Intermec Technologies Corporation

Galileo Modular Radio (TI) Model RC11

Report No. INMC0549.1

Report Prepared By

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

EMC Test Report

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: August 11, 2009
Intermec Technologies Corporation
Model: Galileo modular radio (TI)

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Spurious Radiated Emissions	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**
Occupied Bandwidth	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**
Output Power	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**
Power Spectral Density	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**
Band Edge Compliance	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2009	ANSI C63.4:2003	**Pass**
Spurious Conducted Emissions	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	**Pass**

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.; 22975 NW Evergreen Parkway, Suite 400; Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834D-1).

Approved By:

Don Facteau, IS Manager

NVLAP Lab Code: 200630-0

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		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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-Gen, Issue 2 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. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2)*

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.

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 (US0017). 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

KCC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157)*

SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/

Northwest EMC Locations

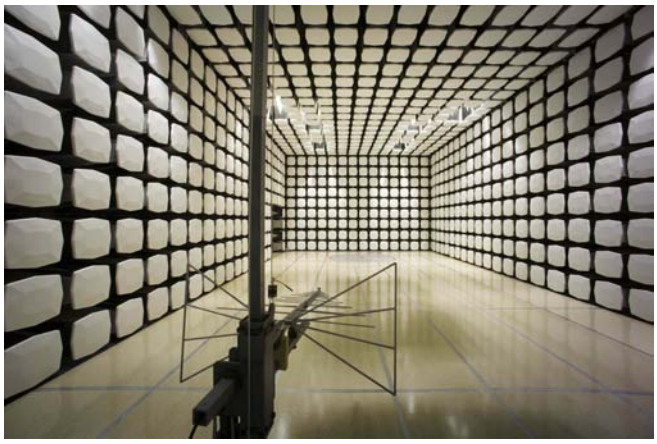
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

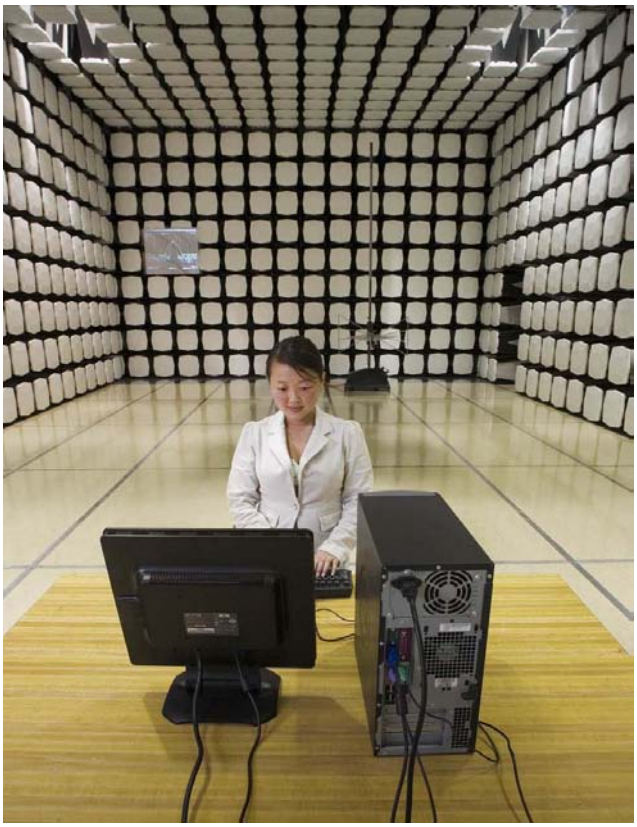
California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796





Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Wayne Rieger
Model:	Galileo Modular Radio (TI) Model RC11
First Date of Test:	July 28, 2009
Last Date of Test:	August 11, 2009
Receipt Date of Samples:	June 3, 2009
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
One combination 802.11a/b/g - Bluetooth radio module.

Testing Objective:
Seeking to demonstrate compliance of the 802.11a/b/g portion of the radio to FCC 15.247 for operation in the 2.4 and 5.8 GHz bands.

CONFIGURATION 1 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Power Supply	Intermec Technologies Corporation	3-304029-Q1	01669

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	2.3m	No	AC Mains	Power Supply
DC power	PA	2.3m	PA	Power Supply	Test Module
USB	No	5.0m	No	EUT	Remote PC
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Power Supply	Intermec Technologies Corporation	3-304029-Q1	01669

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	2.3m	No	AC Mains	Power Supply
DC power	PA	2.3m	PA	Power Supply	Test Module
USB	No	5.0m	No	EUT	Remote PC
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 5 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0
HCI Tester (Bluetooth)	2.3.1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4
5dBi Patch Antenna	Centurion Wireless Technologies, Inc.	CAF95989	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2
Power Supply	Intermec Technologies Corporation	3-304029-01	690490

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	2.3m	No	AC Mains	Power Supply
USB	No	5.0m	No	EUT	Remote PC
DC power	PA	3.5m	PA	Power Supply	EUT - Combined 802.11bg and Bluetooth radio module
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 6 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0
HCI Tester (Bluetooth)	2.3.1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4
Whip Antenna	Laird	MAF94367	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2
Power Supply	Intermec Technologies Corporation	3-304029-01	690490

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	2.3m	No	AC Mains	Power Supply
USB	No	5.0m	No	EUT	Remote PC
DC power	PA	3.5m	PA	Power Supply	EUT - Combined 802.11bg and Bluetooth radio module
Antenna	Yes	0.6m	No	EUT - Combined 802.11bg and Bluetooth radio module	Whip Antenna
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 7 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0
HCI Tester (Bluetooth)	2.3.1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4
5 dBi (3 dBd) Omni Antenna	Cushcraft	S2403B	0507

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2
Power Supply	Intermec Technologies Corporation	3-304029-01	690490

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	2.3m	No	AC Mains	Power Supply
USB	No	5.0m	No	EUT	Remote PC
DC power	PA	3.5m	PA	Power Supply	EUT - Combined 802.11bg and Bluetooth radio module
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 8 INMC0546

Software/Firmware Running during test	
Description	**Version**
Radio Scope (802.11)	1.0
HCI Tester (Bluetooth)	2.3.1.0

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Combined 802.11bg and Bluetooth radio module	Intermec Technologies Corporation	Galileo Modular Radio	00-21-e8-70-09-c4
Whip Antenna	Laird	MAF94367	None

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Power Supply	Topward Electric Instruments Co., LTD.	TPS-2000	946425

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D600	SAC 2

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
Antenna	Yes	0.6m	No	EUT - Combined 802.11bg and Bluetooth radio module	Whip Antenna
DC power	No	1.8m	No	EUT - Combined 802.11bg and Bluetooth radio module	Power Supply
AC power	No	1.8m	No	Power Supply	AC Mains
USB	Yes	3.0m	No	EUT - Combined 802.11bg and Bluetooth radio module	Remote PC
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	7/28/2009	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	7/29/2009	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.
3	7/29/2009	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.
4	7/29/2009	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.
5	7/29/2009	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.
6	7/30/2009	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	8/11/2009	AC 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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	13

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies in the allowable bands. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the required data rates available in 802.11(b)/(g)/(a).

NORTHWEST EMC

OCCUPIED BANDWIDTH

XMit 2009.03.05

EUT:	Galileo modular radio (TI)			**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4			**Date:**	07/29/09
Customer:	Intermec Technologies Corporation			**Temperature:**	24.0°C
Attendees:	None			**Humidity:**	46%
Project:	None			**Barometric Pres.:**	29.76 in
Tested by:	Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

EEPROM Power settings provided by customer in emails of 7-13-09 and 7-20-09.

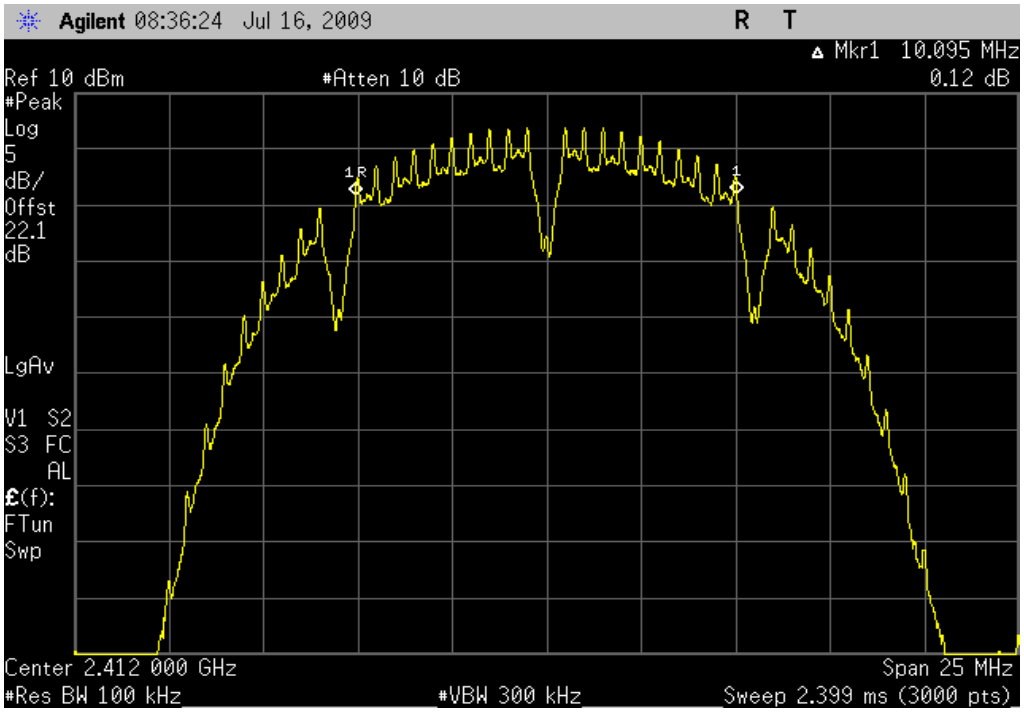
DEVIATIONS FROM TEST STANDARD

No Deviations

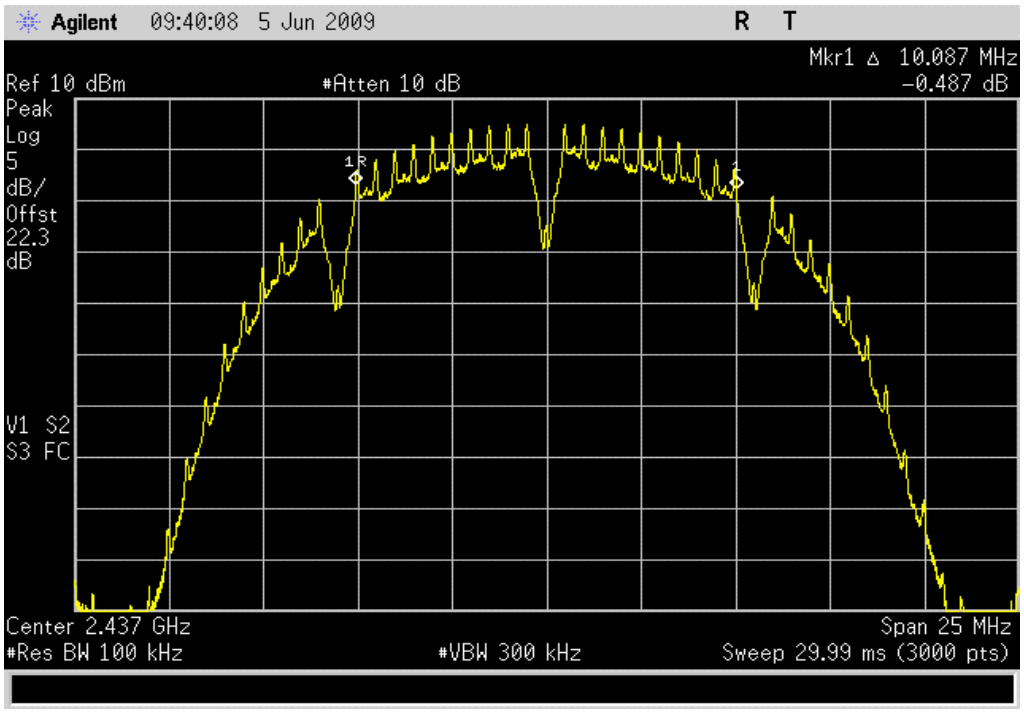
Configuration #	1	Signature

		Value	Limit	Results
802.11(b) 1 Mbps				
	Low Channel	10.095 MHz	> 500 kHz	Pass
	Mid Channel	10.087 MHz	> 500 kHz	Pass
	High Channel	10.095 MHz	> 500 kHz	Pass
802.11(b) 11 Mbps				
	Low Channel	10.587 MHz	> 500 kHz	Pass
	Mid Channel	10.353 MHz	> 500 kHz	Pass
	High Channel	10.570 MHz	> 500 kHz	Pass
802.11(g) 6 Mbps				
	Low Channel	16.347 MHz	> 500 kHz	Pass
	Mid Channel	16.364 MHz	> 500 kHz	Pass
	High Channel	16.437 MHz	> 500 kHz	Pass
802.11(g) 36 Mbps				
	Low Channel	16.489 MHz	> 500 kHz	Pass
	Mid Channel	16.455 MHz	> 500 kHz	Pass
	High Channel	16.480 MHz	> 500 kHz	Pass
802.11(g) 54 Mbps				
	Low Channel	16.506 MHz	> 500 kHz	Pass
	Mid Channel	16.464 MHz	> 500 kHz	Pass
	High Channel	16.497 MHz	> 500 kHz	Pass
802.11(a) 6 Mbps				
	Low Channel	16.339 MHz	> 500 kHz	Pass
	Mid Channel	16.339 MHz	> 500 kHz	Pass
	High Channel	16.347 MHz	> 500 kHz	Pass
802.11(a) 36 Mbps				
	Low Channel	16.472 MHz	> 500 kHz	Pass
	Mid Channel	16.497 MHz	> 500 kHz	Pass
	High Channel	16.464 MHz	> 500 kHz	Pass
802.11(a) 54 Mbps				
	Low Channel	16.439 MHz	> 500 kHz	Pass
	Mid Channel	16.430 MHz	> 500 kHz	Pass
	High Channel	16.489 MHz	> 500 kHz	Pass

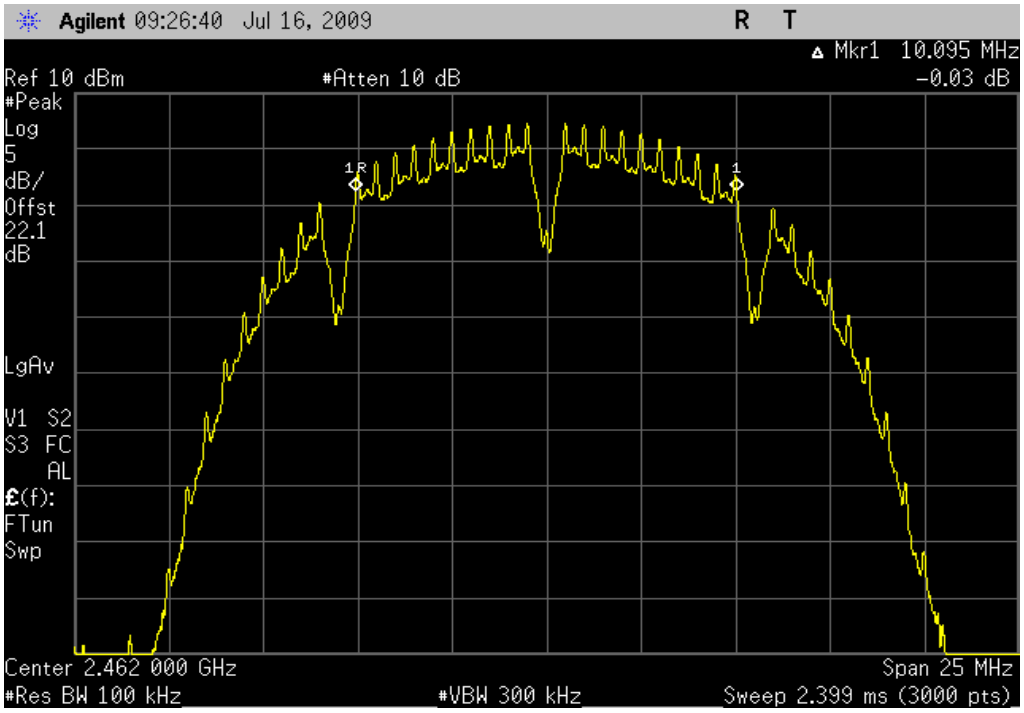
802.11(b) 1 Mbps, Low Channel					
Result:	Pass	**Value:**	10.095 MHz	**Limit:**	> 500 kHz



