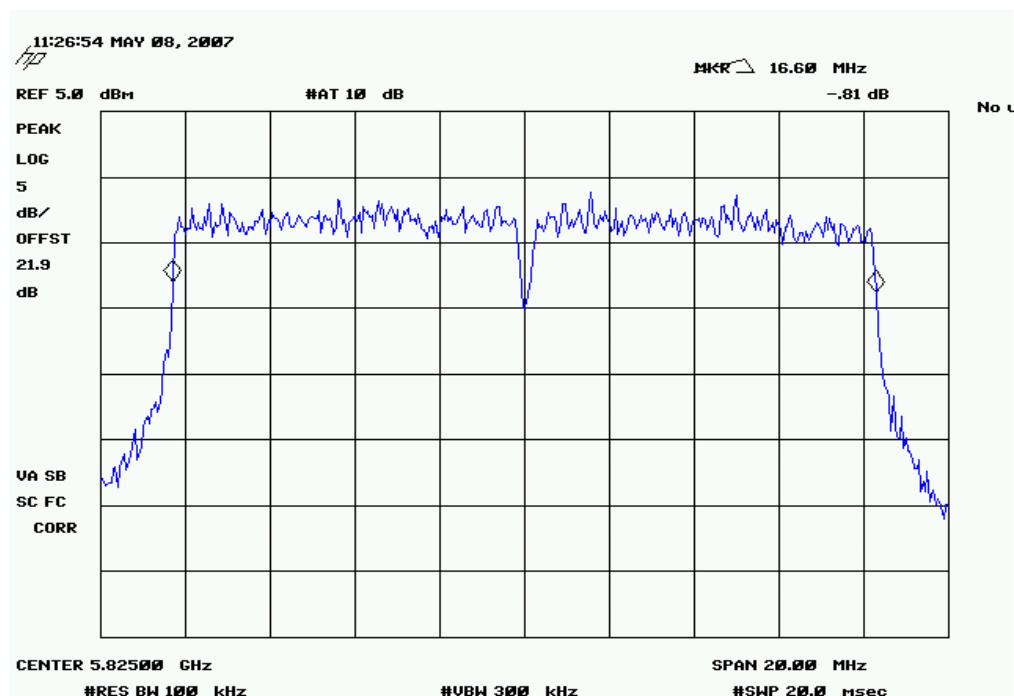


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz



EMC

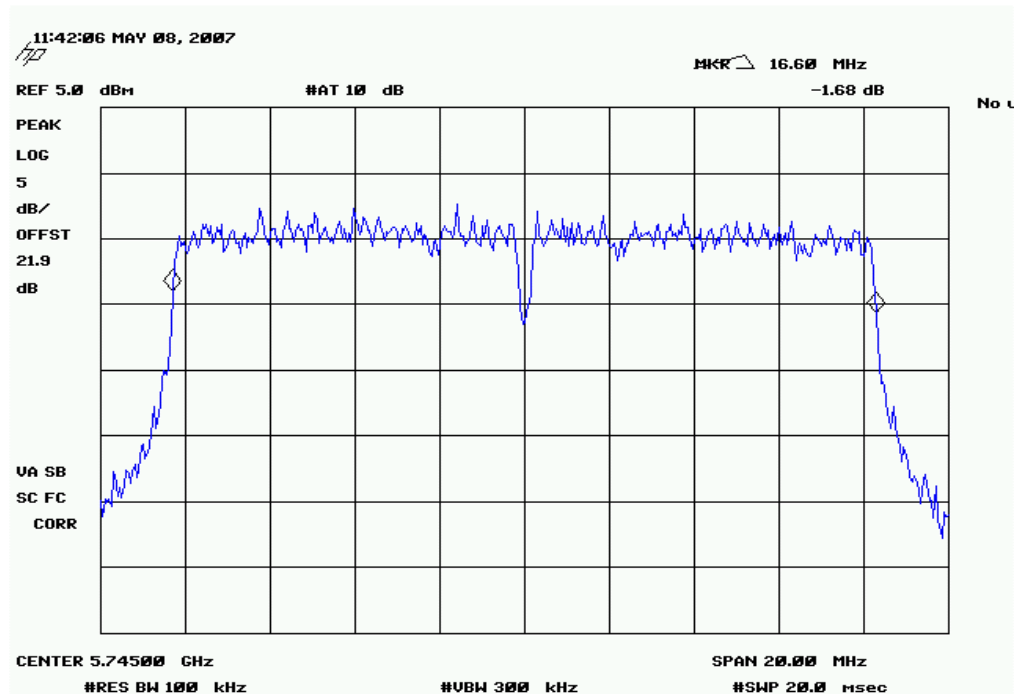
OCCUPIED BANDWIDTH

802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: 16.60 MHz

Limit: > 500 KHz

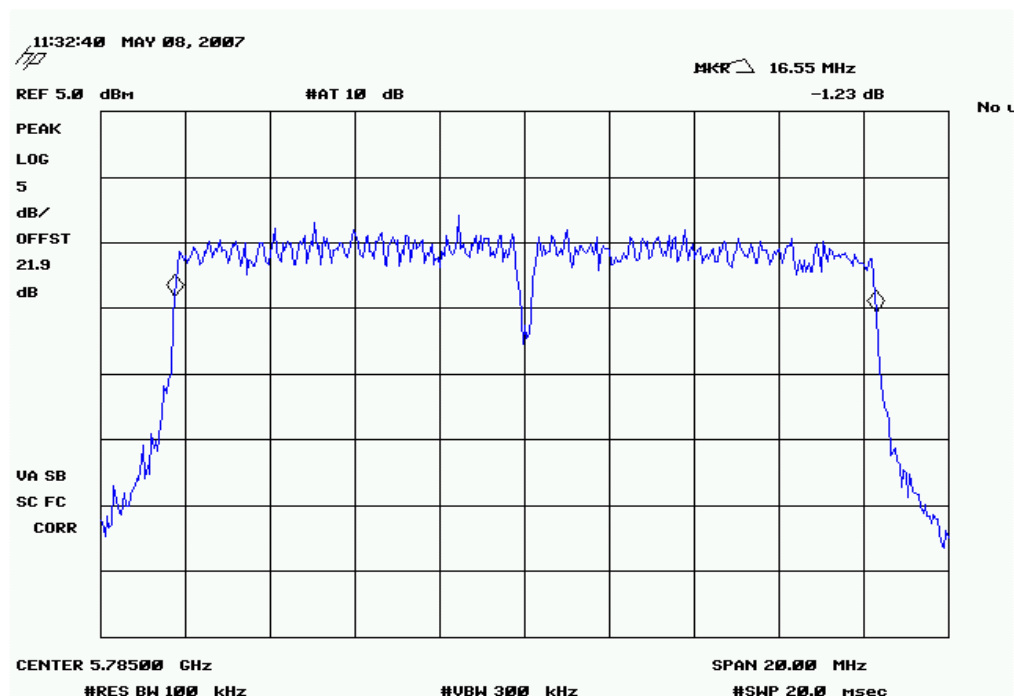


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: 16.55 MHz

Limit: > 500 KHz



EMC

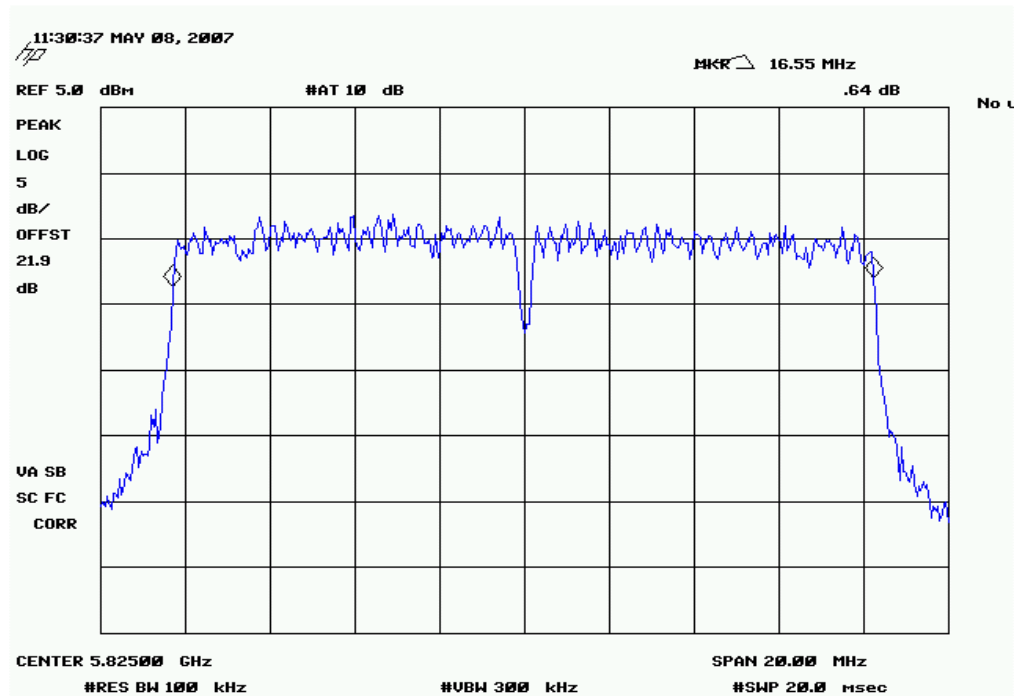
OCCUPIED BANDWIDTH

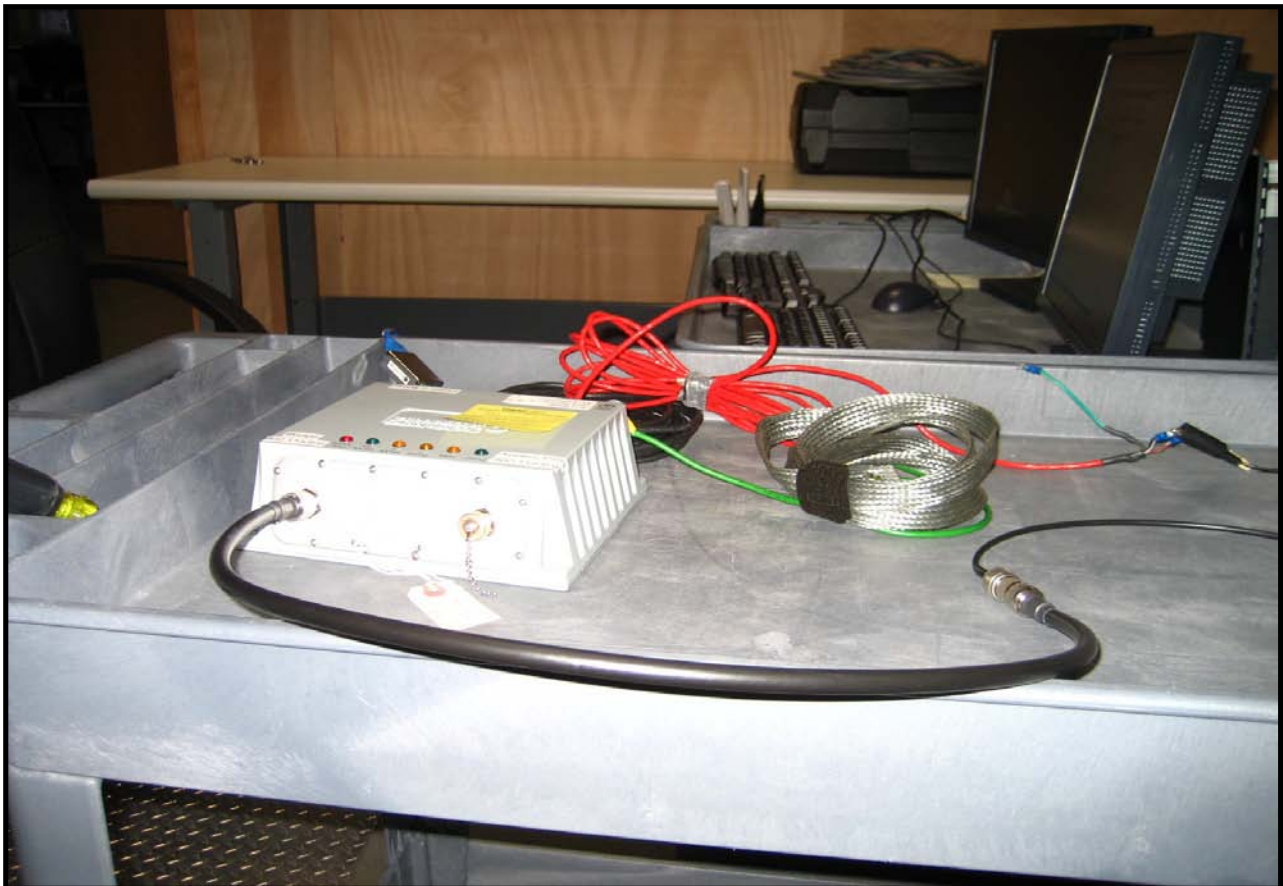
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: 16.55 MHz

Limit: > 500 KHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Hewlett-Packard	8481H	SPB	11/1/2006	13
Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

EMC

OUTPUT POWER

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	41%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (25) in Test Software. Maximum Antenna Gain =12 dBi. Cable Loss = 1.8 dBm. Limit: 36dBm-12dBi+1.8dBi = 25.8 dBm

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps				
	Low Channel	23.27 dBm	25.8 dBm	Pass
	Mid Channel	24.22 dBm	25.8 dBm	Pass
	High Channel	23.19 dBm	25.8 dBm	Pass
802.11(a) 36 Mbps				
	Low Channel	18.89 dBm	25.8 dBm	Pass
	Mid Channel	18.28 dBm	25.8 dBm	Pass
	High Channel	18.90 dBm	25.8 dBm	Pass
802.11(a) 54 Mbps				
	Low Channel	15.29 dBm	25.8 dBm	Pass
	Mid Channel	15.03 dBm	25.8 dBm	Pass
	High Channel	16.26 dBm	25.8 dBm	Pass

EMC

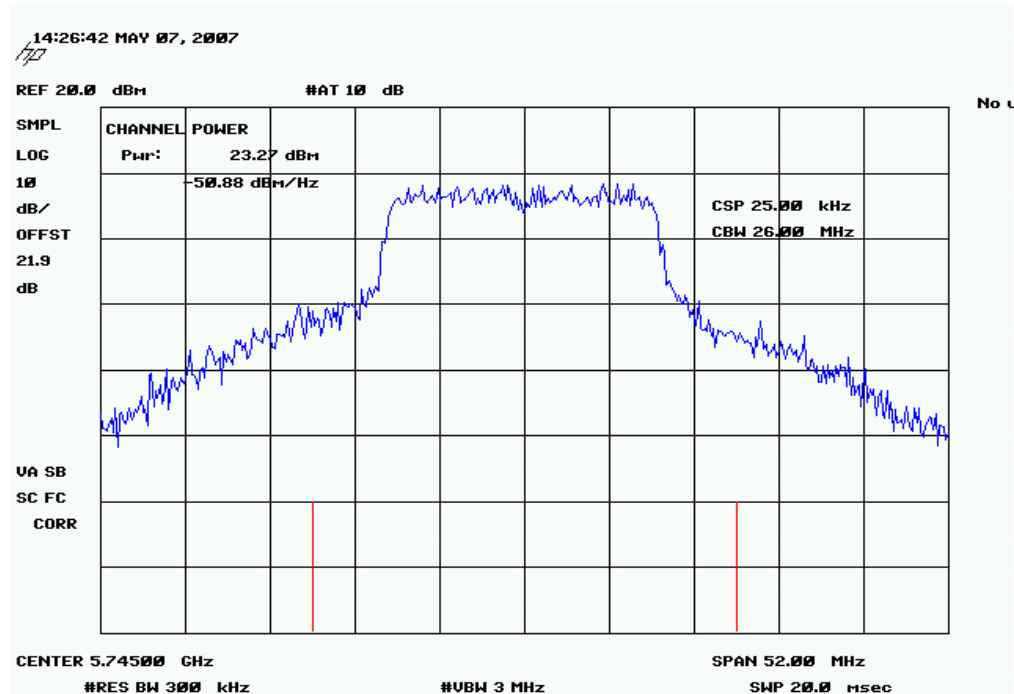
OUTPUT POWER

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: 23.27 dBm

Limit: 25.8 dBm

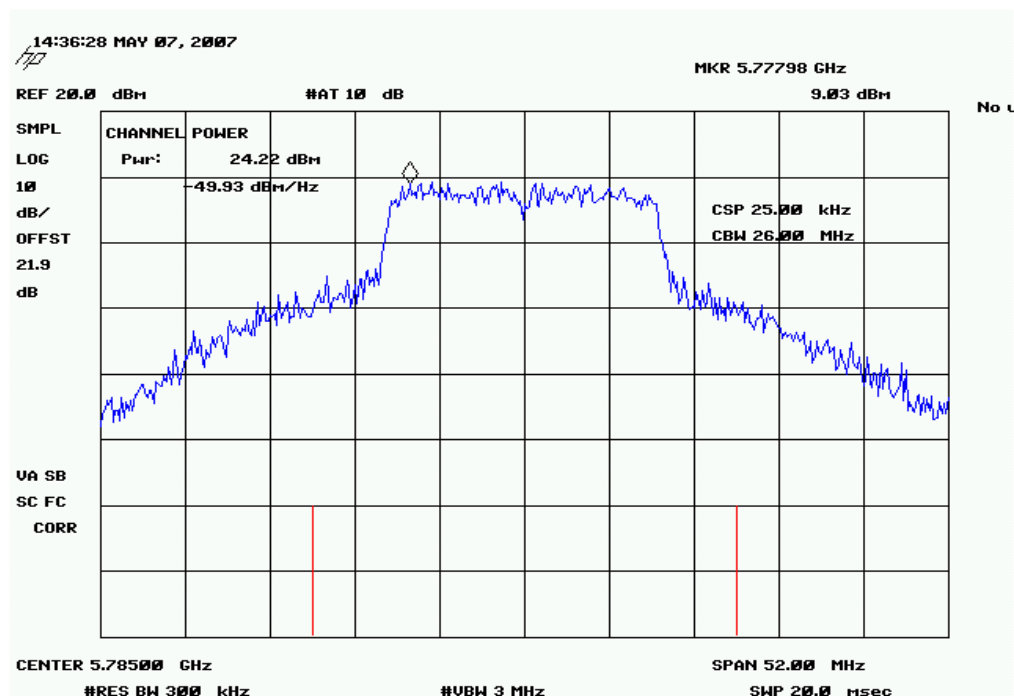


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: 24.22 dBm

Limit: 25.8 dBm

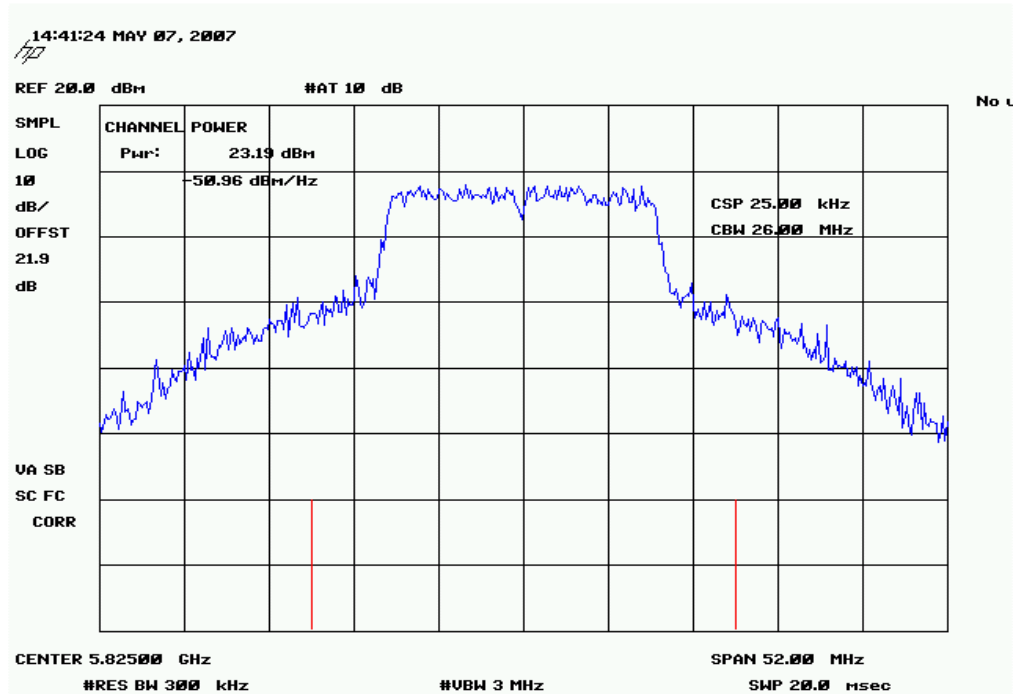


802.11(a) 6 Mbps, High Channel

Result: Pass

Value: 23.19 dBm

Limit: 25.8 dBm

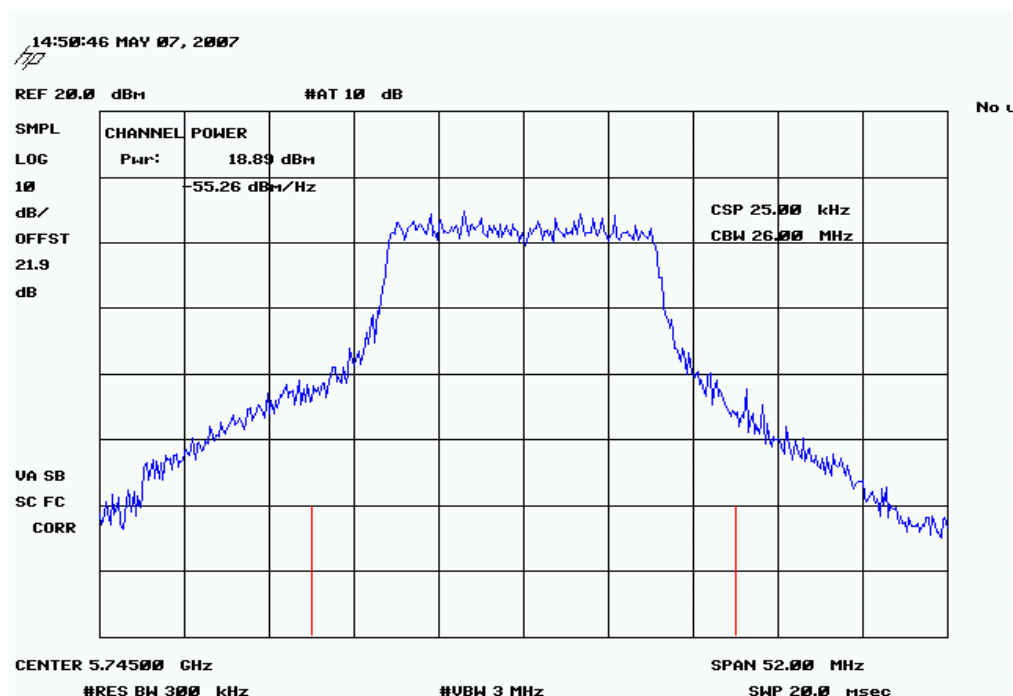


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: 18.89 dBm

Limit: 25.8 dBm

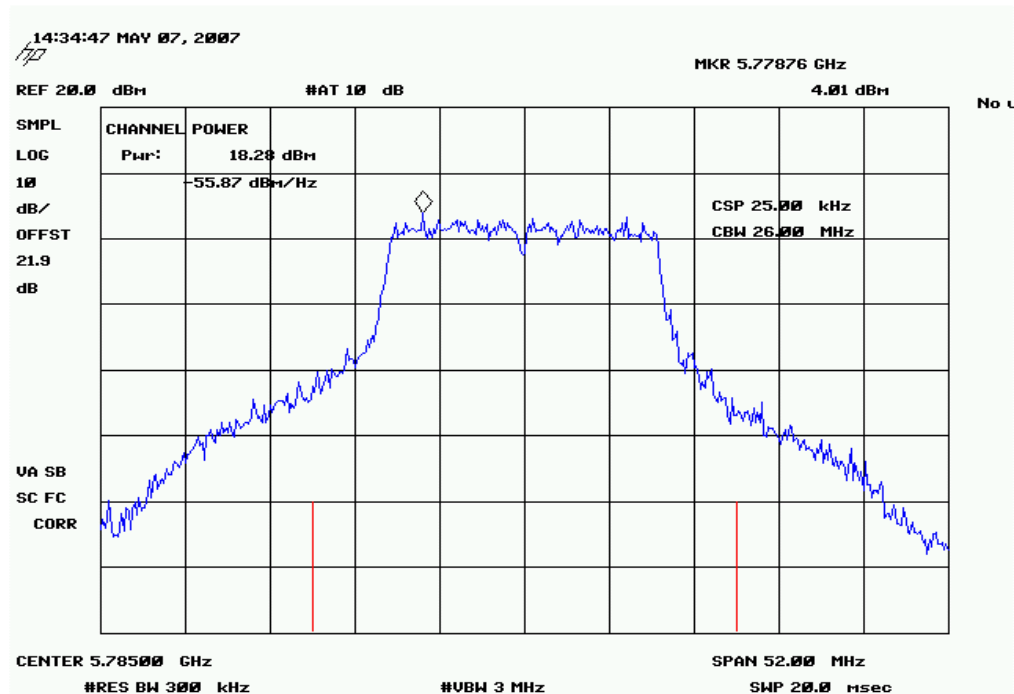


802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: 18.28 dBm

Limit: 25.8 dBm

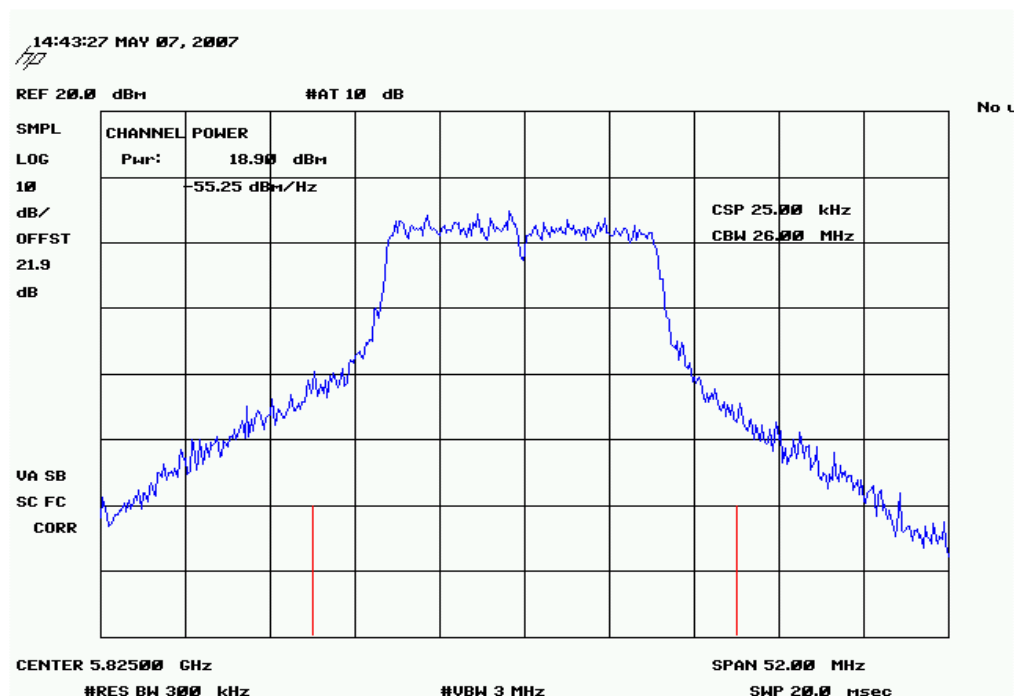


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: 18.90 dBm

Limit: 25.8 dBm

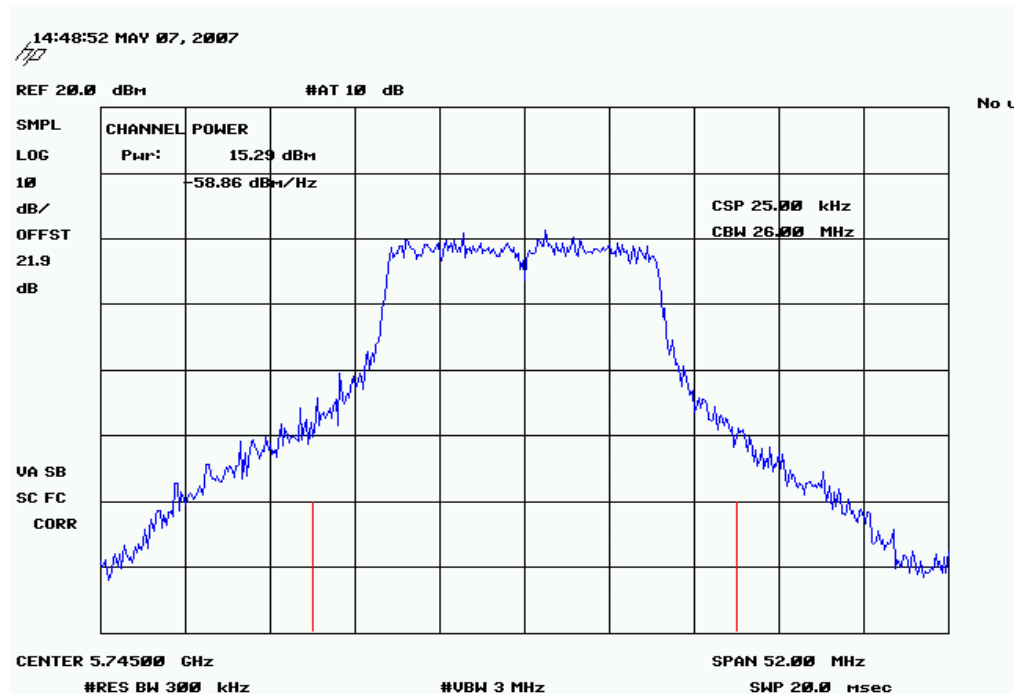


802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: 15.29 dBm

Limit: 25.8 dBm

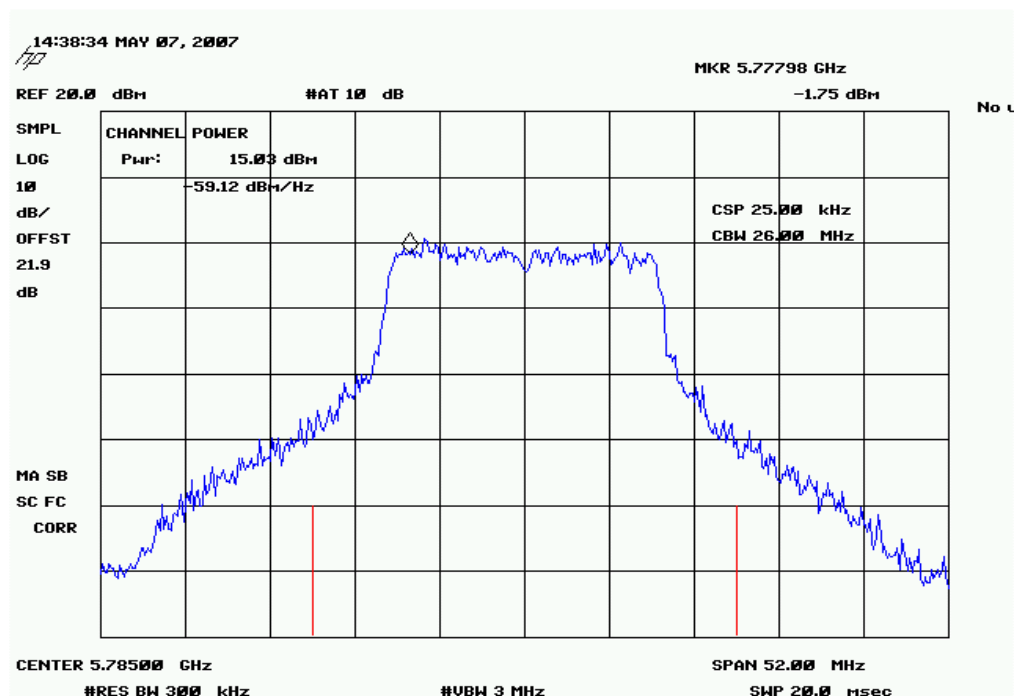


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: 15.03 dBm

Limit: 25.8 dBm



EMC

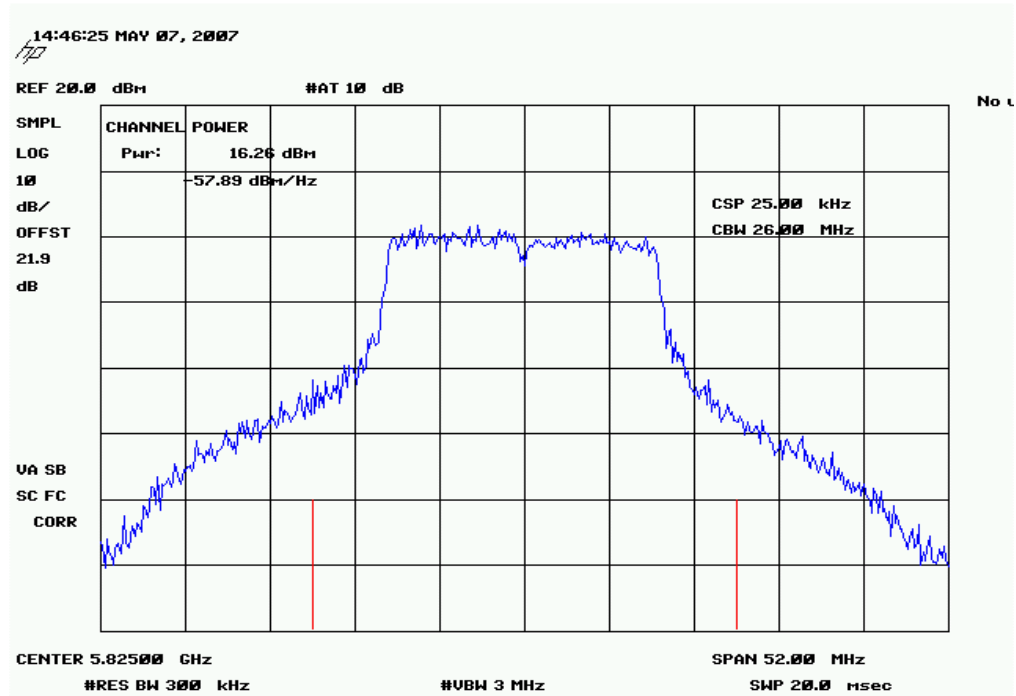
OUTPUT POWER

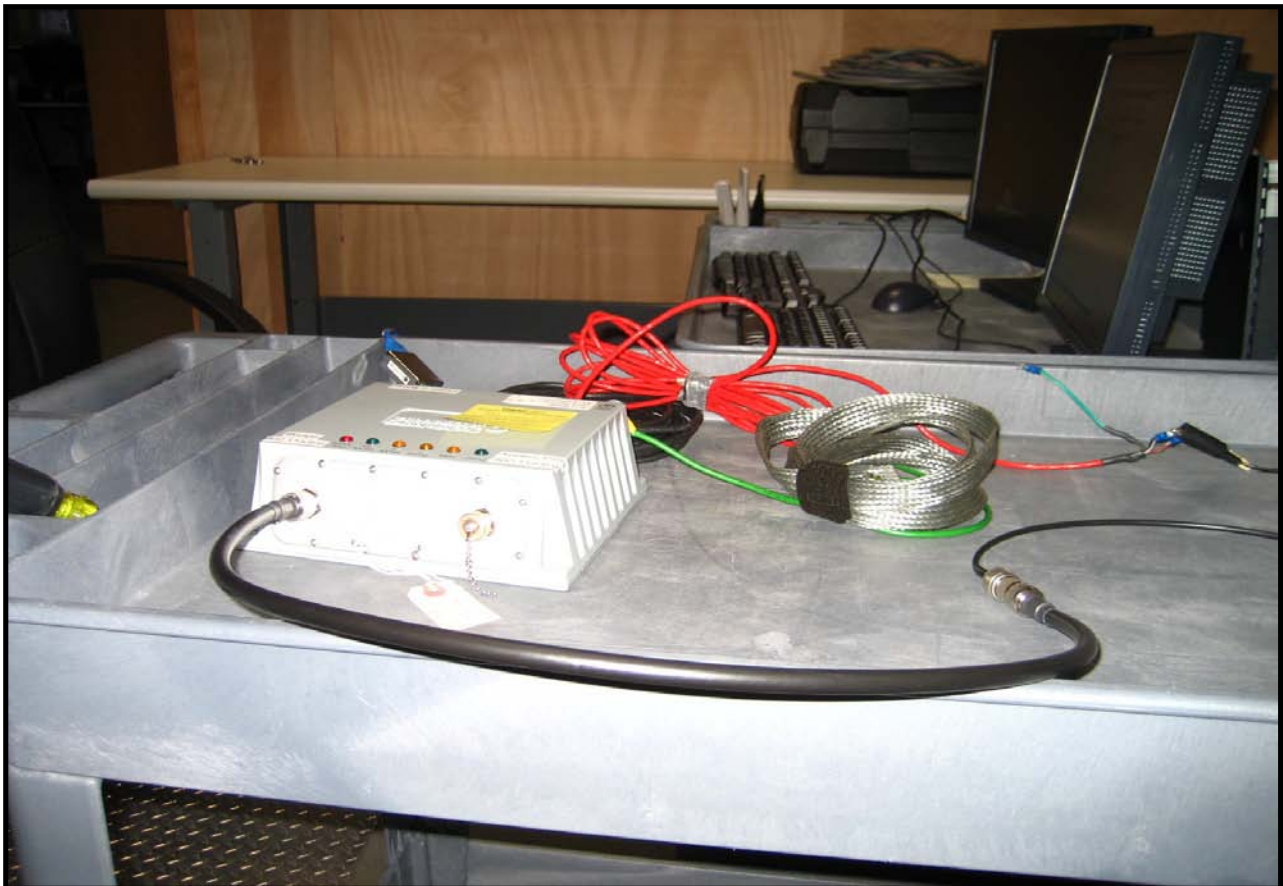
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: 16.26 dBm