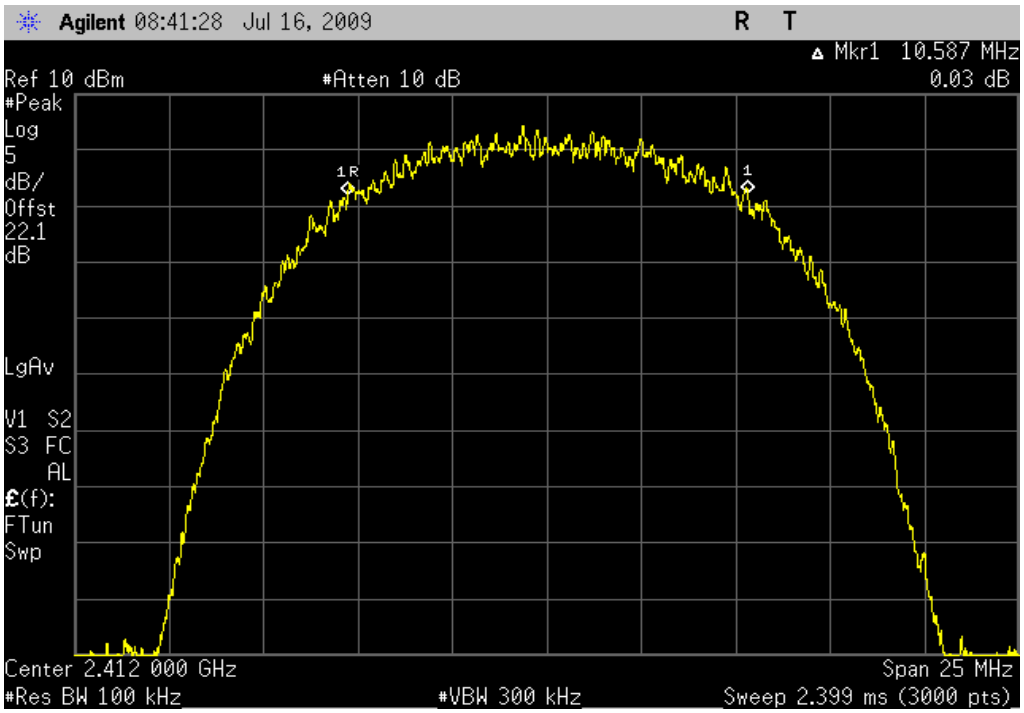
802.11(b) 1 Mbps, Mid Channel					
Result:	Pass	**Value:**	10.087 MHz	**Limit:**	> 500 kHz



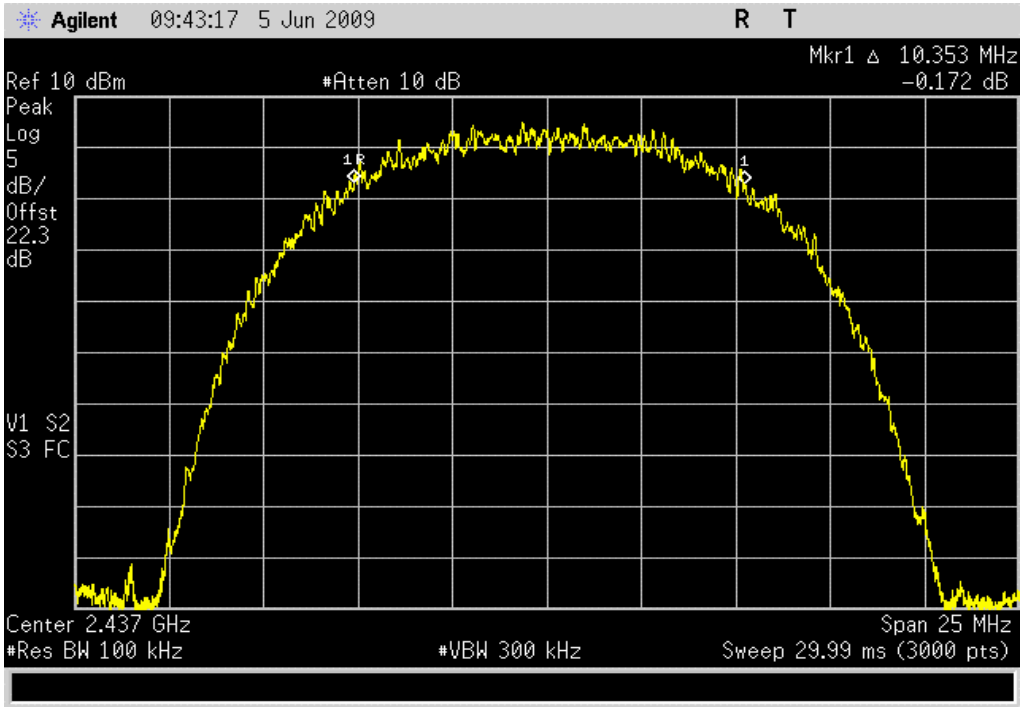
802.11(b) 1 Mbps, High Channel					
Result:	Pass	**Value:**	10.095 MHz	**Limit:**	> 500 kHz



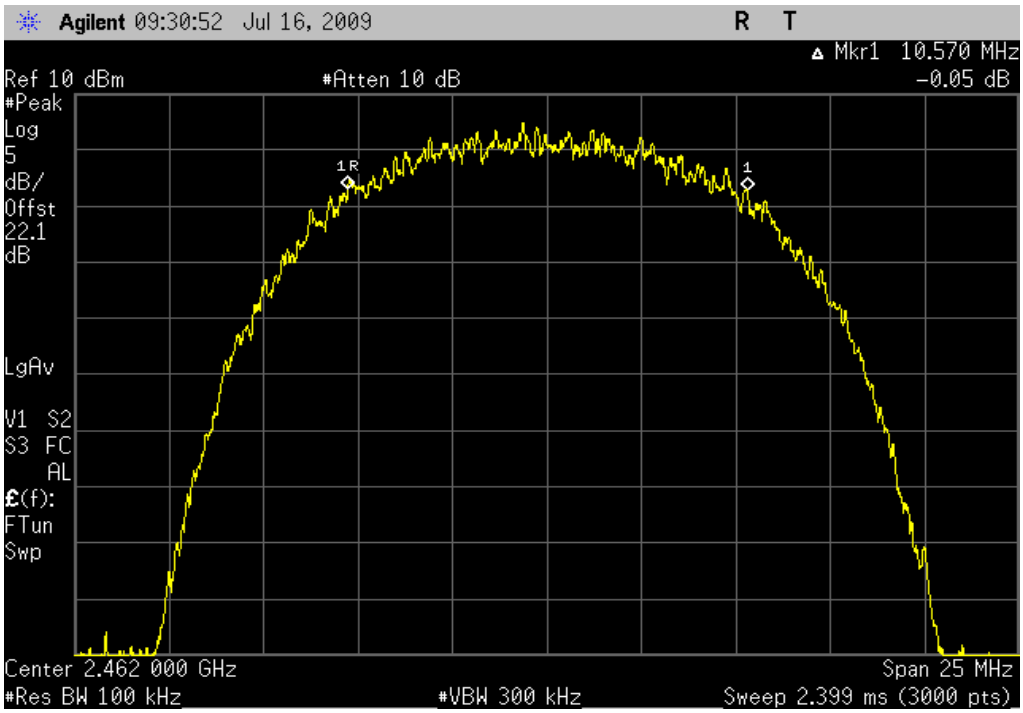
802.11(b) 11 Mbps, Low Channel					
Result:	Pass	**Value:**	10.587 MHz	**Limit:**	> 500 kHz



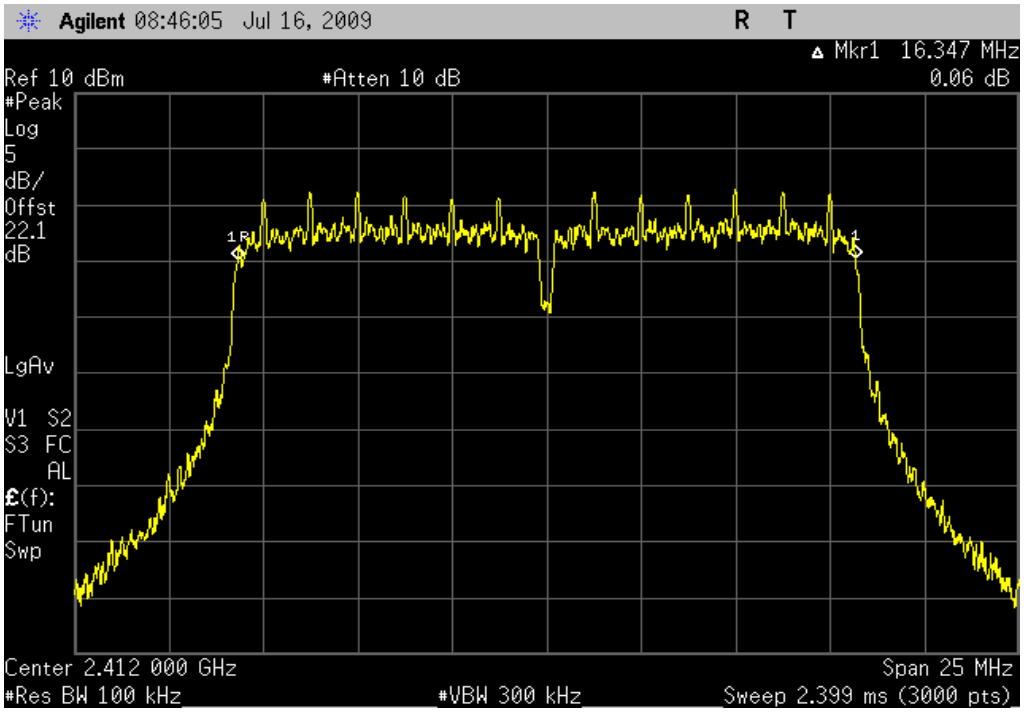
802.11(b) 11 Mbps, Mid Channel					
Result:	Pass	**Value:**	10.353 MHz	**Limit:**	> 500 kHz



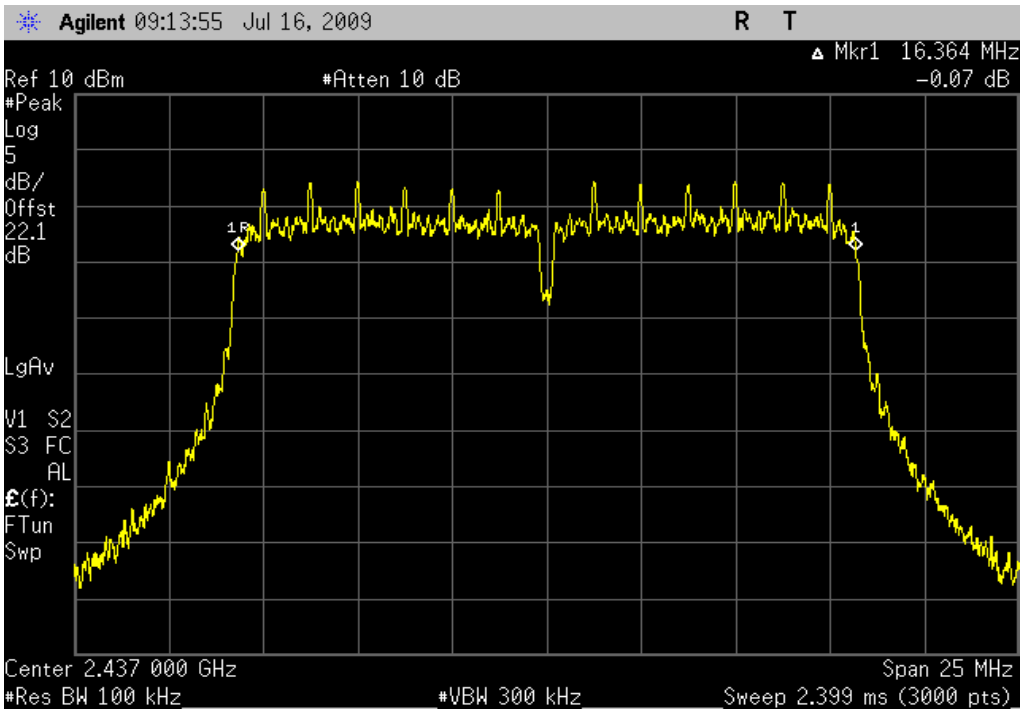
802.11(b) 11 Mbps, High Channel					
Result:	Pass	**Value:**	10.570 MHz	**Limit:**	> 500 kHz



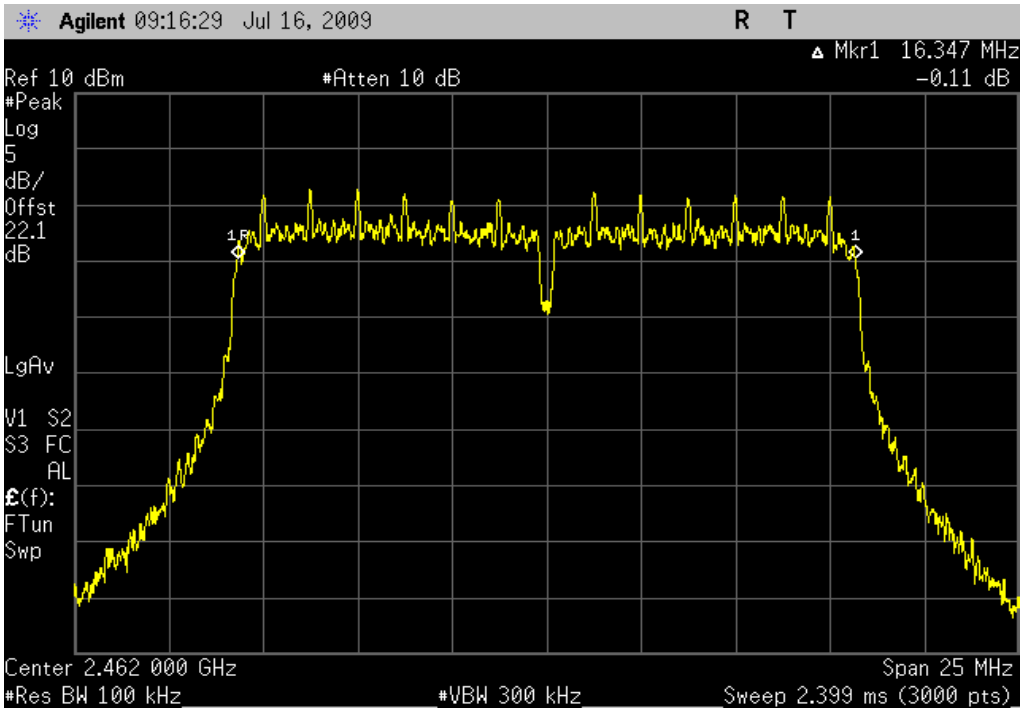
802.11(g) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	16.347 MHz	**Limit:**	> 500 kHz



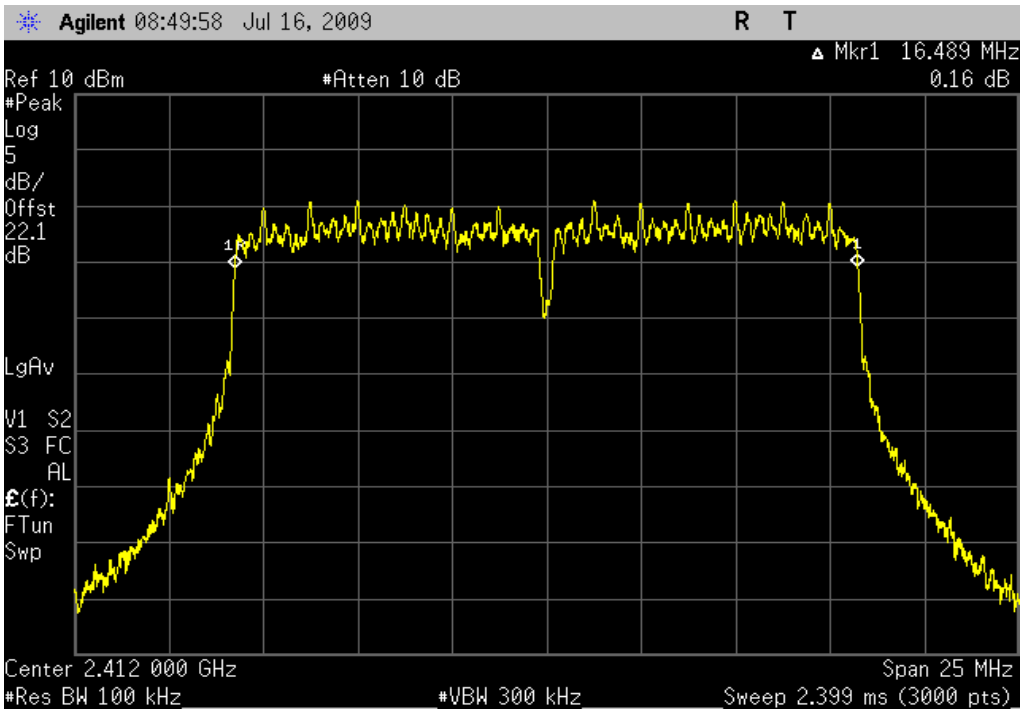
802.11(g) 6 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.364 MHz	**Limit:**	> 500 kHz