Limit: 25.8 dBm





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Hewlett-Packard	8481H	SPB	11/1/2006	13
Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

EMC

OUTPUT POWER

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	41%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (-7) in Test Software. Maximum Antenna Gain =17 dBi. Cable Loss = 1.8 dBm. Limit: 36dBm-17dBi+1.8dBi = 20.8dBm

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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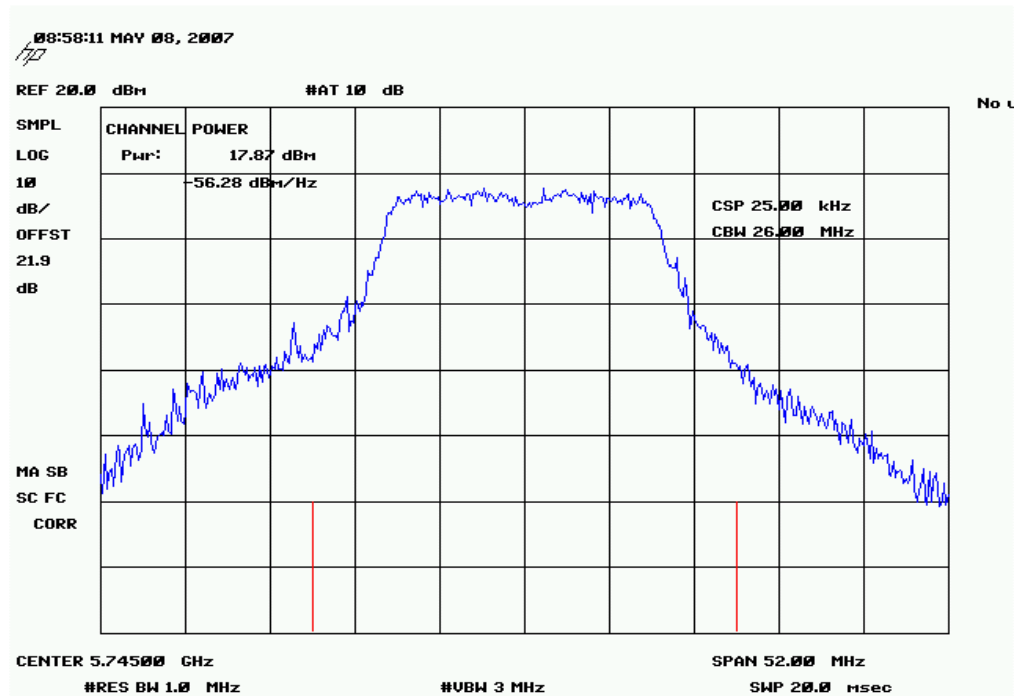
		Value	Limit	Results
802.11(a) 6 Mbps				
	Low Channel	17.87 dBm	20.8 dBm	Pass
	Mid Channel	18.61 dBm	20.8 dBm	Pass
	High Channel	18.64 dBm	20.8 dBm	Pass
802.11(a) 36 Mbps				
	Low Channel	16.20 dBm	20.8 dBm	Pass
	Mid Channel	17.00 dBm	20.8 dBm	Pass
	High Channel	17.14 dBm	20.8 dBm	Pass
802.11(a) 54 Mbps				
	Low Channel	15.29 dBm	20.8 dBm	Pass
	Mid Channel	14.78 dBm	20.8 dBm	Pass
	High Channel	15.54dBm	20.8 dBm	Pass

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: 17.87 dBm

Limit: 20.8 dBm

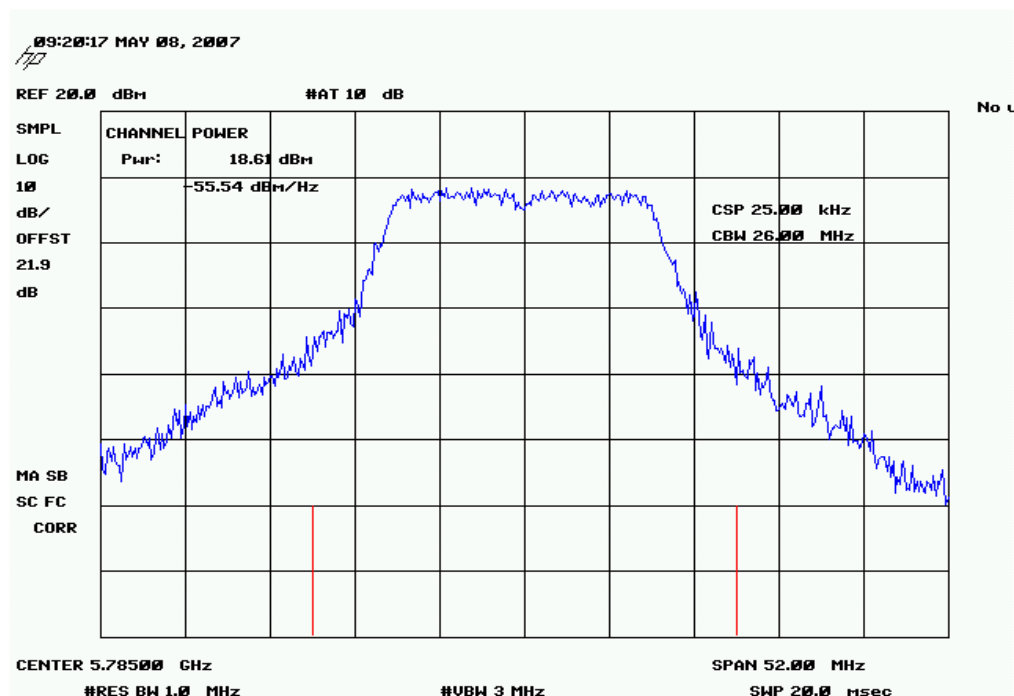


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: 18.61 dBm

Limit: 20.8 dBm



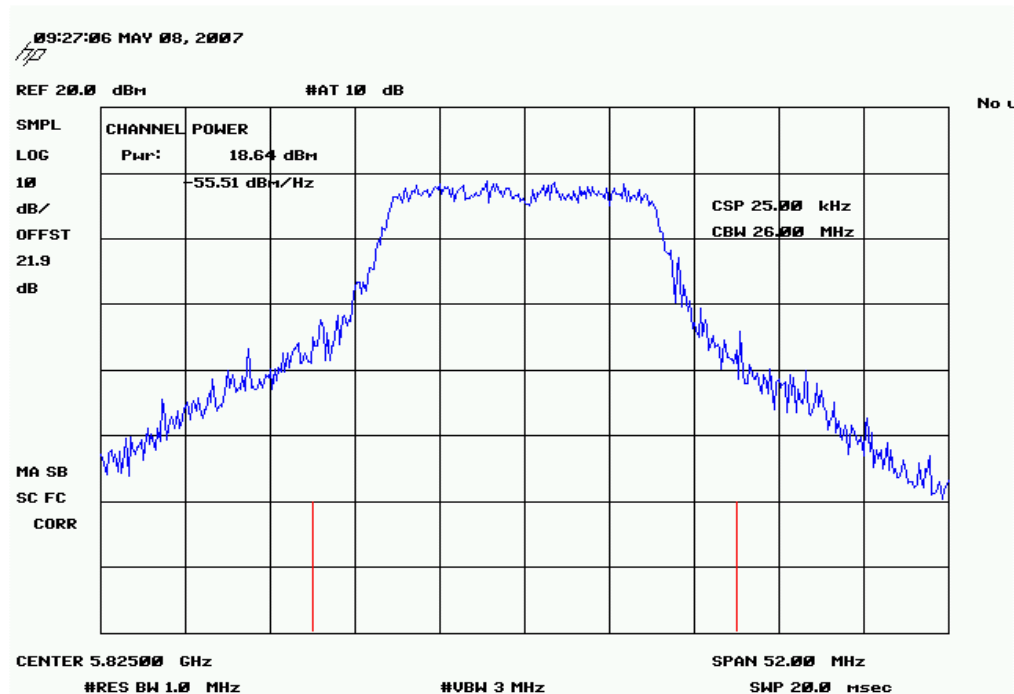
OUTPUT POWER

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: 18.64 dBm

Limit: 20.8 dBm

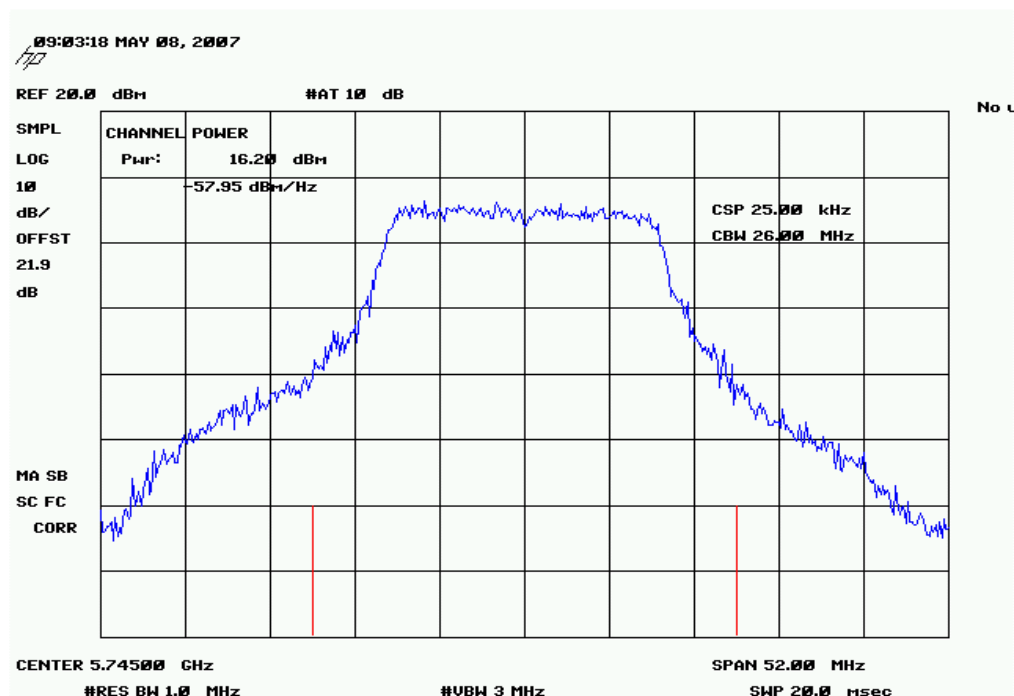


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: 16.20 dBm

Limit: 20.8 dBm

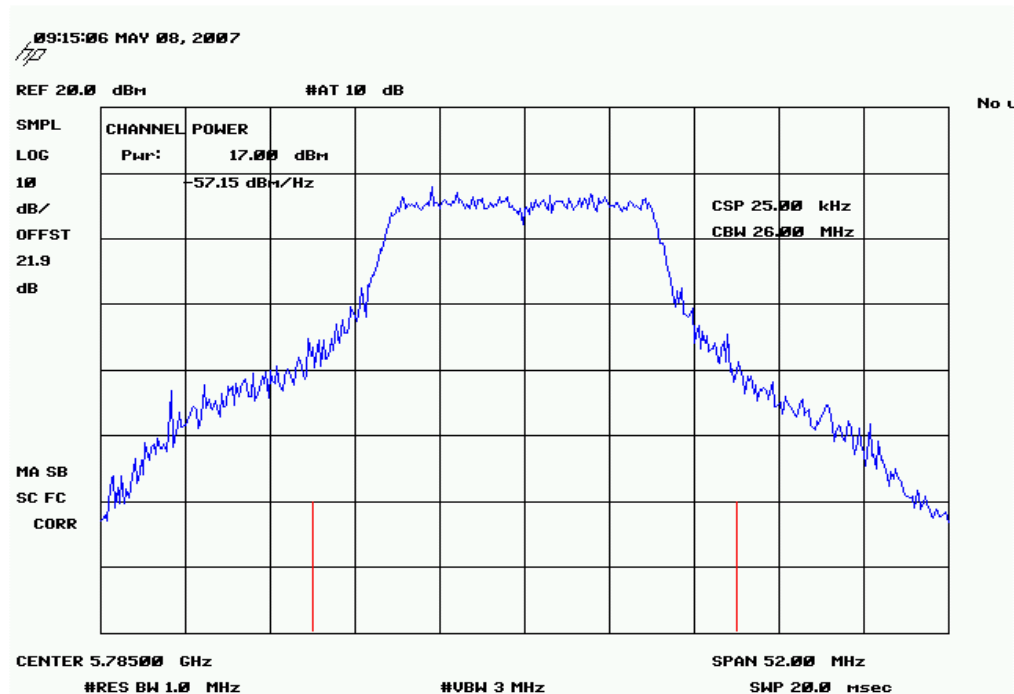


802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: 17.00 dBm

Limit: 20.8 dBm

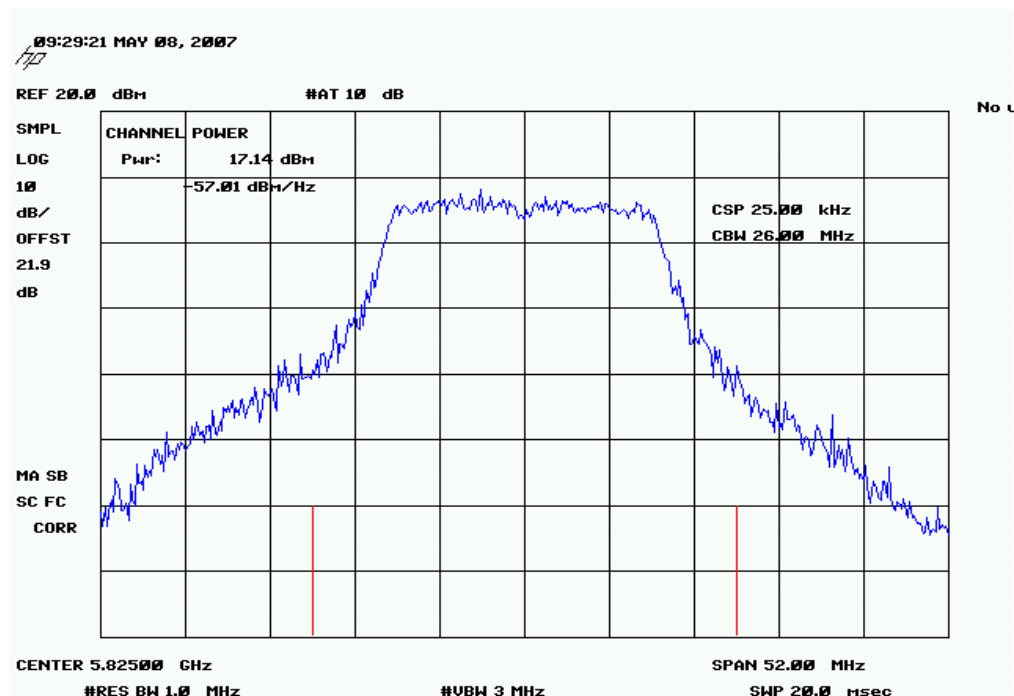


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: 17.14 dBm

Limit: 20.8 dBm

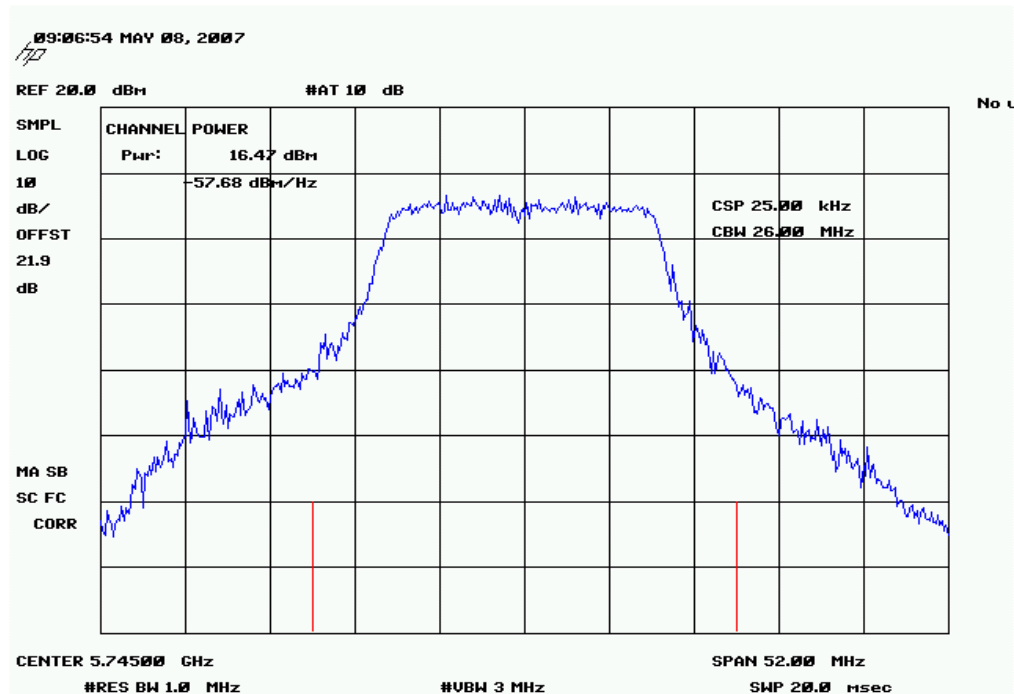


802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: 15.29 dBm

Limit: 20.8 dBm

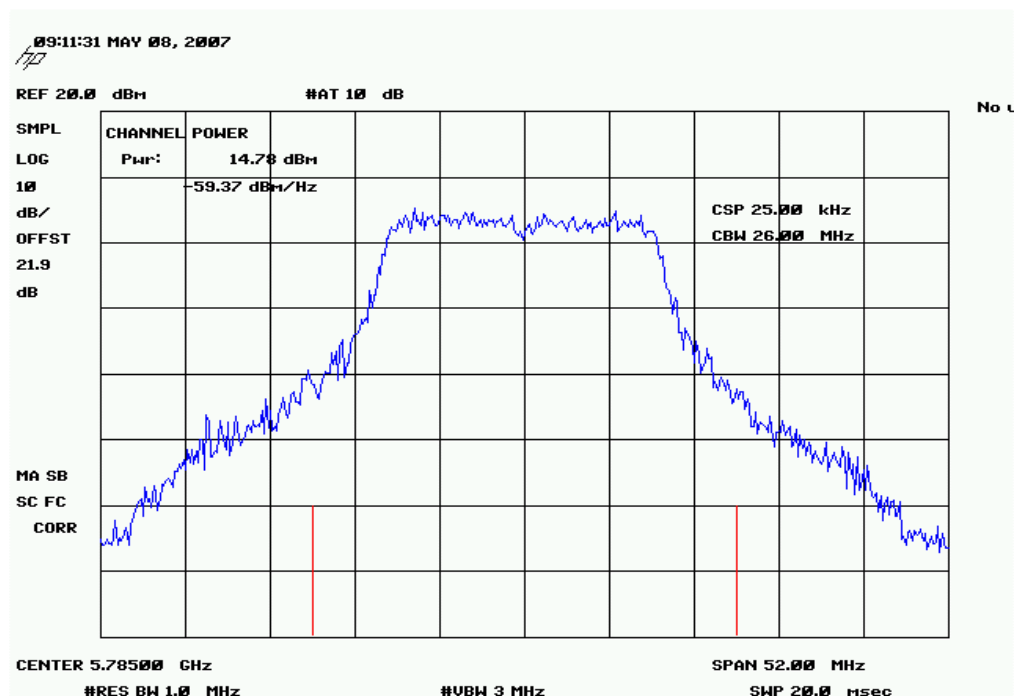


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: 14.78 dBm

Limit: 20.8 dBm



EMC

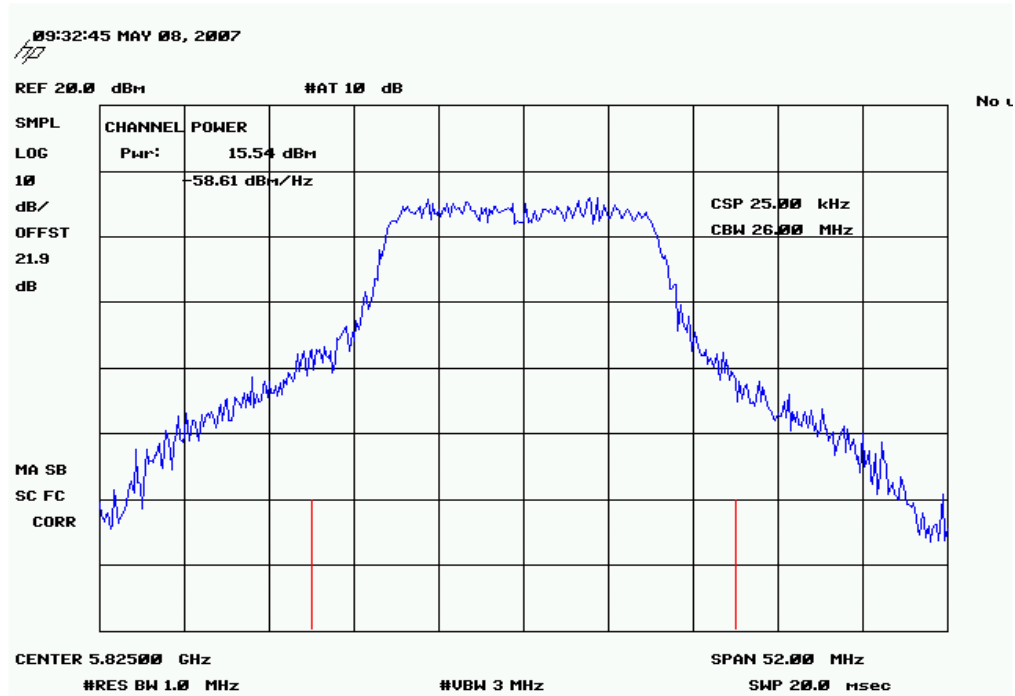
OUTPUT POWER

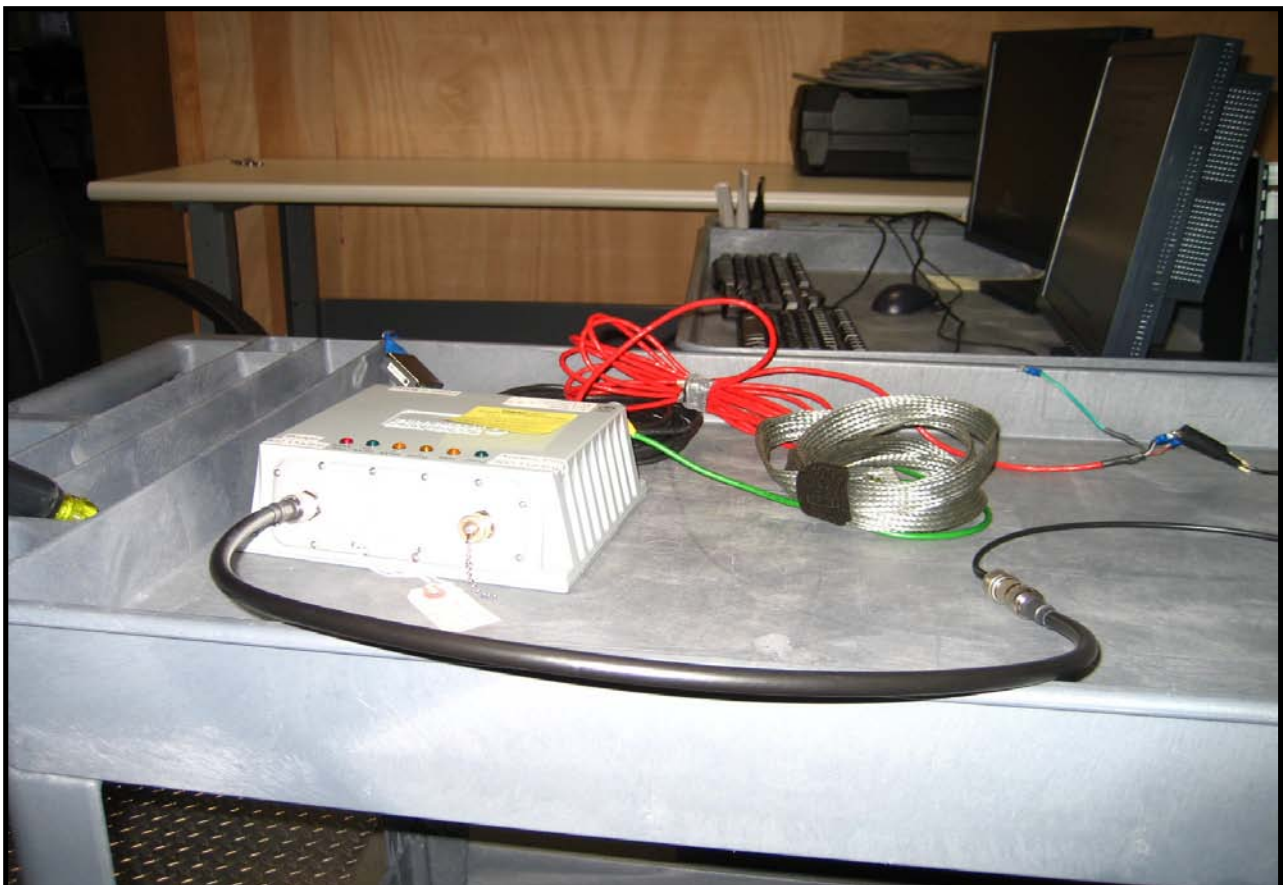
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: 15.54dBm

Limit: 20.8 dBm





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Hewlett-Packard	8481H	SPB	11/1/2006	13
Multimeter	Fluke	79 Series DMM	MMI	12/14/2006	13
Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The requirements of FCC 15.247(d) for emissions at least 20dB below the carrier in any 100kHz bandwidth outside the allowable band was measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 10 MHz below the band edge to 10 MHz above the band edge.

EMC

BAND EDGE COMPLIANCE

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	42%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (25) in Test Software.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps				
	Low Channel	- 24.99 dBc	≤ -20 dBc	Pass
	High Channel	- 34.61 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps				
	Low Channel	- 33.04 dBc	≤ -20 dBc	Pass
	High Channel	- 46.78 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
	Low Channel	- 35.13 dBc	≤ -20 dBc	Pass
	High Channel	- 50.41 dBc	≤ -20 dBc	Pass

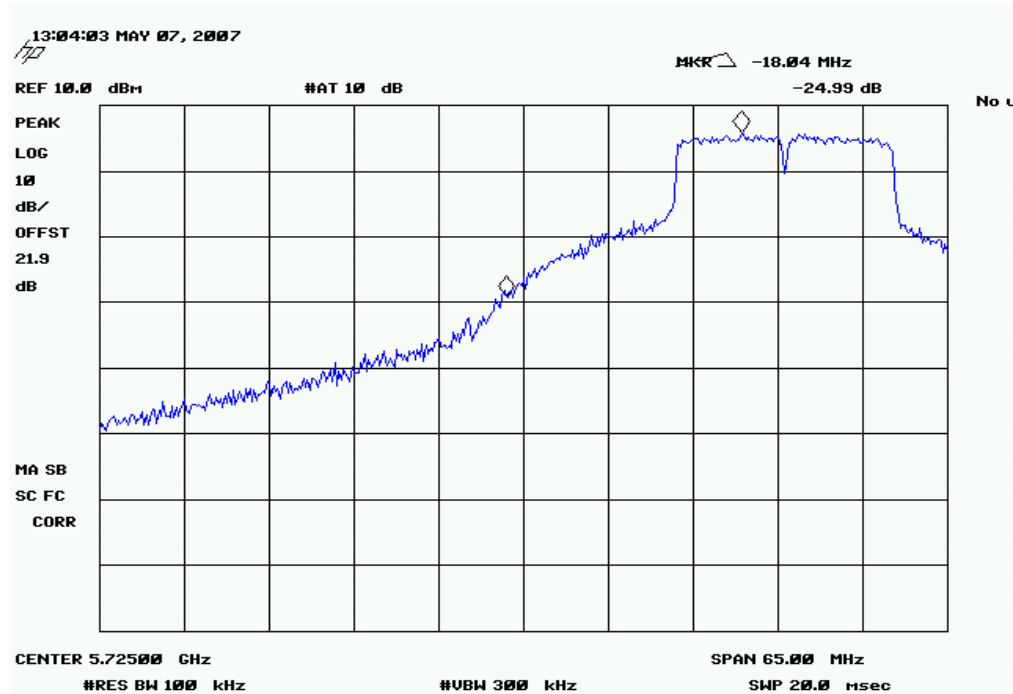
EMC

BAND EDGE COMPLIANCE

802.11(a) 6 Mbps, Low Channel

Result: Pass

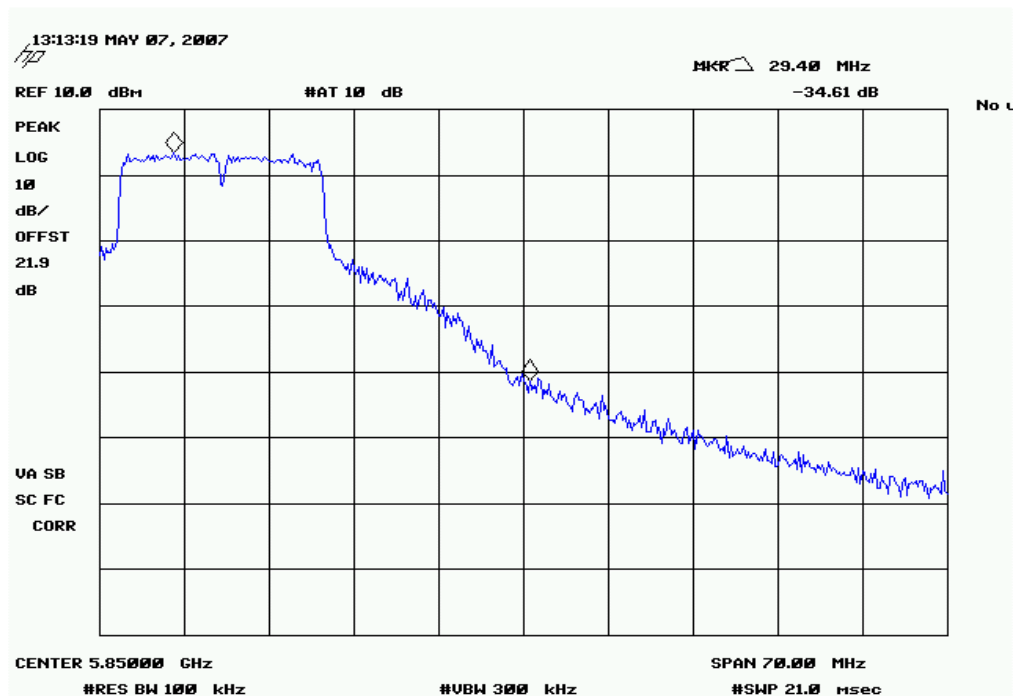
Value: -24.99 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: -34.61 dBc

Limit: ≤ -20 dBc

EMC

BAND EDGE COMPLIANCE

802.11(a) 36 Mbps, Low Channel

Result: Pass

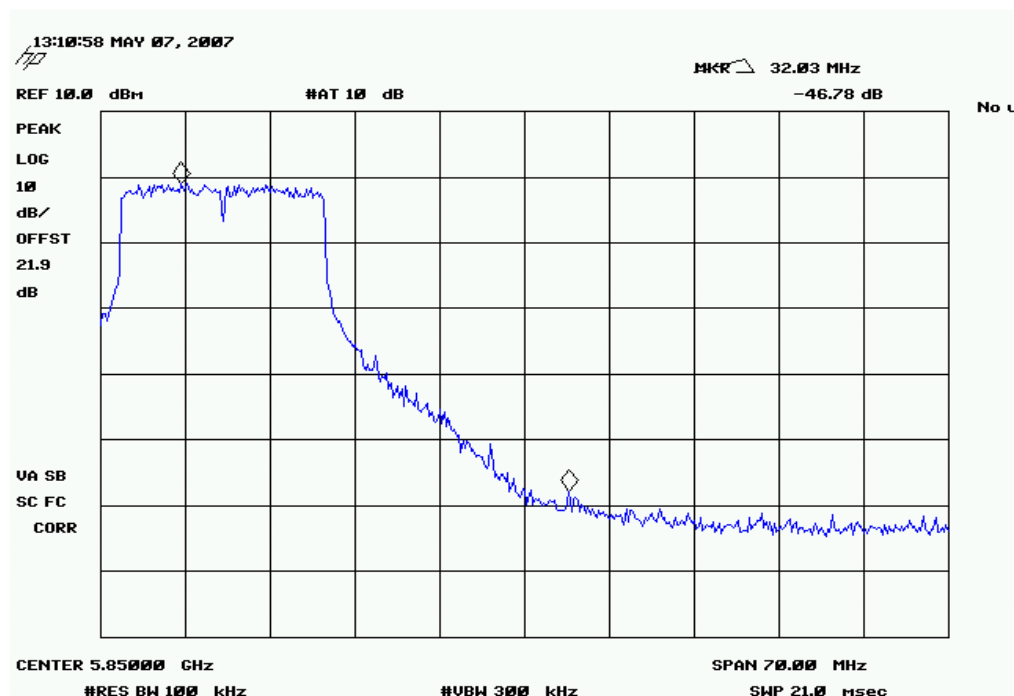
Value: -33.04 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, High Channel

Result: Pass

Value: -46.78 dBc

Limit: ≤ -20 dBc

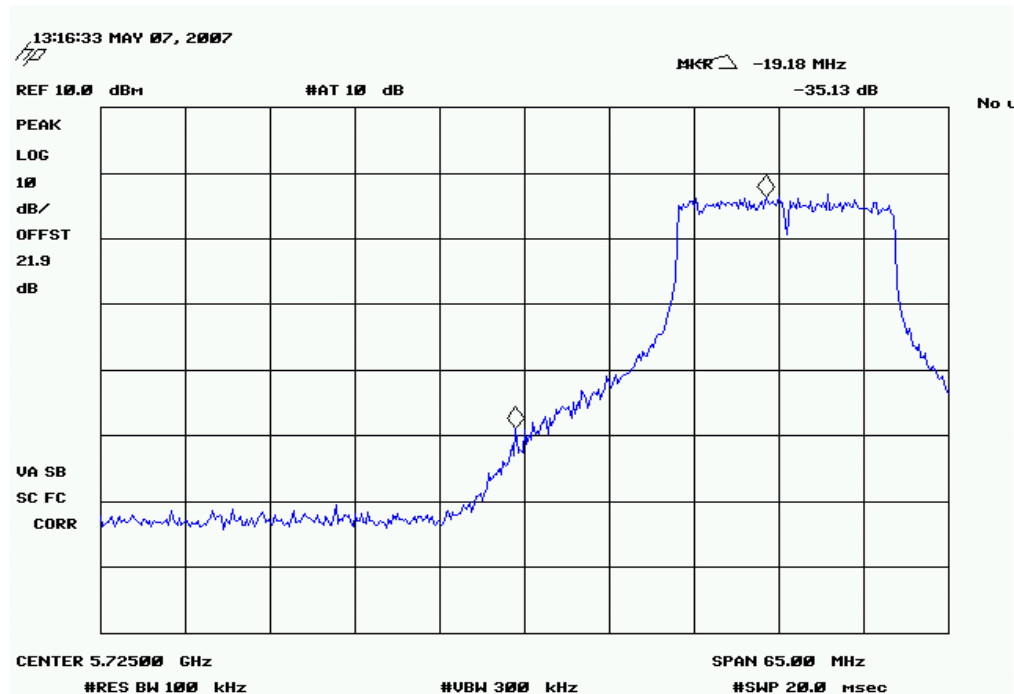
EMC

BAND EDGE COMPLIANCE

802.11(a) 54 Mbps, Low Channel

Result: Pass

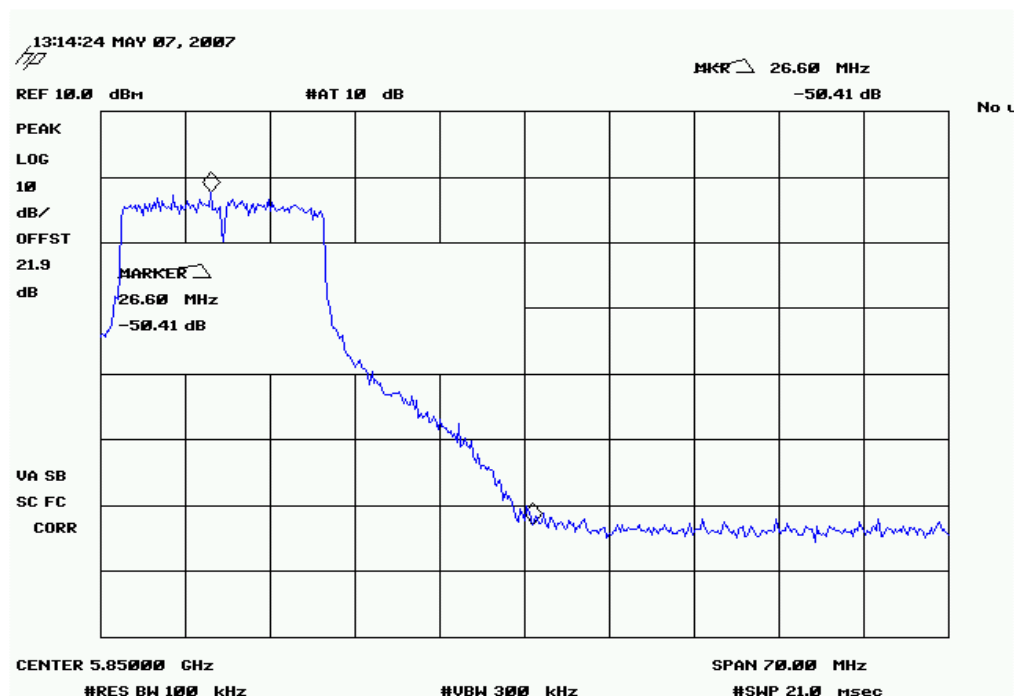
Value: -35.13 dBc

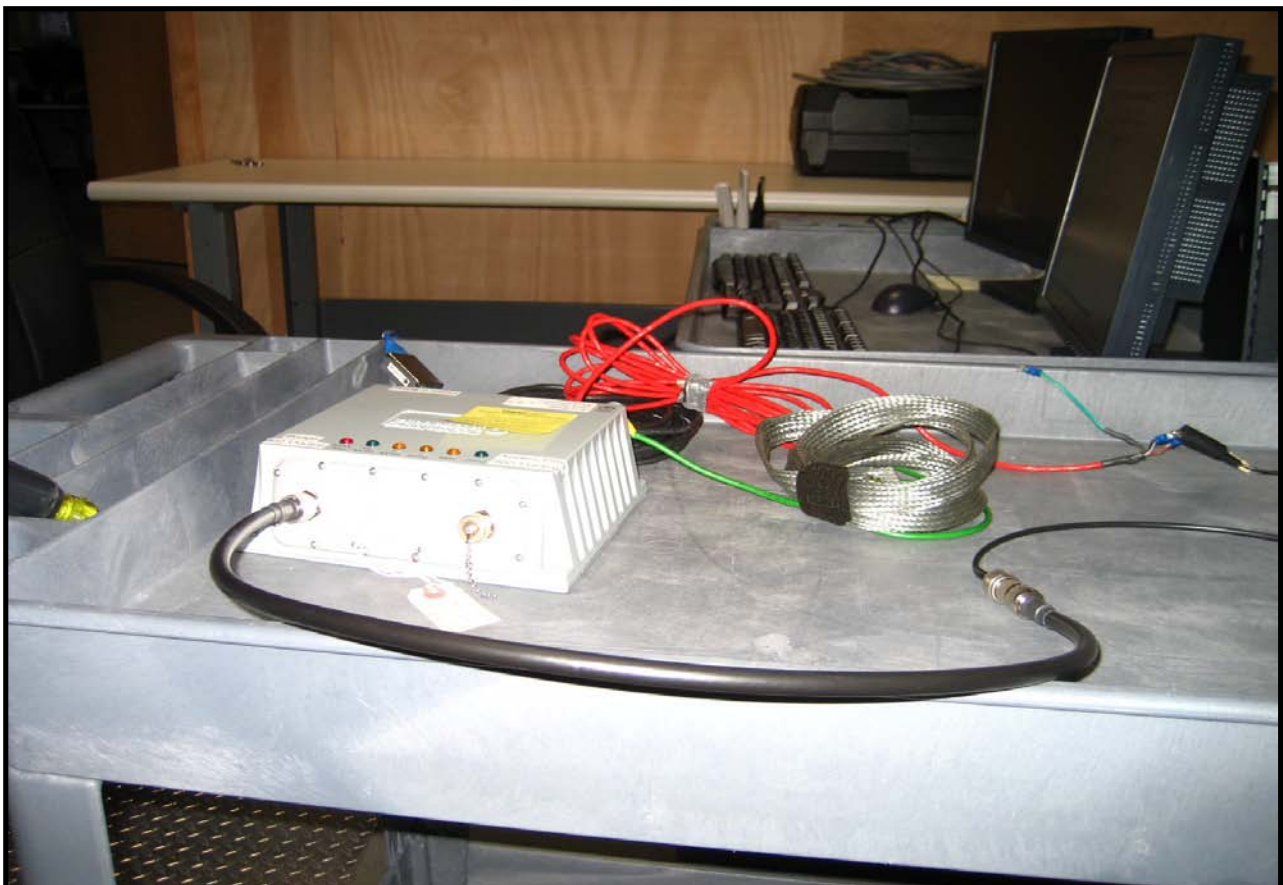
Limit: ≤ -20 dBc

802.11(a) 54 Mbps, High Channel

Result: Pass

Value: -50.41 dBc

Limit: ≤ -20 dBc



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Hewlett-Packard	8481H	SPB	11/1/2006	13
Multimeter	Fluke	79 Series DMM	MMI	12/14/2006	13
Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The requirements of FCC 15.247(d) for emissions at least 20dB below the carrier in any 100kHz bandwidth outside the allowable band was measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 10 MHz below the band edge to 10 MHz above the band edge.

EMC

BAND EDGE COMPLIANCE

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/07/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	42%
Project:	None	Barometric Pres.:	29.97
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (-7) in Test Software.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps	Low Channel	- 32.33 dBc	≤ -20 dBc	Pass
	High Channel	- 43.44 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps	Low Channel	- 36.70 dBc	≤ -20 dBc	Pass
	High Channel	- 47.94 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps	Low Channel	- 37.62 dBc	≤ -20 dBc	Pass
	High Channel	- 47.22 dBc	≤ -20 dBc	Pass

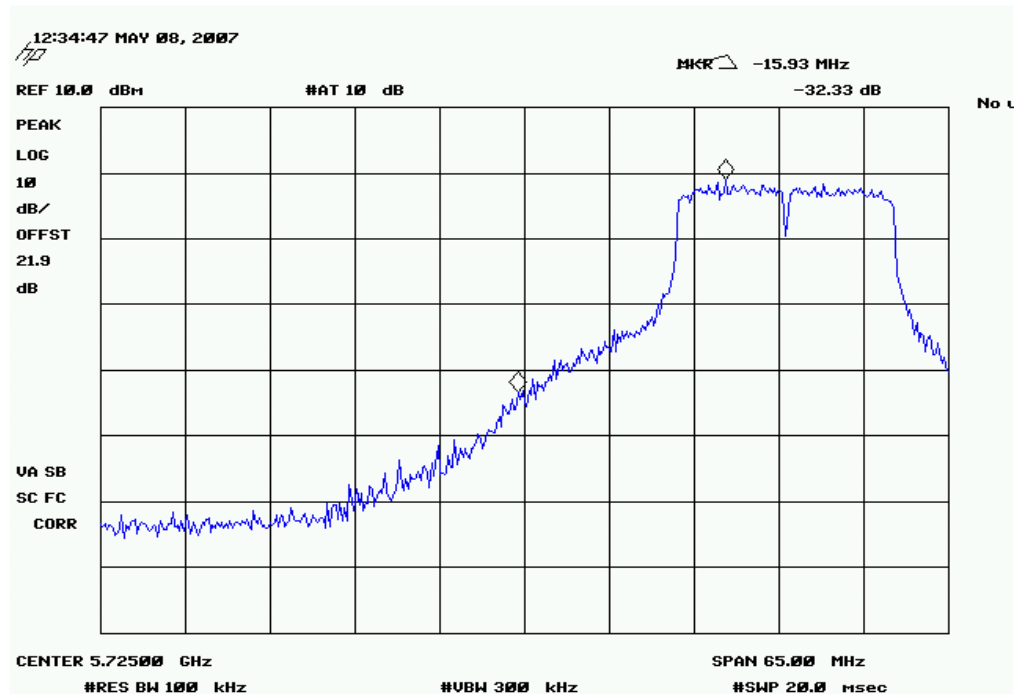
EMC

BAND EDGE COMPLIANCE

802.11(a) 6 Mbps, Low Channel

Result: Pass

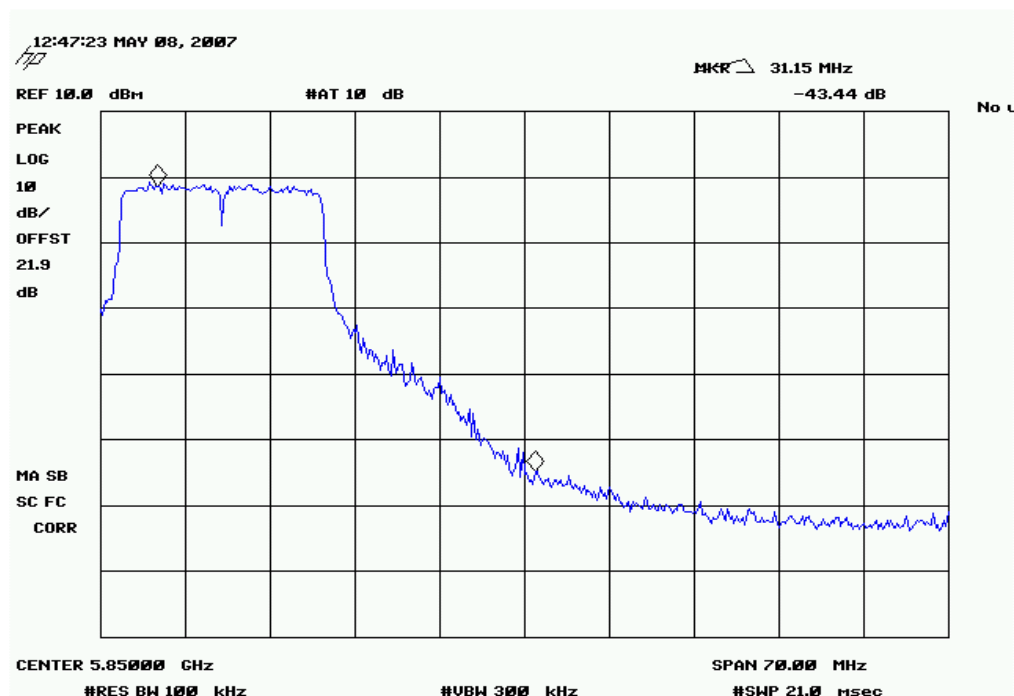
Value: - 32.33 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: - 43.44 dBc

Limit: ≤ -20 dBc

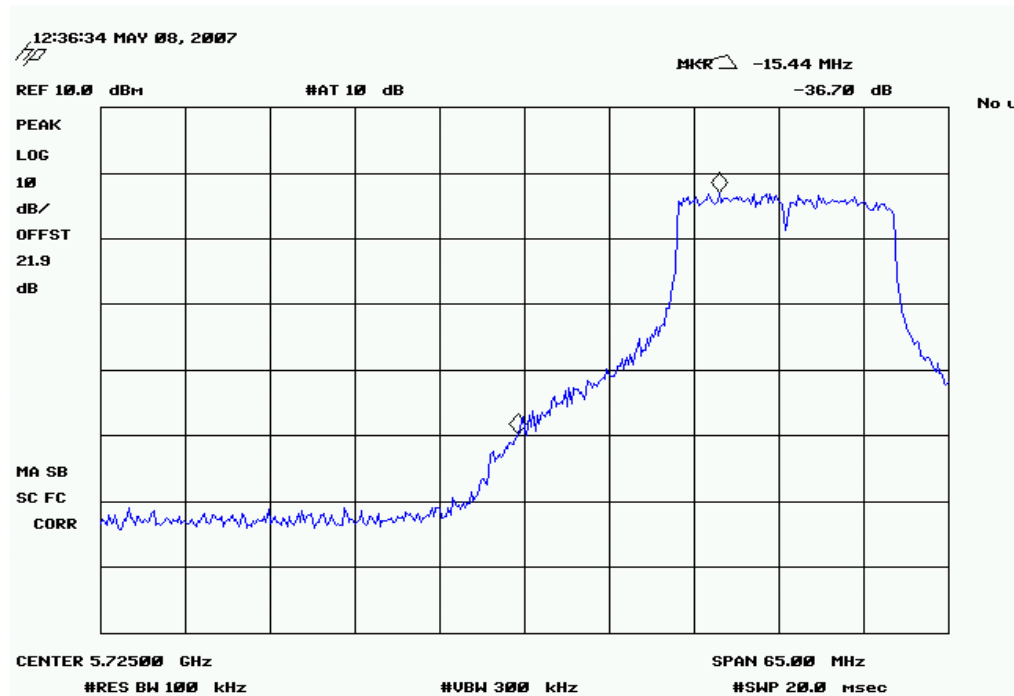
EMC

BAND EDGE COMPLIANCE

802.11(a) 36 Mbps, Low Channel

Result: Pass

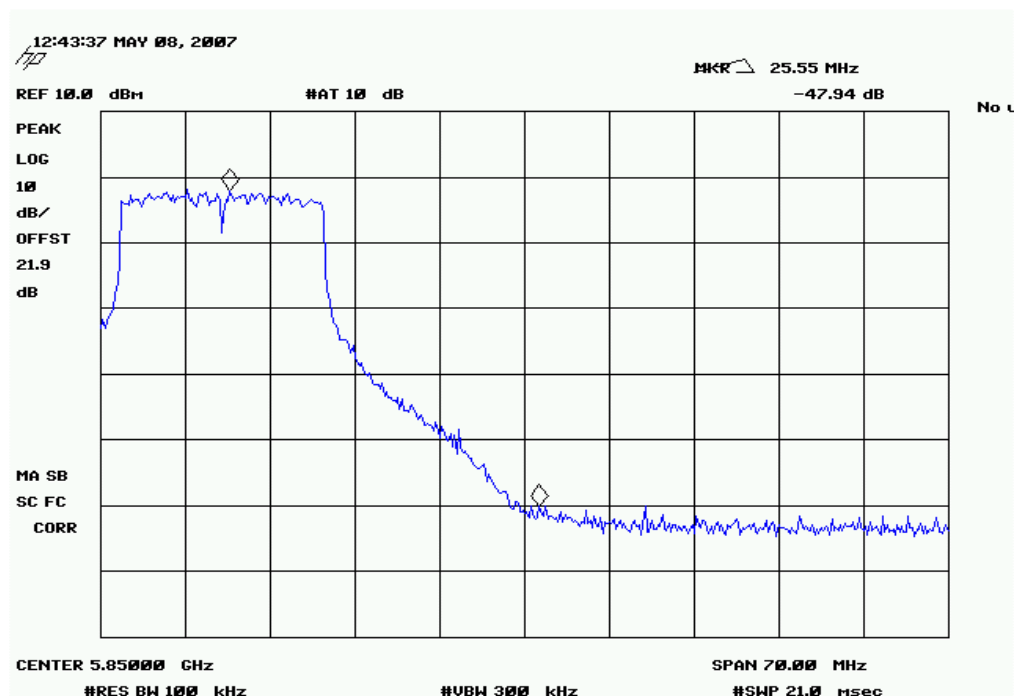
Value: -36.70 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, High Channel

Result: Pass

Value: -47.94 dBc

Limit: ≤ -20 dBc

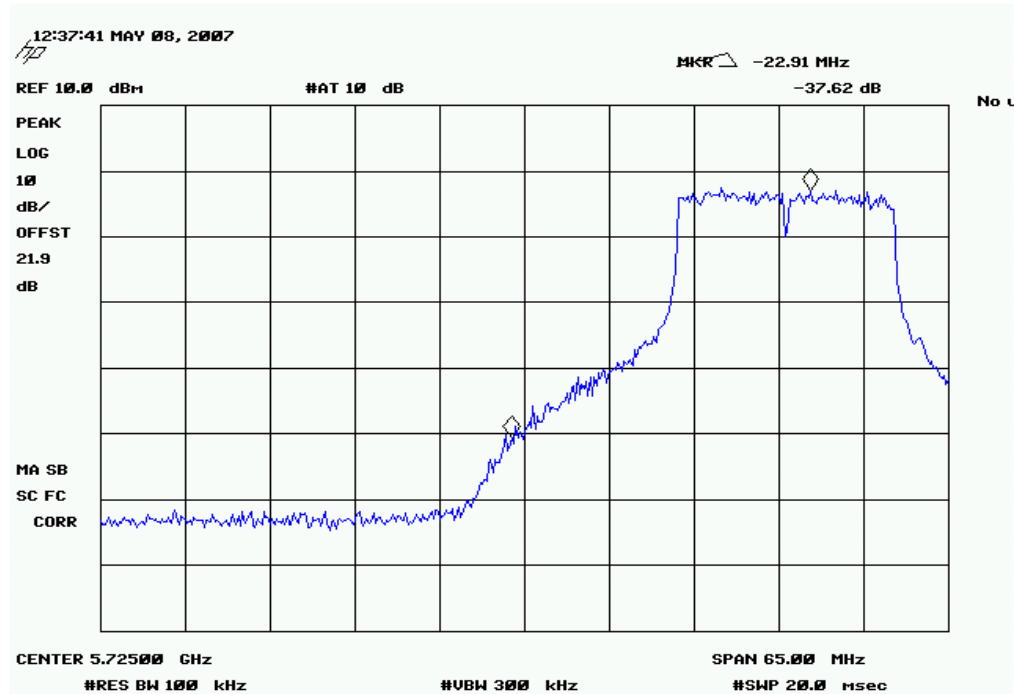
EMC

BAND EDGE COMPLIANCE

802.11(a) 54 Mbps, Low Channel

Result: Pass

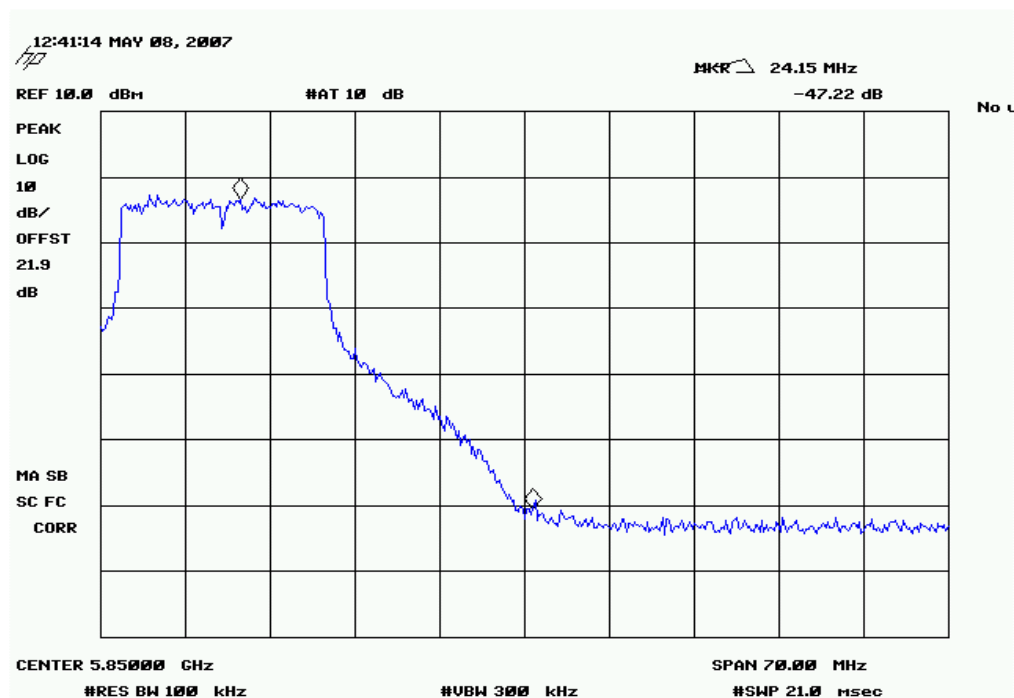
Value: - 37.62 dBc

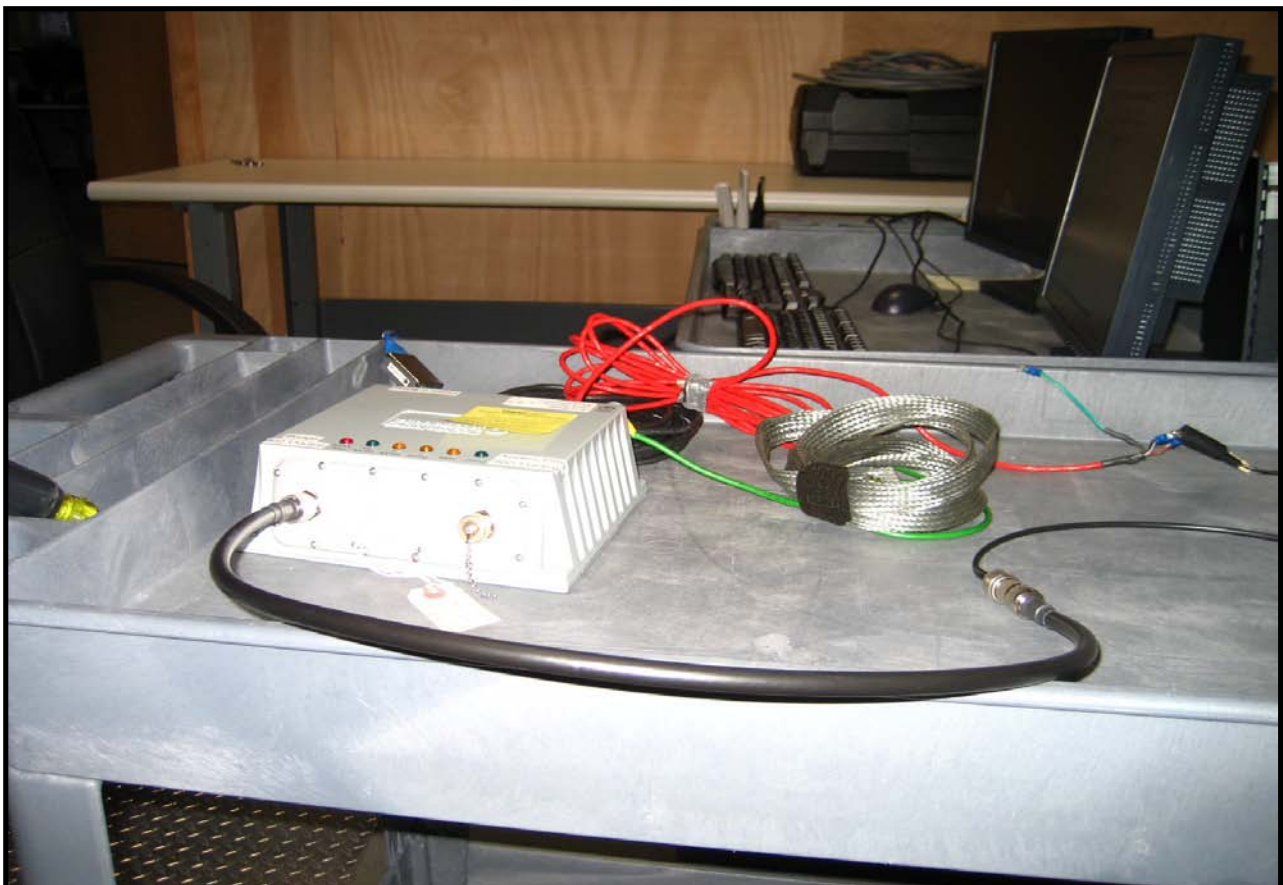
Limit: ≤ -20 dBc

802.11(a) 54 Mbps, High Channel

Result: Pass

Value: - 47.22 dBc

Limit: ≤ -20 dBc



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAQ	1/18/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EMC

Spurious Conducted Emissions

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/10/07
Customer:	Honeywell	Temperature:	22°C
Attendees:	David Shipley	Humidity:	33%
Project:	None	Barometric Pres.:	30.01
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (-7) in Test Software.

DEVIATIONS FROM TEST STANDARD

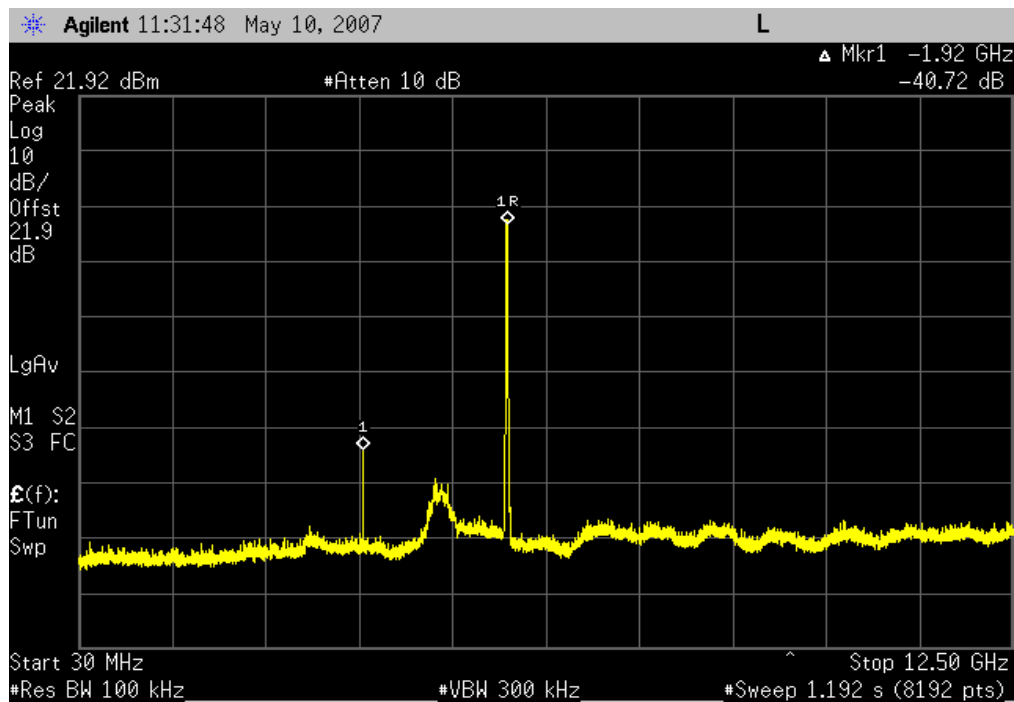
Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps				
Low Channel				
	30 MHz - 12.5 GHz	- 40.72 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 48.84 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 37.98 dBc	≤ - 20 dBc	Pass
Mid Channel				
	30 MHz - 12.5 GHz	- 44.06 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 48.83 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 38.58 dBc	≤ - 20 dBc	Pass
High Channel				
	30 MHz - 12.5 GHz	- 44.35 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 48.68 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 38.00 dBc	≤ - 20 dBc	Pass
802.11(a) 36 Mbps				
Low Channel				
	30 MHz - 12.5 GHz	- 40.31 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 48.34 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 38.29 dBc	≤ - 20 dBc	Pass
Mid Channel				
	30 MHz - 12.5 GHz	- 38.49 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 45.70 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 35.46 dBc	≤ - 20 dBc	Pass
High Channel				
	30 MHz - 12.5 GHz	- 38.61 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 44.50 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 33.33 dBc	≤ - 20 dBc	Pass
802.11(a) 54 Mbps				
Low Channel				
	30 MHz - 12.5 GHz	- 51.57 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 44.76 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 33.71 dBc	≤ - 20 dBc	Pass
Mid Channel				
	30 MHz - 12.5 GHz	- 38.22 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 48.08 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 35.61 dBc	≤ - 20 dBc	Pass
High Channel				
	30 MHz - 12.5 GHz	- 37.30 dBc	≤ - 20 dBc	Pass
	12-5 GHz - 26 GHz	- 43.25 dBc	≤ - 20 dBc	Pass
	26 GHz - 40 GHz	- 33.46 dBc	≤ - 20 dBc	Pass

802.11(a) 6 Mbps, Low Channel, 30 MHz - 12.5 GHz

Result: Pass

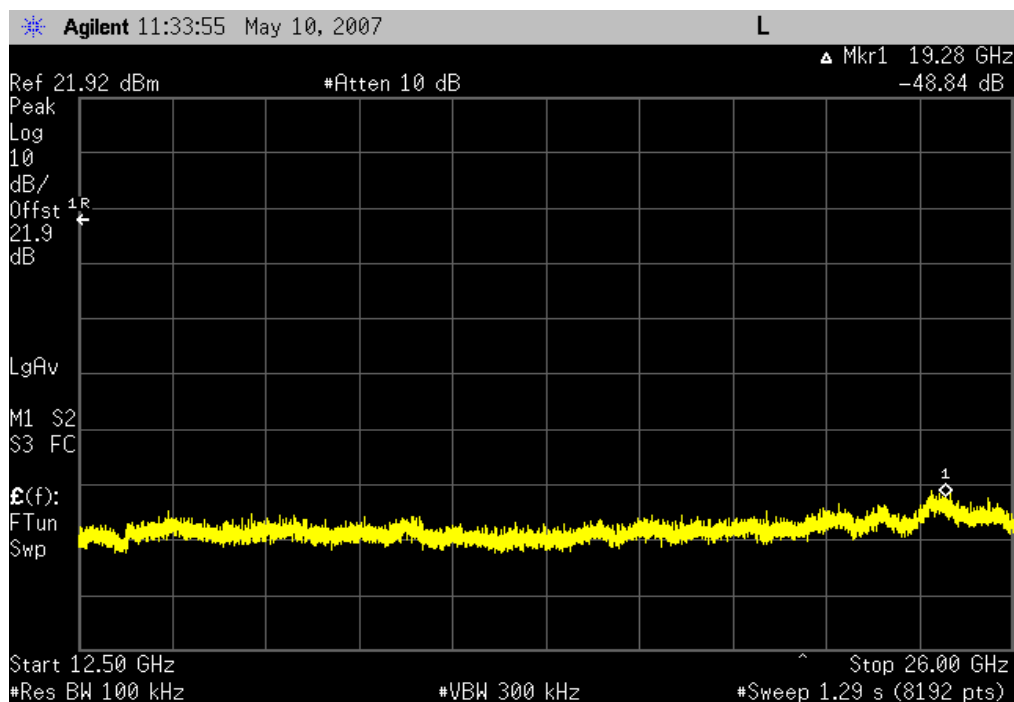
Value: - 40.72 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, Low Channel, 12-5 GHz - 26 GHz

Result: Pass

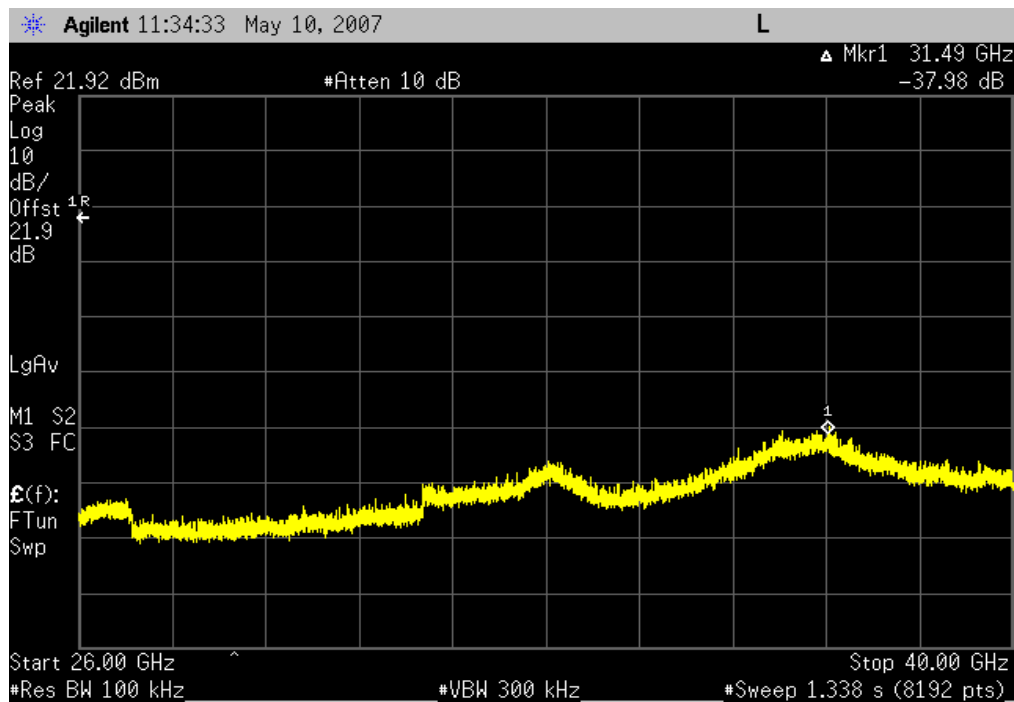
Value: - 48.84 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, Low Channel, 26 GHz - 40 GHz

Result: Pass

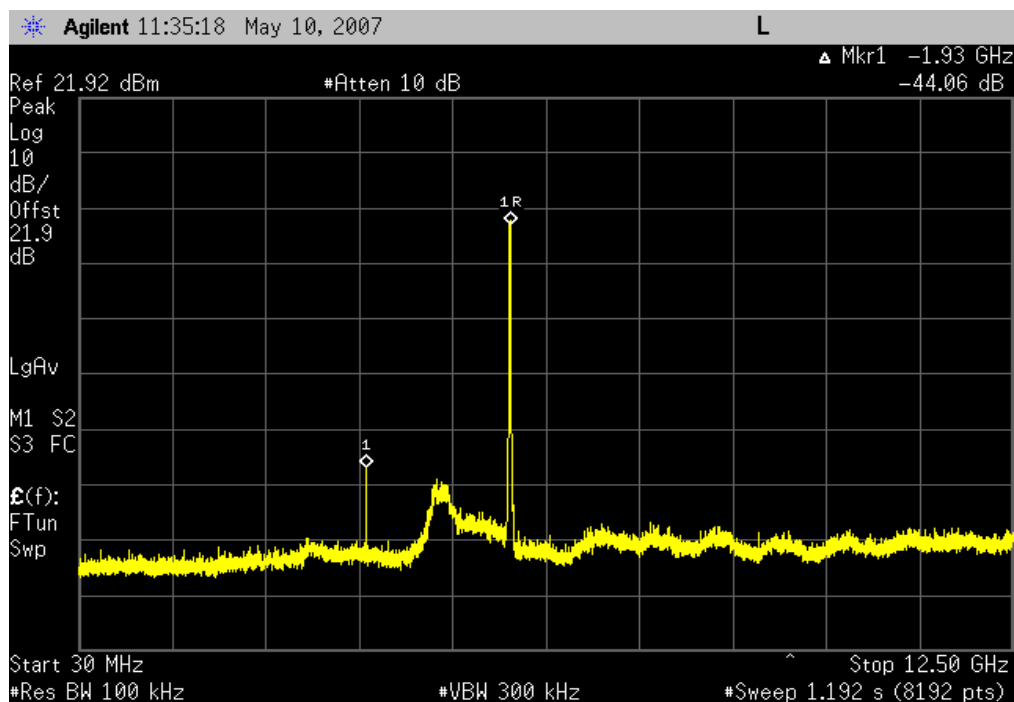
Value: - 37.98 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, Mid Channel, 30 MHz - 12.5 GHz