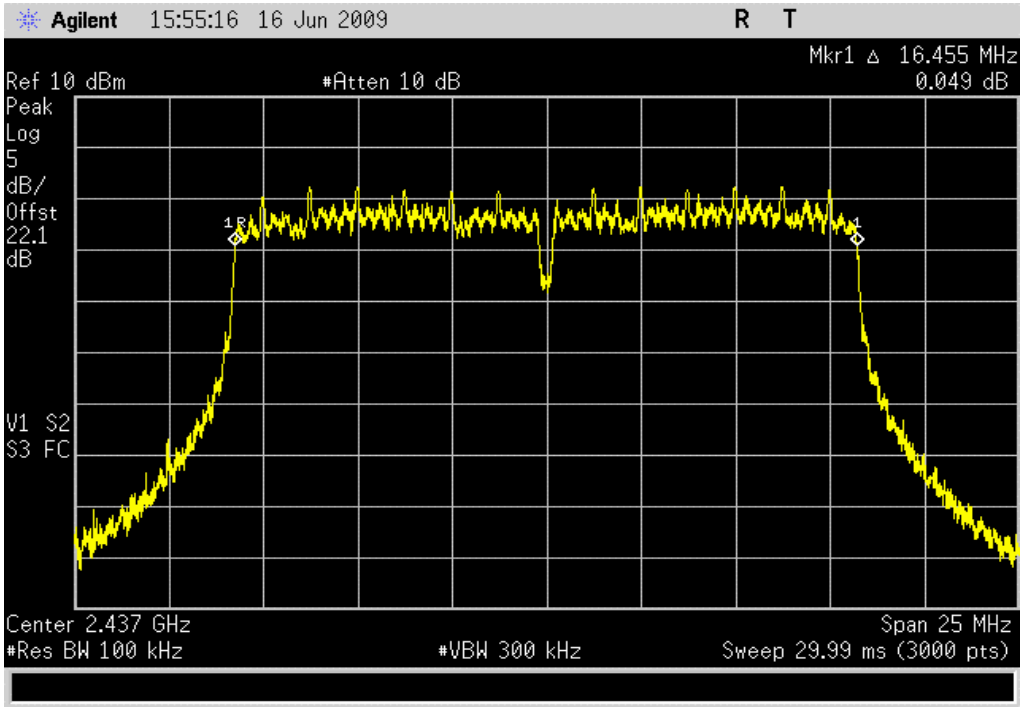
802.11(g) 6 Mbps, High Channel					
Result:	Pass	**Value:**	16.437 MHz	**Limit:**	> 500 kHz



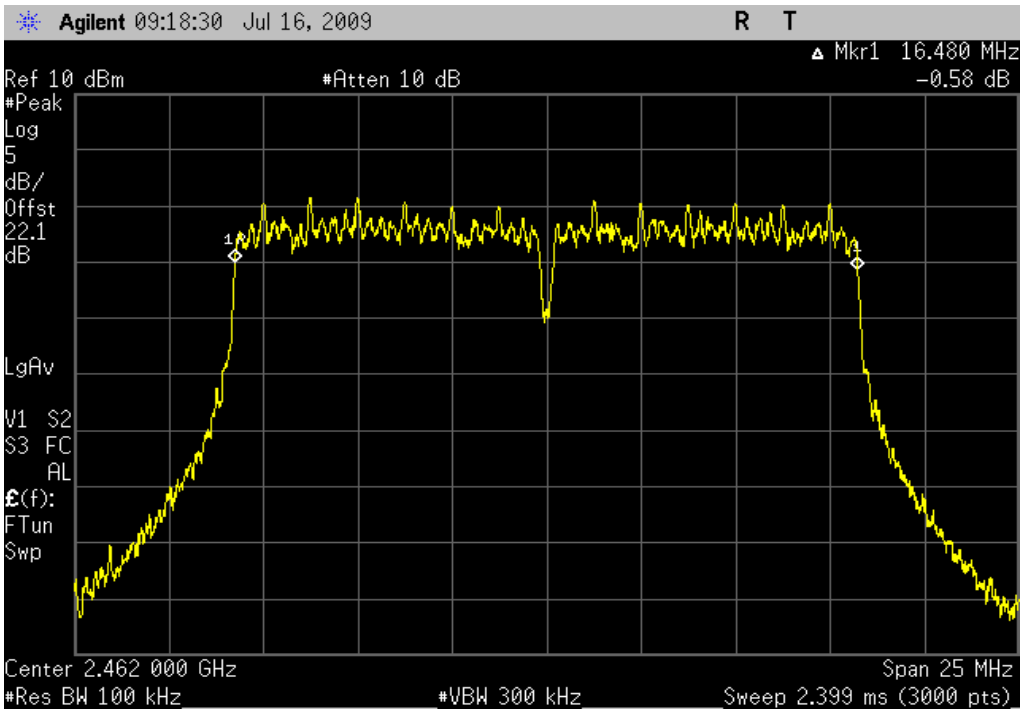
802.11(g) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	16.489 MHz	**Limit:**	> 500 kHz



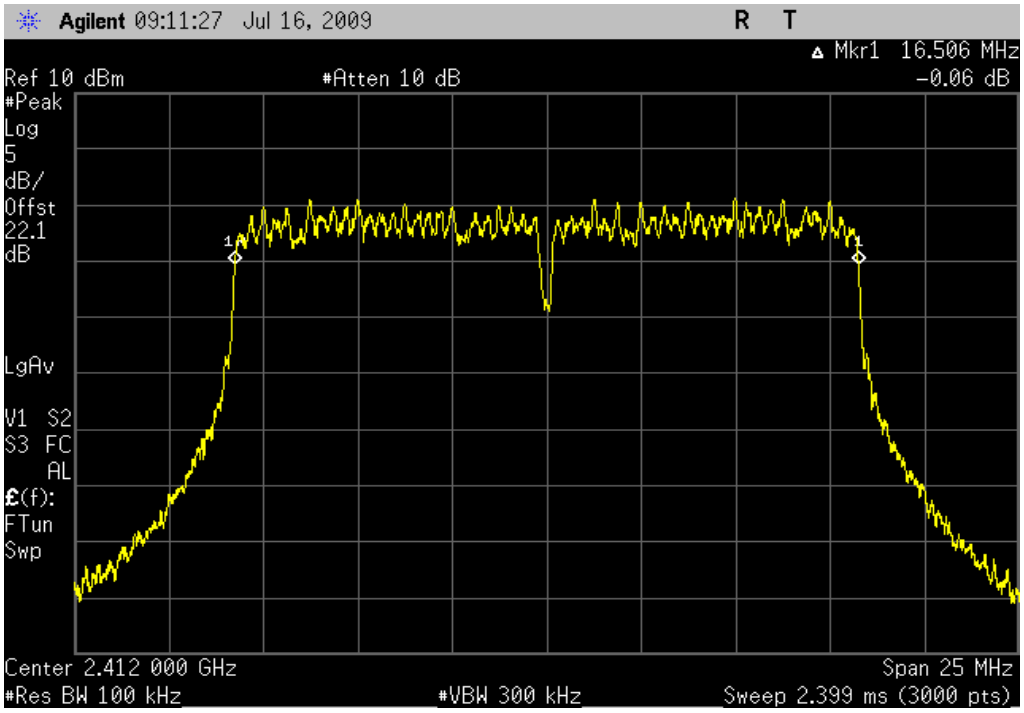
802.11(g) 36 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.455 MHz	**Limit:**	> 500 kHz



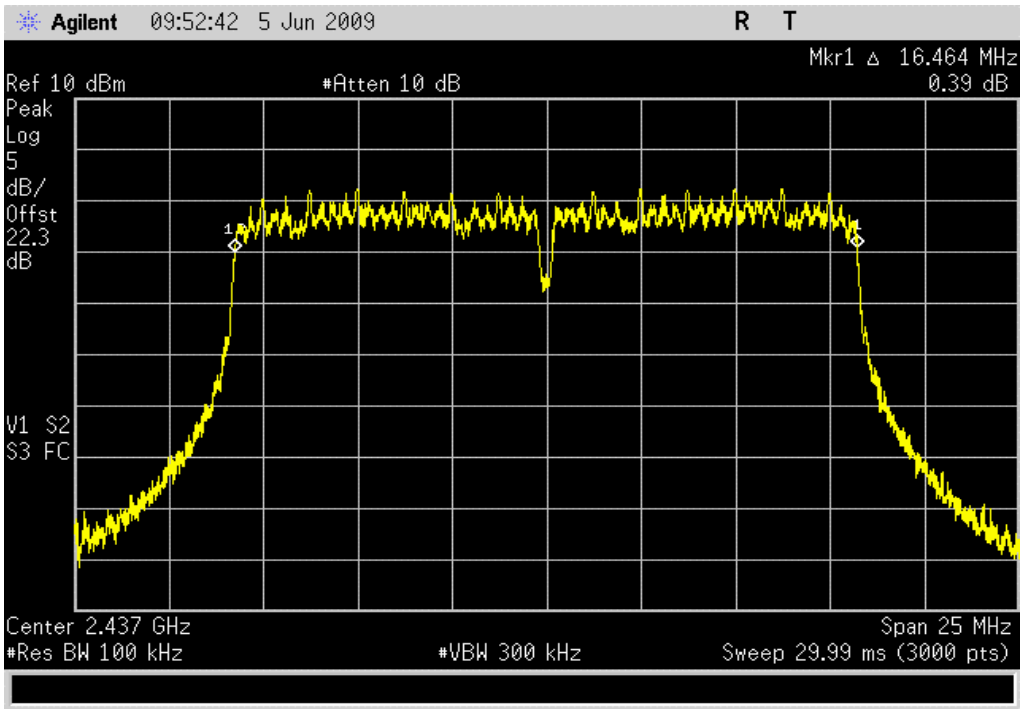
802.11(g) 36 Mbps, High Channel					
Result:	Pass	**Value:**	16.480 MHz	**Limit:**	> 500 kHz



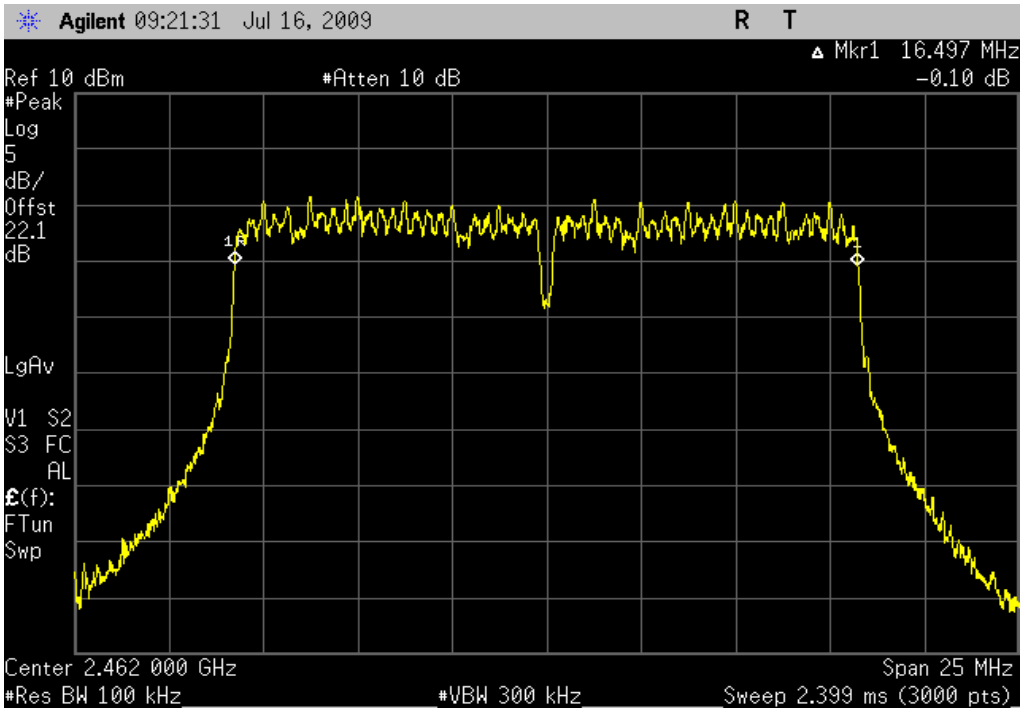
802.11(g) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	16.506 MHz	**Limit:**	> 500 kHz



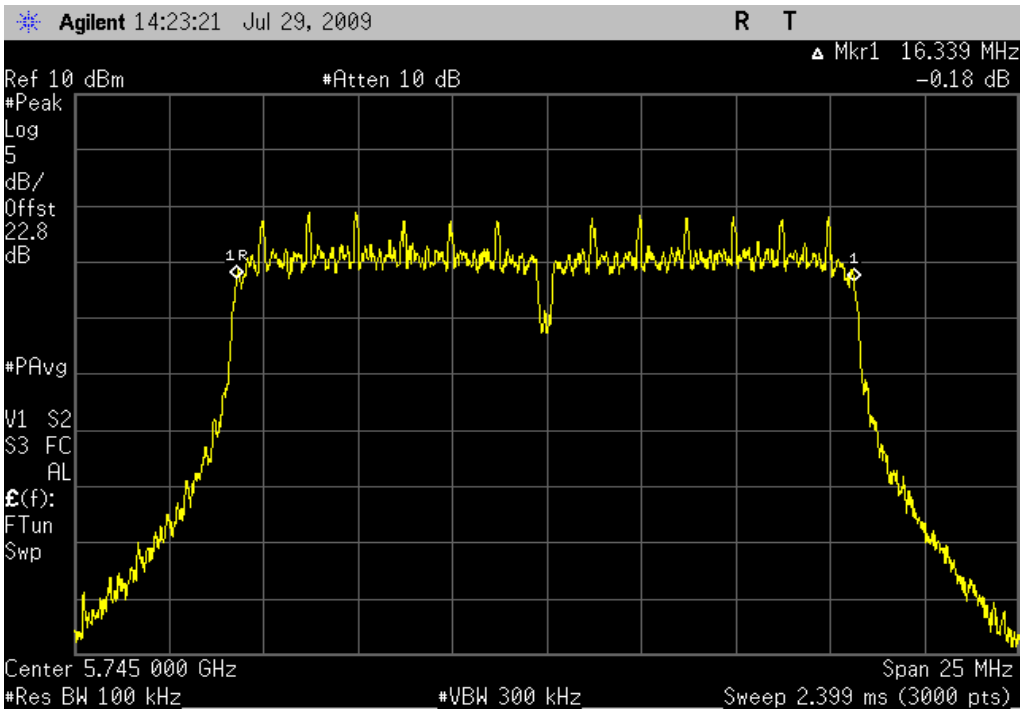
802.11(g) 54 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.464 MHz	**Limit:**	> 500 kHz



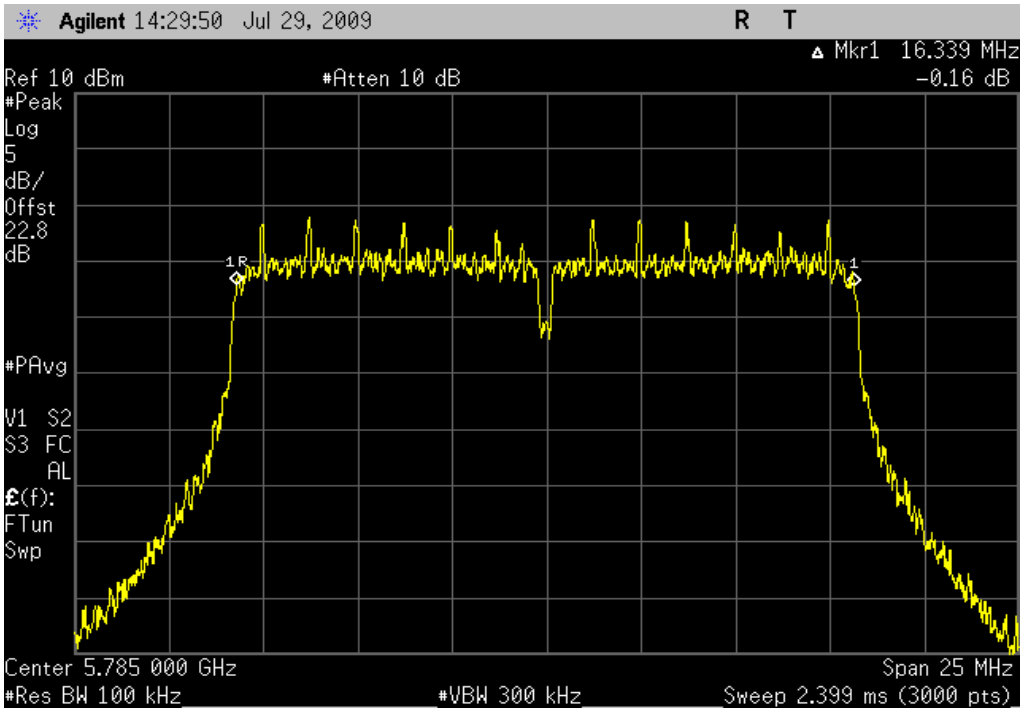
802.11(g) 54 Mbps, High Channel					
Result:	Pass	**Value:**	16.497 MHz	**Limit:**	> 500 kHz