Result: Pass

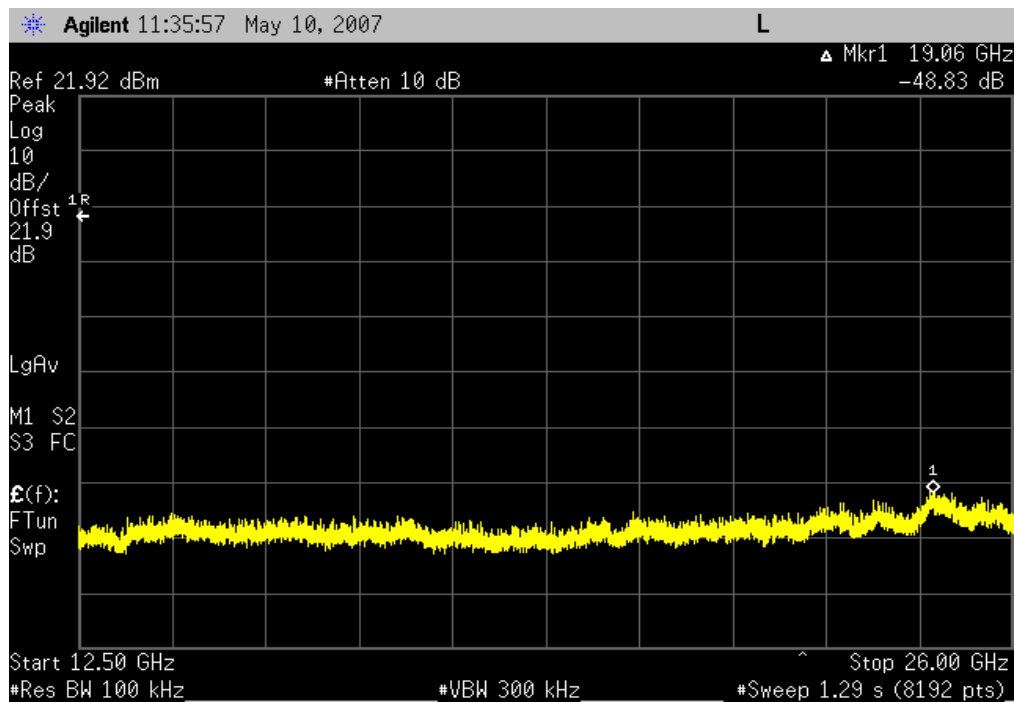
Value: - 44.06 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, Mid Channel, 12-5 GHz - 26 GHz

Result: Pass

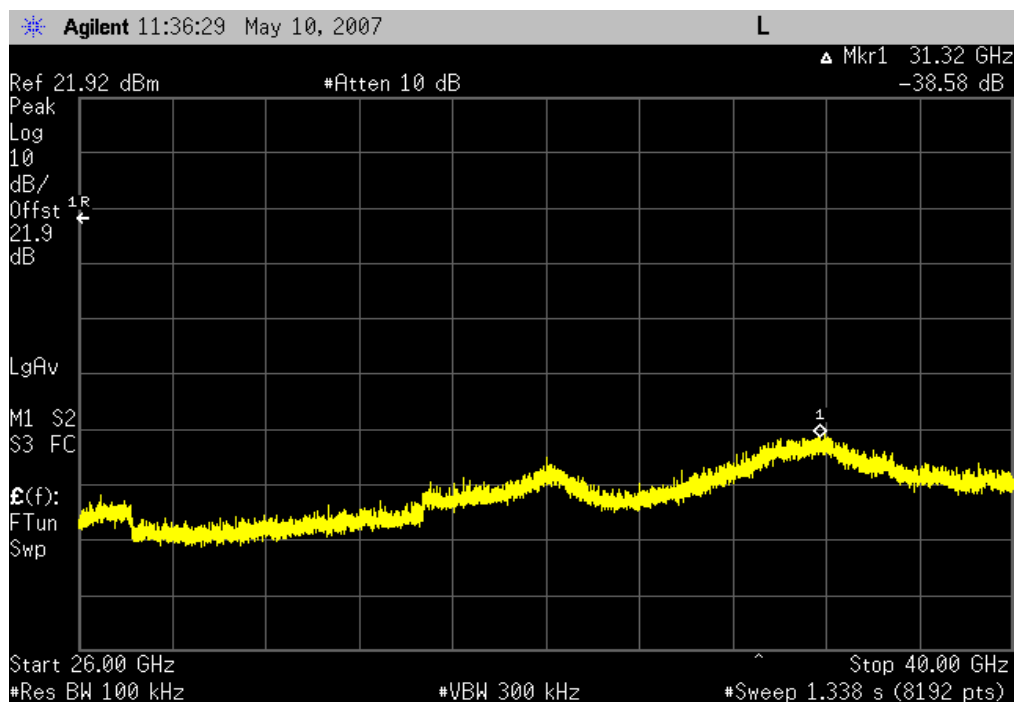
Value: - 48.83 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, Mid Channel, 26 GHz - 40 GHz

Result: Pass

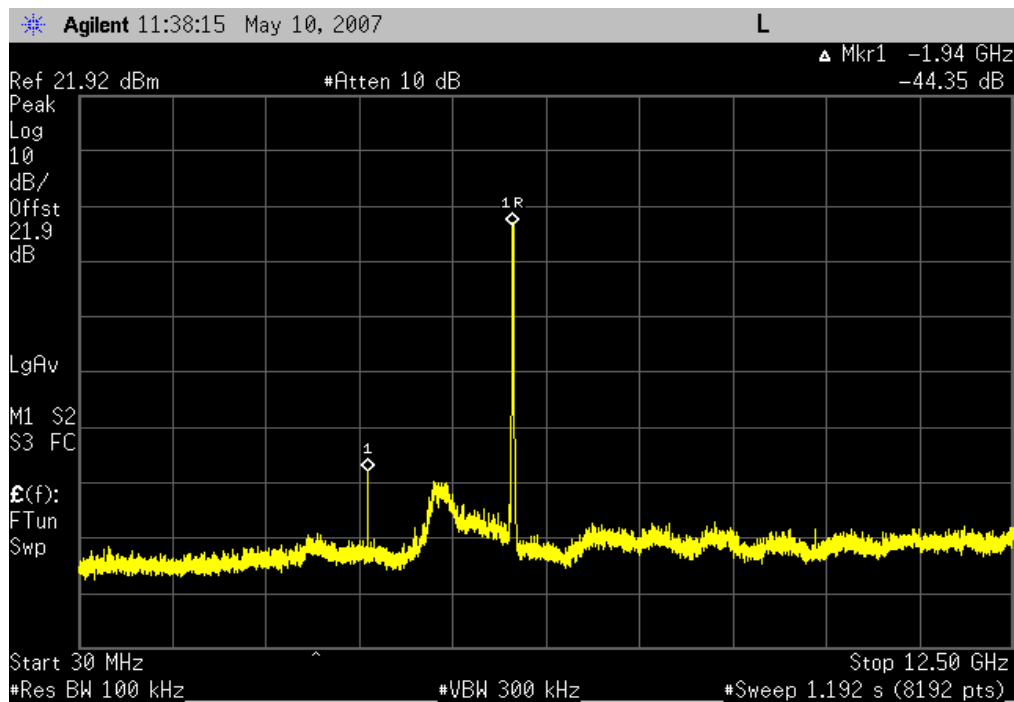
Value: - 38.58 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, High Channel, 30 MHz - 12.5 GHz

Result: Pass

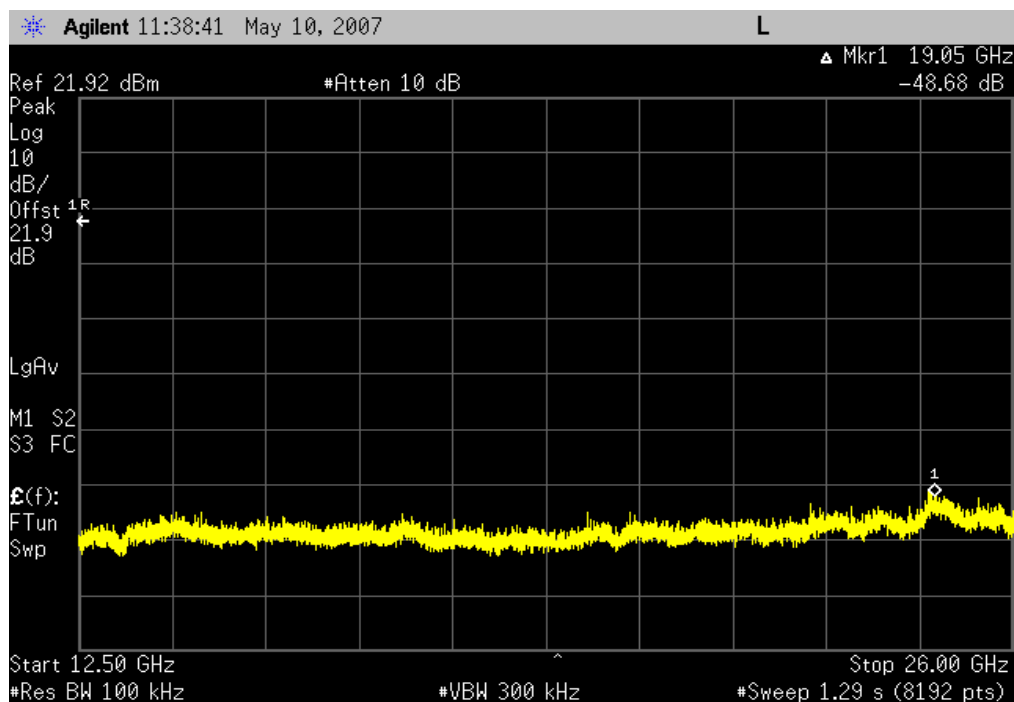
Value: - 44.35 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, High Channel, 12-5 GHz - 26 GHz

Result: Pass

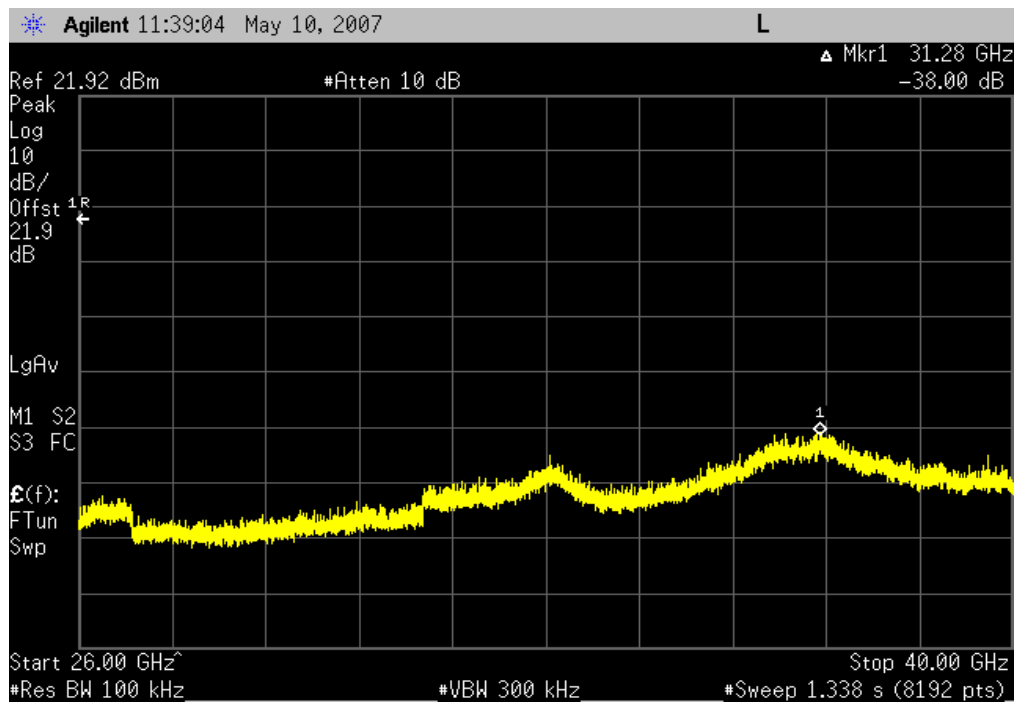
Value: - 48.68 dBc

Limit: ≤ -20 dBc

802.11(a) 6 Mbps, High Channel, 26 GHz - 40 GHz

Result: Pass

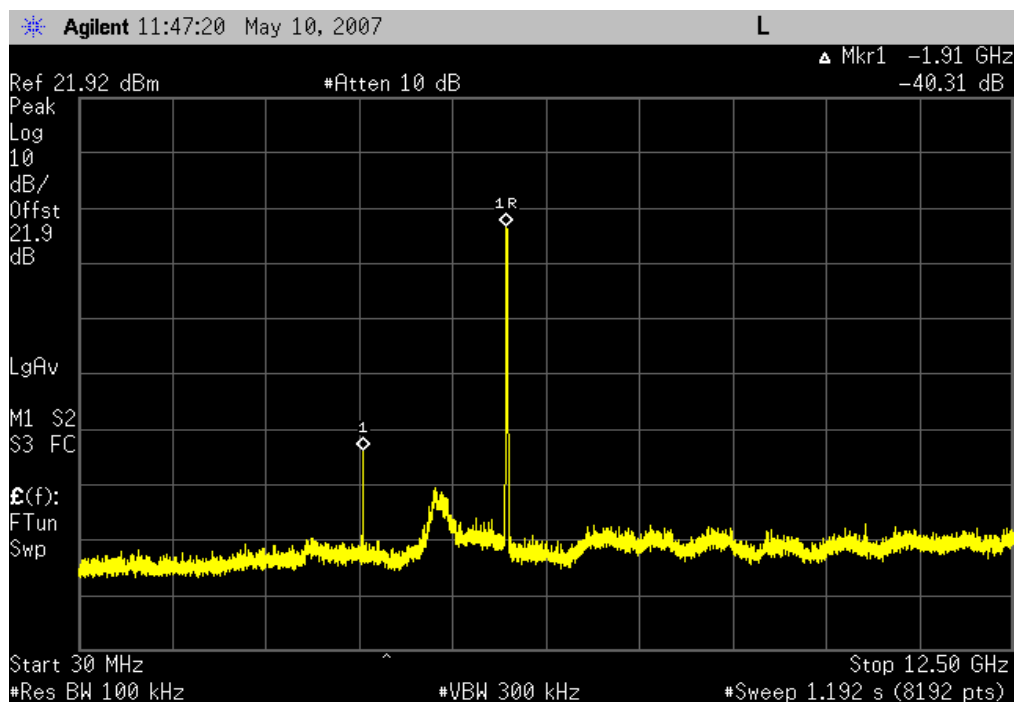
Value: -38.00 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Low Channel, 30 MHz - 12.5 GHz

Result: Pass

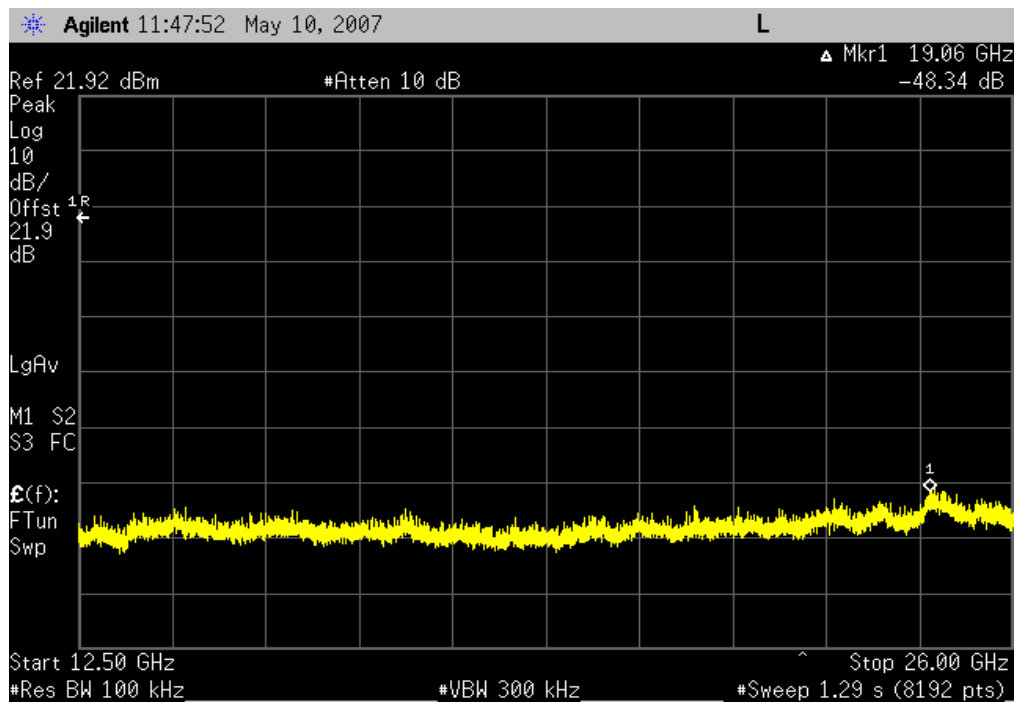
Value: -40.31 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Low Channel, 12-5 GHz - 26 GHz

Result: Pass

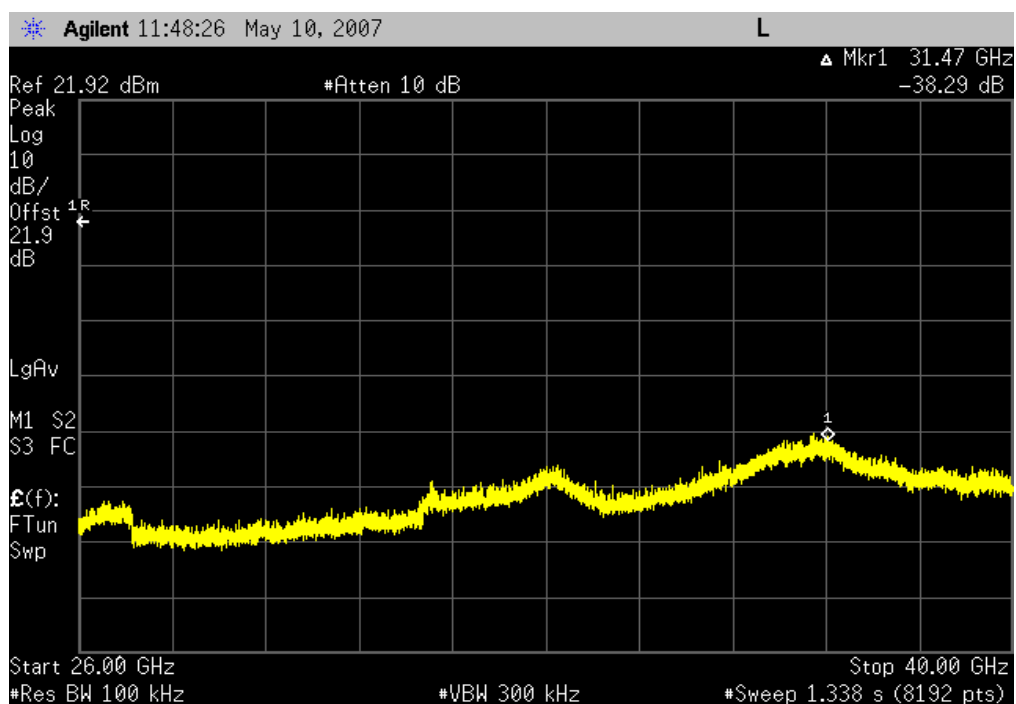
Value: - 48.34 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Low Channel, 26 GHz - 40 GHz

Result: Pass

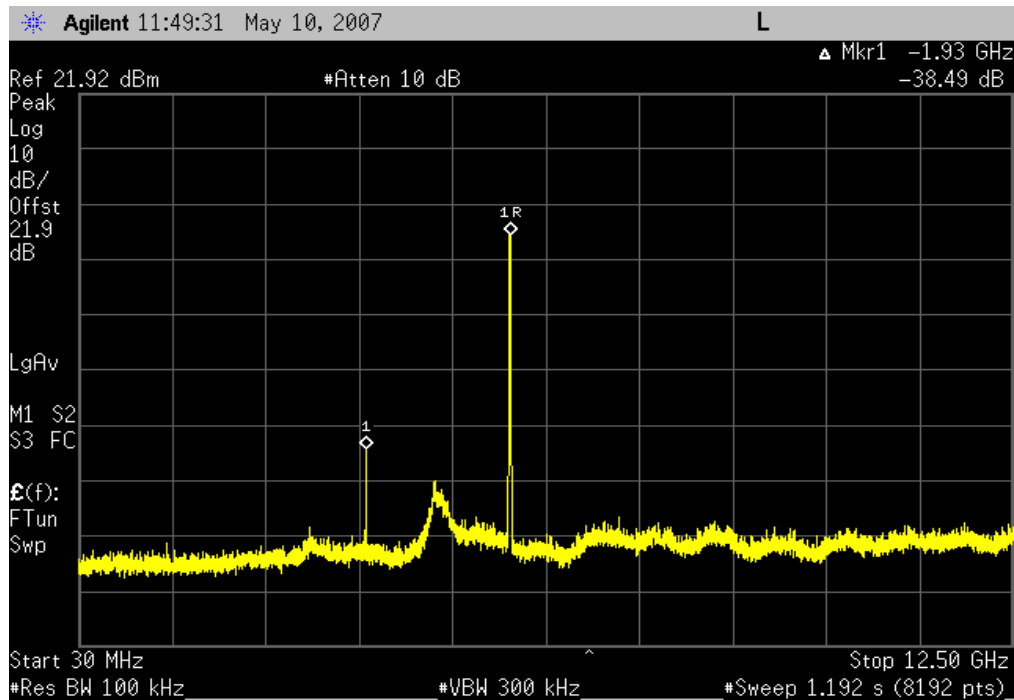
Value: - 38.29 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Mid Channel, 30 MHz - 12.5 GHz

Result: Pass

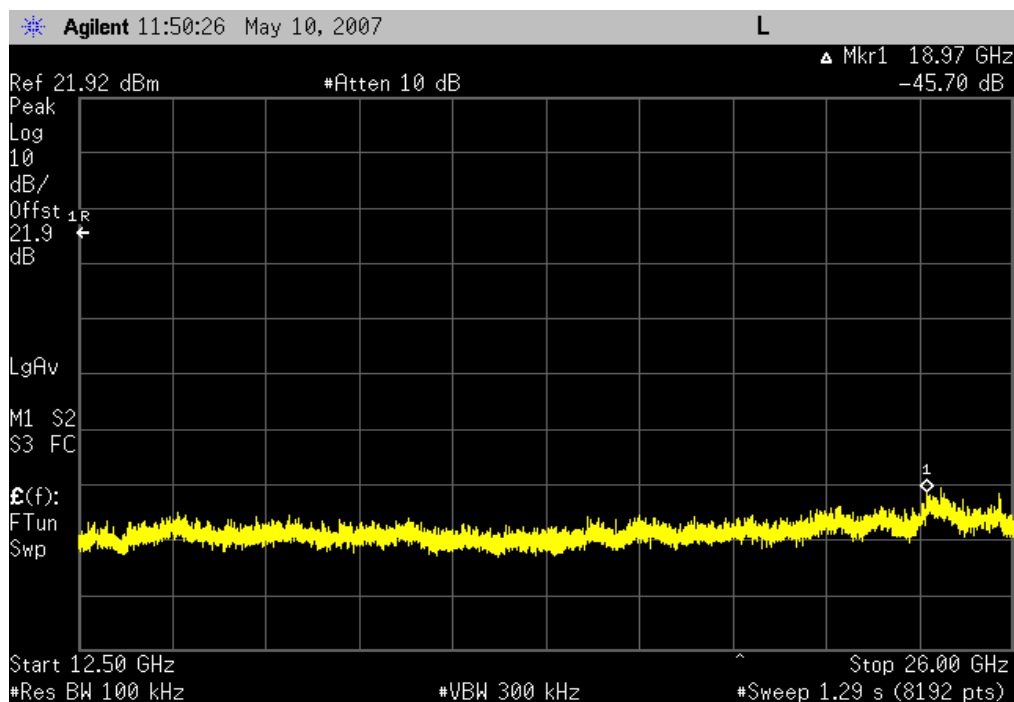
Value: -38.49 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Mid Channel, 12.5 GHz - 26 GHz

Result: Pass

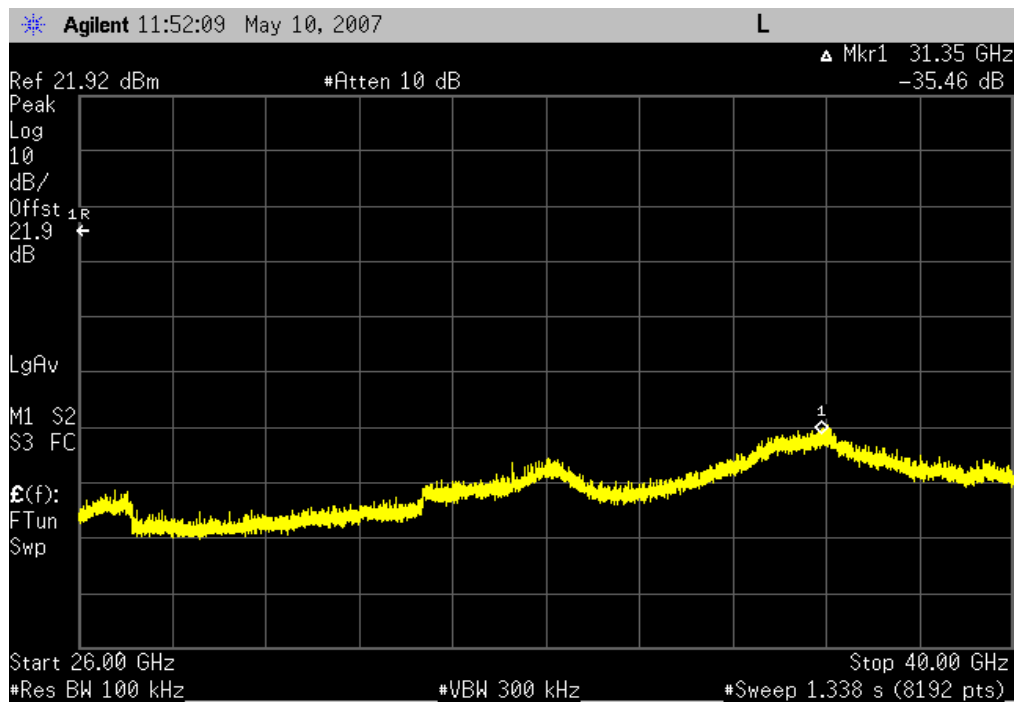
Value: -45.70 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, Mid Channel, 26 GHz - 40 GHz

Result: Pass

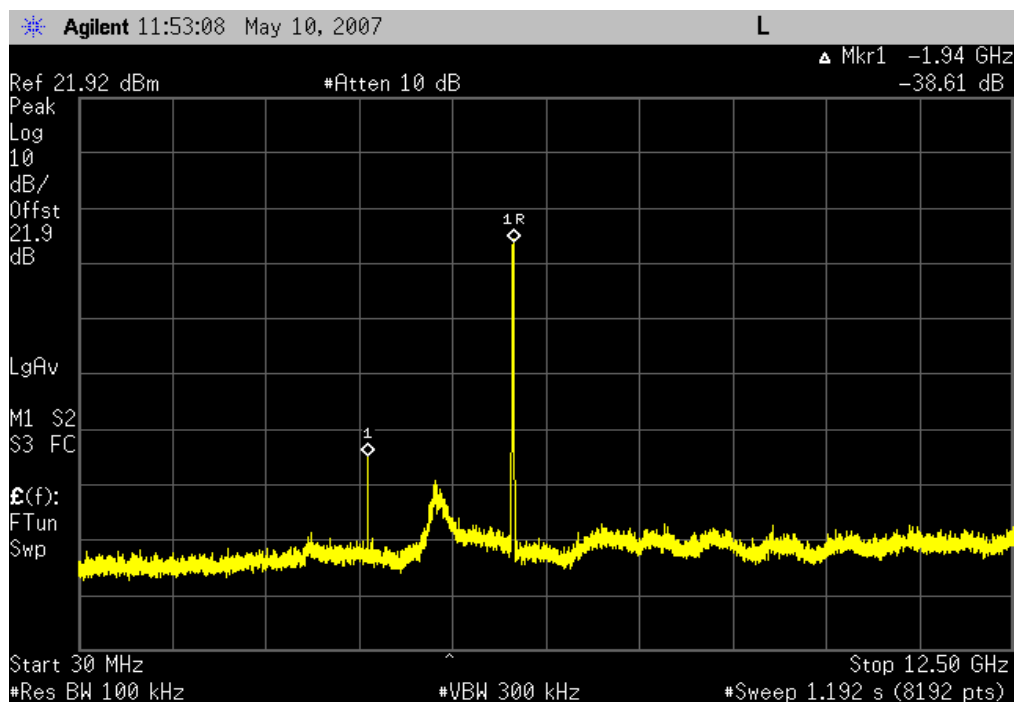
Value: -35.46 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, High Channel, 30 MHz - 12.5 GHz

Result: Pass

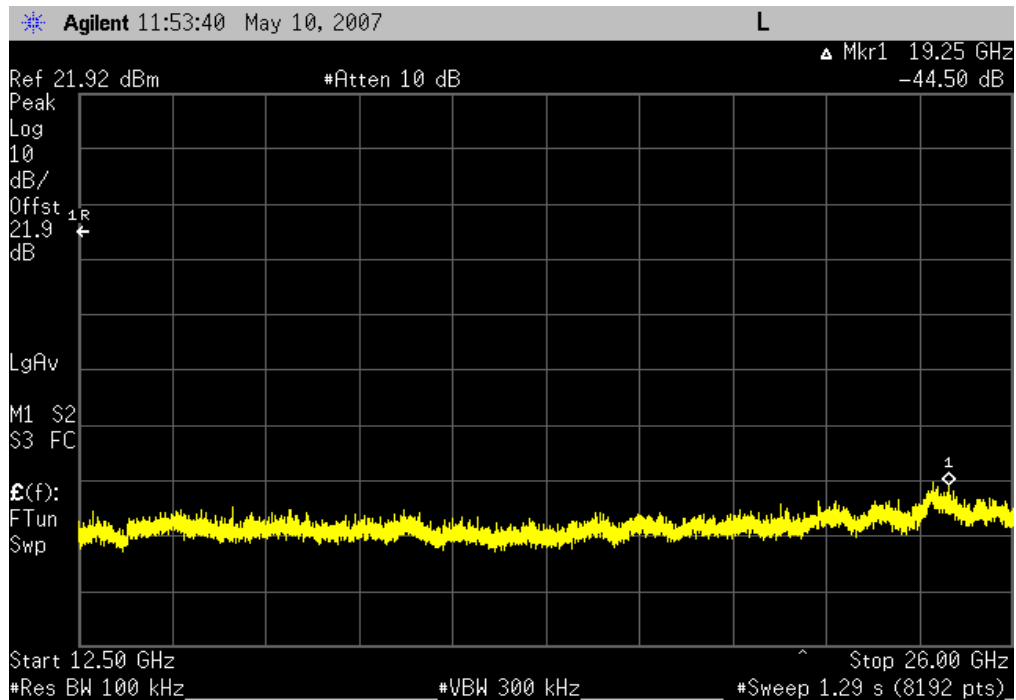
Value: -38.61 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, High Channel, 12-5 GHz - 26 GHz

Result: Pass

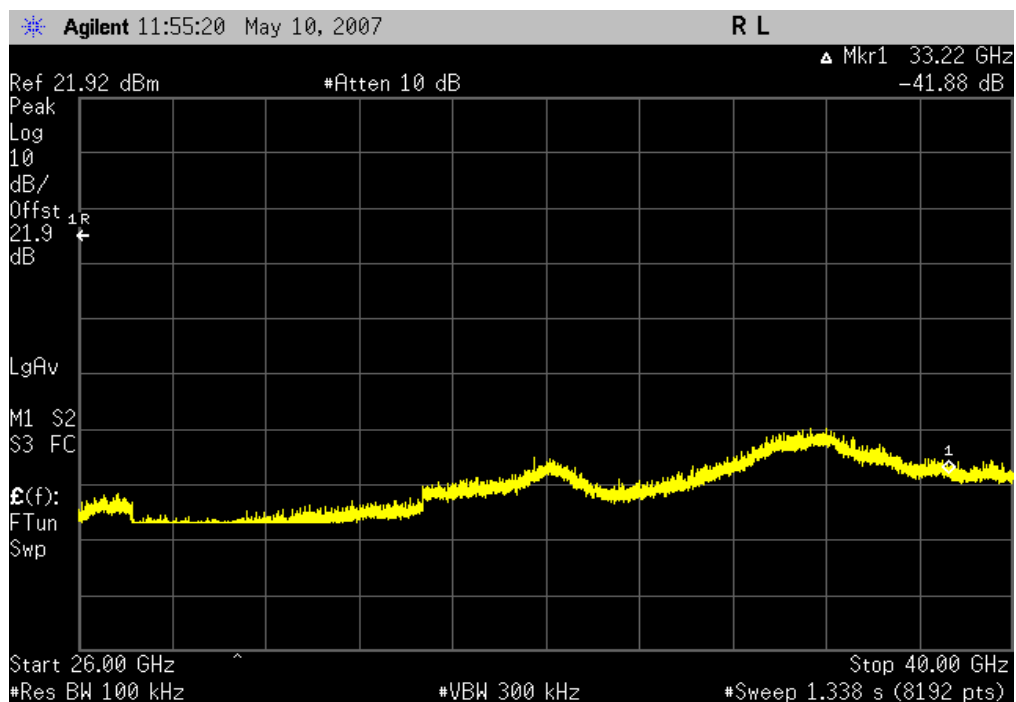
Value: - 44.50 dBc

Limit: ≤ -20 dBc

802.11(a) 36 Mbps, High Channel, 26 GHz - 40 GHz

Result: Pass

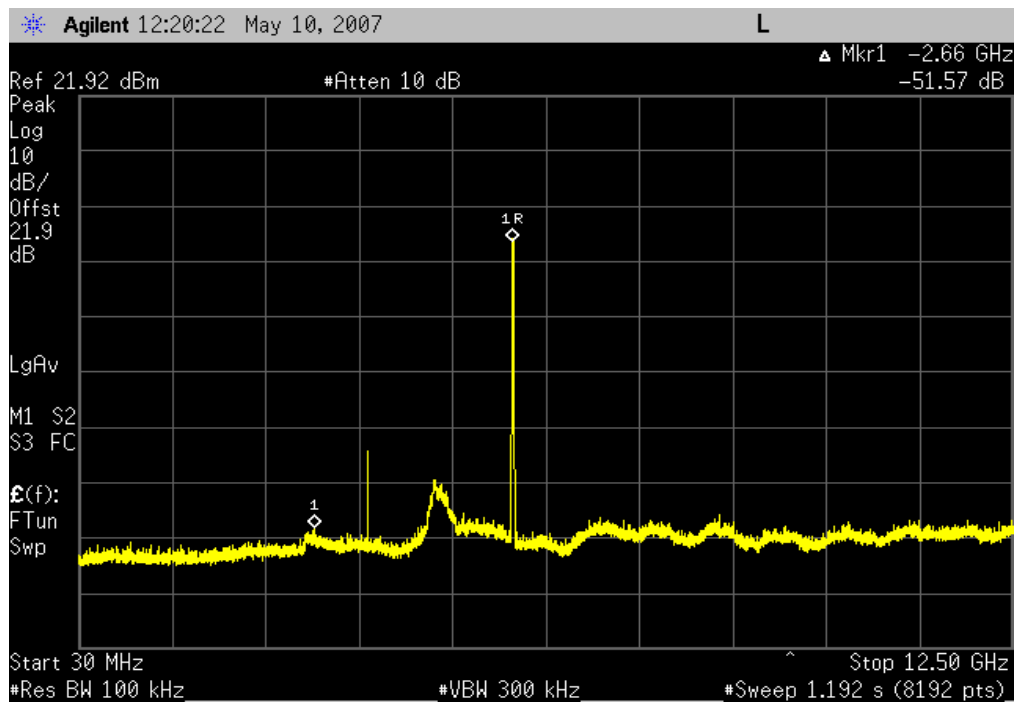
Value: - 33.33 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Low Channel, 30 MHz - 12.5 GHz