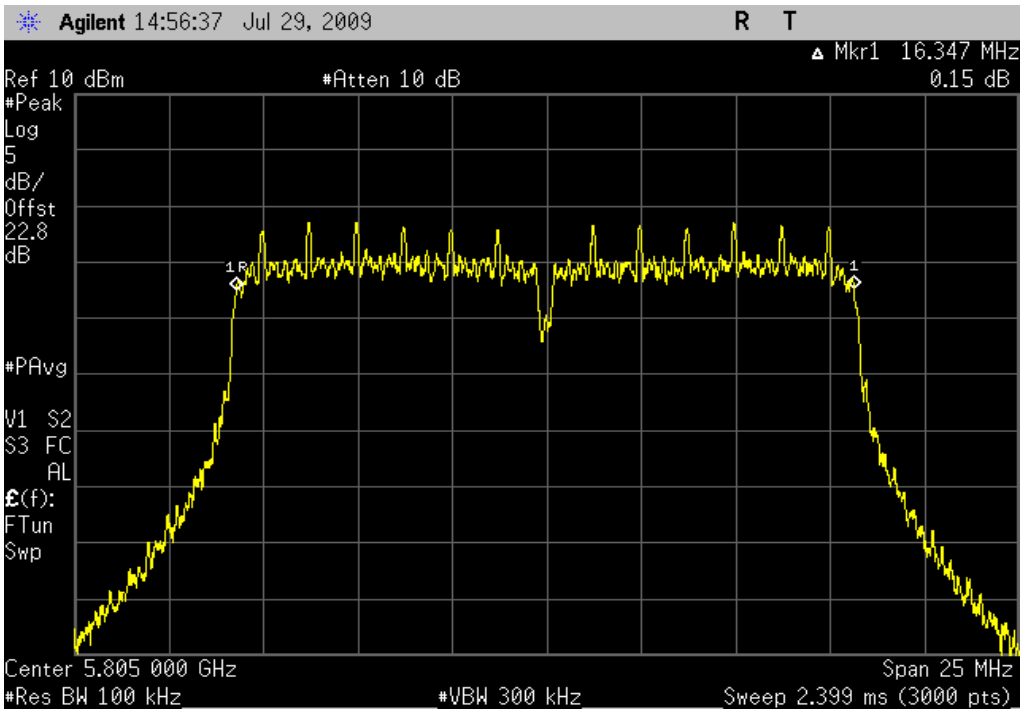
802.11(a) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	16.339 MHz	**Limit:**	> 500 kHz



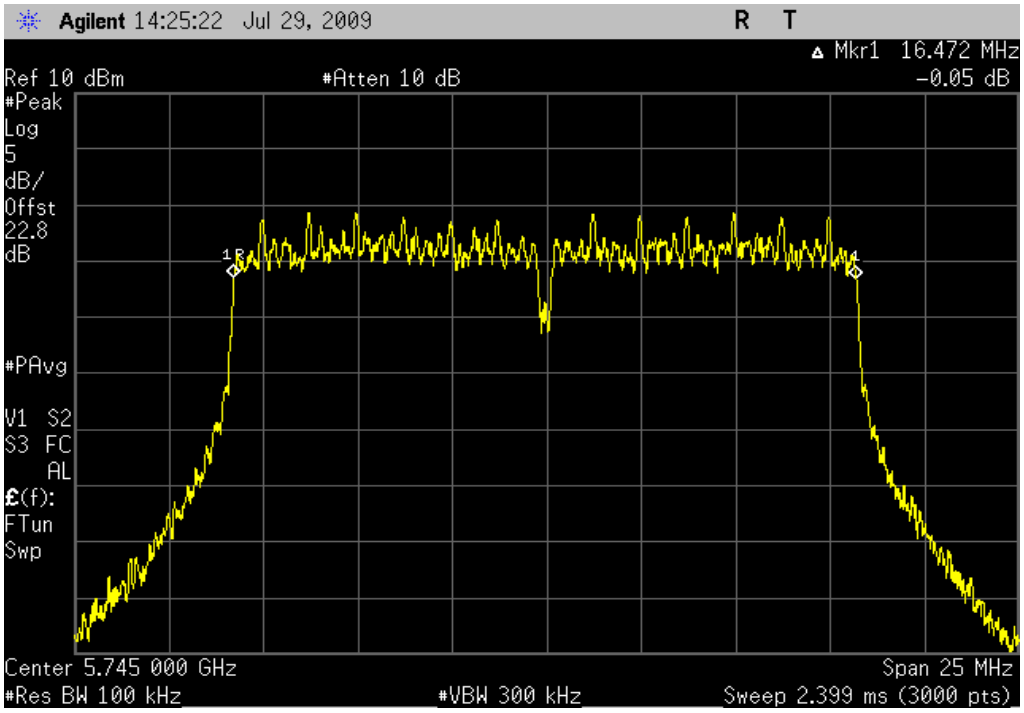
802.11(a) 6 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.339 MHz	**Limit:**	> 500 kHz



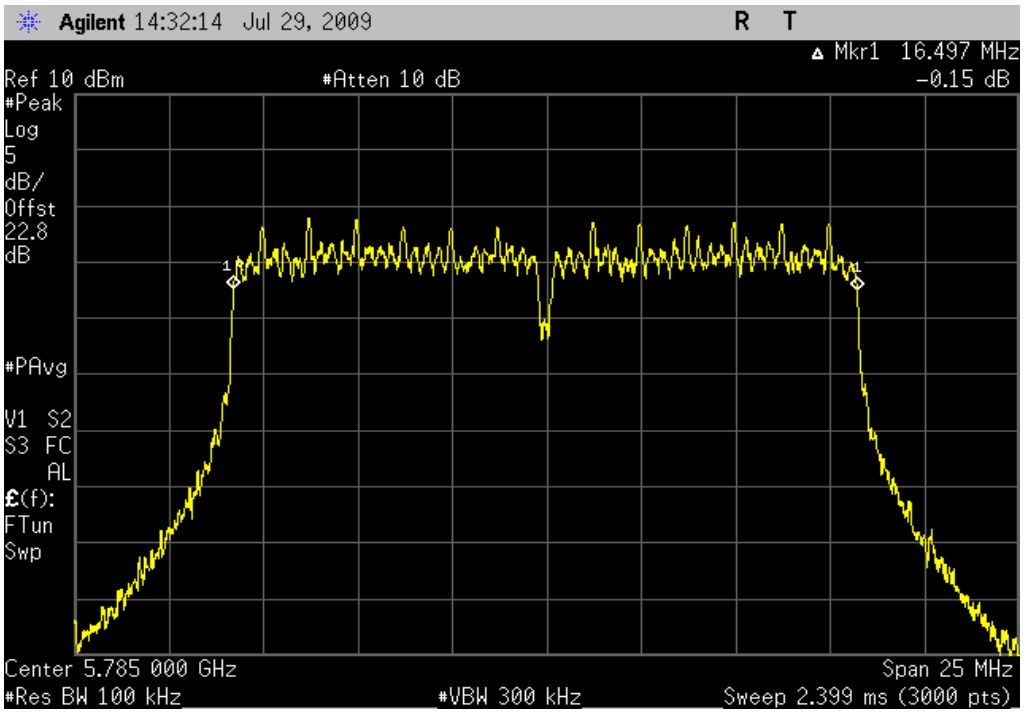
802.11(a) 6 Mbps, High Channel					
Result:	Pass	**Value:**	16.347 MHz	**Limit:**	> 500 kHz



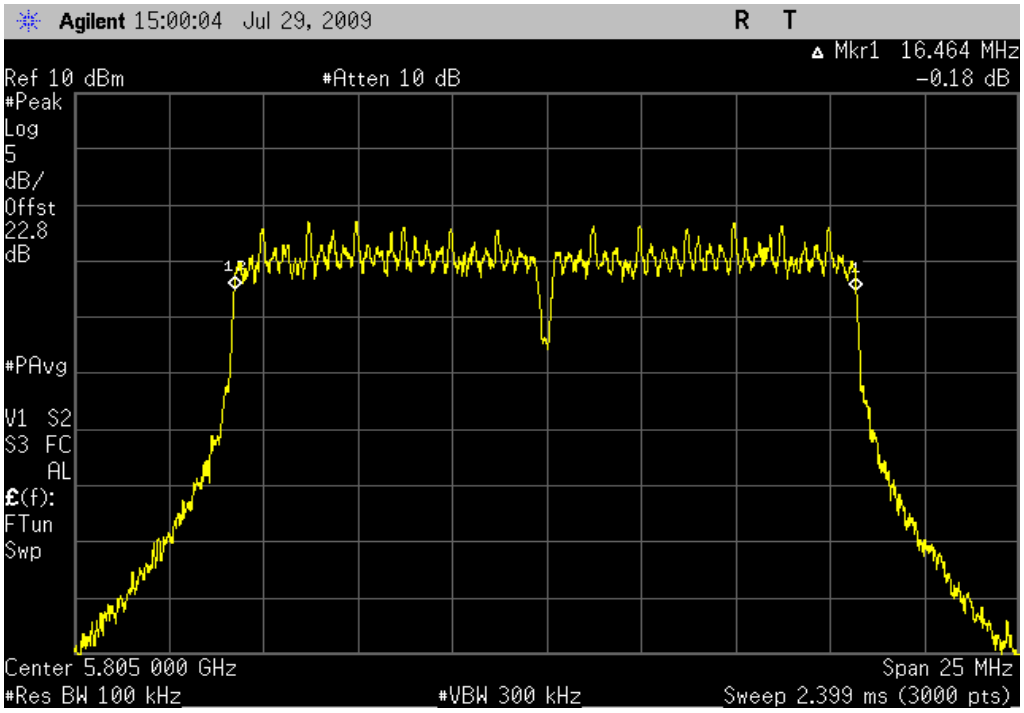
802.11(a) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	16.472 MHz	**Limit:**	> 500 kHz



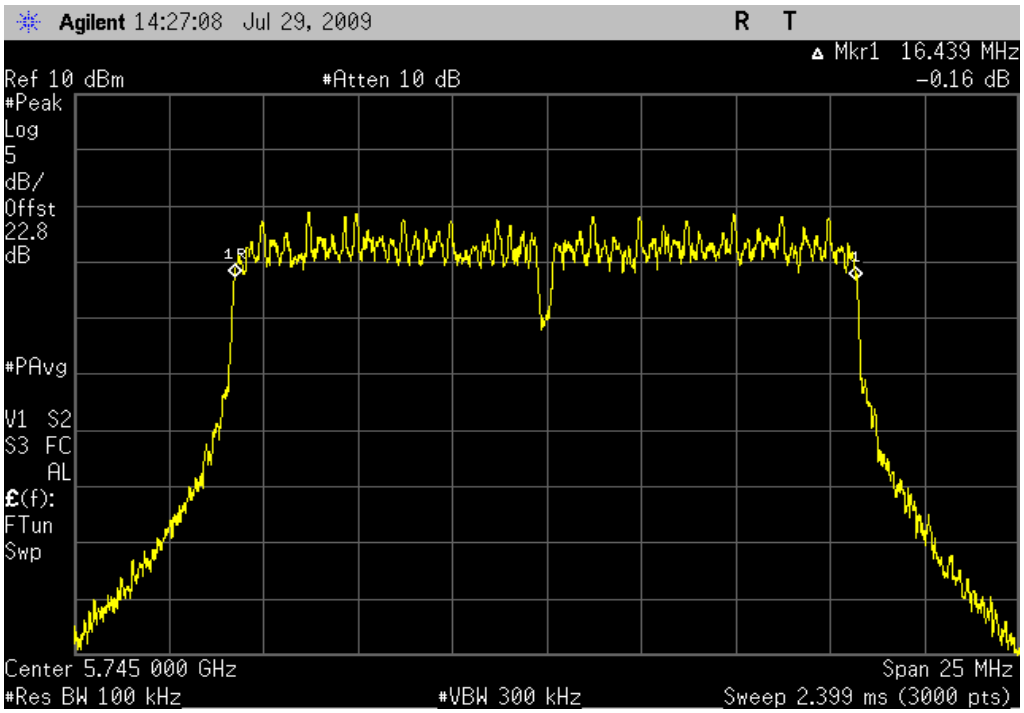
802.11(a) 36 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.497 MHz	**Limit:**	> 500 kHz



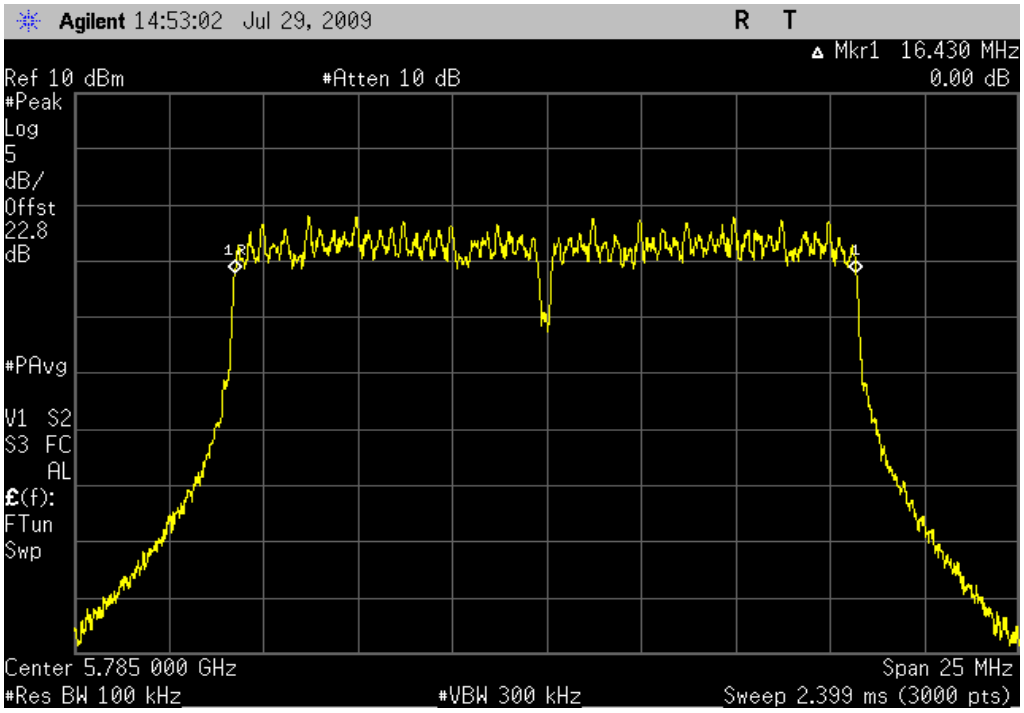
802.11(a) 36 Mbps, High Channel					
Result:	Pass	**Value:**	16.464 MHz	**Limit:**	> 500 kHz



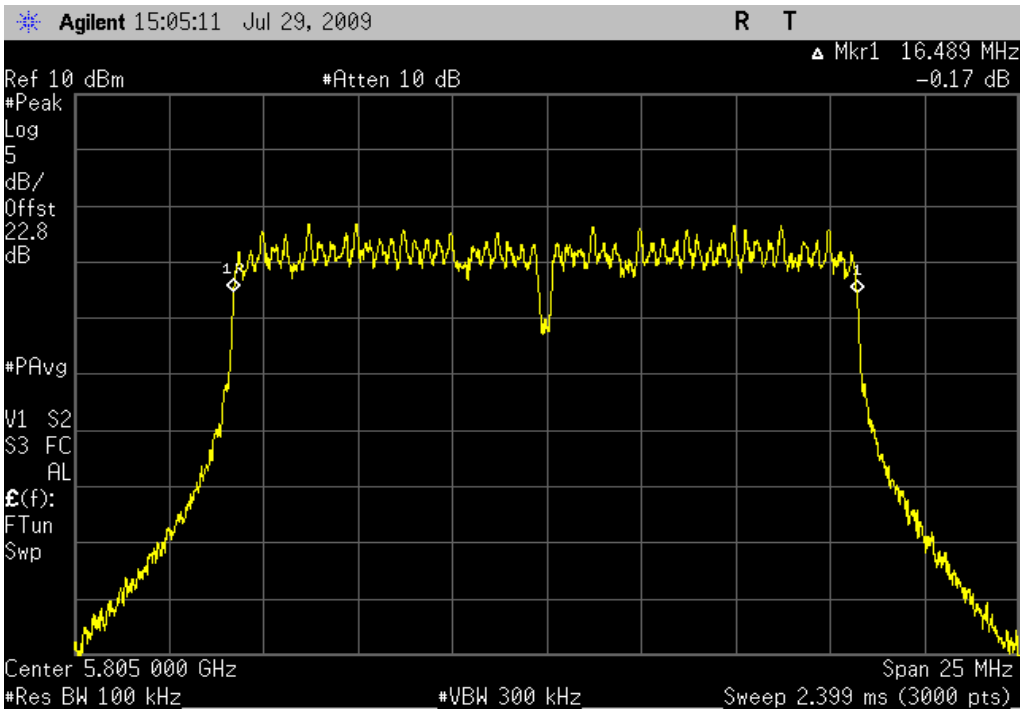
802.11(a) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	16.439 MHz	**Limit:**	> 500 kHz



802.11(a) 54 Mbps, Mid Channel					
Result:	Pass	**Value:**	16.430 MHz	**Limit:**	> 500 kHz



802.11(a) 54 Mbps, High Channel					
Result:	Pass	**Value:**	16.489 MHz	**Limit:**	> 500 kHz



OCCUPIED BANDWIDTH

OUTPUT POWER

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 Meter	Gigatronics	8651A	SPM	12/10/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	13
Oscilloscope	Tektronix	TDS 3052	TOF	12/10/2008	13
Attenuator	Weinschel Corp.	54A-20	RBL	9/16/2008	13
Attenuator		93459 3330A-6	AUF	3/13/2009	13
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/1/2008	13
RF Detector	RLC Electronics	CR-133-R	ZZA	NCR	0

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The EUT was transmitting at its maximum output power. The data rate of the radio was varied to determine the level that produced the highest output power.

The measurement was made using a direct connection between the RF output of the EUT and a RF detector diode. The DC output of the diode was measured with the oscilloscope. The signal generator, tuned to the transmit frequency, was then substituted for the EUT. The CW output of the signal generator was adjusted until the DC output of the RF detector diode match the peak level produced when connected to the EUT. To further reduce measurement error, the power meter and sensor were then used to measure the output power level of the signal generator.

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

NORTHWEST EMC

OUTPUT POWER

XMit 2009.03.05

EUT:	Galileo modular radio (TI)			**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4			**Date:**	07/29/09
Customer:	Intermec Technologies Corporation			**Temperature:**	23.00°C
Attendees:	None			**Humidity:**	45%
Project:	None			**Barometric Pres.:**	29.76 in
Tested by:	Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

EEPROM Power settings provided by customer in emails of 7-13-09 and 7-20-09.

DEVIATIONS FROM TEST STANDARD

No deviations

Configuration #	1	Signature

RF Diode Detector Method

802.11(b)	1 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
2412	1	-31.2	28.7	-12.06	16.5	**44.2**	1000
2437	6	-38.8	28.7	-4.90	17.7	**58.3**	1000
2462	11	-32.4	28.7	-11.86	16.7	**46.4**	1000

802.11(b)	11 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
2412	1	-31.6	28.7	-11.90	16.6	**45.9**	1000
2437	6	-38.8	28.7	-4.90	17.7	**58.3**	1000
2462	11	-32.0	28.7	-11.90	16.6	**46.0**	1000

802.11(g)	6 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
2412	1	-31.6	28.7	-12.06	16.5	**44.2**	1000
2437	6	-39.2	28.7	-10.70	17.8	**60.5**	1000
2462	11	-33.2	28.7	-11.70	16.8	**48.2**	1000

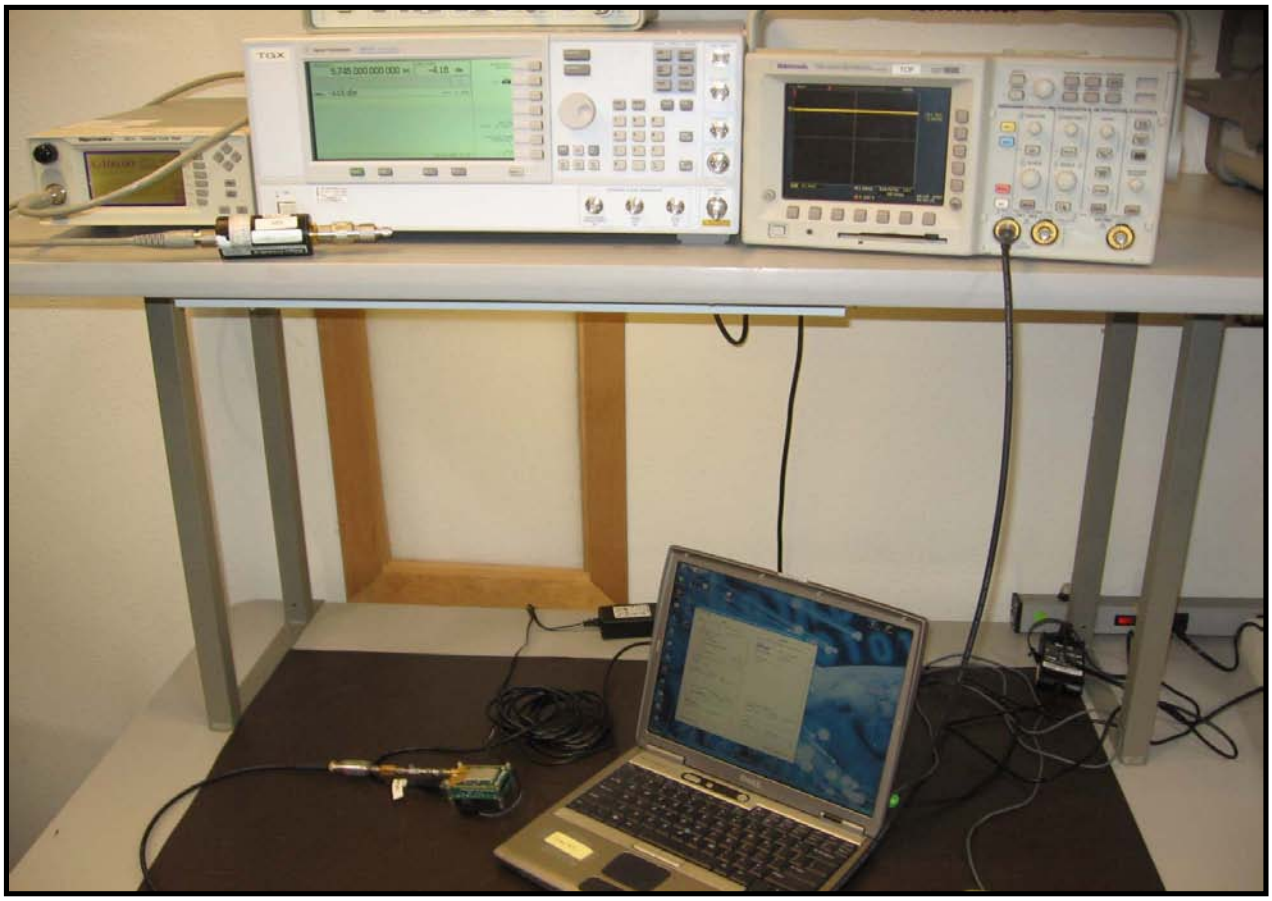
802.11(g)	36 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
2412	1	-25.2	28.7	-13.30	15.2	**33.3**	1000
2437	6	-32.8	28.7	-6.60	16.6	**45.5**	1000
2462	11	-26.8	28.7	-12.96	15.6	**36.0**	1000

802.11(g)	54 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
2412	1	-24.8	28.7	-13.46	15.1	**32.1**	1000
2437	6	-35.2	28.7	-5.40	17.1	**51.5**	1000
2462	11	-26.4	28.7	-13.00	15.5	**35.7**	1000

802.11(a)	6 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
5745	149	-40.0	25.6	-4.18	15.3	**33.9**	1000
5785	157	-36.0	25.6	-4.92	14.5	**28.4**	1000
5805	161	-34.8	25.6	-5.16	14.3	**27.2**	1000

802.11(a)	36 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
5745	149	-35.6	25.6	-4.96	14.5	**28.1**	1000
5785	157	-34.8	25.6	-5.16	14.3	**27.2**	1000
5805	161	-30.4	25.6	-5.94	13.6	**22.6**	1000

802.11(a)	54 Mbps						
Xmit Frequency	Channel	DC on Scope	Attenuator Specific	Sig Gen Output	Power Meter	Power Meter	Limit
(MHz)		(mV)	Ref.Offset (dB)	(dBm)	(dBm)	**(mW)**	(mW)
5745	149	-36.4	25.6	-4.78	14.7	**29.3**	1000
5785	157	-32.8	25.6	-5.52	14.0	**25.0**	1000
5805	161	-32.8	25.6	-5.52	14.0	**25.0**	1000



BAND EDGE COMPLIANCE

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	E4440A	AFD	6/1/2009	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	13

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the required data rates available in 802.11(b)/(g)/(a).

NORTHWEST EMC

BAND EDGE COMPLIANCE

XMit 2009.03.05

EUT:	Galileo modular radio (TI)			**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4			**Date:**	07/29/09
Customer:	Intermec Technologies Corporation			**Temperature:**	24.0°C
Attendees:	None			**Humidity:**	46%
Project:	None			**Barometric Pres.:**	29.76 in
Tested by:	Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

EEPROM Power settings provided by customer in emails of 7-13-09 and 7-20-09.

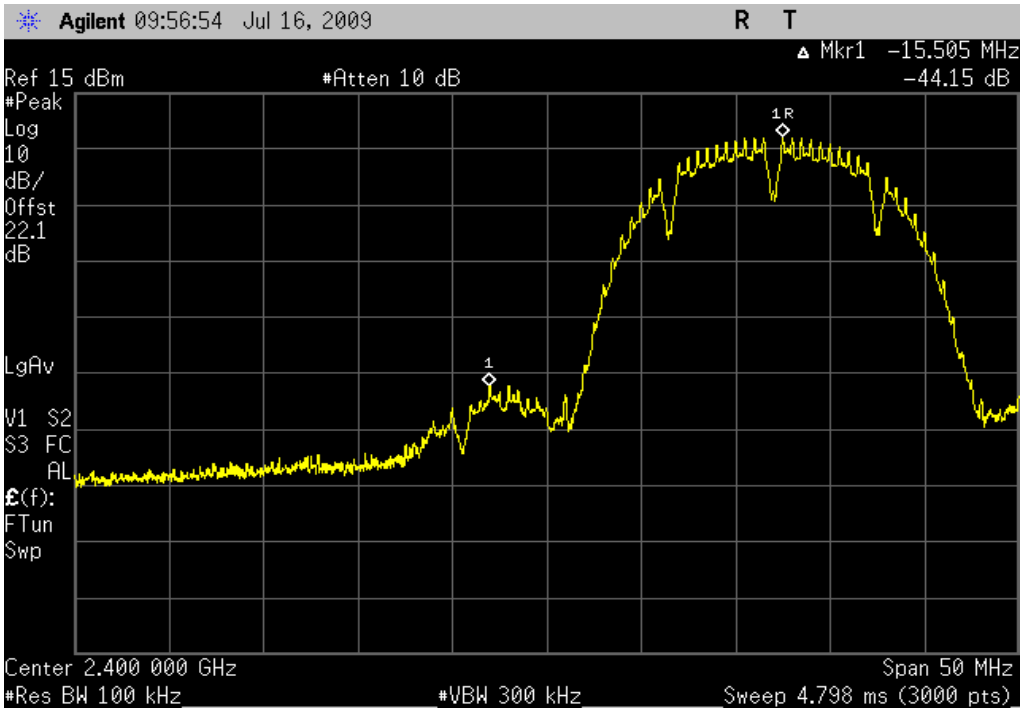
DEVIATIONS FROM TEST STANDARD

No Deviations

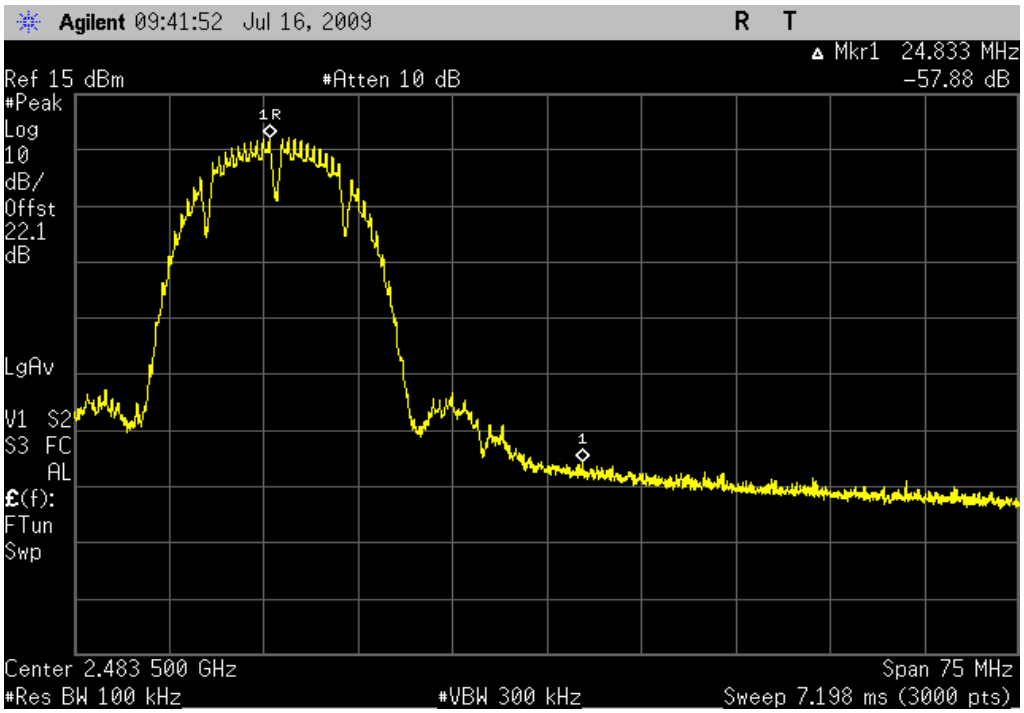
Configuration #	1	Signature

		Value	Limit	Results
802.11(b) 1 Mbps				
	Low Channel	-44.2 dBc	≤ -20 dBc	Pass
	High Channel	-57.9 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps				
	Low Channel	-45.9 dBc	≤ -20 dBc	Pass
	High Channel	-58.2 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps				
	Low Channel	-32.5 dBc	≤ -20 dBc	Pass
	High Channel	-50.3 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps				
	Low Channel	-33.1 dBc	≤ -20 dBc	Pass
	High Channel	-47.8 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps				
	Low Channel	-33.0 dBc	≤ -20 dBc	Pass
	High Channel	-48.4 dBc	≤ -20 dBc	Pass
802.11(a) 6 Mbps				
	Low Channel	-43.1 dBc	≤ -20 dBc	Pass
	High Channel	-54.4 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps				
	Low Channel	-45.6 dBc	≤ -20 dBc	Pass
	High Channel	-53.4 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
	Low Channel	-47.4 dBc	≤ -20 dBc	Pass
	High Channel	-54.6 dBc	≤ -20 dBc	Pass

802.11(b) 1 Mbps, Low Channel					
Result:	Pass	**Value:**	-44.2 dBc	**Limit:**	≤ -20 dBc

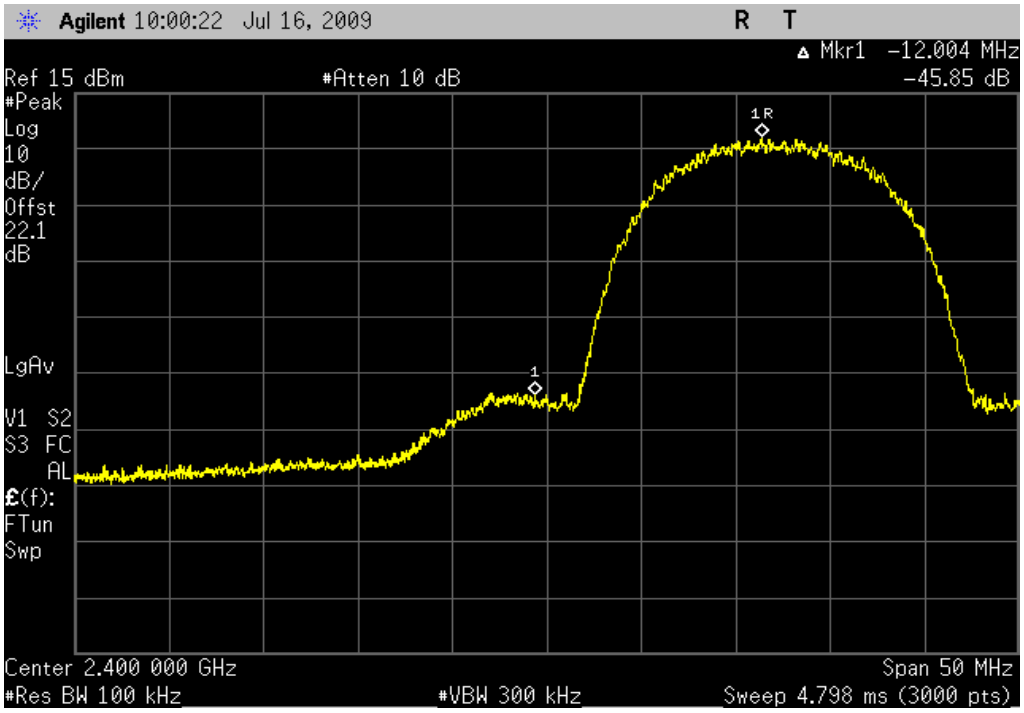


802.11(b) 1 Mbps, High Channel					
Result:	Pass	**Value:**	-57.9 dBc	**Limit:**	≤ -20 dBc