Result: Pass

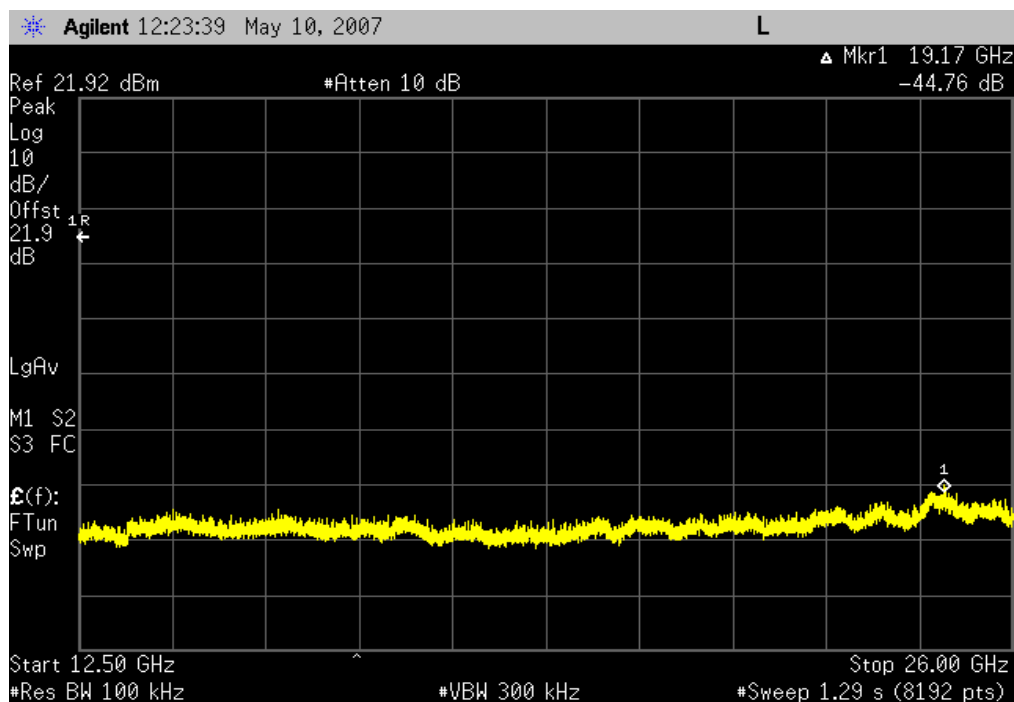
Value: - 51.57 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Low Channel, 12-5 GHz - 26 GHz

Result: Pass

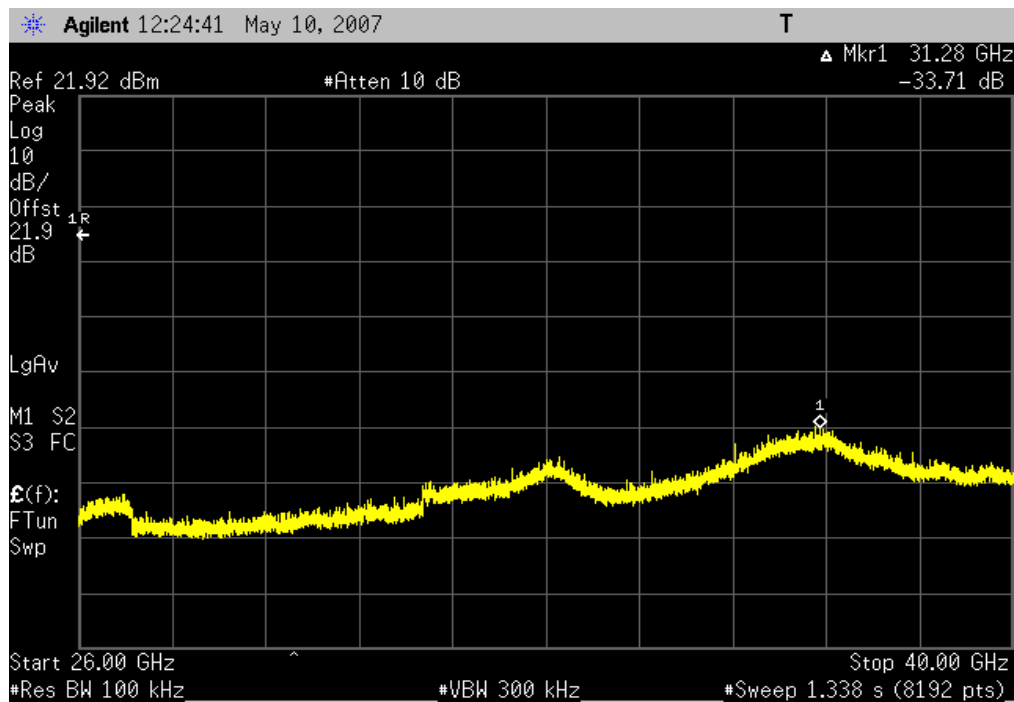
Value: - 44.76 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Low Channel, 26 GHz - 40 GHz

Result: Pass

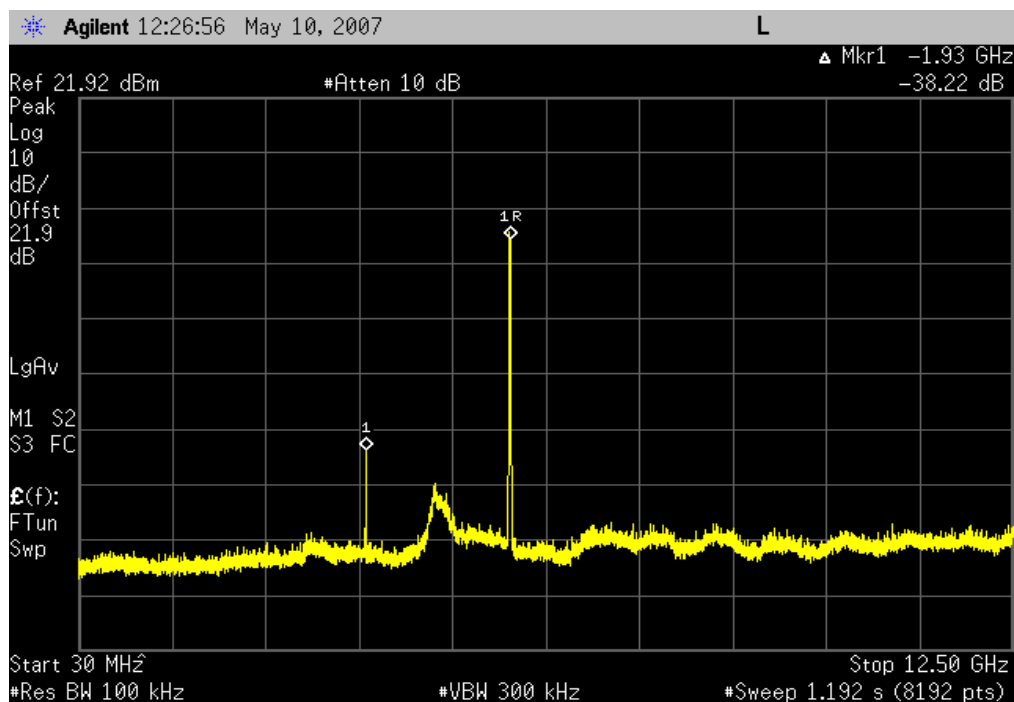
Value: -33.71 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Mid Channel, 30 MHz - 12.5 GHz

Result: Pass

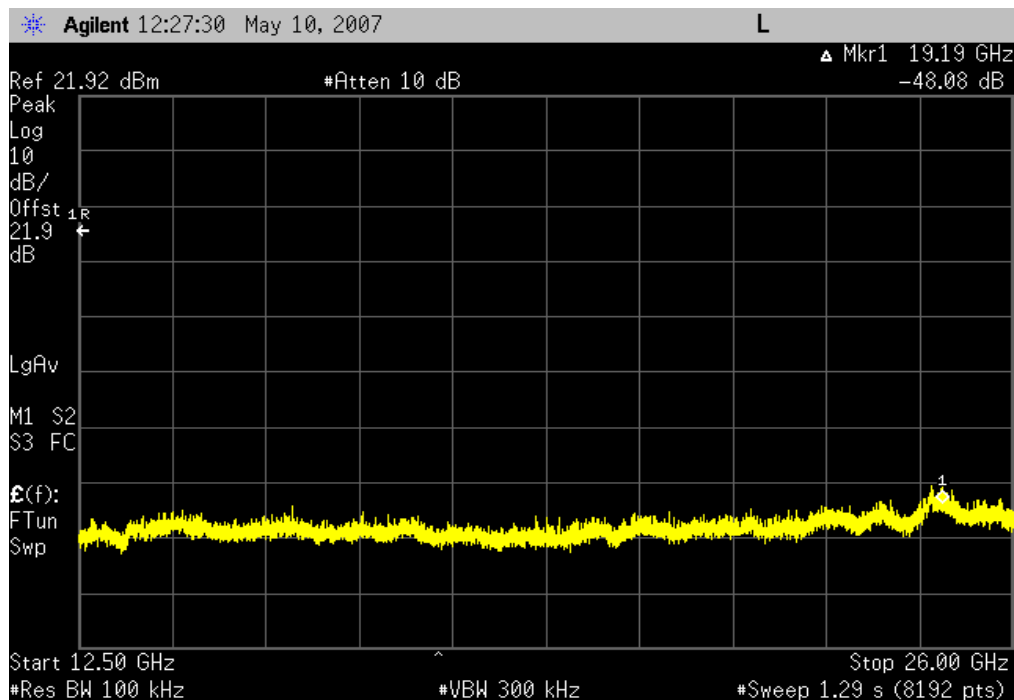
Value: -38.22 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Mid Channel, 12-5 GHz - 26 GHz

Result: Pass

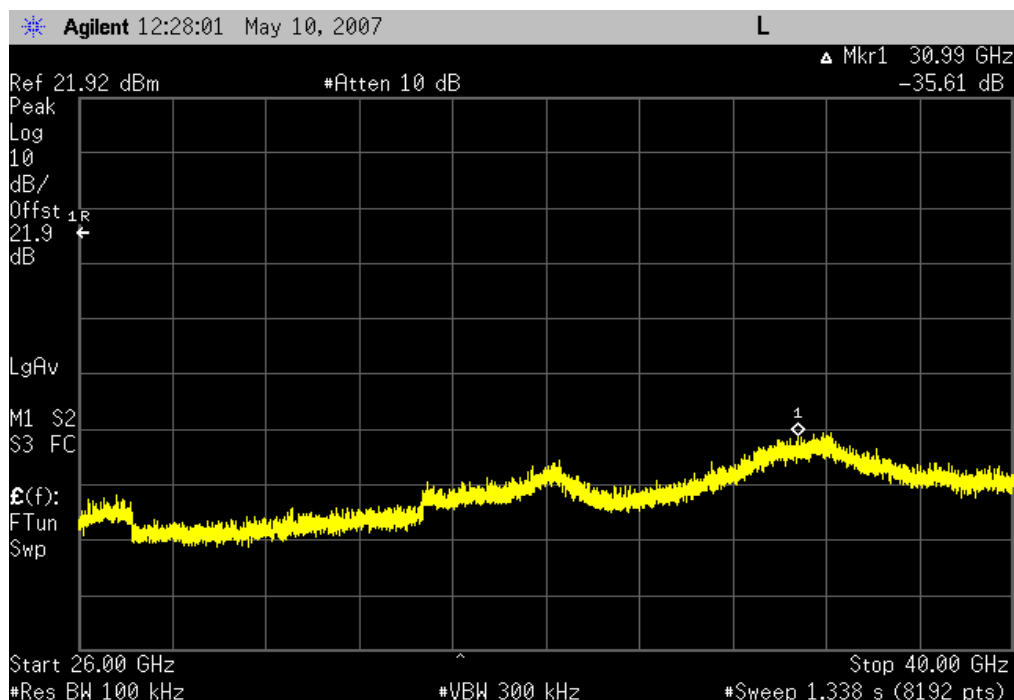
Value: -48.08 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, Mid Channel, 26 GHz - 40 GHz

Result: Pass

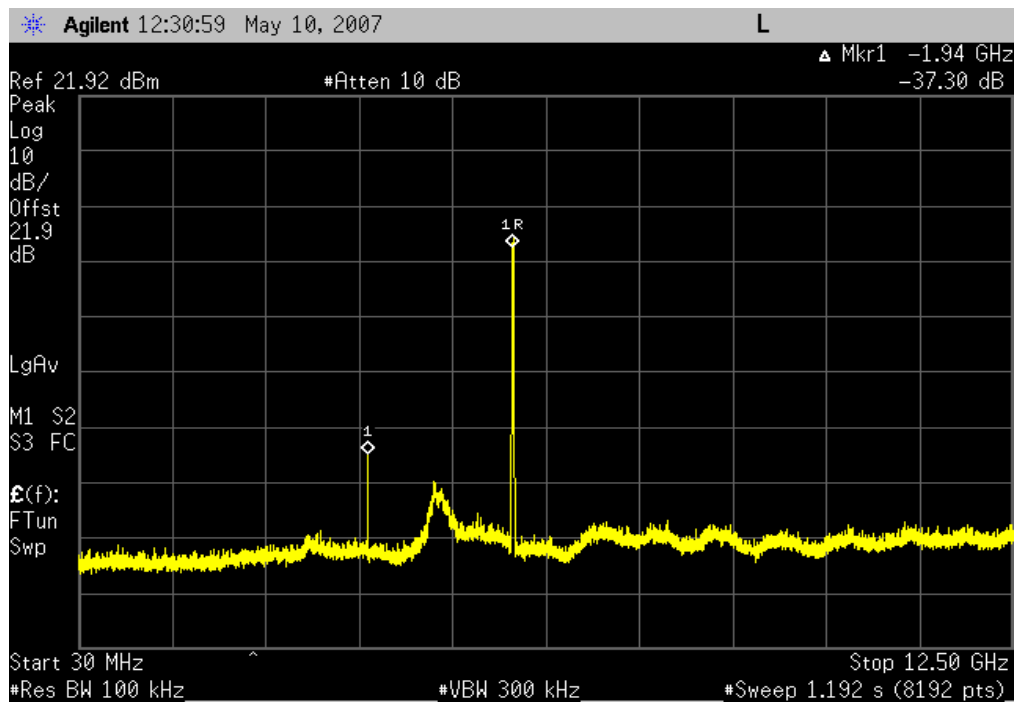
Value: -35.61 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, High Channel, 30 MHz - 12.5 GHz

Result: Pass

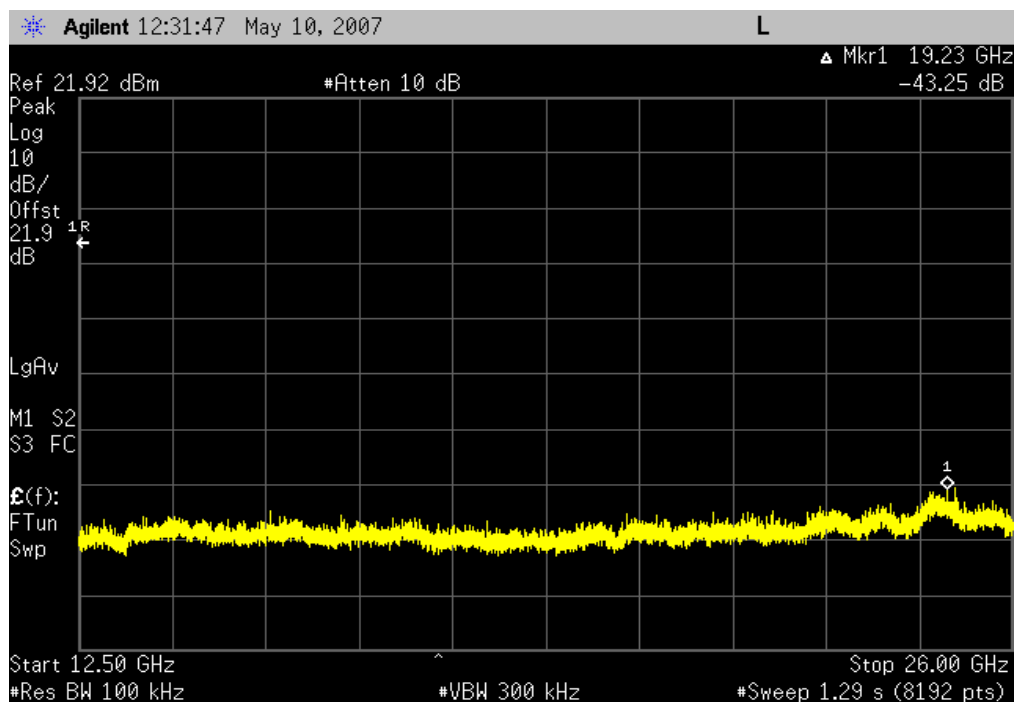
Value: -37.30 dBc

Limit: ≤ -20 dBc

802.11(a) 54 Mbps, High Channel, 12.5 GHz - 26 GHz

Result: Pass

Value: -43.25 dBc

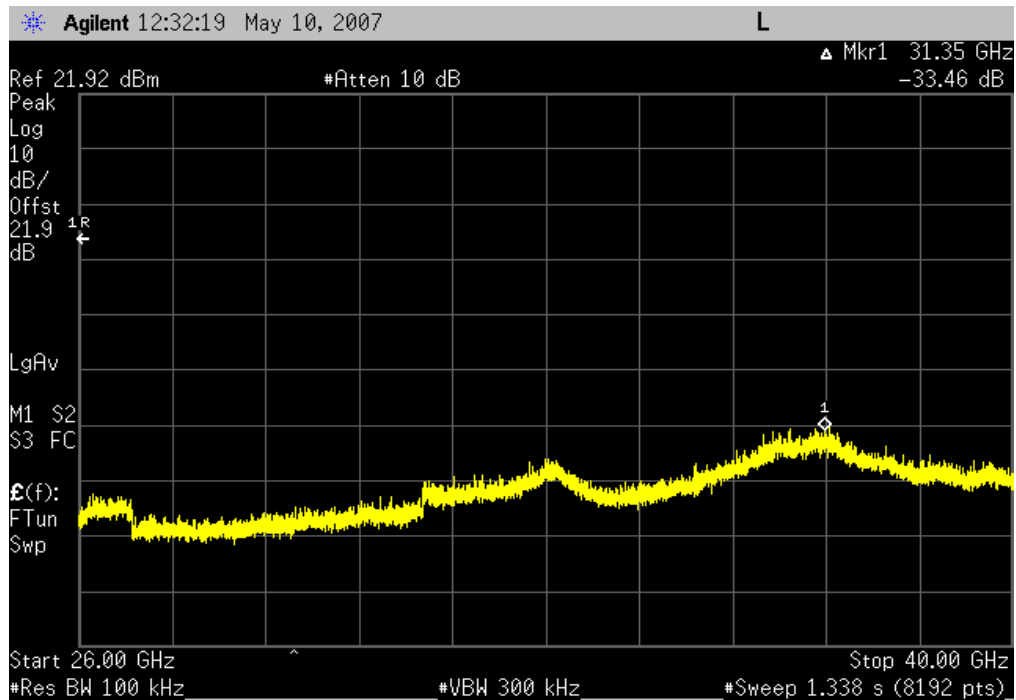
Limit: ≤ -20 dBc

Spurious Conducted Emissions

802.11(a) 54 Mbps, High Channel, 26 GHz - 40 GHz

Result: Pass

Value: - 33.46 dBc

Limit: ≤ -20 dBc

Spurious Conducted Emissions



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Hewlett-Packard	8481H	SPB	11/1/2006	13
Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set to low and high transmit frequencies. The measurement was made using a Biconilog antenna and a spectrum analyzer. The EUT was transmitting at its maximum data. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

EMC

POWER SPECTRAL DENSITY

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/08/07
Customer:	Honeywell	Temperature:	23°C
Attendees:	David Shipley	Humidity:	26%
Project:	None	Barometric Pres.:	29.9
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Setting = (25) in Test Software.

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps	Low Channel	- 6.33 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 6.89 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 8.28 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 36 Mbps	Low Channel	- 11.39 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 12.01 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 11.69 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 54 Mbps	Low Channel	- 14.84 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 15.42 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 14.33 dBm / 3 kHz	8 dBm / 3 kHz	Pass

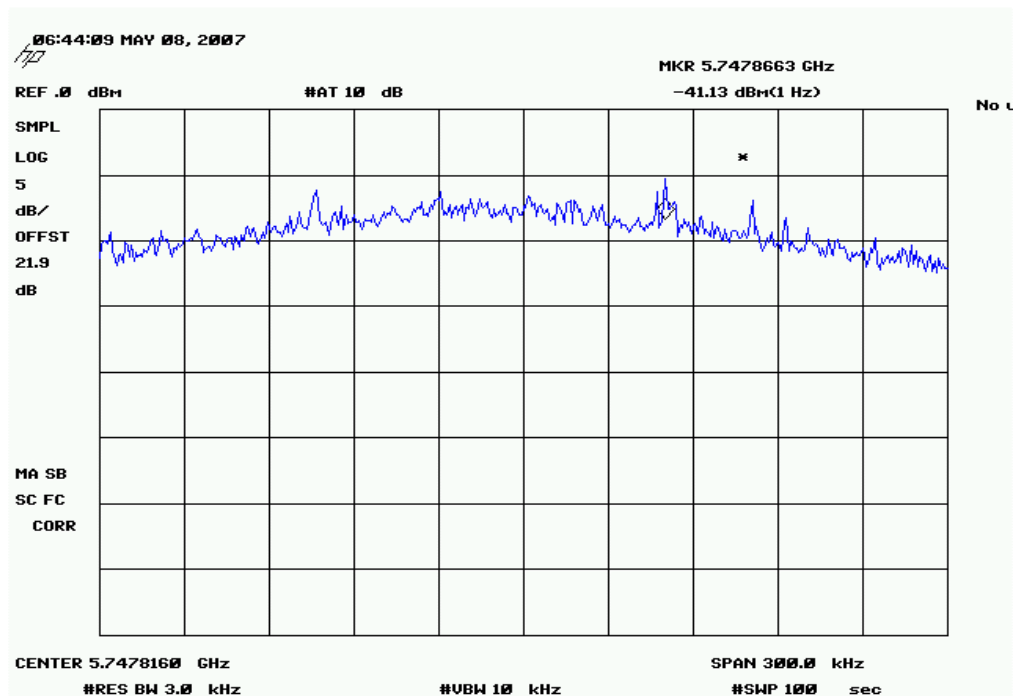
POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: - 6.33 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

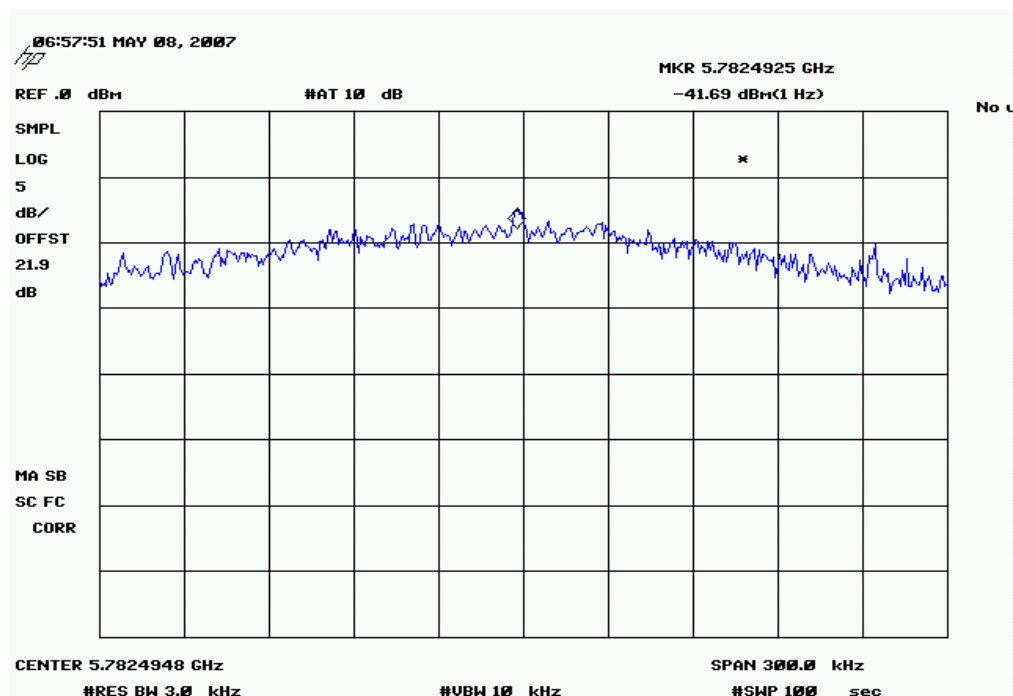


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: - 6.89 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



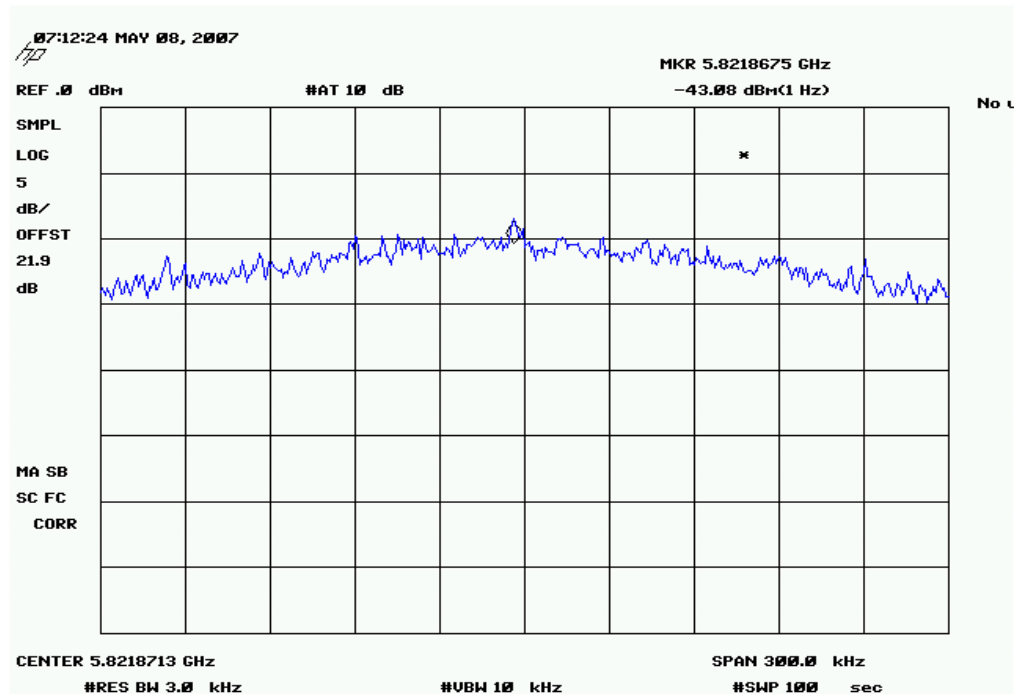
POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: - 8.28 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

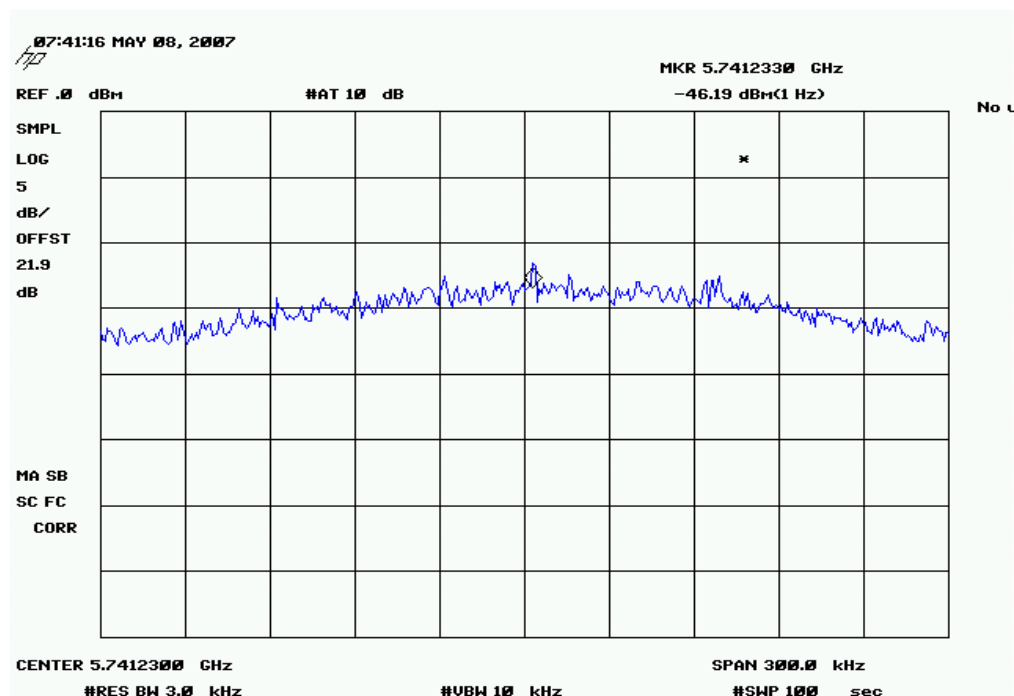


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: - 11.39 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



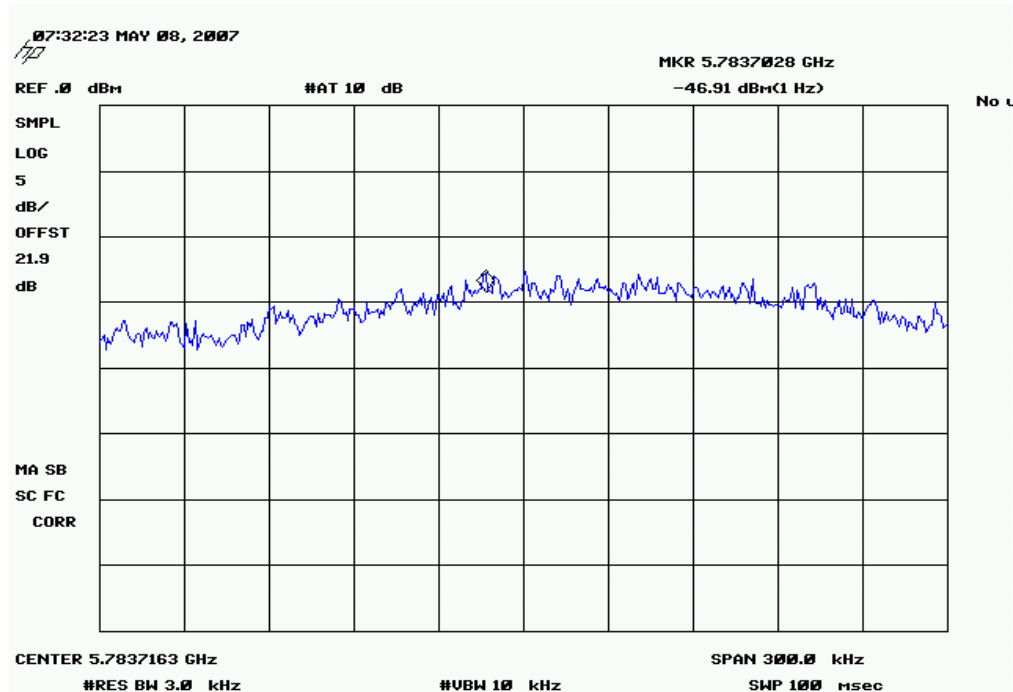
POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: - 12.01 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

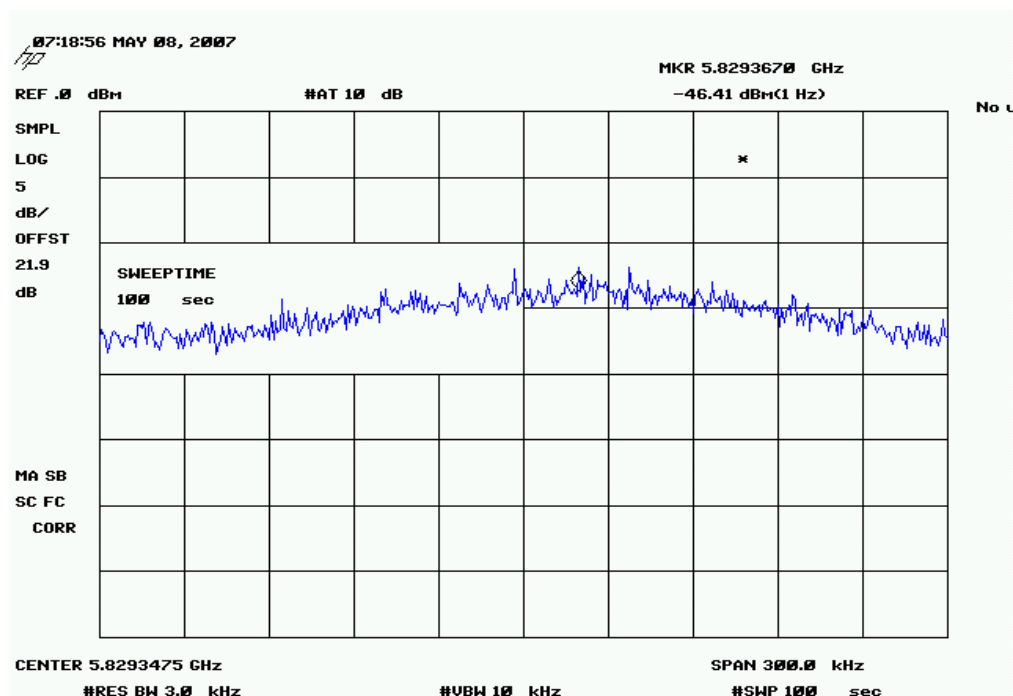


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: - 11.69 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



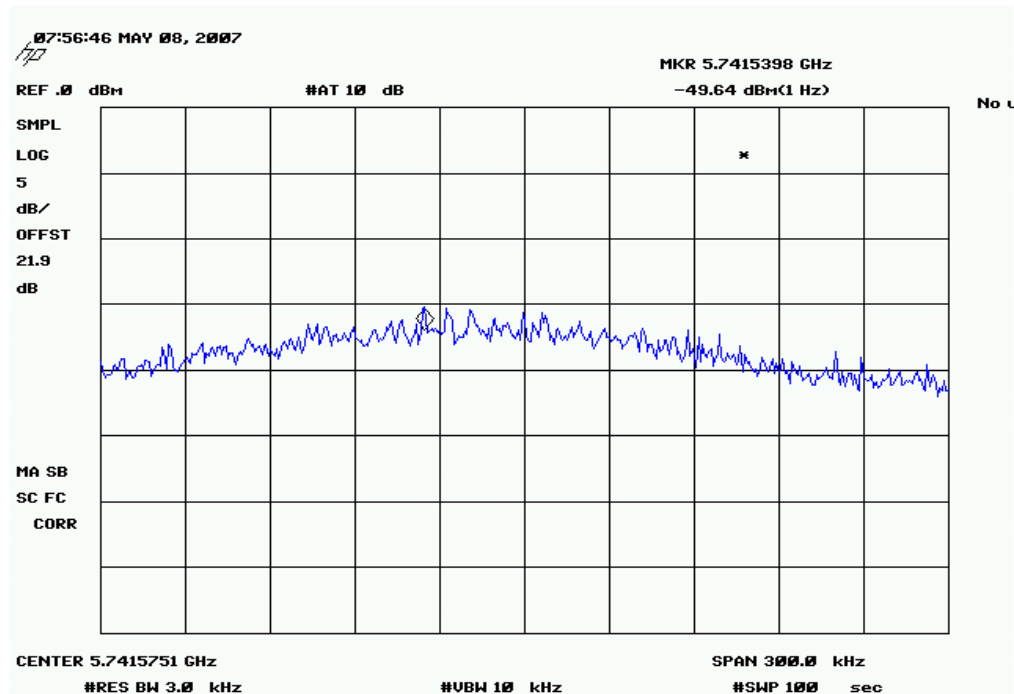
POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: - 14.84 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

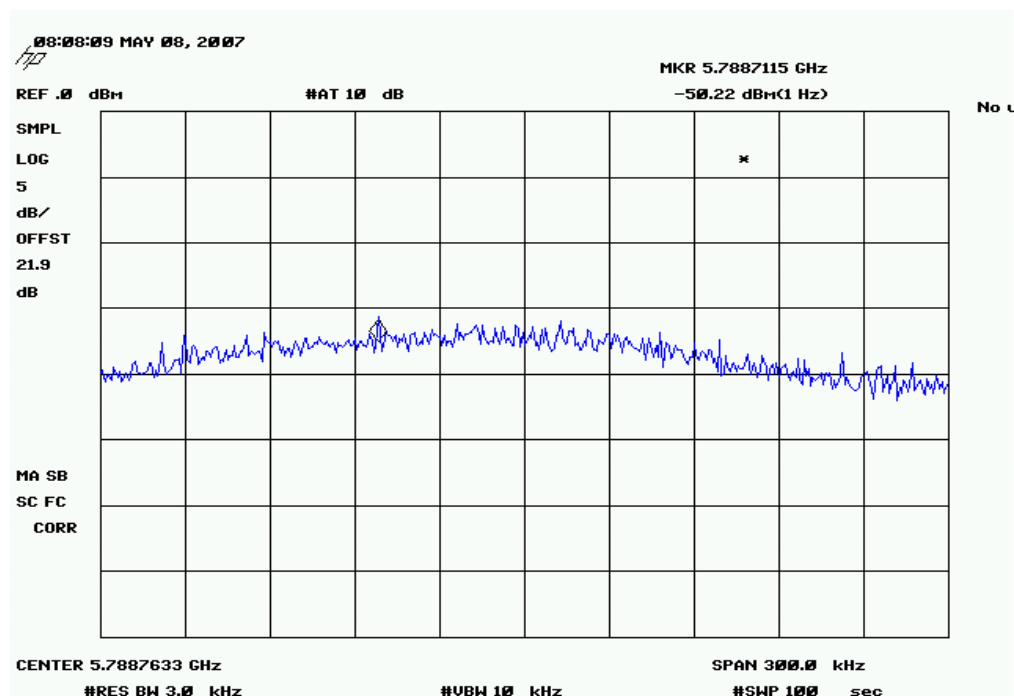


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: - 15.42 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



EMC

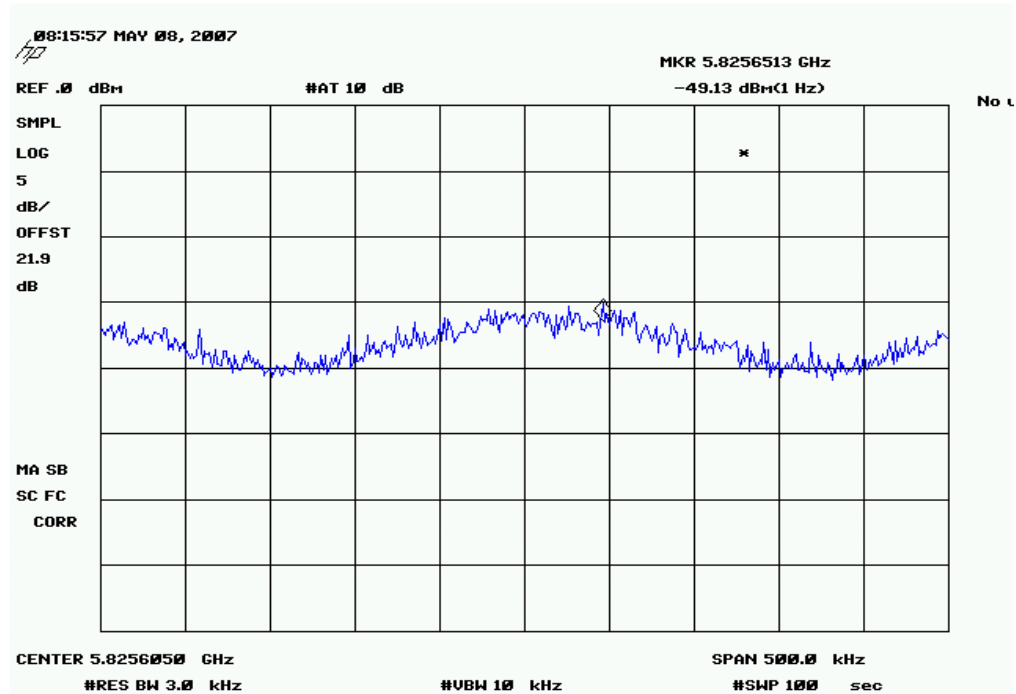
POWER SPECTRAL DENSITY

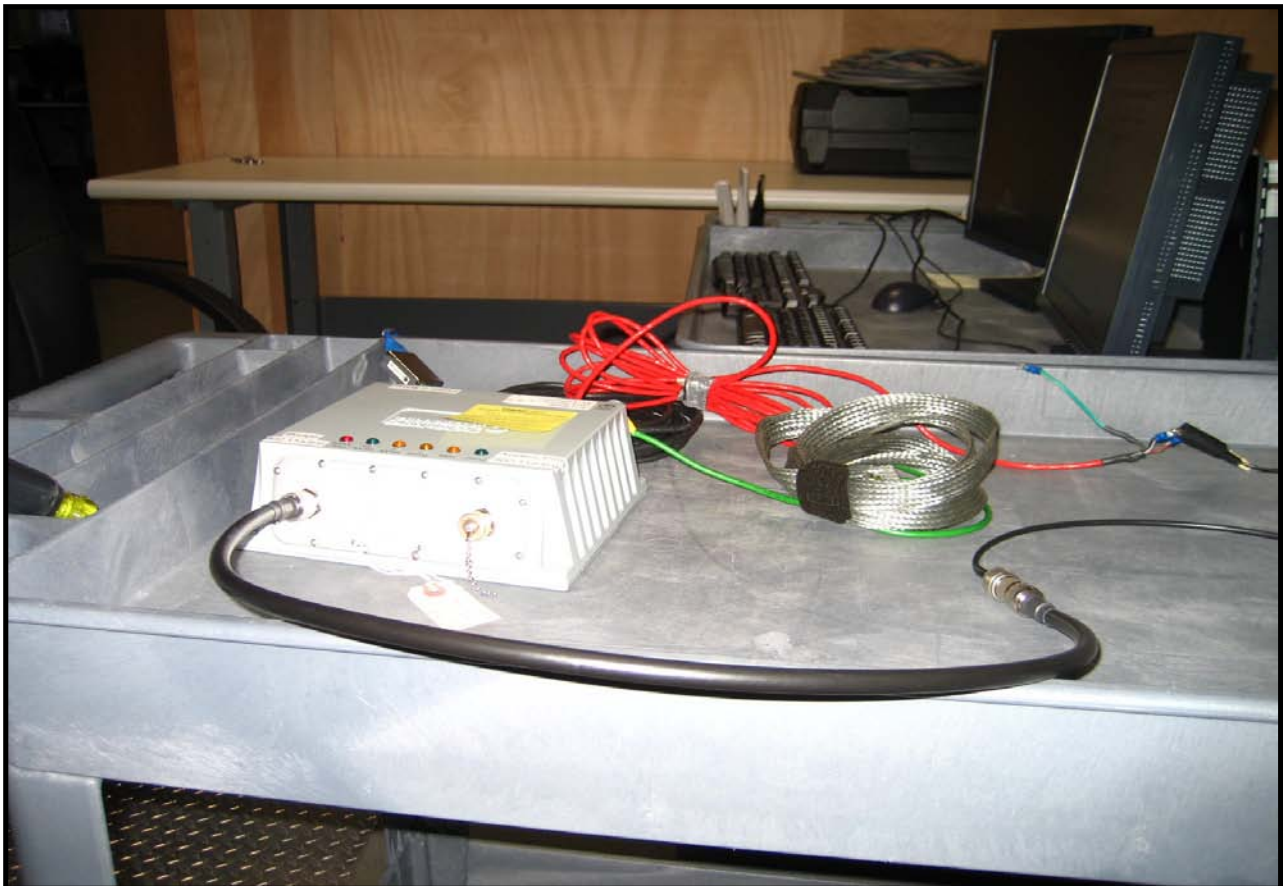
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: - 14.33 dBm / 3 kHz

Limit: 8 dBm / 3 kHz





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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
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Power Meter	Hewlett Packard	E4418A	SPA	11/1/2006	13
Spectrum Analyzer	Hewlett Packard	8593E	AAP	12/14/2006	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set to low and high transmit frequencies. The measurement was made using a Biconilog antenna and a spectrum analyzer. The EUT was transmitting at its maximum data. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

EMC

POWER SPECTRAL DENSITY

EUT:	51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)	Work Order:	HONE0011
Serial Number:	None	Date:	05/08/07
Customer:	Honeywell	Temperature:	23°C
Attendees:	David Shipley	Humidity:	26%
Project:	None	Barometric Pres.:	29.9
Tested by:	Jaemi Suh	Power:	24 VDC
		Job Site:	OC03

TEST SPECIFICATIONS

Test Method

FCC 15.247 (DTS):2006

ANSI C63.4:2003 KDB No. 558074

COMMENTS

Power Output Setting on Computer = (-7)

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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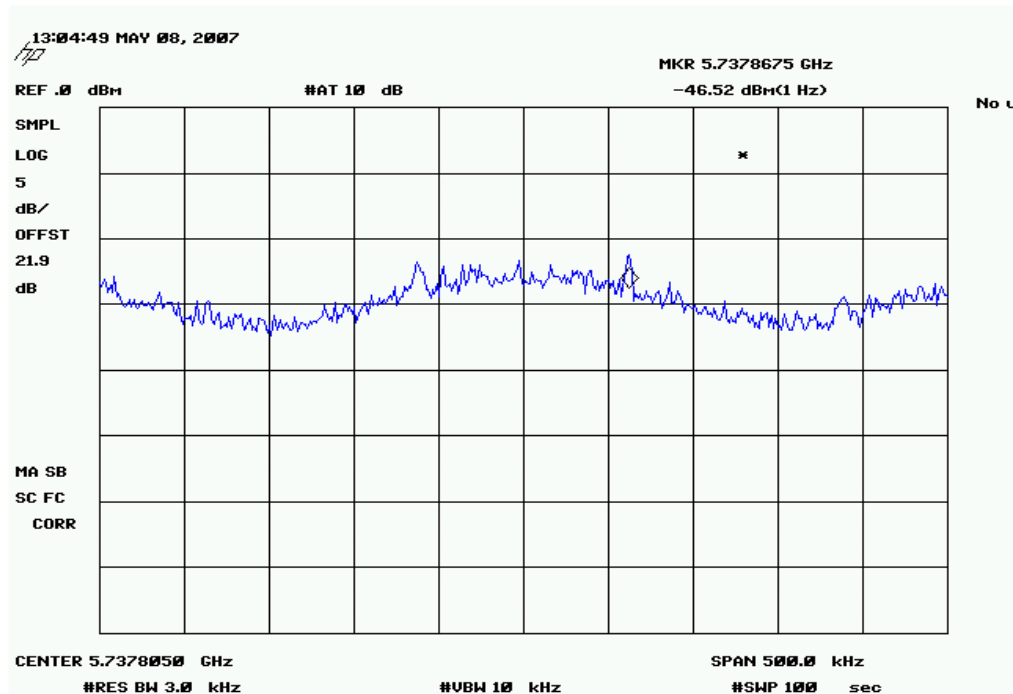
		Value	Limit	Results
802.11(a) 6 Mbps	Low Channel	- 11.72 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 10.77 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 11.06 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 36 Mbps	Low Channel	- 13.79 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 12.76 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 12.19 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 54 Mbps	Low Channel	- 13.7 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	- 15.01 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	- 14.39 dBm / 3 kHz	8 dBm / 3 kHz	Pass

802.11(a) 6 Mbps, Low Channel

Result: Pass

Value: - 11.72 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

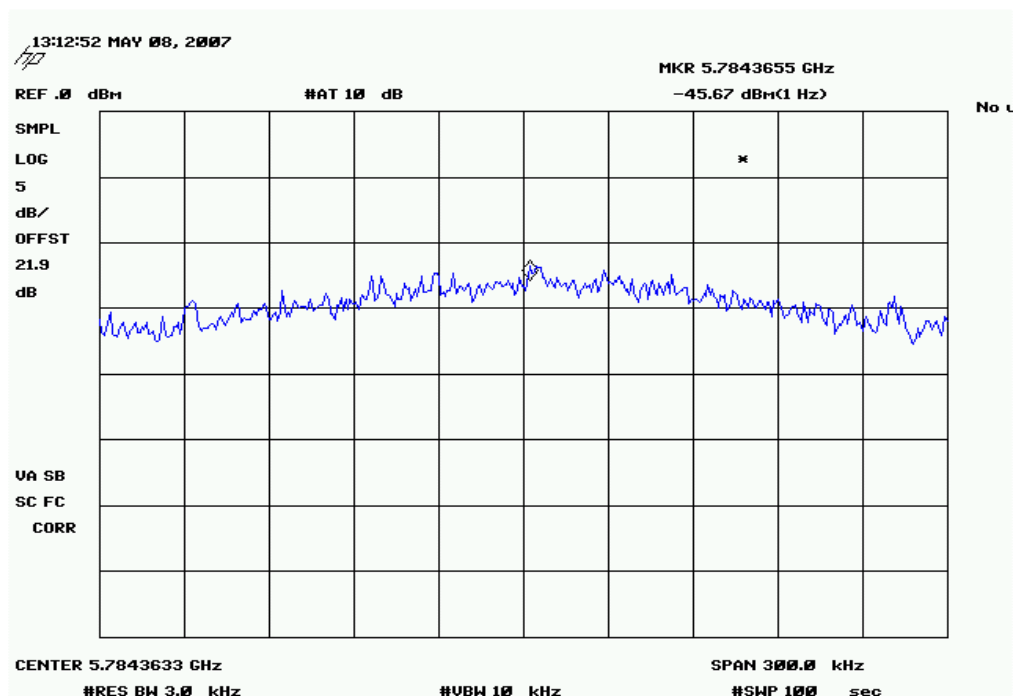


802.11(a) 6 Mbps, Mid Channel

Result: Pass

Value: - 10.77 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



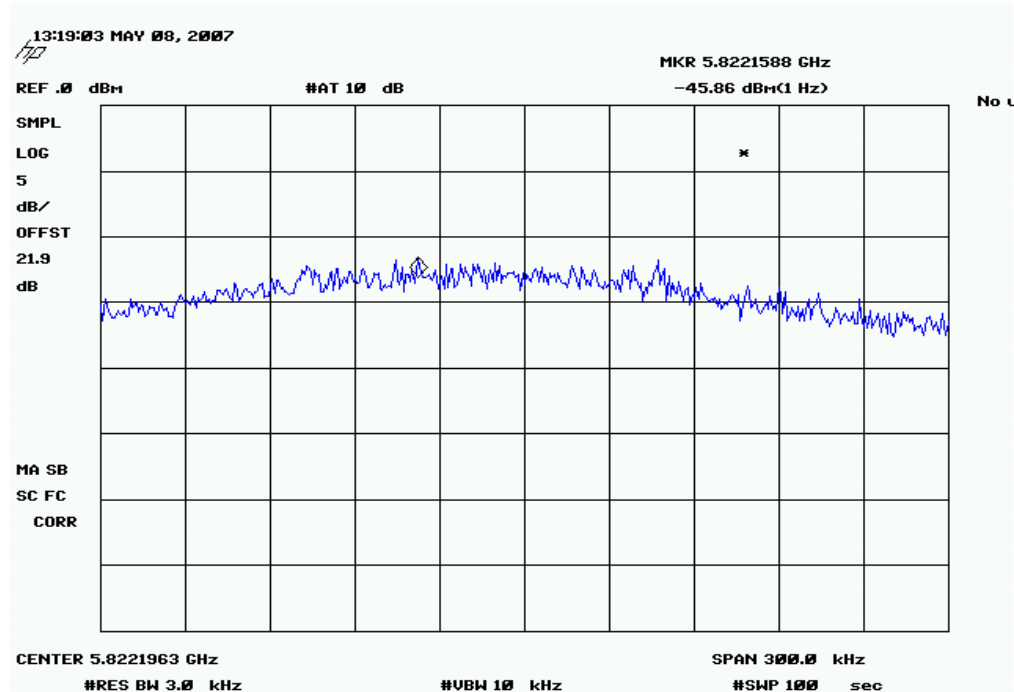
POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, High Channel

Result: Pass

Value: - 11.06 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

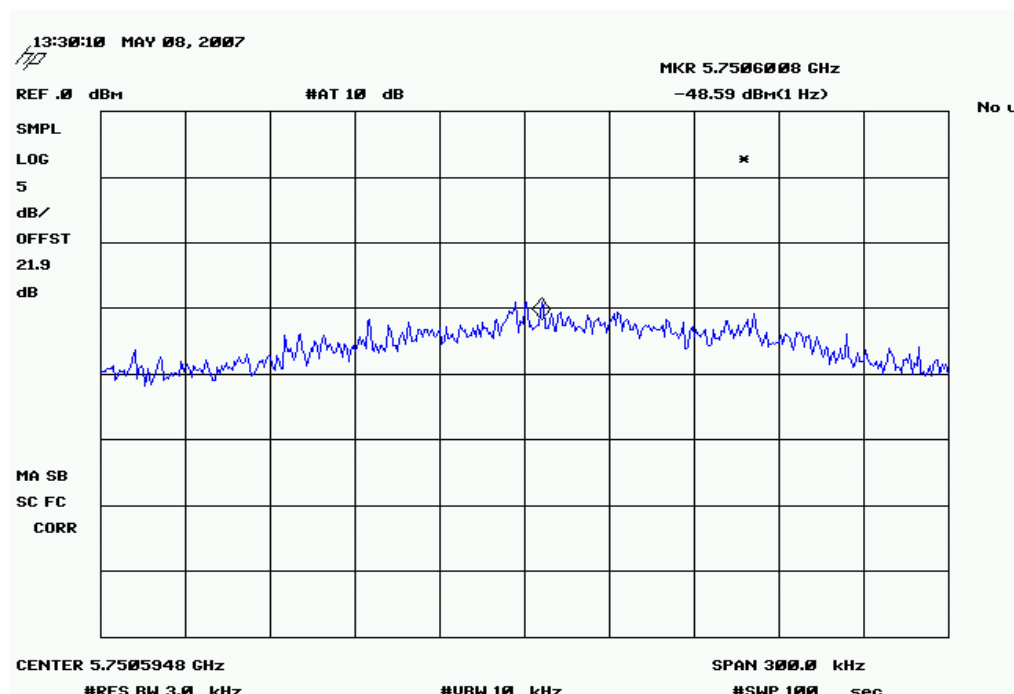


802.11(a) 36 Mbps, Low Channel

Result: Pass

Value: - 13.79 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



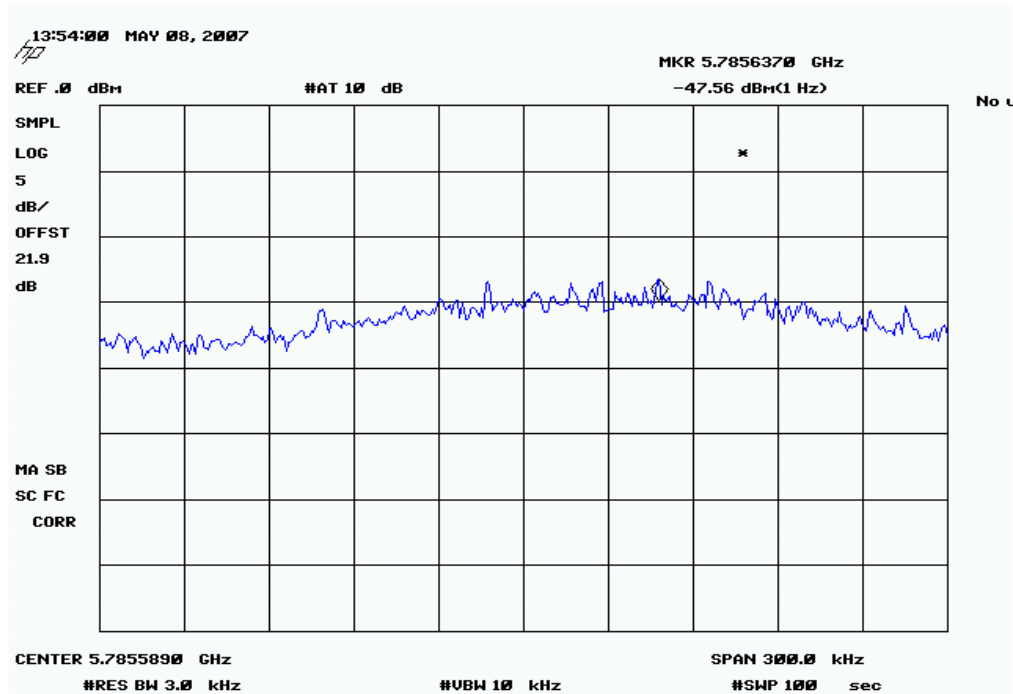
POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, Mid Channel

Result: Pass

Value: - 12.76 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

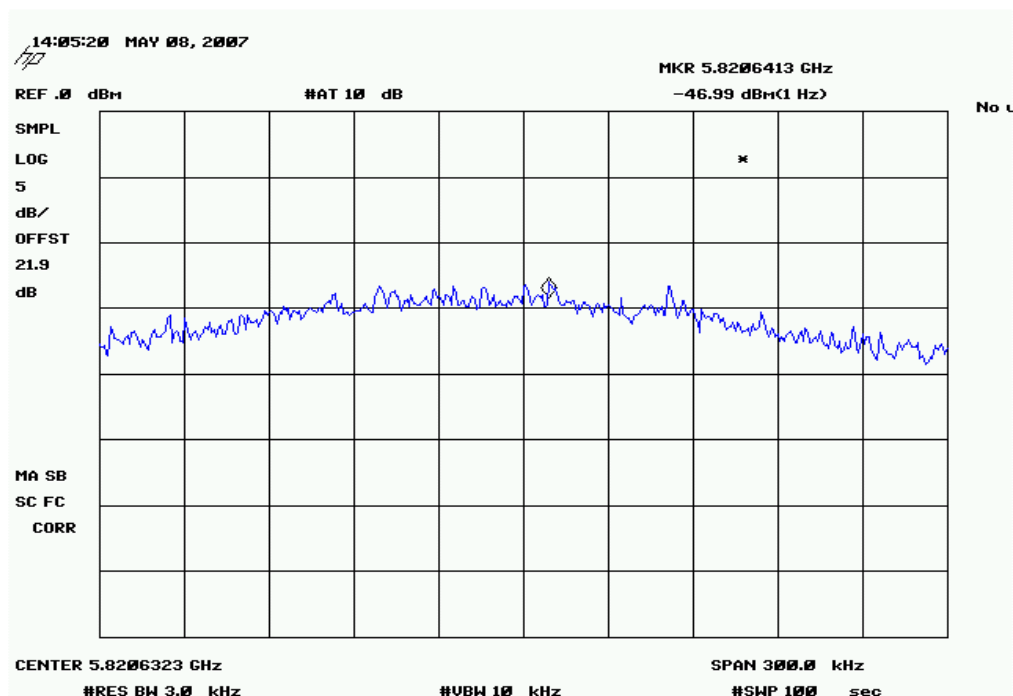


802.11(a) 36 Mbps, High Channel

Result: Pass

Value: - 12.19 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



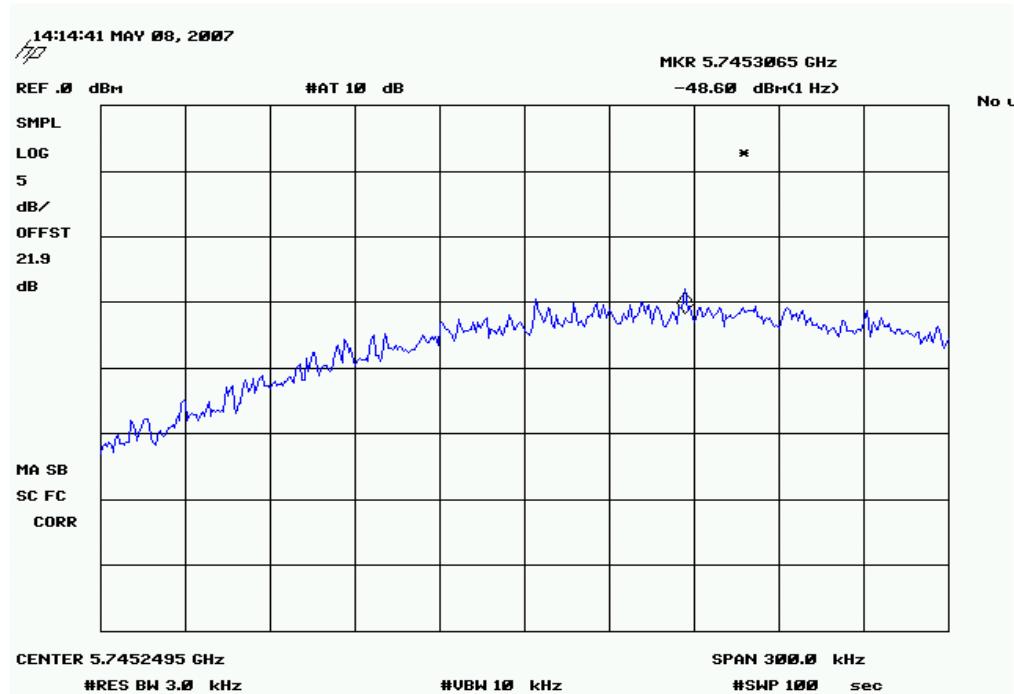
POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, Low Channel

Result: Pass

Value: - 13.7 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

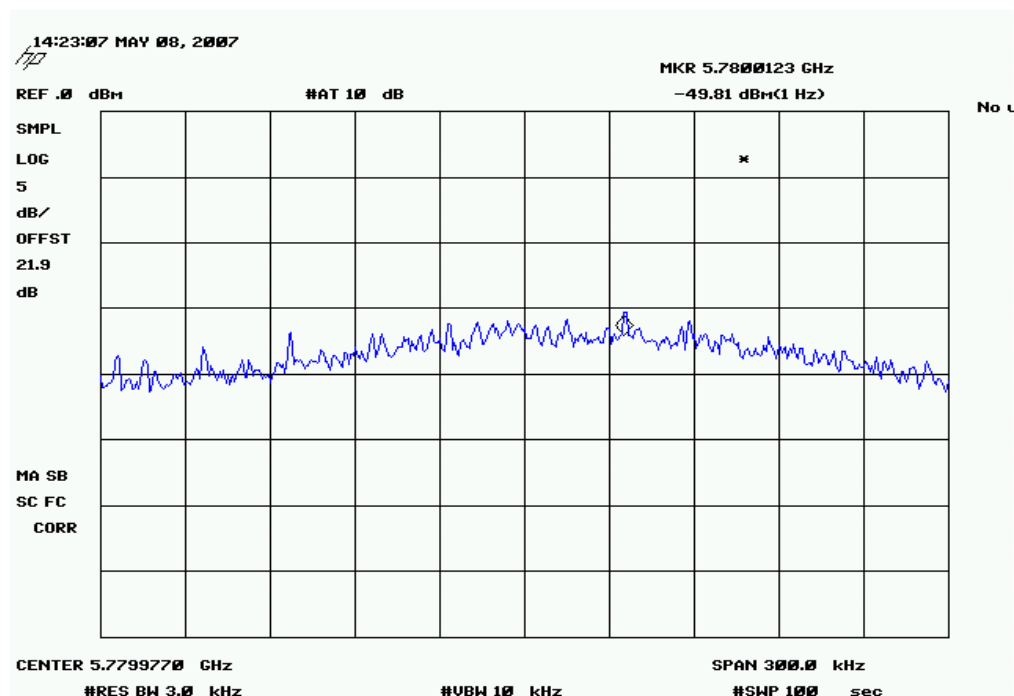


802.11(a) 54 Mbps, Mid Channel

Result: Pass

Value: - 15.01 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



EMC

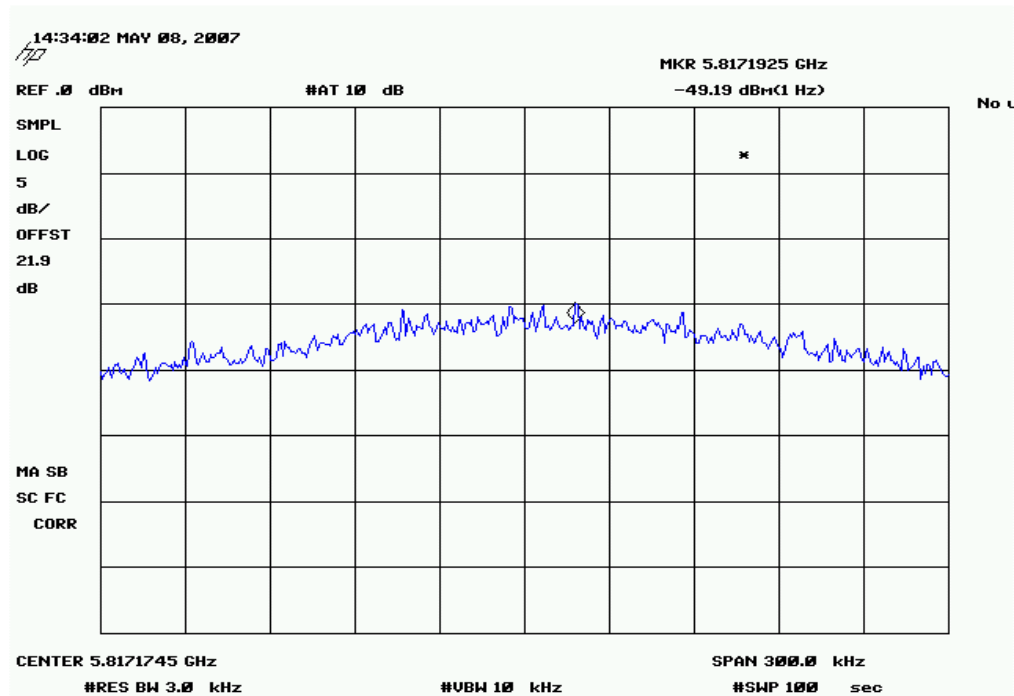
POWER SPECTRAL DENSITY

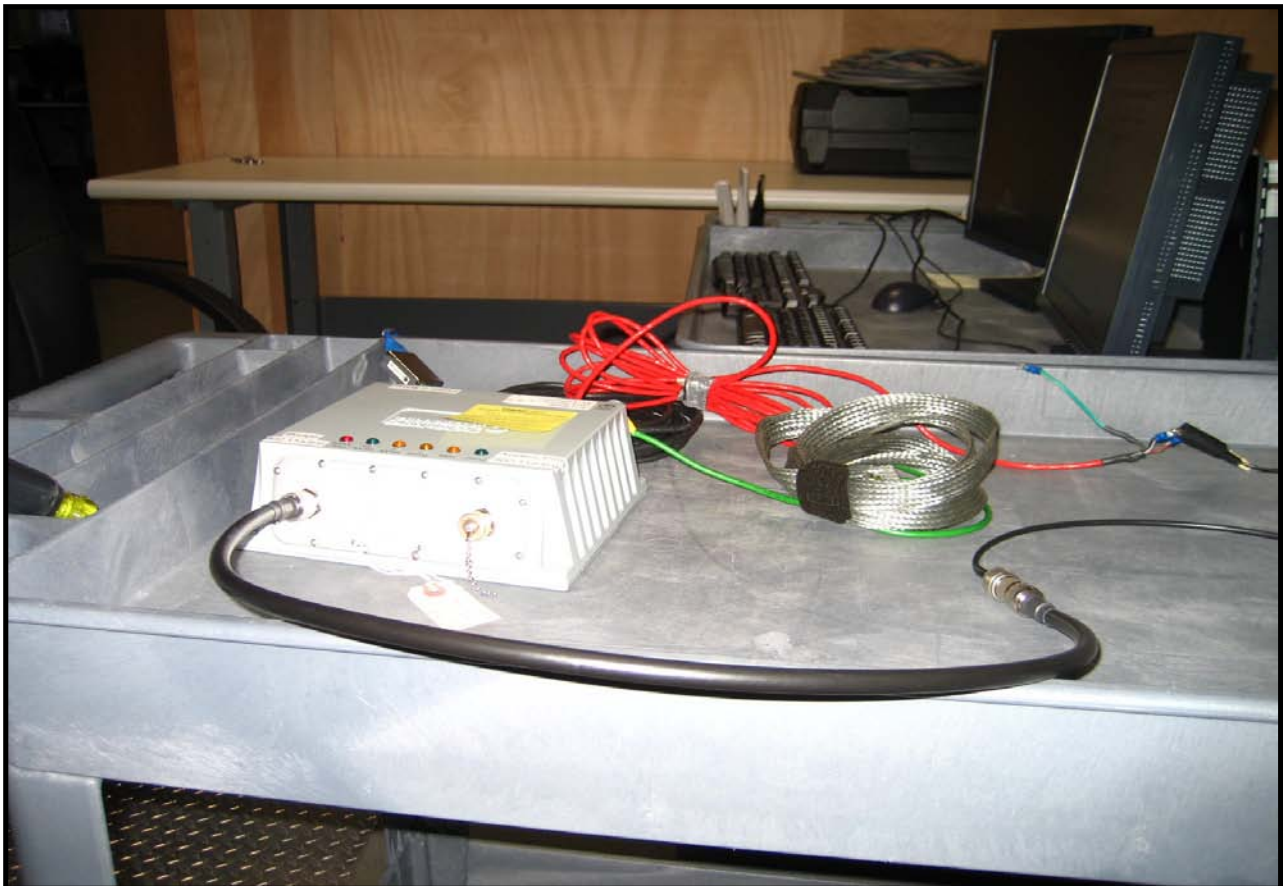
802.11(a) 54 Mbps, High Channel

Result: Pass

Value: - 14.39 dBm / 3 kHz

Limit: 8 dBm / 3 kHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting at 5745 MHz (Low Channel) at 1, 11, 6, 36, 54 Mbps

Transmitting at 5785 MHz (Mid Channel) at 1, 11, 6, 36, 54 Mbps

Transmitting at 5825 MHz (High Channel) at 1, 11, 6, 36, 54 Mbps

MODE USED FOR FINAL DATA

Transmitting at 5745 MHz (Low Channel) at 1, 11, 6, 36, 54 Mbps

Transmitting at 5785 MHz (Mid Channel) at 1, 11, 6, 36, 54 Mbps

Transmitting at 5825 MHz (High Channel) at 1, 11, 6, 36, 54 Mbps

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency

30 MHz

Stop Frequency

40 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	7/11/2006	13
Antenna, Horn	EMCO	3160-09	AHN	NCR	0
OC10 SMA cable for 18026 GHz			OCK	7/11/2006	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	10/13/2006	12
Antenna, Horn	ETS	3160-08	AHT	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	10/13/2006	12
Antenna, Horn	ETS	3160-07	AHR	NCR	24
OC10 cables a,b,c,e,f Horn Cables			OCJ	1/14/2007	13
Antenna, Horn	EMCO	3115	AHB	8/1/2005	24
OC 10 Cables a, b, c, f Cables			OCO	1/14/2007	13
Antenna, Biconilog	EMCO	3142	AXJ	3/14/2006	24
OC10 cables a,b,c,d Bilog			OCH	12/17/2006	13
Pre-Amplifier	Miteq	AM-1616-1000	AOM	12/17/2006	13
Spectrum Analyzer	Agilent	E4446A	AAQ	1/18/2007	13