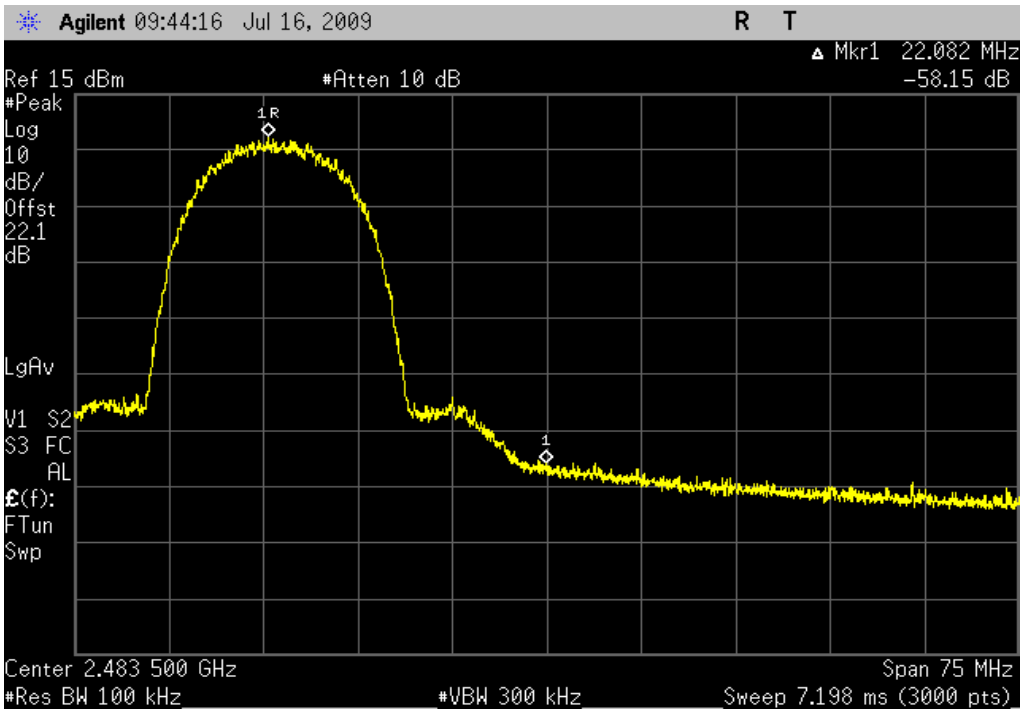


BAND EDGE COMPLIANCE

802.11(b) 11 Mbps, Low Channel					
Result:	Pass	**Value:**	-45.9 dBc	**Limit:**	≤ -20 dBc

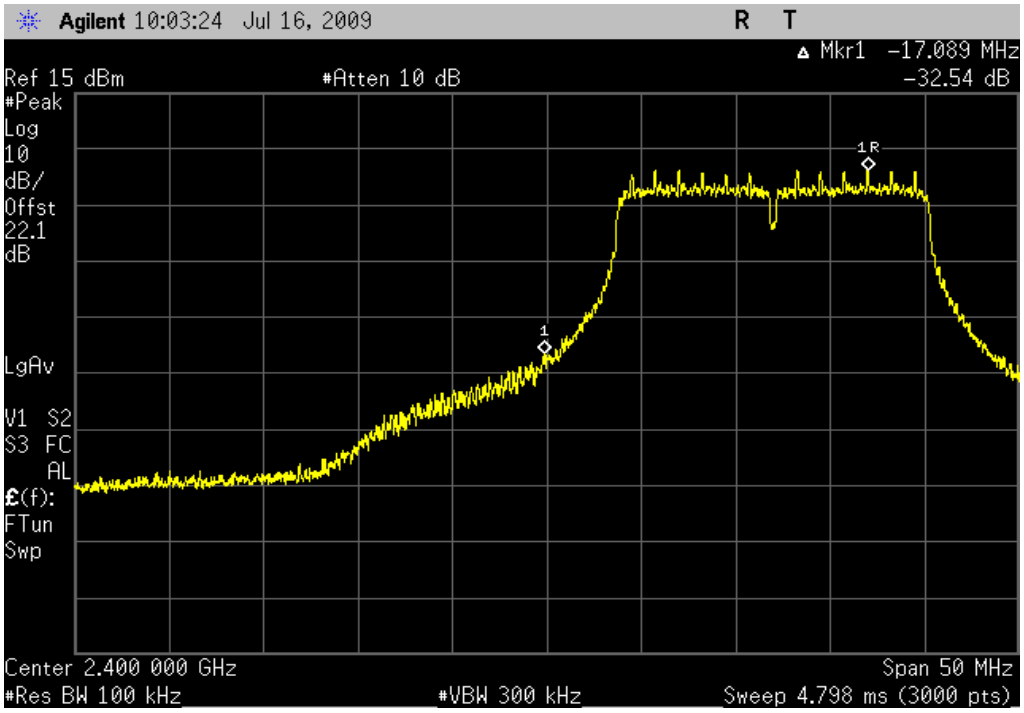


802.11(b) 11 Mbps, High Channel					
Result:	Pass	**Value:**	-58.2 dBc	**Limit:**	≤ -20 dBc

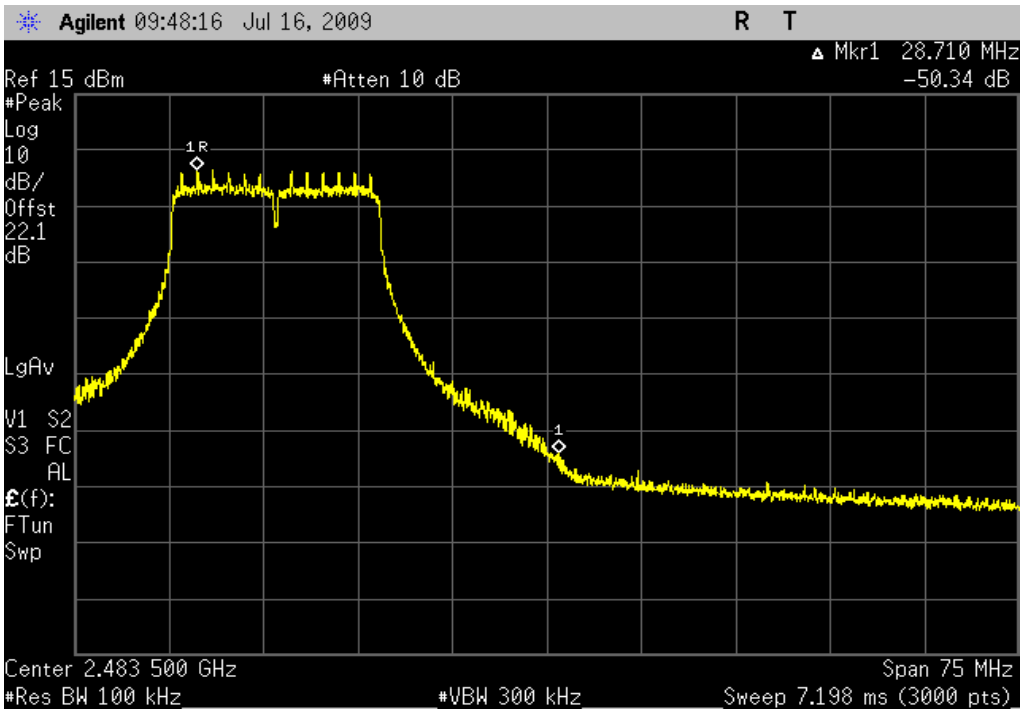


BAND EDGE COMPLIANCE

802.11(g) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	-32.5 dBc	**Limit:**	≤ -20 dBc

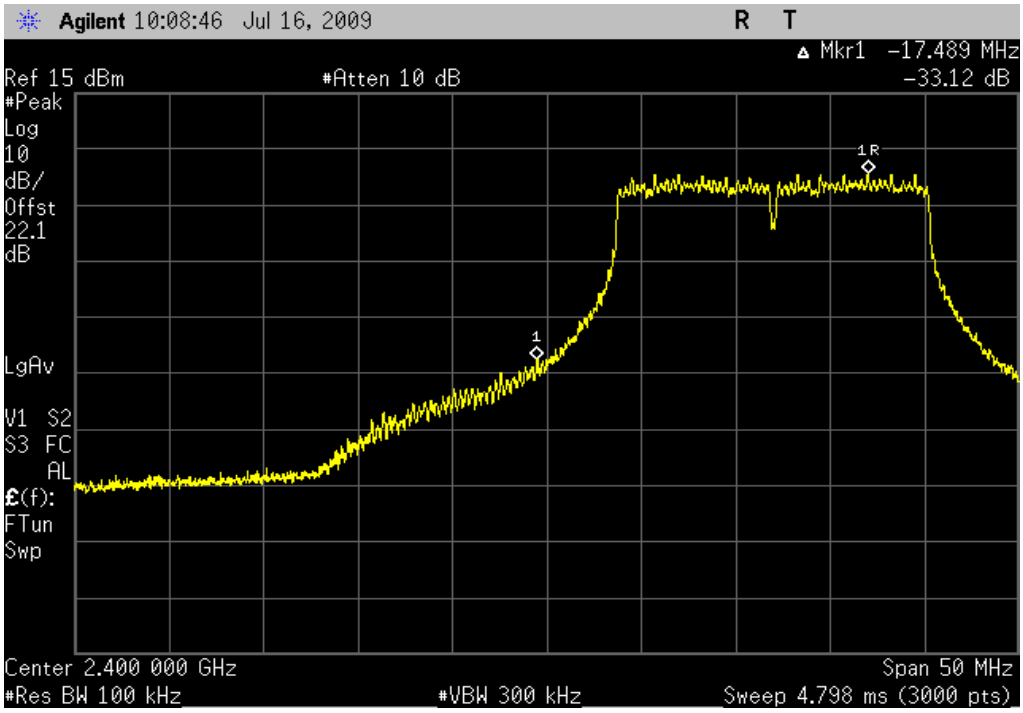


802.11(g) 6 Mbps, High Channel					
Result:	Pass	**Value:**	-50.3 dBc	**Limit:**	≤ -20 dBc

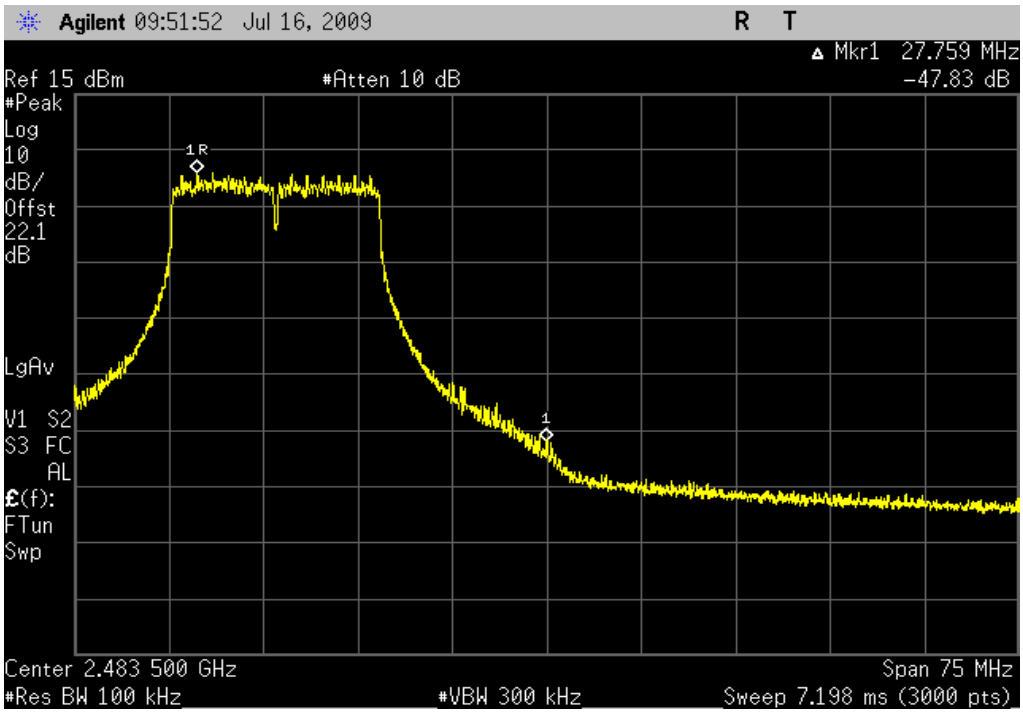


BAND EDGE COMPLIANCE

802.11(g) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	-33.1 dBc	**Limit:**	≤ -20 dBc

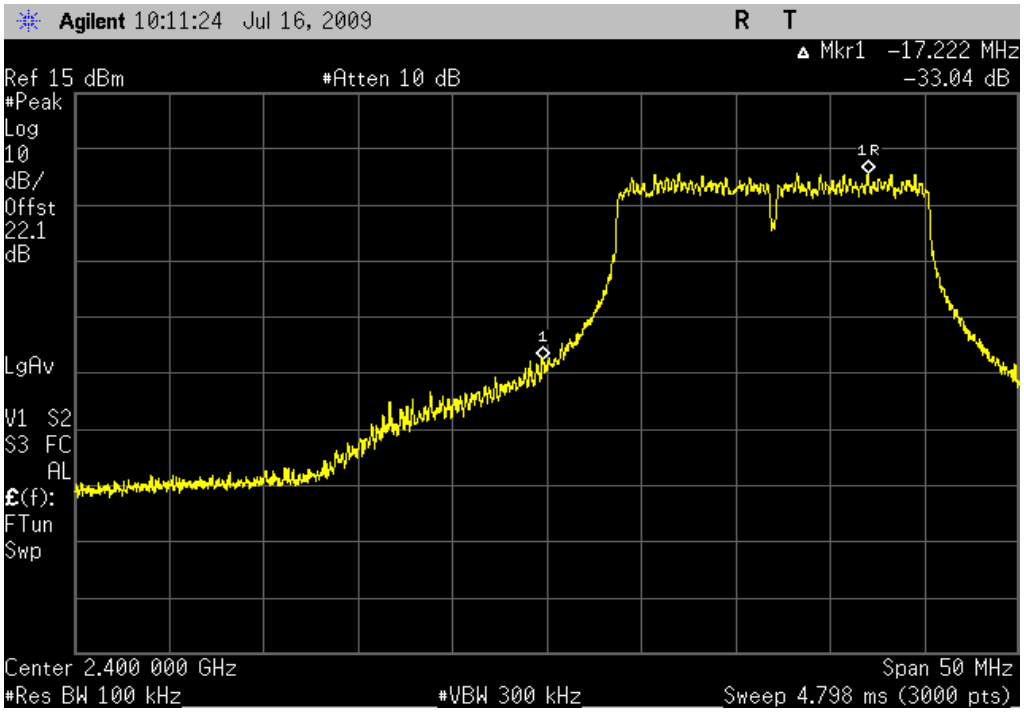


802.11(g) 36 Mbps, High Channel					
Result:	Pass	**Value:**	-47.8 dBc	**Limit:**	≤ -20 dBc