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

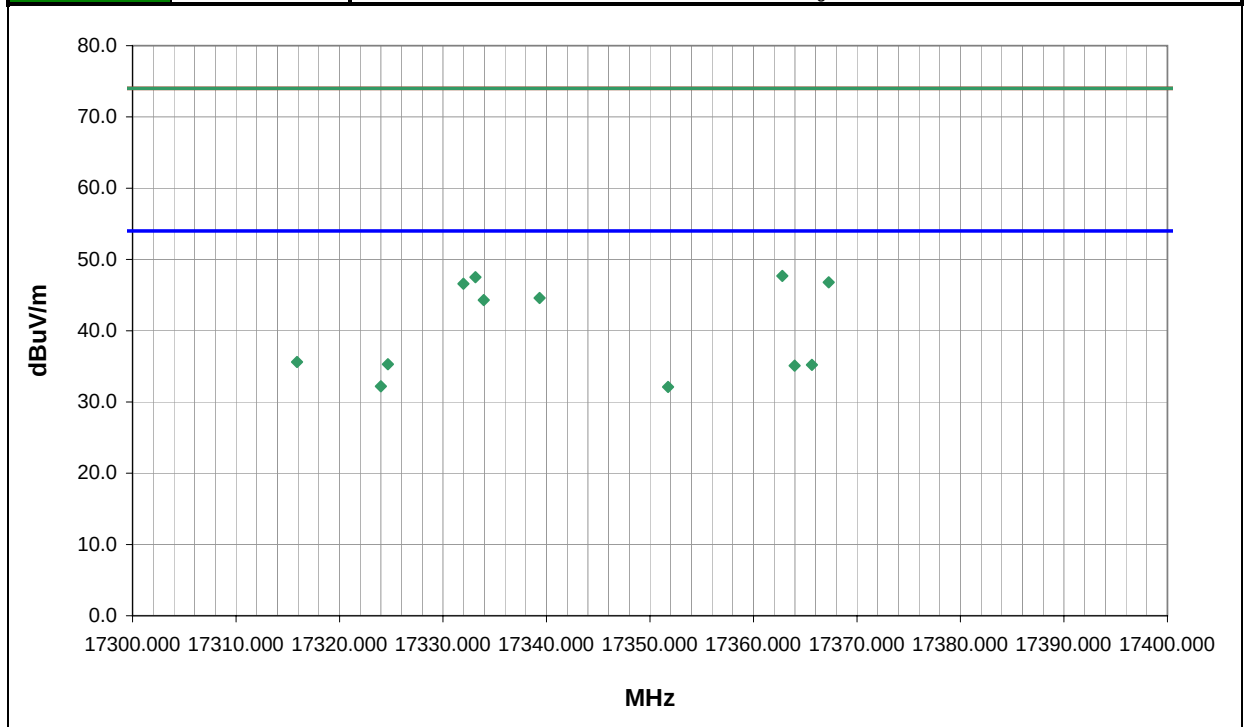
MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

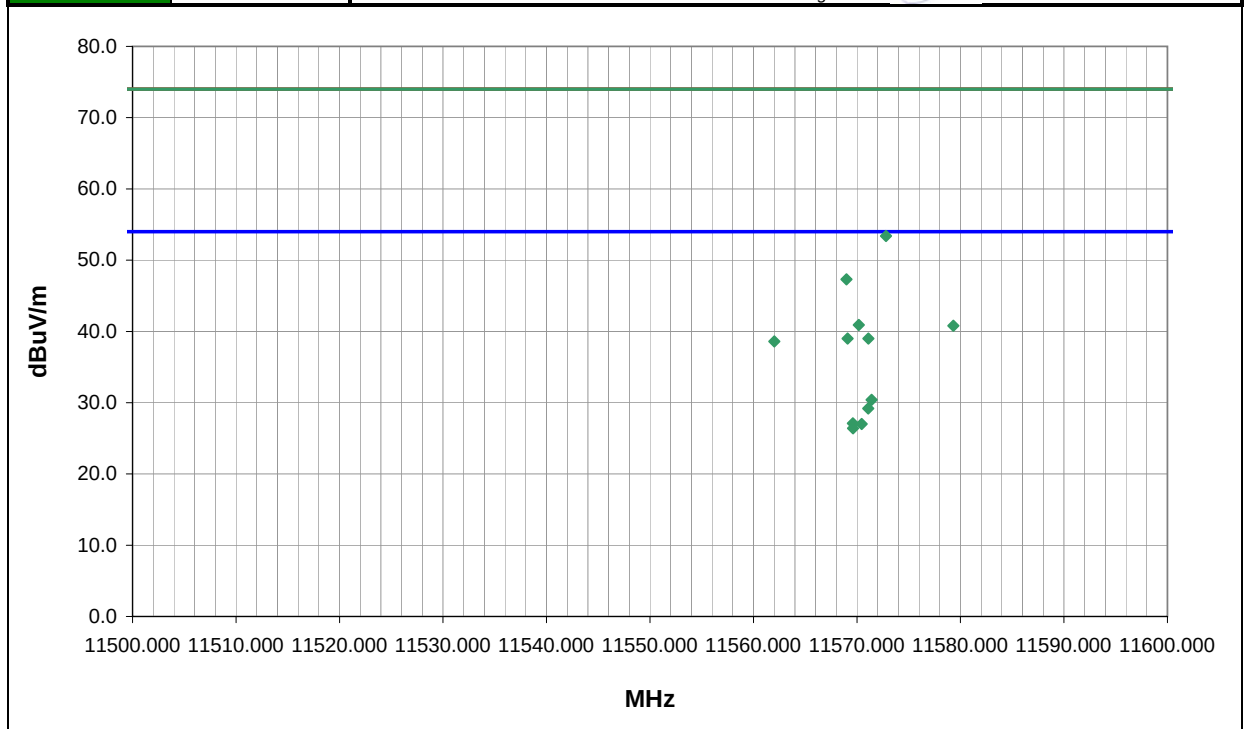
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

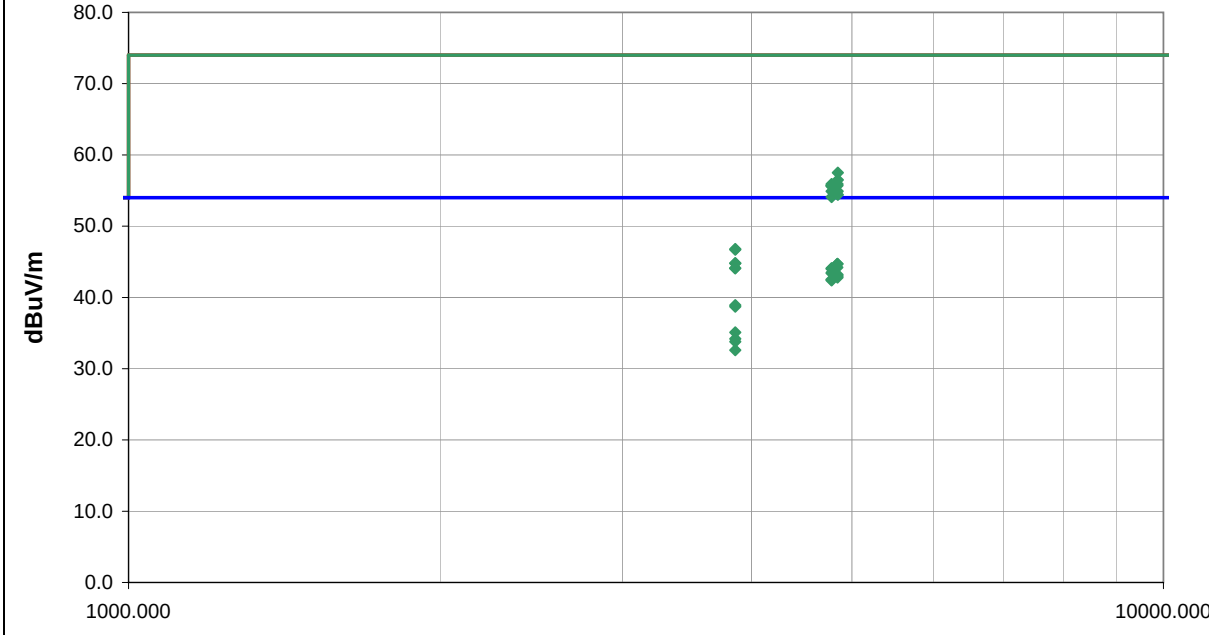
NORTHWEST EMC		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)			Work Order: HONE0011		
Serial Number: None			Date: 04/19/07		
Customer: Honeywell			Temperature: 23c		
Attendees: David Shipley			Humidity: 32%		
Project: None			Barometric Pres.: 30.08		
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10		
TEST SPECIFICATIONS			Test Method		
FCC 15.247 (DTS):2006			ANSI C63.4:2003 KDB No. 558074		
TEST PARAMETERS					
Antenna Height(s) (m)		1 - 4		Test Distance (m)	0
COMMENTS					
Directional (Parabolic Dish) Antenna. Hyperlink Model HG5824D. Mid Channel. Data Rate: 6, 36, 54 Mbps.					
EUT OPERATING MODES					
Transmitting at 5785 MHz					
DEVIATIONS FROM TEST STANDARD					
No deviations.					
Run #	19		Signature		
Configuration #	1				
Results	Pass				
			NVLAP Lab Code 200629-0		



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17315.900	27.9	7.7	37.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.6	54.0	-18.4
17324.680	27.6	7.7	36.0	2.3	0.0	0.0	H-Horn	AV	0.0	35.3	54.0	-18.7
17365.650	27.5	7.7	87.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
17363.980	27.4	7.7	17.0	2.2	0.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
17323.990	24.5	7.7	72.0	1.0	0.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8
17351.750	24.4	7.7	107.0	2.4	0.0	0.0	H-Horn	AV	0.0	32.1	54.0	-21.9
17362.790	40.0	7.7	87.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.7	74.0	-26.3
17333.130	39.8	7.7	36.0	2.3	0.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5
17367.270	39.1	7.7	17.0	2.2	0.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2
17331.980	38.9	7.7	37.0	1.0	0.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4
17339.330	36.9	7.7	107.0	2.4	0.0	0.0	H-Horn	PK	0.0	44.6	74.0	-29.4
17333.930	36.6	7.7	72.0	1.0	0.0	0.0	V-Horn	PK	0.0	44.3	74.0	-29.7

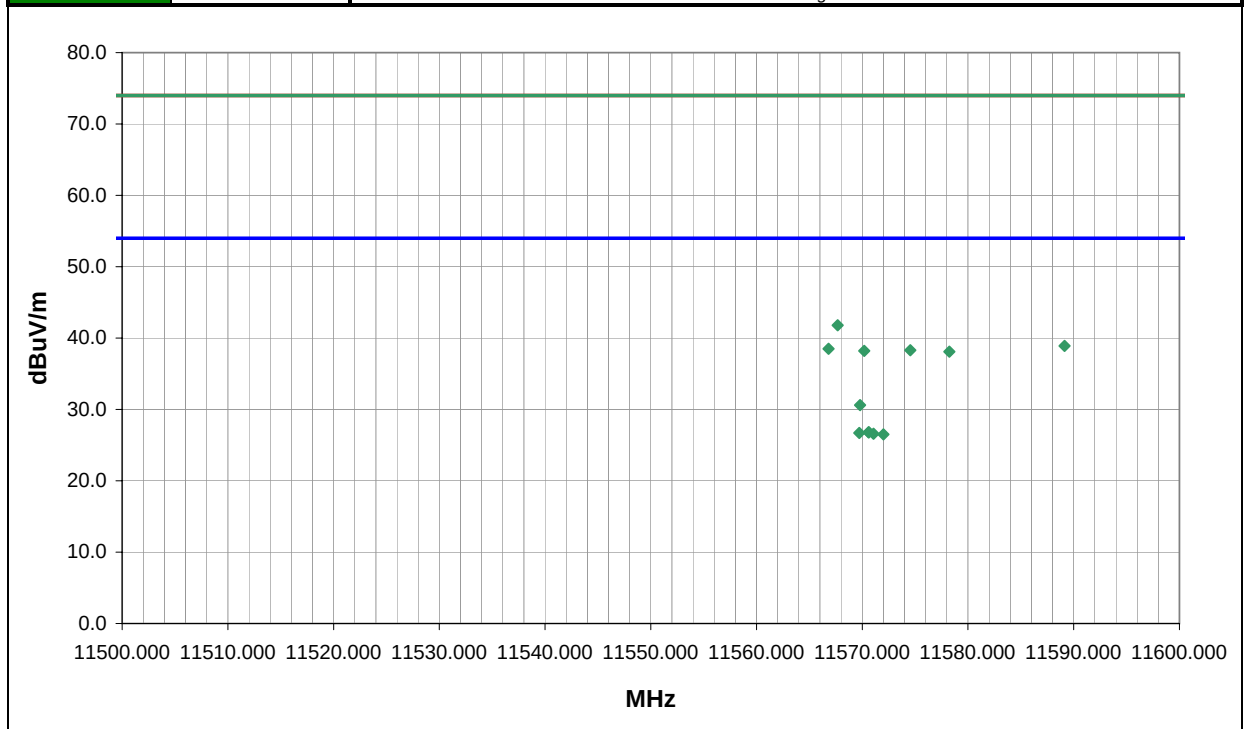
NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/19/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0
COMMENTS			
Directional (Parabolic Dish) Antenna. Hyperlink Model HG5824D. Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	20	 Signature	
Configuration #	1		
Results	Pass		
		NVLAP Lab Code 200629-0	



NORTHWEST		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26								
EMC												
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO		Work Order: HONE0011										
MODULE (FCC ID NKRCM9)												
Serial Number: None		Date: 04/23/07										
Customer: Honeywell		Temperature: 23c										
Attendees: David Shipley		Humidity: 32%										
Project: None		Barometric Pres.: 30.08										
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC10								
TEST SPECIFICATIONS		Test Method										
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074										
TEST PARAMETERS												
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3								
COMMENTS												
Directional (Parabolic Dish) Antenna. Hyperlink Model HG5824D. Mid Channel. Data Rate: 6, 36, 54 Mbps.												
EUT OPERATING MODES												
Transmitting at 5785 MHz												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
Run #	26											
Configuration #	1											
Results	Pass											
NVLAP Lab Code 200629-0												
												
MHz												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4840.176	34.2	10.5	341.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.7	54.0	-9.3
4842.383	34.2	10.5	341.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.7	54.0	-9.3
4840.358	33.7	10.5	341.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8
4778.526	33.9	10.2	342.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.1	54.0	-9.9
4779.379	33.8	10.2	343.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.0	54.0	-10.0
4780.829	33.3	10.2	342.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.5	54.0	-10.5
4779.568	33.2	10.2	342.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.4	54.0	-10.6
4842.408	32.7	10.5	340.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.2	54.0	-10.8
4841.678	32.5	10.5	342.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.0	54.0	-11.0
4842.744	32.3	10.5	342.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.8	54.0	-11.2
4778.072	32.3	10.2	342.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.5	54.0	-11.5
4778.676	32.2	10.2	341.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.4	54.0	-11.6
3856.680	31.2	7.7	268.0	3.6	3.0	0.0	V-Horn	AV	0.0	38.9	54.0	-15.1
3856.649	31.0	7.7	45.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.7	54.0	-15.3
4845.037	47.0	10.5	341.0	1.0	3.0	0.0	V-Horn	PK	0.0	57.5	74.0	-16.5
4845.545	46.0	10.5	341.0	1.0	3.0	0.0	H-Horn	PK	0.0	56.5	74.0	-17.5
4779.723	45.7	10.2	342.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.9	74.0	-18.1
4842.366	45.4	10.5	341.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.9	74.0	-18.1
4779.442	45.5	10.2	342.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.7	74.0	-18.3
4779.857	45.5	10.2	342.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.7	74.0	-18.3

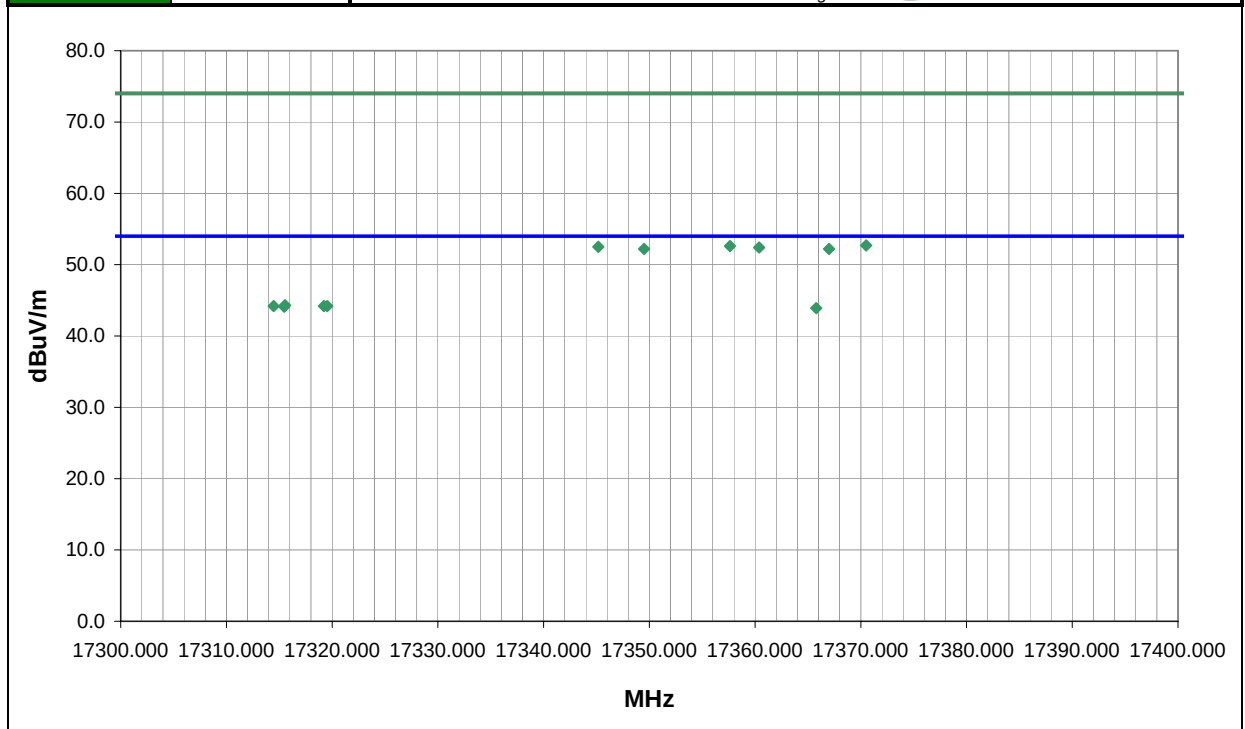
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4841.909	45.2	10.5	340.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.7	74.0	-18.3
4779.604	45.4	10.2	343.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.6	74.0	-18.4
3856.655	27.4	7.7	207.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
4779.704	44.7	10.2	342.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1
4843.827	44.4	10.5	342.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1
4845.558	43.9	10.5	342.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6
3856.701	26.5	7.7	1.0	1.5	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8
4779.513	43.9	10.2	341.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9
3856.610	26.1	7.7	321.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.8	54.0	-20.2
3856.737	24.9	7.7	1.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4
3856.651	39.1	7.7	268.0	3.6	3.0	0.0	V-Horn	PK	0.0	46.8	74.0	-27.2
3856.539	39.0	7.7	45.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3
3856.635	37.1	7.7	207.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2
3856.641	37.1	7.7	1.0	1.5	3.0	0.0	V-Horn	PK	0.0	44.8	74.0	-29.2
3856.409	36.4	7.7	321.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9
3856.799	36.4	7.7	1.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.1	74.0	-29.9

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/20/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0
COMMENTS			
Omni (Dipole) Antenna. Hyperlink Model HG5812U-PRO. Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	21	Signature	
Configuration #	1		
Results	Pass		
NVLAP Lab Code 200629-0			



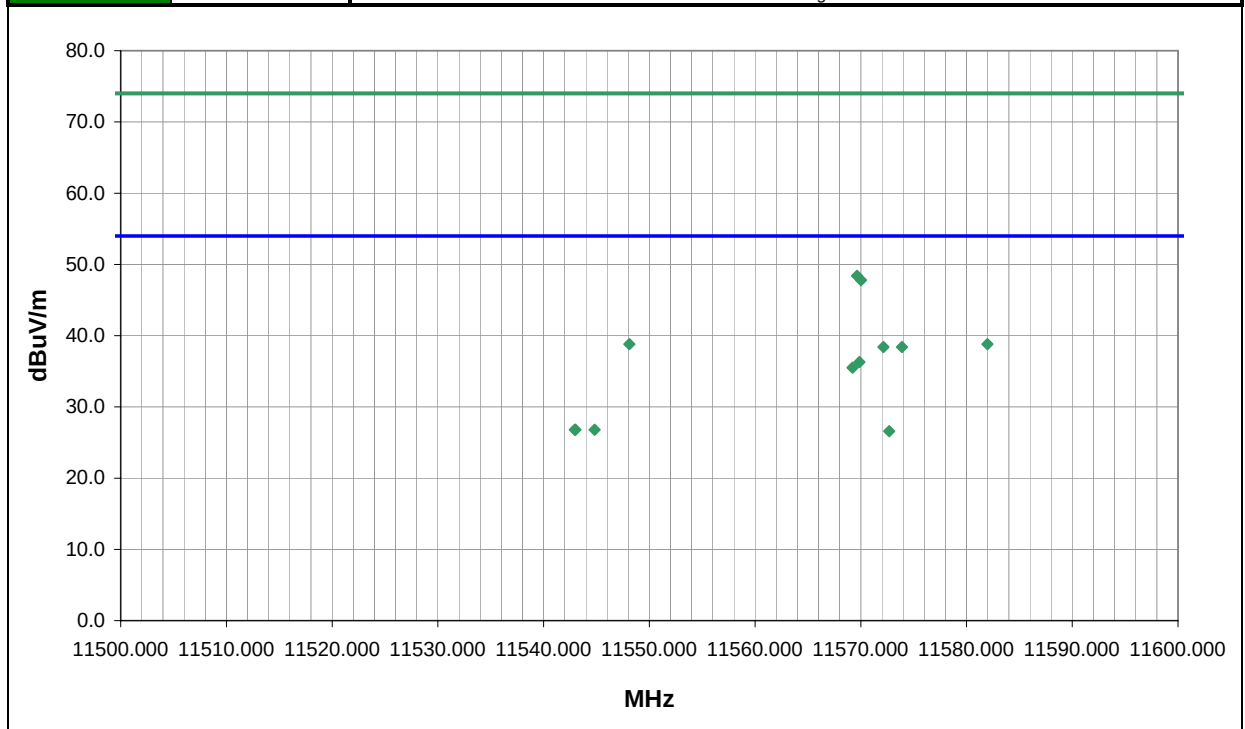
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
11569.790	39.4	-8.8	313.0	1.0	0.0	0.0	H-Horn	AV	0.0	30.6	54.0	-23.4
11570.590	35.6	-8.8	31.0	1.2	0.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2
11570.630	35.6	-8.8	311.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.8	54.0	-27.2
11569.720	35.5	-8.8	336.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.7	54.0	-27.3
11571.060	35.4	-8.8	22.0	1.1	0.0	0.0	V-Horn	AV	0.0	26.6	54.0	-27.4
11572.010	35.3	-8.8	20.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5
11567.680	50.6	-8.8	313.0	1.0	0.0	0.0	H-Horn	PK	0.0	41.8	74.0	-32.2
11589.130	47.7	-8.8	336.0	1.0	0.0	0.0	V-Horn	PK	0.0	38.9	74.0	-35.1
11566.820	47.3	-8.8	31.0	1.2	0.0	0.0	V-Horn	PK	0.0	38.5	74.0	-35.5
11574.540	47.1	-8.8	20.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.3	74.0	-35.7
11570.190	47.0	-8.8	311.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.2	74.0	-35.8
11578.240	46.9	-8.8	22.0	1.1	0.0	0.0	V-Horn	PK	0.0	38.1	74.0	-35.9

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/20/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0
COMMENTS			
Omni (Dipole) Antenna. Hyperlink Model HG5812U-PRO. Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	22	 Signature	
Configuration #	1		
Results	Pass		
		NVLAP Lab Code 200629-0	



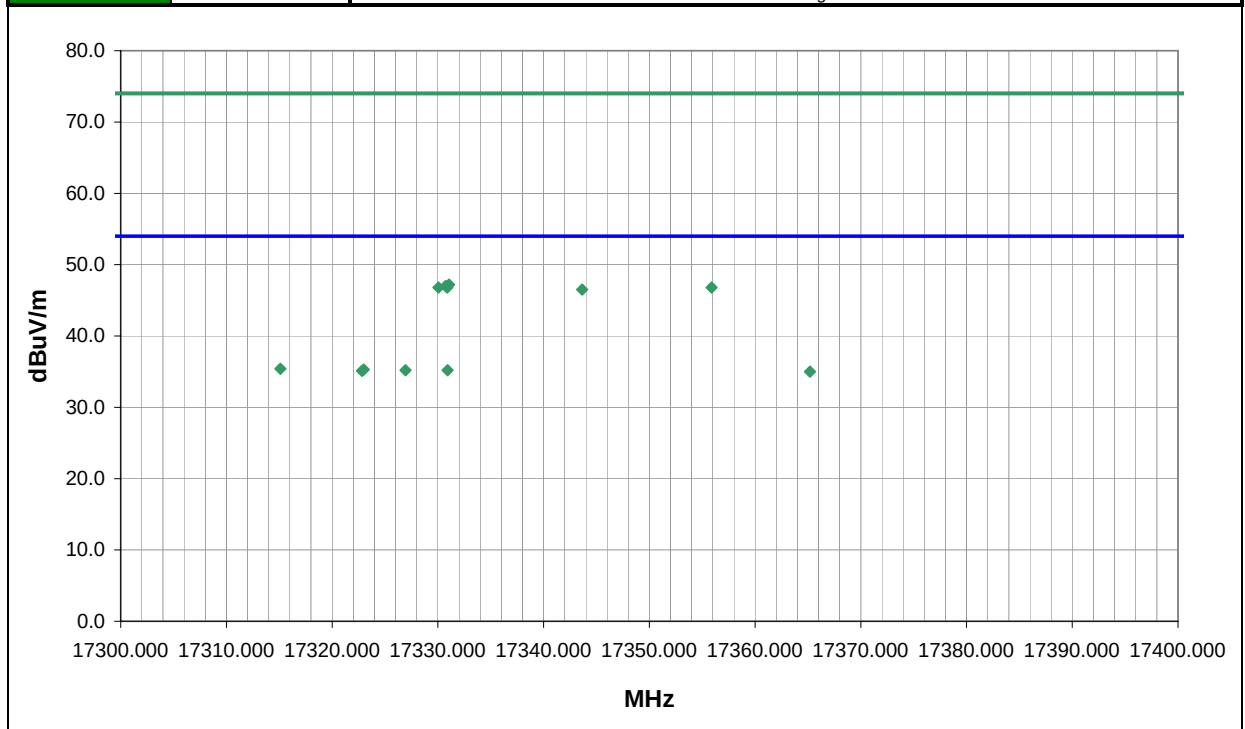
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17315.540	36.6	7.7	177.0	1.0	0.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7
17314.470	36.5	7.7	104.0	1.0	0.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8
17319.220	36.5	7.7	273.0	1.0	0.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8
17319.530	36.5	7.7	308.0	1.2	0.0	0.0	H-Horn	AV	0.0	44.2	54.0	-9.8
17315.470	36.4	7.7	68.0	1.0	0.0	0.0	H-Horn	AV	0.0	44.1	54.0	-9.9
17365.780	36.2	7.7	244.0	1.0	0.0	0.0	H-Horn	AV	0.0	43.9	54.0	-10.1
17370.510	45.0	7.7	177.0	1.0	0.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3
17357.620	44.9	7.7	308.0	1.2	0.0	0.0	H-Horn	PK	0.0	52.6	74.0	-21.4
17345.170	44.8	7.7	104.0	1.0	0.0	0.0	V-Horn	PK	0.0	52.5	74.0	-21.5
17360.380	44.7	7.7	273.0	1.0	0.0	0.0	V-Horn	PK	0.0	52.4	74.0	-21.6
17349.500	44.5	7.7	68.0	1.0	0.0	0.0	H-Horn	PK	0.0	52.2	74.0	-21.8
17366.990	44.5	7.7	244.0	1.0	0.0	0.0	H-Horn	PK	0.0	52.2	74.0	-21.8

NORTHWEST EMC		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)			Work Order: HONE0011	
Serial Number: None			Date: 04/23/07	
Customer: Honeywell			Temperature: 23c	
Attendees: David Shipley			Humidity: 32%	
Project: None			Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10	
TEST SPECIFICATIONS			Test Method	
FCC 15.247 (DTS):2006			ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS				
Antenna Height(s) (m)		1 - 4	Test Distance (m)	0
COMMENTS				
Omni (Dipole) Antenna. Smartant Model SAA04-220080. Mid Channel. Data Rate: 6, 36, 54 Mbps.				
EUT OPERATING MODES				
Transmitting at 5785MHz				
DEVIATIONS FROM TEST STANDARD				
No deviations.				
Run #	23		 Signature	
Configuration #	1			
Results	Pass			
NVLAP Lab Code 200629-0				

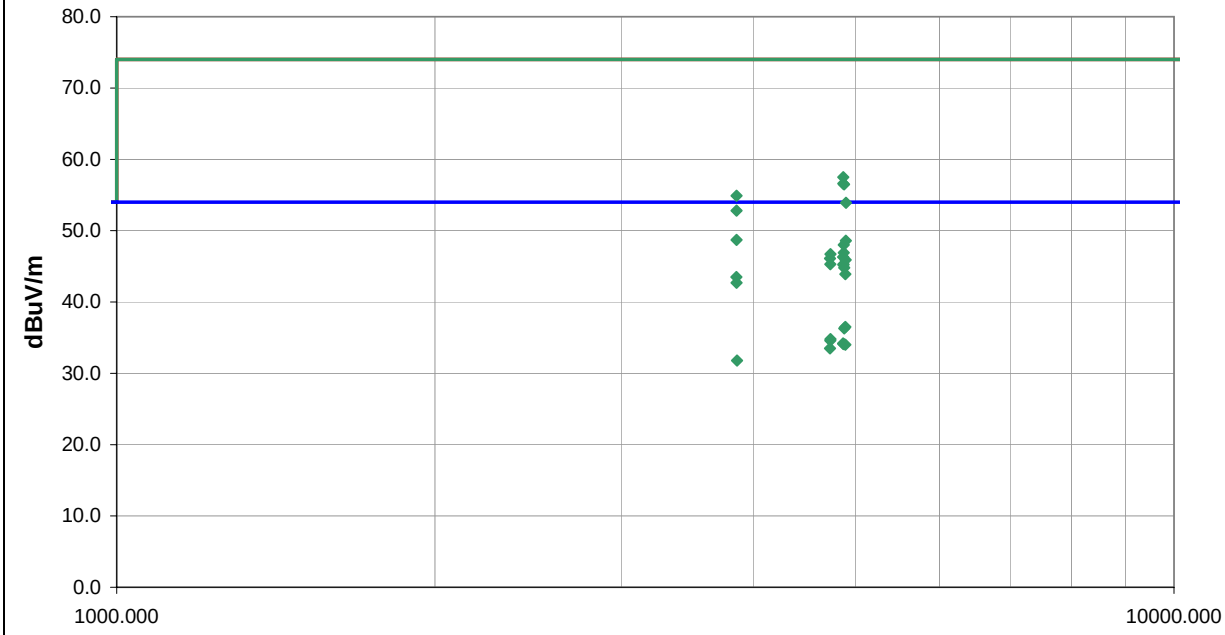


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
11569.870	45.1	-8.8	308.0	1.0	0.0	0.0	H-Horn	AV	0.0	36.3	54.0	-17.7
11569.220	44.3	-8.8	306.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5
11569.640	57.2	-8.8	306.0	1.0	0.0	0.0	V-Horn	PK	0.0	48.4	74.0	-25.6
11570.020	56.6	-8.8	308.0	1.0	0.0	0.0	H-Horn	PK	0.0	47.8	74.0	-26.2
11542.950	35.6	-8.8	340.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2
11543.010	35.6	-8.8	34.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2
11544.820	35.6	-8.8	191.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.8	54.0	-27.2
11572.680	35.4	-8.8	250.0	1.9	0.0	0.0	H-Horn	AV	0.0	26.6	54.0	-27.4
11548.110	47.6	-8.8	340.0	1.0	0.0	0.0	V-Horn	PK	0.0	38.8	74.0	-35.2
11581.970	47.6	-8.8	191.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.8	74.0	-35.2
11572.140	47.2	-8.8	250.0	1.9	0.0	0.0	H-Horn	PK	0.0	38.4	74.0	-35.6
11573.890	47.2	-8.8	34.0	1.0	0.0	0.0	V-Horn	PK	0.0	38.4	74.0	-35.6

NORTHWEST EMC		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)			Work Order: HONE0011		
Serial Number: None			Date: 04/23/07		
Customer: Honeywell			Temperature: 23c		
Attendees: David Shipley			Humidity: 32%		
Project: None			Barometric Pres.: 30.08		
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC10	
TEST SPECIFICATIONS			Test Method		
FCC 15.247 (DTS):2006			ANSI C63.4:2003 KDB No. 558074		
TEST PARAMETERS					
Antenna Height(s) (m)		1 - 4		Test Distance (m) 0	
COMMENTS					
Omni (Dipole) Antenna. Smartant Model SAA04-220080. Mid Channel. Data Rate: 6, 36, 54 Mbps.					
EUT OPERATING MODES					
Transmitting at 5785 MHz					
DEVIATIONS FROM TEST STANDARD					
No deviations.					
Run #	24		<i>Jaemi Suh</i> Signature		
Configuration #	1				
Results	Pass				
NVLAP Lab Code 200629-0					



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17315.110	27.7	7.7	52.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.4	54.0	-18.6
17322.980	27.6	7.7	273.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7
17326.940	27.5	7.7	12.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
17330.910	27.5	7.7	290.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.2	54.0	-18.8
17322.820	27.4	7.7	12.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
17365.190	27.3	7.7	306.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0
17331.060	39.5	7.7	306.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8
17330.740	39.3	7.7	12.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.0	74.0	-27.0
17330.050	39.1	7.7	273.0	1.0	0.0	0.0	V-Horn	PK	0.0	46.8	74.0	-27.2
17330.890	39.1	7.7	52.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2
17355.890	39.1	7.7	12.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2
17343.640	38.8	7.7	290.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5