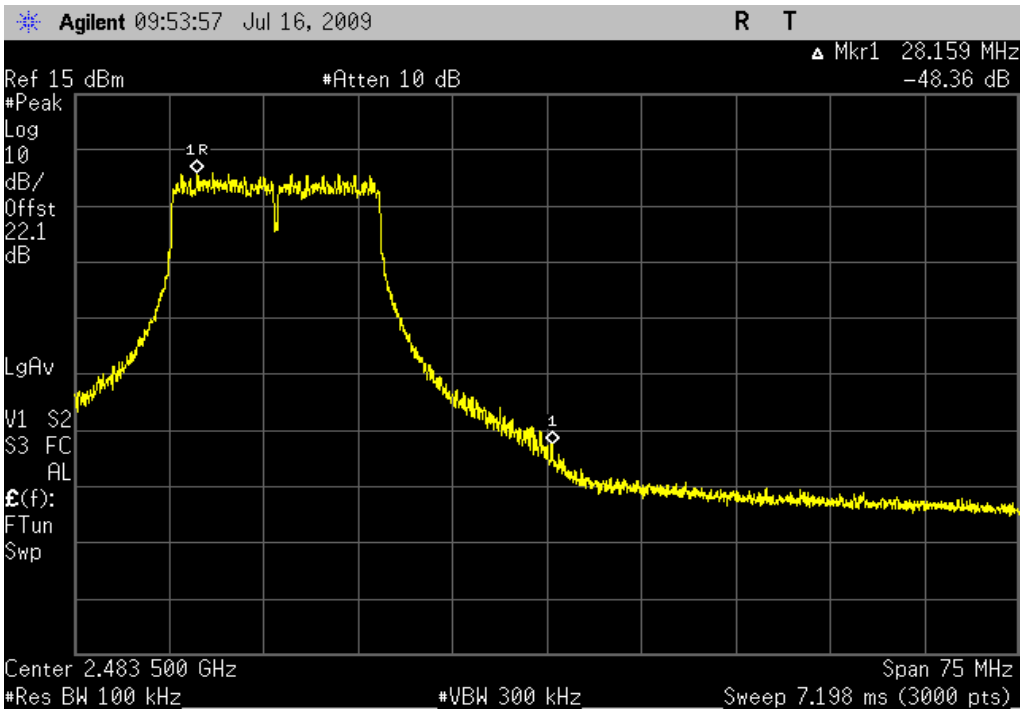


BAND EDGE COMPLIANCE

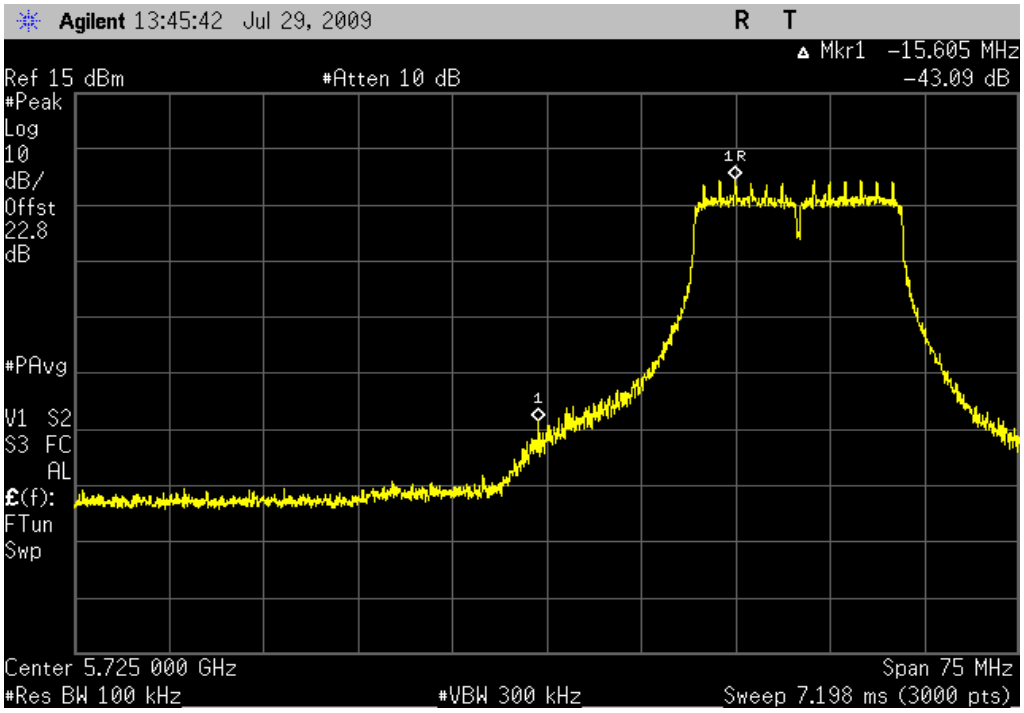
802.11(g) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	-33.0 dBc	**Limit:**	≤ -20 dBc



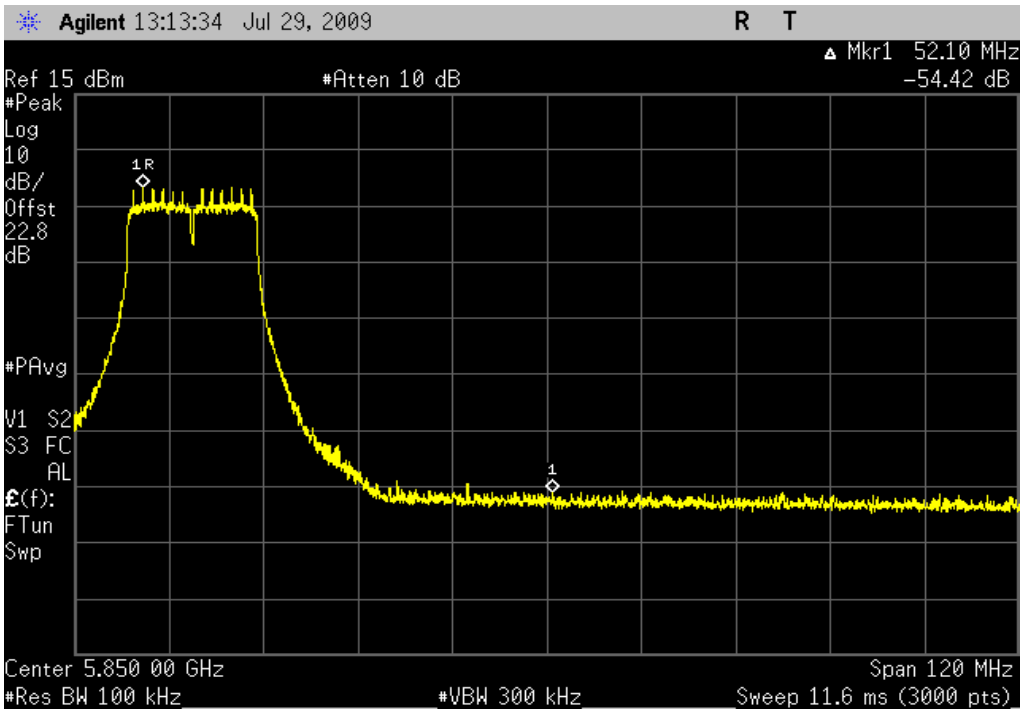
802.11(g) 54 Mbps, High Channel					
Result:	Pass	**Value:**	-48.4 dBc	**Limit:**	≤ -20 dBc



802.11(a) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	-43.1 dBc	**Limit:**	≤ -20 dBc

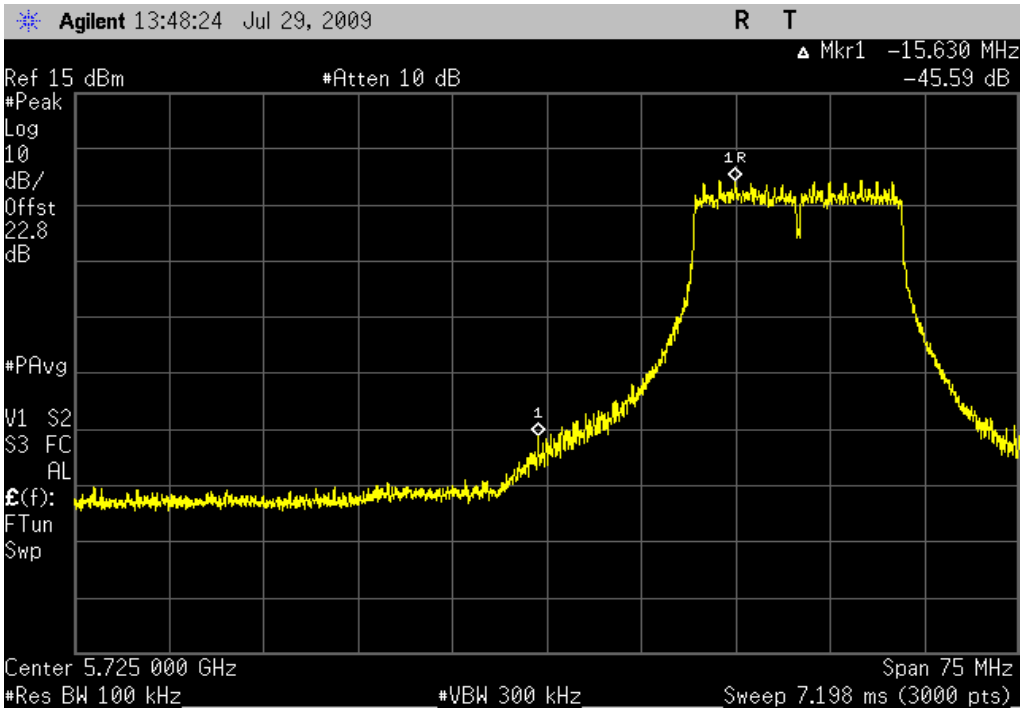


802.11(a) 6 Mbps, High Channel					
Result:	Pass	**Value:**	-54.4 dBc	**Limit:**	≤ -20 dBc

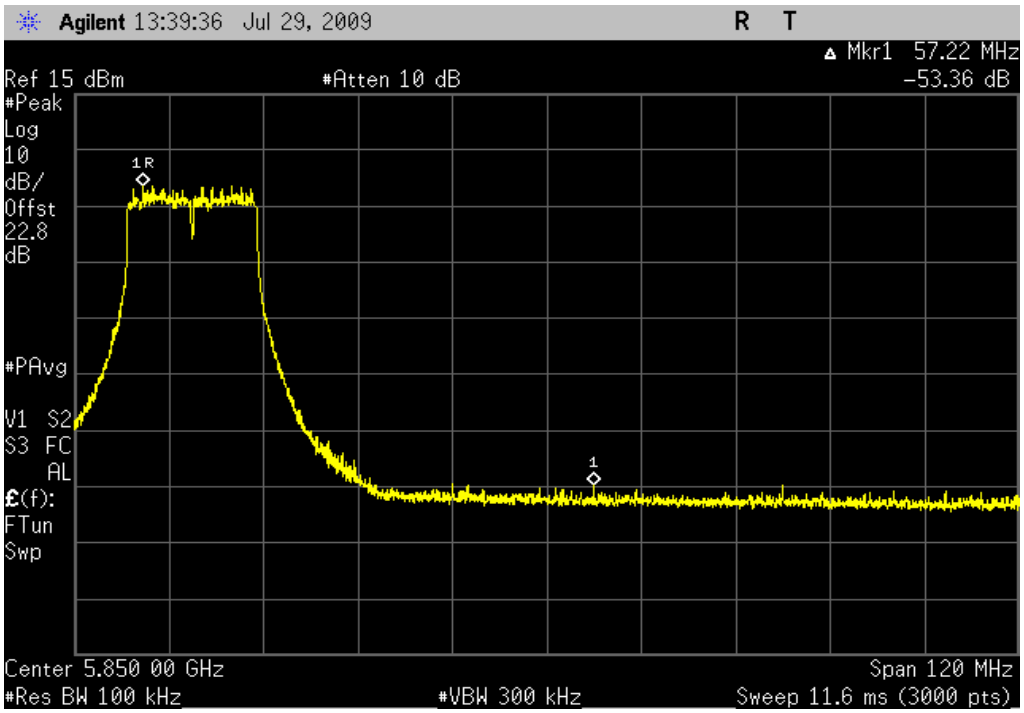


BAND EDGE COMPLIANCE

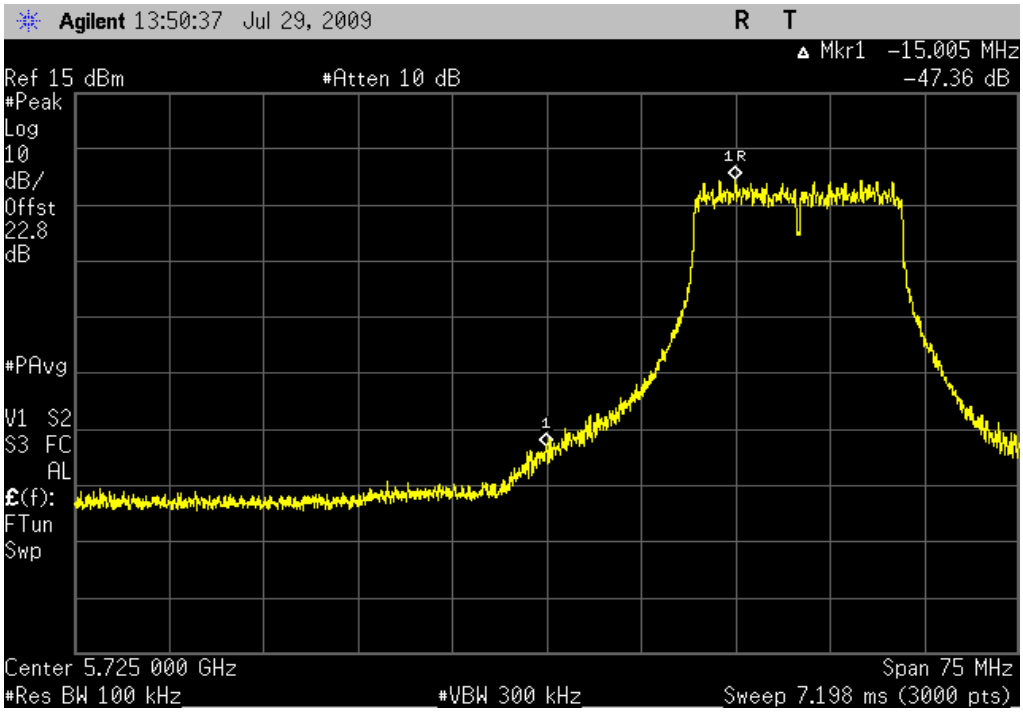
802.11(a) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	-45.6 dBc	**Limit:**	≤ -20 dBc



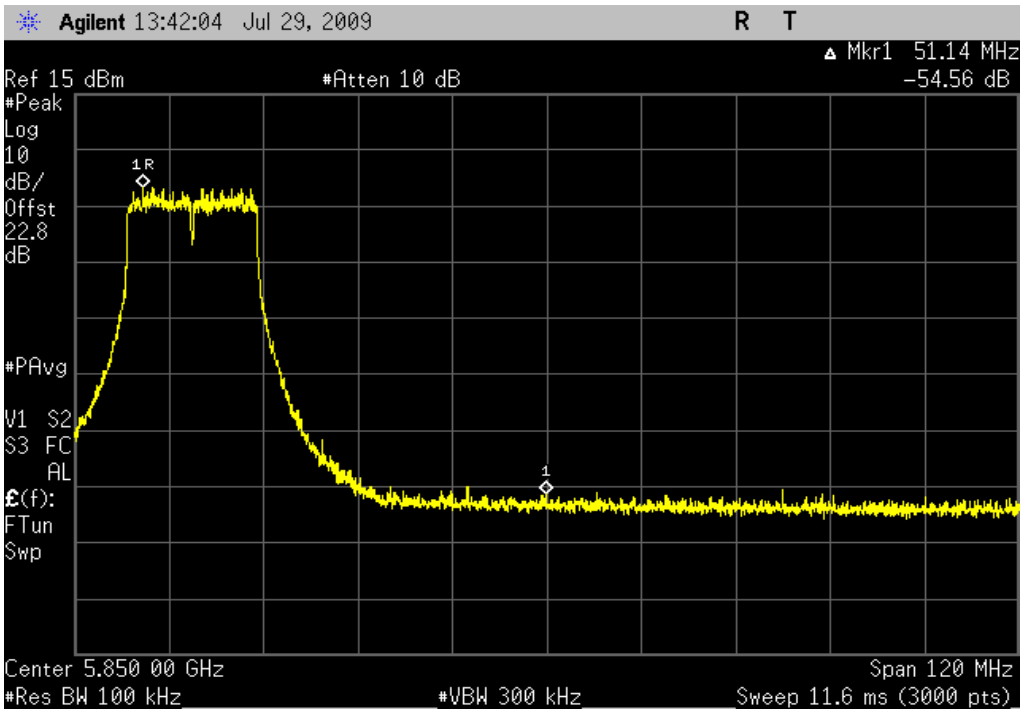
802.11(a) 36 Mbps, High Channel					
Result:	Pass	**Value:**	-53.4 dBc	**Limit:**	≤ -20 dBc



802.11(a) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	-47.4 dBc	**Limit:**	≤ -20 dBc



802.11(a) 54 Mbps, High Channel					
Result:	Pass	**Value:**	-54.6 dBc	**Limit:**	≤ -20 dBc



BAND EDGE COMPLIANCE

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
Spectrum Analyzer	Agilent	E4446A	AAY	12/11/2008	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	13

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are 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.

NORTHWEST EMC

SPURIOUS CONDUCTED EMISSIONS

XMit 2009.03.05

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	07/30/09
Customer:	Intermec Technologies Corporation	Temperature:	24.0°C
Attendees:	None	Humidity:	46%
Project:	None	Barometric Pres.:	29.76 in
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

EEPROM Power settings provided by customer in emails of 7-13-09 and 7-20-09.