NORTHWEST		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26																																																																																																																																																																																																																																																																																		
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<table border="1"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> </tr> </thead> <tbody> <tr><td>3856.693</td><td>45.1</td><td>7.7</td><td>13.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>52.8</td><td>54.0</td><td>-1.2</td></tr> <tr><td>4868.004</td><td>34.7</td><td>10.6</td><td>60.0</td><td>1.7</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>45.3</td><td>54.0</td><td>-8.7</td></tr> <tr><td>4867.740</td><td>34.6</td><td>10.6</td><td>257.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>45.2</td><td>54.0</td><td>-8.8</td></tr> <tr><td>4876.186</td><td>34.2</td><td>10.6</td><td>265.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>44.8</td><td>54.0</td><td>-9.2</td></tr> <tr><td>4887.742</td><td>33.3</td><td>10.6</td><td>267.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>43.9</td><td>54.0</td><td>-10.1</td></tr> <tr><td>3856.689</td><td>35.0</td><td>7.7</td><td>300.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>42.7</td><td>54.0</td><td>-11.3</td></tr> <tr><td>4866.522</td><td>46.9</td><td>10.6</td><td>60.0</td><td>1.7</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>57.5</td><td>74.0</td><td>-16.5</td></tr> <tr><td>4866.397</td><td>46.0</td><td>10.6</td><td>257.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>56.6</td><td>74.0</td><td>-17.4</td></tr> <tr><td>4888.618</td><td>25.9</td><td>10.6</td><td>210.0</td><td>1.6</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>36.5</td><td>54.0</td><td>-17.5</td></tr> <tr><td>4874.290</td><td>45.9</td><td>10.6</td><td>265.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>56.5</td><td>74.0</td><td>-17.5</td></tr> <tr><td>4875.967</td><td>25.7</td><td>10.6</td><td>209.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>36.3</td><td>54.0</td><td>-17.7</td></tr> <tr><td>3856.655</td><td>47.2</td><td>7.7</td><td>13.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>54.9</td><td>74.0</td><td>-19.1</td></tr> <tr><td>4732.454</td><td>24.8</td><td>10.0</td><td>21.0</td><td>1.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>34.8</td><td>54.0</td><td>-19.2</td></tr> <tr><td>4731.014</td><td>24.5</td><td>10.1</td><td>213.0</td><td>1.7</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>34.6</td><td>54.0</td><td>-19.4</td></tr> <tr><td>4863.751</td><td>23.6</td><td>10.6</td><td>140.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>34.2</td><td>54.0</td><td>-19.8</td></tr> <tr><td>4867.669</td><td>23.5</td><td>10.6</td><td>196.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>34.1</td><td>54.0</td><td>-19.9</td></tr> <tr><td>4888.289</td><td>23.4</td><td>10.6</td><td>299.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>34.0</td><td>54.0</td><td>-20.0</td></tr> <tr><td>4894.844</td><td>43.3</td><td>10.6</td><td>267.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>53.9</td><td>74.0</td><td>-20.1</td></tr> <tr><td>4727.136</td><td>23.4</td><td>10.1</td><td>113.0</td><td>1.7</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>33.5</td><td>54.0</td><td>-20.5</td></tr> <tr><td>3860.721</td><td>24.1</td><td>7.7</td><td>158.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>31.8</td><td>54.0</td><td>-22.2</td></tr> </tbody> </table>						Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	3856.693	45.1	7.7	13.0	1.2	3.0	0.0	H-Horn	AV	0.0	52.8	54.0	-1.2	4868.004	34.7	10.6	60.0	1.7	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7	4867.740	34.6	10.6	257.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8	4876.186	34.2	10.6	265.0	1.4	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2	4887.742	33.3	10.6	267.0	1.4	3.0	0.0	H-Horn	AV	0.0	43.9	54.0	-10.1	3856.689	35.0	7.7	300.0	1.5	3.0	0.0	H-Horn	AV	0.0	42.7	54.0	-11.3	4866.522	46.9	10.6	60.0	1.7	3.0	0.0	V-Horn	PK	0.0	57.5	74.0	-16.5	4866.397	46.0	10.6	257.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.6	74.0	-17.4	4888.618	25.9	10.6	210.0	1.6	3.0	0.0	H-Horn	AV	0.0	36.5	54.0	-17.5	4874.290	45.9	10.6	265.0	1.4	3.0	0.0	H-Horn	PK	0.0	56.5	74.0	-17.5	4875.967	25.7	10.6	209.0	1.5	3.0	0.0	H-Horn	AV	0.0	36.3	54.0	-17.7	3856.655	47.2	7.7	13.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1	4732.454	24.8	10.0	21.0	1.9	3.0	0.0	V-Horn	AV	0.0	34.8	54.0	-19.2	4731.014	24.5	10.1	213.0	1.7	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4	4863.751	23.6	10.6	140.0	1.2	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8	4867.669	23.5	10.6	196.0	1.5	3.0	0.0	H-Horn	AV	0.0	34.1	54.0	-19.9	4888.289	23.4	10.6	299.0	1.5	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	4894.844	43.3	10.6	267.0	1.4	3.0	0.0	H-Horn	PK	0.0	53.9	74.0	-20.1	4727.136	23.4	10.1	113.0	1.7	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	3860.721	24.1	7.7	158.0	1.2	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)																																																																																																																																																																																																																																																																										
3856.693	45.1	7.7	13.0	1.2	3.0	0.0	H-Horn	AV	0.0	52.8	54.0	-1.2																																																																																																																																																																																																																																																																										
4868.004	34.7	10.6	60.0	1.7	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7																																																																																																																																																																																																																																																																										
4867.740	34.6	10.6	257.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8																																																																																																																																																																																																																																																																										
4876.186	34.2	10.6	265.0	1.4	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2																																																																																																																																																																																																																																																																										
4887.742	33.3	10.6	267.0	1.4	3.0	0.0	H-Horn	AV	0.0	43.9	54.0	-10.1																																																																																																																																																																																																																																																																										
3856.689	35.0	7.7	300.0	1.5	3.0	0.0	H-Horn	AV	0.0	42.7	54.0	-11.3																																																																																																																																																																																																																																																																										
4866.522	46.9	10.6	60.0	1.7	3.0	0.0	V-Horn	PK	0.0	57.5	74.0	-16.5																																																																																																																																																																																																																																																																										
4866.397	46.0	10.6	257.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.6	74.0	-17.4																																																																																																																																																																																																																																																																										
4888.618	25.9	10.6	210.0	1.6	3.0	0.0	H-Horn	AV	0.0	36.5	54.0	-17.5																																																																																																																																																																																																																																																																										
4874.290	45.9	10.6	265.0	1.4	3.0	0.0	H-Horn	PK	0.0	56.5	74.0	-17.5																																																																																																																																																																																																																																																																										
4875.967	25.7	10.6	209.0	1.5	3.0	0.0	H-Horn	AV	0.0	36.3	54.0	-17.7																																																																																																																																																																																																																																																																										
3856.655	47.2	7.7	13.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1																																																																																																																																																																																																																																																																										
4732.454	24.8	10.0	21.0	1.9	3.0	0.0	V-Horn	AV	0.0	34.8	54.0	-19.2																																																																																																																																																																																																																																																																										
4731.014	24.5	10.1	213.0	1.7	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4																																																																																																																																																																																																																																																																										
4863.751	23.6	10.6	140.0	1.2	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8																																																																																																																																																																																																																																																																										
4867.669	23.5	10.6	196.0	1.5	3.0	0.0	H-Horn	AV	0.0	34.1	54.0	-19.9																																																																																																																																																																																																																																																																										
4888.289	23.4	10.6	299.0	1.5	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0																																																																																																																																																																																																																																																																										
4894.844	43.3	10.6	267.0	1.4	3.0	0.0	H-Horn	PK	0.0	53.9	74.0	-20.1																																																																																																																																																																																																																																																																										
4727.136	23.4	10.1	113.0	1.7	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5																																																																																																																																																																																																																																																																										
3860.721	24.1	7.7	158.0	1.2	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2																																																																																																																																																																																																																																																																										

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
3856.691	41.0	7.7	300.0	1.5	3.0	0.0	H-Horn	PK	0.0	48.7	74.0	-25.3
4894.310	38.0	10.6	210.0	1.6	3.0	0.0	H-Horn	PK	0.0	48.6	74.0	-25.4
4872.212	37.4	10.6	209.0	1.5	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0
4870.549	36.3	10.6	196.0	1.5	3.0	0.0	H-Horn	PK	0.0	46.9	74.0	-27.1
4732.011	36.6	10.1	213.0	1.7	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3
4863.940	35.7	10.6	140.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.3	74.0	-27.7
4727.291	36.0	10.1	21.0	1.9	3.0	0.0	V-Horn	PK	0.0	46.1	74.0	-27.9
4892.400	35.3	10.6	299.0	1.5	3.0	0.0	H-Horn	PK	0.0	45.9	74.0	-28.1
4730.316	35.2	10.1	113.0	1.7	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7
3855.549	35.8	7.7	158.0	1.2	3.0	0.0	H-Horn	PK	0.0	43.5	74.0	-30.5

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/24/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	
		Job Site: OC10	
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
Sector Antenna. Hyperlink Model HG5817P-090 . Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	28	<i>Jaemi Suh</i> Signature	
Configuration #	1		
Results	Pass		
NVLAP Lab Code 200629-0			

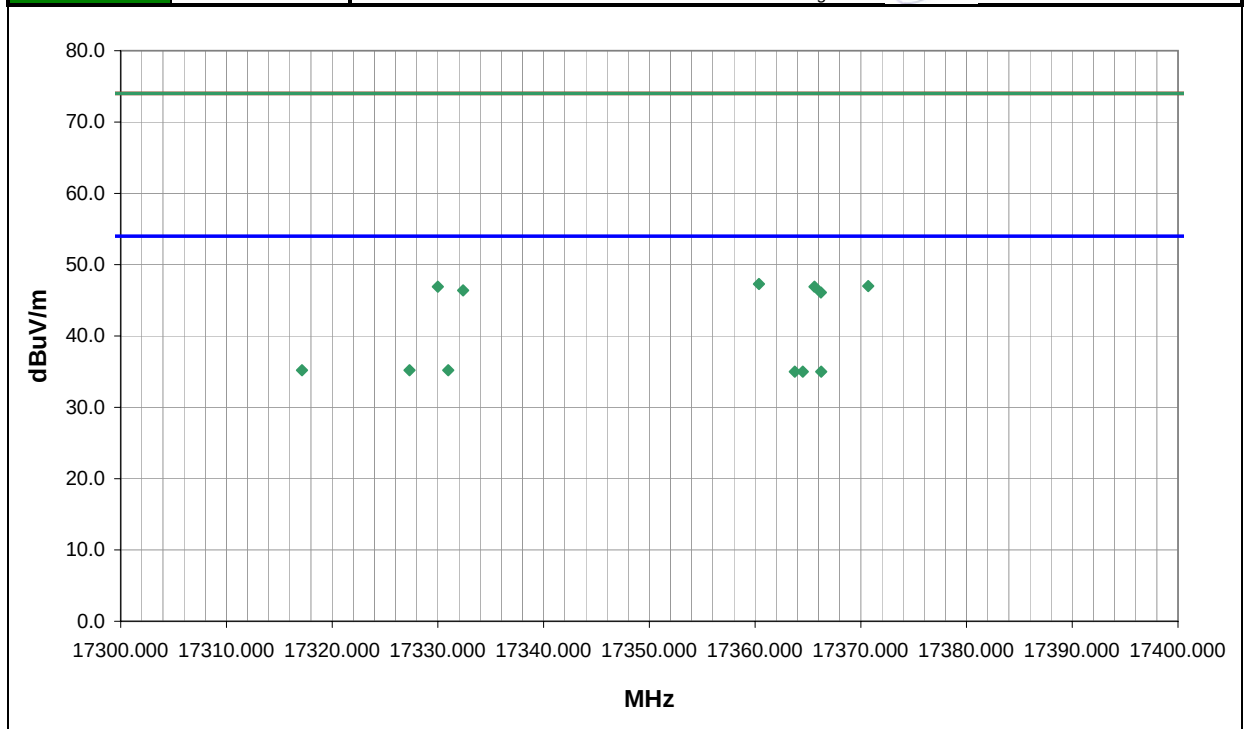
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
3856.693	44.7	7.7	171.0	1.1	3.0	0.0	V-Horn	AV	0.0	52.4	54.0	-1.6
4840.187	38.0	10.5	158.0	1.5	3.0	0.0	V-Horn	AV	0.0	48.5	54.0	-5.5
4842.736	38.0	10.5	155.0	1.4	3.0	0.0	V-Horn	AV	0.0	48.5	54.0	-5.5
3856.696	40.5	7.7	144.0	1.5	3.0	0.0	V-Horn	AV	0.0	48.2	54.0	-5.8
3856.678	39.9	7.7	131.0	1.2	3.0	0.0	V-Horn	AV	0.0	47.6	54.0	-6.4
5381.622	35.0	12.1	127.0	1.7	3.0	0.0	V-Horn	AV	0.0	47.1	54.0	-6.9
4912.073	36.0	10.7	161.0	1.5	3.0	0.0	V-Horn	AV	0.0	46.7	54.0	-7.3
5381.275	34.0	12.1	166.0	1.6	3.0	0.0	V-Horn	AV	0.0	46.1	54.0	-7.9
5380.752	33.8	12.1	165.0	1.7	3.0	0.0	V-Horn	AV	0.0	45.9	54.0	-8.1
4910.681	34.9	10.7	153.0	1.5	3.0	0.0	V-Horn	AV	0.0	45.6	54.0	-8.4
4788.511	34.1	10.3	212.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.4	54.0	-9.6
5029.952	32.6	11.1	148.0	1.5	3.0	0.0	V-Horn	AV	0.0	43.7	54.0	-10.3
4845.120	33.1	10.5	241.0	1.5	3.0	0.0	V-Horn	AV	0.0	43.6	54.0	-10.4
5033.556	31.6	11.2	111.0	1.6	3.0	0.0	V-Horn	AV	0.0	42.8	54.0	-11.2
5027.291	31.1	11.1	157.0	1.4	3.0	0.0	V-Horn	AV	0.0	42.2	54.0	-11.8
4848.461	30.3	10.5	229.0	1.2	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2
4789.886	30.4	10.3	184.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3
4908.035	29.3	10.7	204.0	1.7	3.0	0.0	V-Horn	AV	0.0	40.0	54.0	-14.0
5382.786	47.9	12.1	127.0	1.7	3.0	0.0	V-Horn	PK	0.0	60.0	74.0	-14.0
4842.426	49.4	10.5	155.0	1.4	3.0	0.0	V-Horn	PK	0.0	59.9	74.0	-14.1

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4842.325	49.3	10.5	158.0	1.5	3.0	0.0	V-Horn	PK	0.0	59.8	74.0	-14.2
5382.325	46.5	12.1	166.0	1.6	3.0	0.0	V-Horn	PK	0.0	58.6	74.0	-15.4
4844.132	27.9	10.5	173.0	1.2	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6
4910.783	47.5	10.7	161.0	1.5	3.0	0.0	V-Horn	PK	0.0	58.2	74.0	-15.8
5380.377	45.7	12.1	165.0	1.7	3.0	0.0	V-Horn	PK	0.0	57.8	74.0	-16.2
4910.688	46.5	10.7	153.0	1.5	3.0	0.0	V-Horn	PK	0.0	57.2	74.0	-16.8
4912.917	25.9	10.7	196.0	1.2	3.0	0.0	H-Horn	AV	0.0	36.6	54.0	-17.4
4789.984	45.8	10.3	212.0	1.0	3.0	0.0	H-Horn	PK	0.0	56.1	74.0	-17.9
5029.584	44.8	11.1	148.0	1.5	3.0	0.0	V-Horn	PK	0.0	55.9	74.0	-18.1
4912.549	24.3	10.7	0.0	1.5	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
3856.701	47.2	7.7	171.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1
4912.047	23.6	10.7	127.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7
4845.926	23.7	10.5	253.0	1.1	3.0	0.0	H-Horn	AV	0.0	34.2	54.0	-19.8
5033.301	43.1	11.1	111.0	1.6	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8
5029.117	42.8	11.1	157.0	1.4	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1
4846.580	43.1	10.5	241.0	1.5	3.0	0.0	V-Horn	PK	0.0	53.6	74.0	-20.4
4842.290	42.6	10.5	229.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.1	74.0	-20.9
4789.018	42.6	10.3	184.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.9	74.0	-21.1
3856.725	44.0	7.7	131.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3
3856.639	43.7	7.7	144.0	1.5	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6
4912.358	40.0	10.7	204.0	1.7	3.0	0.0	V-Horn	PK	0.0	50.7	74.0	-23.3
4842.801	39.6	10.5	173.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.1	74.0	-23.9
4793.271	19.5	10.3	77.0	1.0	3.0	0.0	H-Horn	AV	0.0	29.8	54.0	-24.2
4910.420	37.7	10.7	196.0	1.2	3.0	0.0	H-Horn	PK	0.0	48.4	74.0	-25.6
4915.000	36.3	10.7	0.0	1.5	3.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0
4911.456	36.0	10.7	127.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3
4843.805	35.5	10.5	253.0	1.1	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0
4788.936	32.2	10.3	77.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.5	74.0	-31.5

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/24/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
Sector Antenna. Hyperlink Model HG5817P-090 . Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	29	 Signature	
Configuration #	1		
Results	Pass		
		NVLAP Lab Code 200629-0	

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
11569.650	45.4	-8.8	165.0	1.7	3.0	0.0	V-Horn	AV	0.0	36.6	54.0	-17.4
11570.070	40.0	-8.8	101.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8
11572.320	60.0	-8.8	165.0	1.7	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8
11571.390	55.3	-8.8	101.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5
11570.680	35.2	-8.8	113.0	1.7	3.0	0.0	V-Horn	AV	0.0	26.4	54.0	-27.6
11572.110	35.0	-8.8	47.0	1.3	3.0	0.0	H-Horn	AV	0.0	26.2	54.0	-27.8
11569.300	34.9	-8.8	353.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.1	54.0	-27.9
11570.130	34.8	-8.8	300.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.0	54.0	-28.0
11566.580	47.5	-8.8	113.0	1.7	3.0	0.0	V-Horn	PK	0.0	38.7	74.0	-35.3
11568.760	47.2	-8.8	47.0	1.3	3.0	0.0	H-Horn	PK	0.0	38.4	74.0	-35.6
11575.390	46.7	-8.8	353.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.9	74.0	-36.1
11574.750	46.3	-8.8	300.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/24/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0
COMMENTS			
Sector Antenna. Hyperlink Model HG5817P-090 . Mid Channel. Data Rate: 6, 36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5785 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	30	Signature	
Configuration #	1		
Results	Pass		
		NVLAP Lab Code 200629-0	

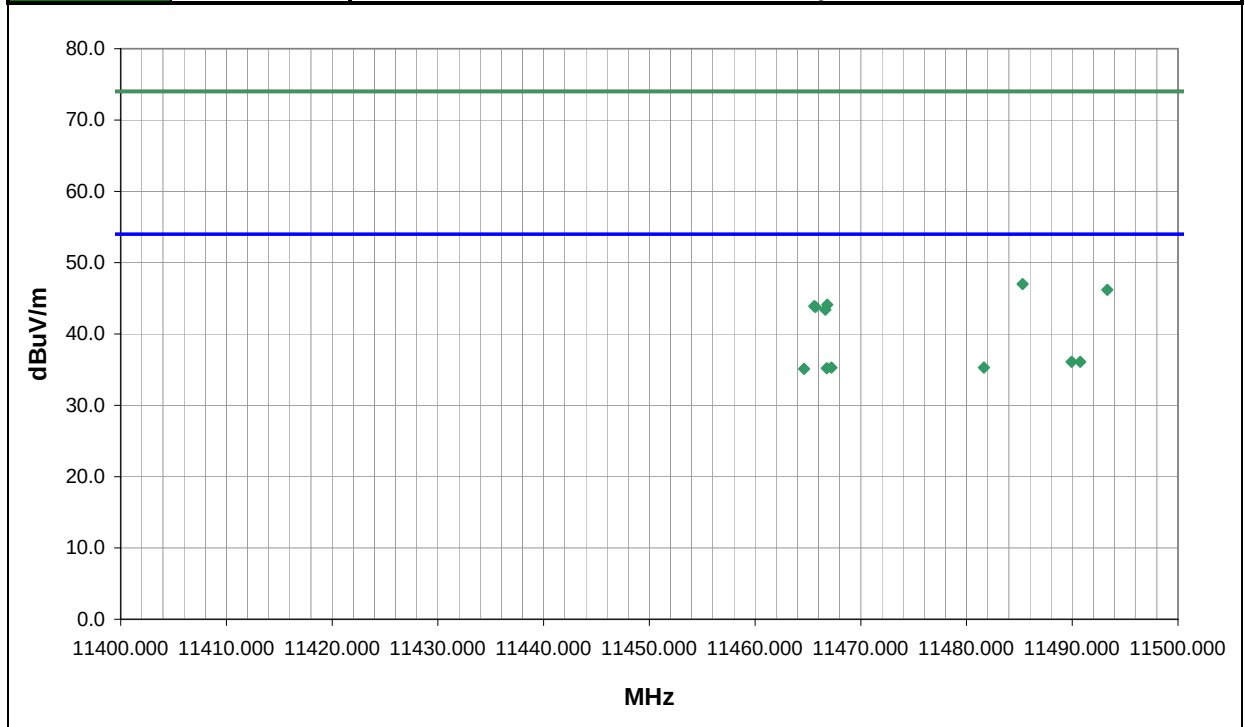


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17317.150	27.5	7.7	350.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.2	54.0	-18.8
17327.320	27.5	7.7	11.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
17330.980	27.5	7.7	247.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
17363.750	27.3	7.7	33.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
17364.510	27.3	7.7	125.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
17366.260	27.3	7.7	266.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0
17360.370	39.6	7.7	266.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.3	74.0	-26.7
17370.700	39.3	7.7	33.0	1.0	0.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0
17330.000	39.2	7.7	125.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.9	74.0	-27.1
17365.610	39.2	7.7	11.0	1.0	0.0	0.0	V-Horn	PK	0.0	46.9	74.0	-27.1
17332.390	38.7	7.7	247.0	1.0	0.0	0.0	V-Horn	PK	0.0	46.4	74.0	-27.6
17366.220	38.4	7.7	350.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.1	74.0	-27.9

NORTHWEST EMC		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)				Work Order: HONE0011	
Serial Number: None				Date: 04/25/07	
Customer: Honeywell				Temperature: 23c	
Attendees: David Shipley				Humidity: 32%	
Project: None				Barometric Pres.: 30.08	
Tested by: Jaemi Suh			Power: 120VAC/60Hz	Job Site: OC10	
TEST SPECIFICATIONS			Test Method		
FCC 15.247 (DTS):2006			ANSI C63.4:2003 KDB No. 558074		
TEST PARAMETERS					
Antenna Height(s) (m)		1 - 4		Test Distance (m)	3
COMMENTS					
Yagi Antenna. Telex Model 5816AB. Low Channel. Data Rate: 6,36, 54 Mbps.					
EUT OPERATING MODES					
Transmitting at 5745 MHz					
DEVIATIONS FROM TEST STANDARD					
No deviations.					
Run #	31		Signature		
Configuration #	1				
Results	Pass				
dBuV/m 10000.000 MHz					

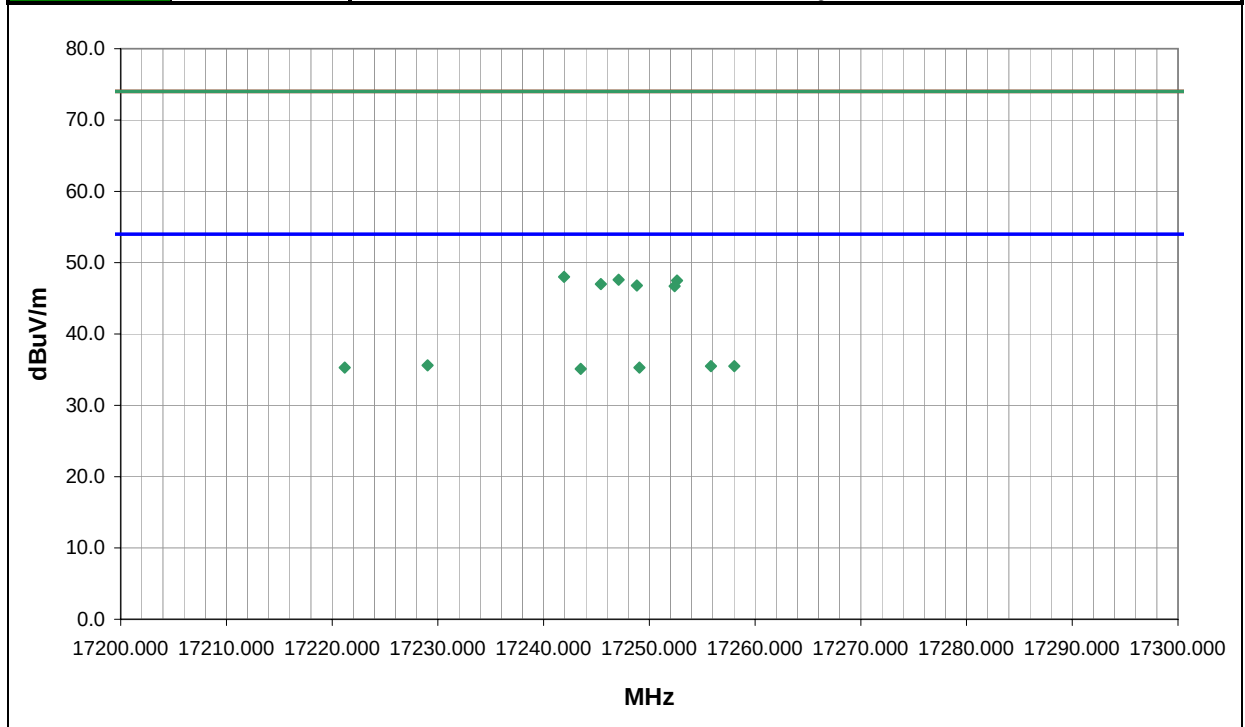
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4809.693	45.7	10.3	282.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.0	74.0	-18.0
4756.879	25.2	10.1	253.0	1.6	3.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7
4752.964	25.1	10.1	204.0	1.7	3.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
3830.054	47.2	7.6	326.0	1.1	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2
4871.326	23.8	10.6	257.0	1.1	3.0	0.0	V-Horn	AV	0.0	34.4	54.0	-19.6
4751.384	44.0	10.1	287.0	1.7	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9
4871.720	43.4	10.6	321.0	1.2	3.0	0.0	V-Horn	PK	0.0	54.0	74.0	-20.0
4754.627	42.9	10.1	160.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.0	74.0	-21.0
4867.336	41.6	10.6	252.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8
4755.292	41.4	10.1	336.0	1.1	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5
4808.627	40.4	10.3	255.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.7	74.0	-23.3
4811.579	38.8	10.3	253.0	1.1	3.0	0.0	V-Horn	PK	0.0	49.1	74.0	-24.9
3829.989	40.4	7.6	354.0	1.2	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0
4753.084	37.1	10.1	253.0	1.6	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8
4869.742	36.1	10.6	257.0	1.1	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3
4754.356	36.4	10.1	204.0	1.7	3.0	0.0	V-Horn	PK	0.0	46.5	74.0	-27.5

NORTHWEST EMC		Spurious Radiated Emissions		PSA 2007.01.31 EMI 2006.4.26	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)			Work Order: HONE0011		
Serial Number: None			Date: 04/25/07		
Customer: Honeywell			Temperature: 23c		
Attendees: David Shipley			Humidity: 32%		
Project: None			Barometric Pres.: 30.08		
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC10	
TEST SPECIFICATIONS			Test Method		
FCC 15.247 (DTS):2006			ANSI C63.4:2003 KDB No. 558074		
TEST PARAMETERS					
Antenna Height(s) (m)		1 - 4		Test Distance (m) 3	
COMMENTS					
Yagi Antenna. Telex Model 5816AB. Low Channel. Data Rate: 6,36, 54 Mbps.					
EUT OPERATING MODES					
Transmitting at 5745 MHz					
DEVIATIONS FROM TEST STANDARD					
No deviations.					
Run #	32		<i>Jaemi Suh</i> Signature		
Configuration #	1				
Results	Pass				
NVLAP Lab Code 200629-0					

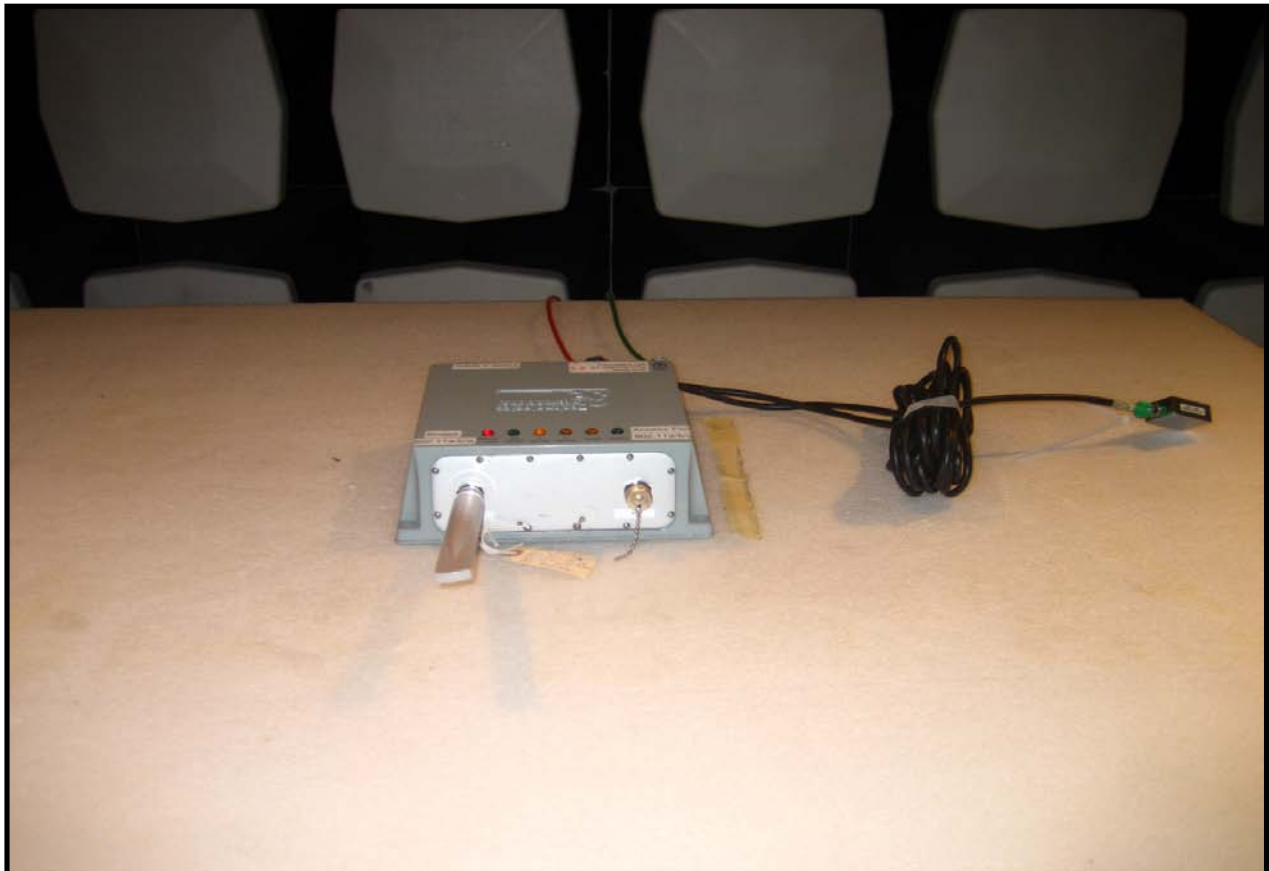
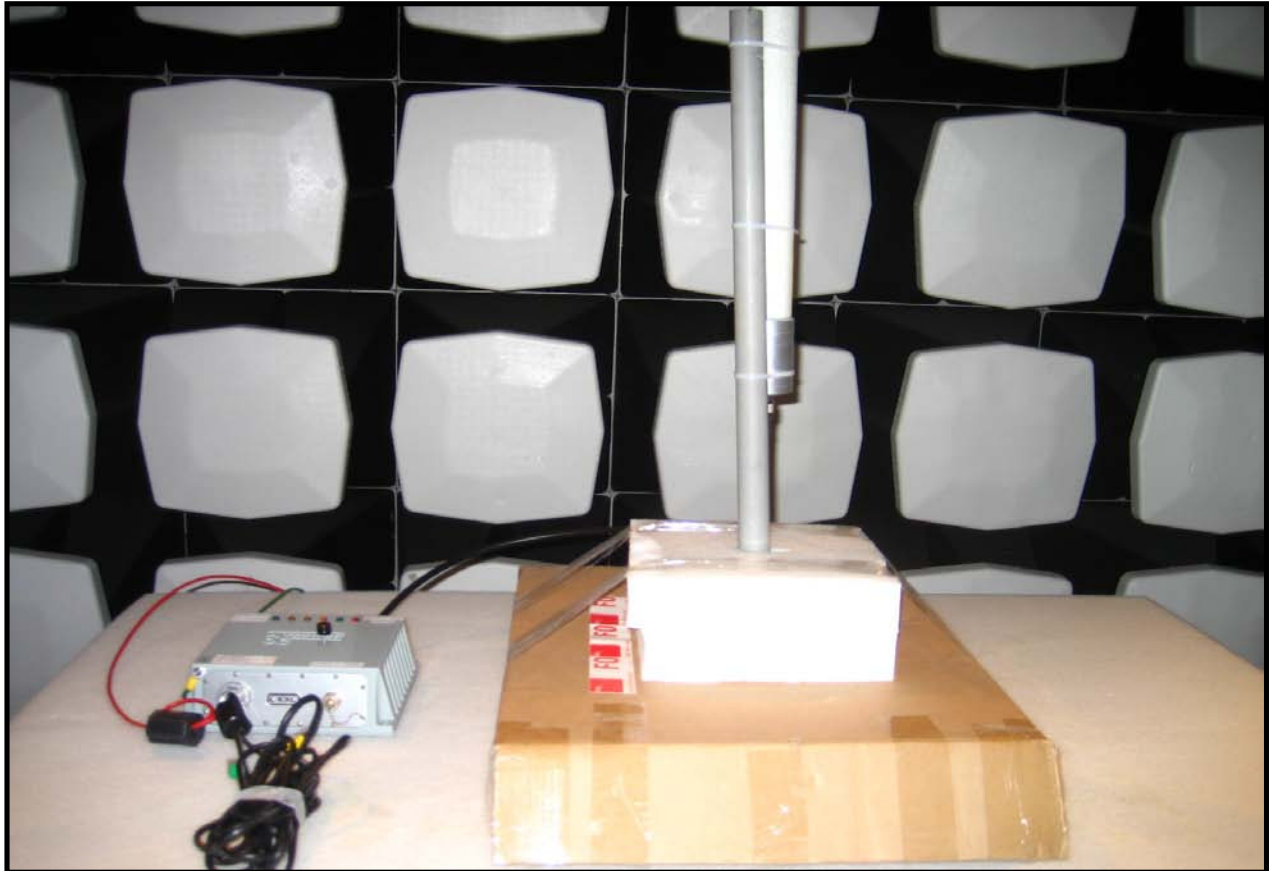


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
11489.940	44.9	-8.8	159.0	1.0	0.0	0.0	H-Horn	AV	0.0	36.1	54.0	-17.9
11490.760	44.9	-8.8	213.0	1.0	0.0	0.0	V-Horn	AV	0.0	36.1	54.0	-17.9
11467.220	44.1	-8.8	177.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.3	54.0	-18.7
11481.640	44.1	-8.8	238.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7
11466.780	44.0	-8.8	233.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8
11464.640	43.9	-8.8	7.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
11485.300	55.8	-8.8	159.0	1.0	0.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0
11493.310	55.0	-8.8	213.0	1.0	0.0	0.0	V-Horn	PK	0.0	46.2	74.0	-27.8
11466.830	52.9	-8.8	177.0	1.0	0.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9
11465.600	52.7	-8.8	238.0	1.0	0.0	0.0	V-Horn	PK	0.0	43.9	74.0	-30.1
11465.710	52.6	-8.8	7.0	1.0	0.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2
11466.640	52.2	-8.8	233.0	1.0	0.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6

NORTHWEST		PSA 2007.01.31 EMI 2006.4.26	
EMC		Spurious Radiated Emissions	
EUT: 51153884-100, REVISION B, MULTINODE ASSEMBLY w/WISTRON CM9 RADIO MODULE (FCC ID NKRCM9)		Work Order: HONE0011	
Serial Number: None		Date: 04/25/07	
Customer: Honeywell		Temperature: 23c	
Attendees: David Shipley		Humidity: 32%	
Project: None		Barometric Pres.: 30.08	
Tested by: Jaemi Suh		Power: 120VAC/60Hz	Job Site: OC10
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2006		ANSI C63.4:2003 KDB No. 558074	
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
COMMENTS			
Yagi Antenna. Telex Model 5816AB. Low Channel. Data Rate: 6,36, 54 Mbps.			
EUT OPERATING MODES			
Transmitting at 5745 MHz			
DEVIATIONS FROM TEST STANDARD			
No deviations.			
Run #	33	 Signature	
Configuration #	1		
Results	Pass		
		NVLAP Lab Code 200629-0	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17229.030	27.9	7.7	133.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.6	54.0	-18.4
17255.830	27.7	7.8	316.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.5	54.0	-18.5
17258.030	27.7	7.8	274.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5
17221.190	27.6	7.7	143.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.3	54.0	-18.7
17249.060	27.6	7.7	316.0	1.0	0.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7
17243.510	27.4	7.7	269.0	1.0	0.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9
17241.930	40.3	7.7	133.0	1.0	0.0	0.0	V-Horn	PK	0.0	48.0	74.0	-26.0
17247.090	39.9	7.7	316.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.6	74.0	-26.4
17252.620	39.8	7.7	274.0	1.0	0.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5
17245.410	39.3	7.7	143.0	1.0	0.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0
17248.820	39.1	7.7	269.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2
17252.390	39.0	7.7	316.0	1.0	0.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3



Spurious Radiated Emissions