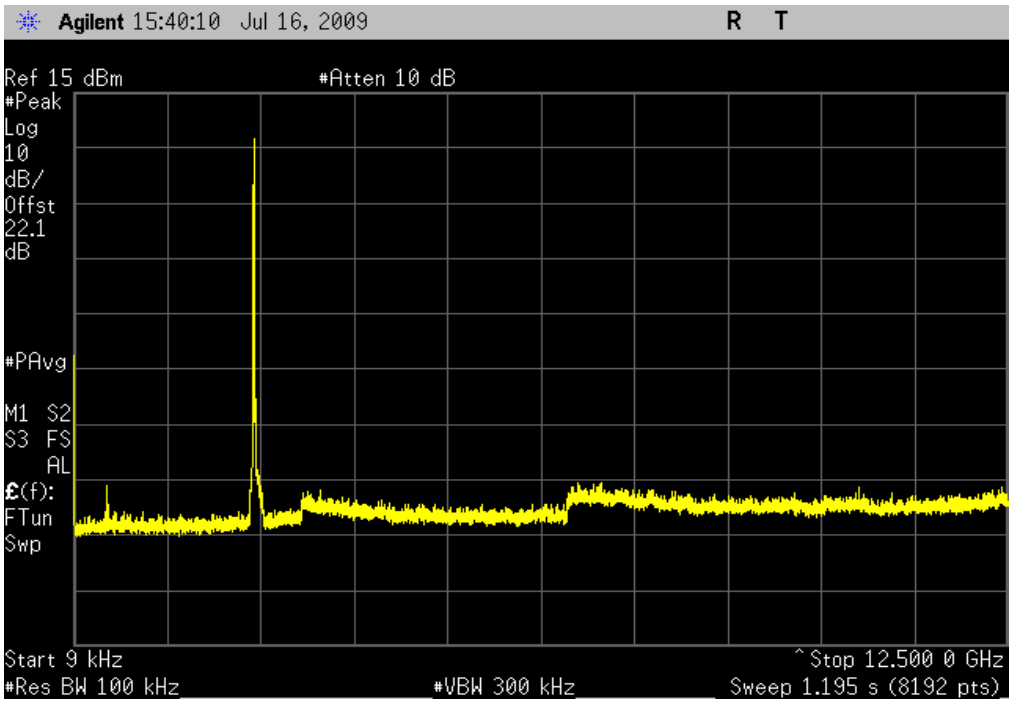
DEVIATIONS FROM TEST STANDARD

No deviations

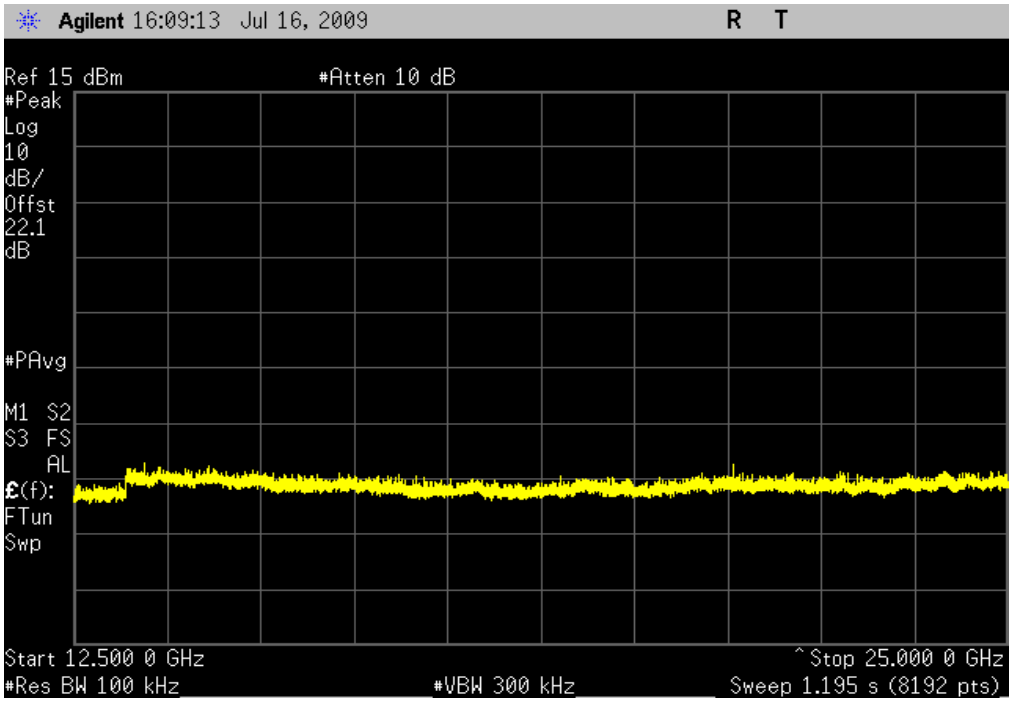
Configuration #	1	Signature

		Value	Limit	Results
802.11(b) 1 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(a) 6 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
	Low Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	Mid Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass
	High Channel			
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	12.5 GHz - 26.5 GHz	< -40 dBc	≤ -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	≤ -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	≤ -20 dBc	Pass

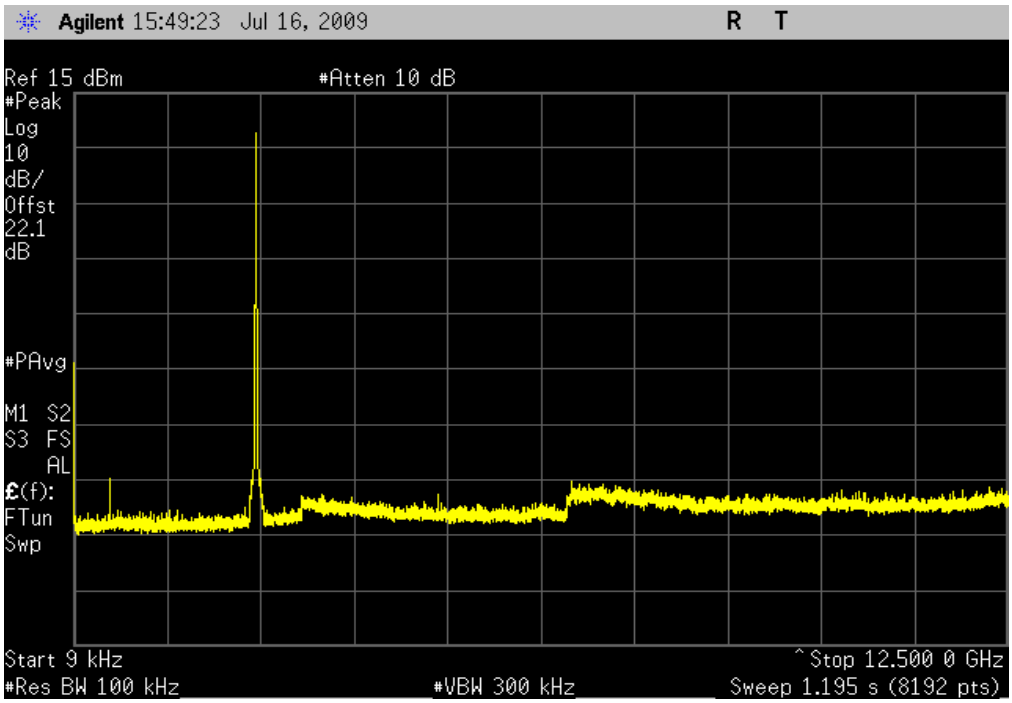
802.11(b) 1 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



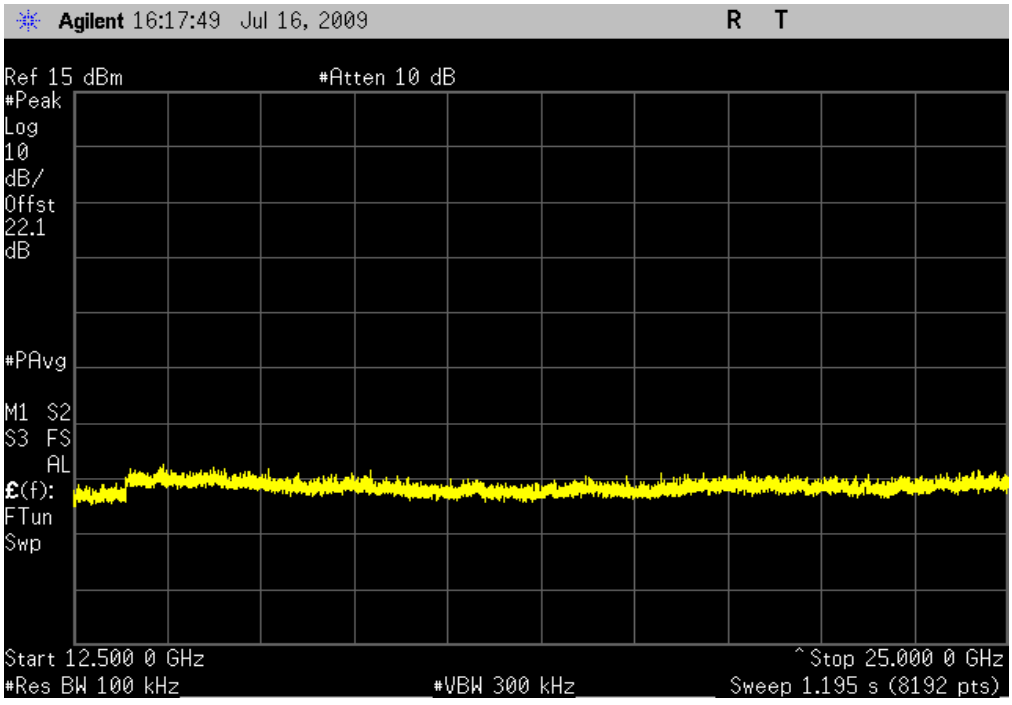
802.11(b) 1 Mbps, Low Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



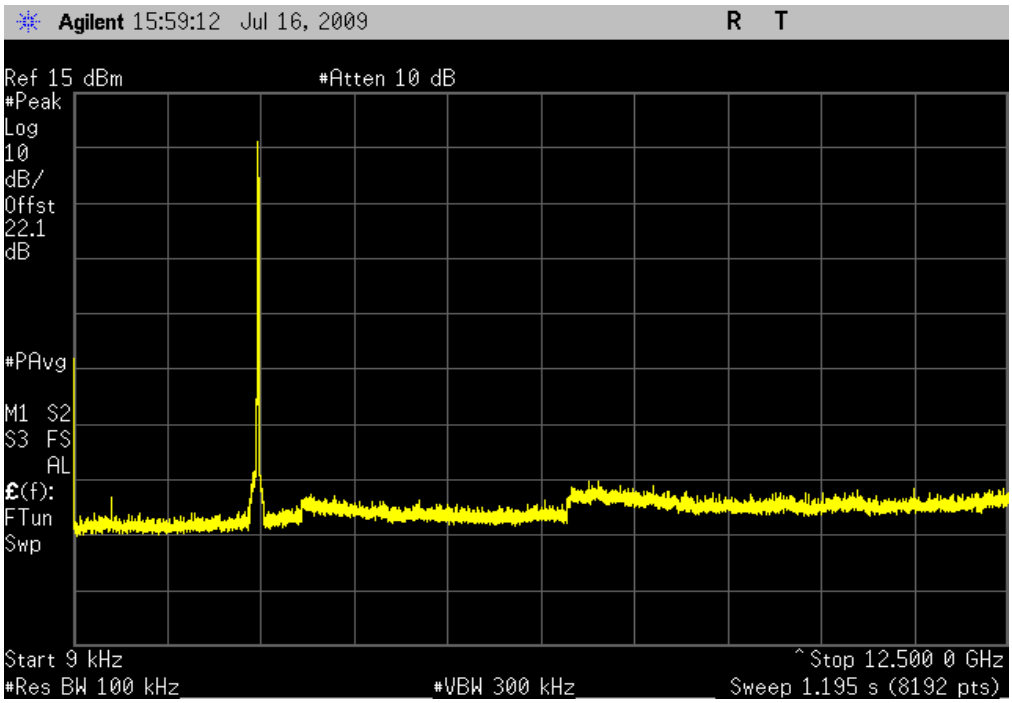
802.11(b) 1 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



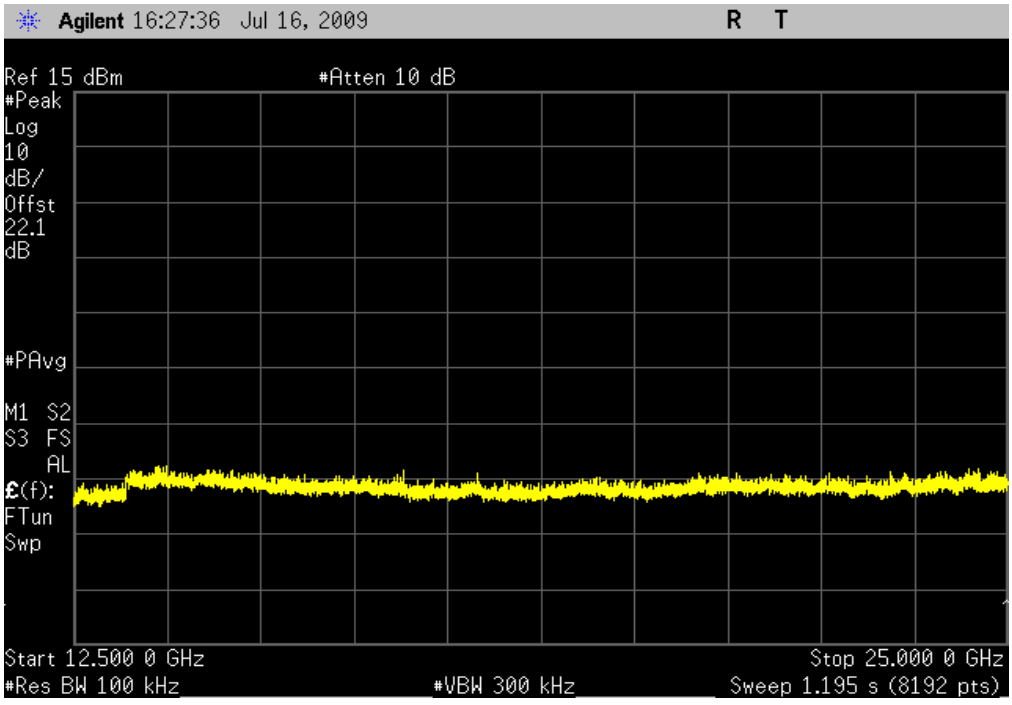
802.11(b) 1 Mbps, Mid Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



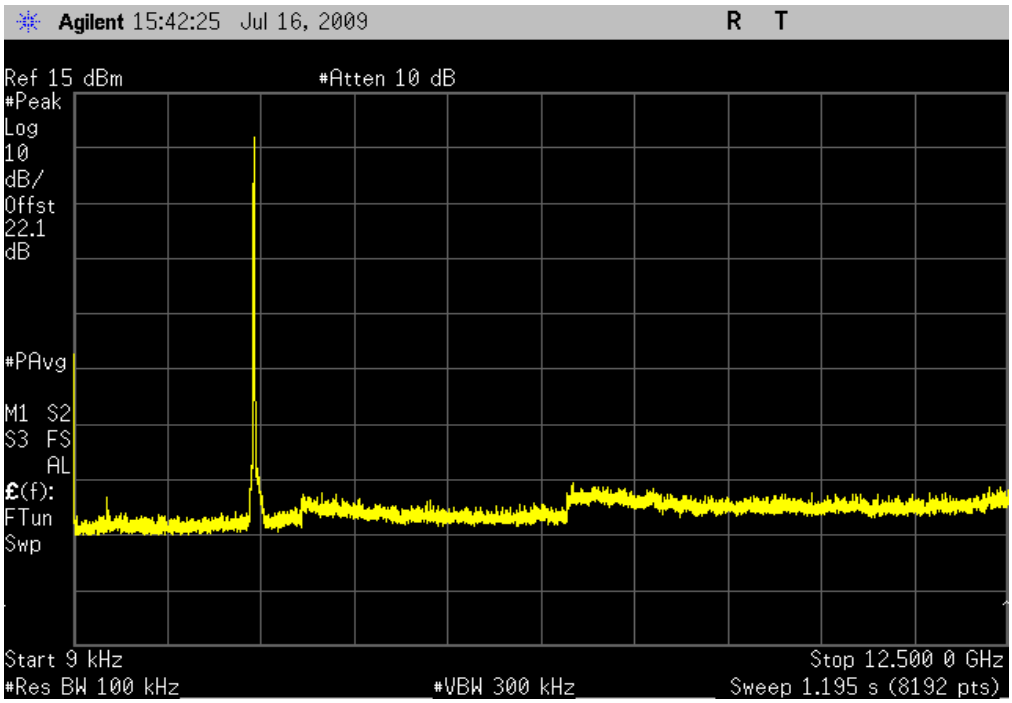
802.11(b) 1 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



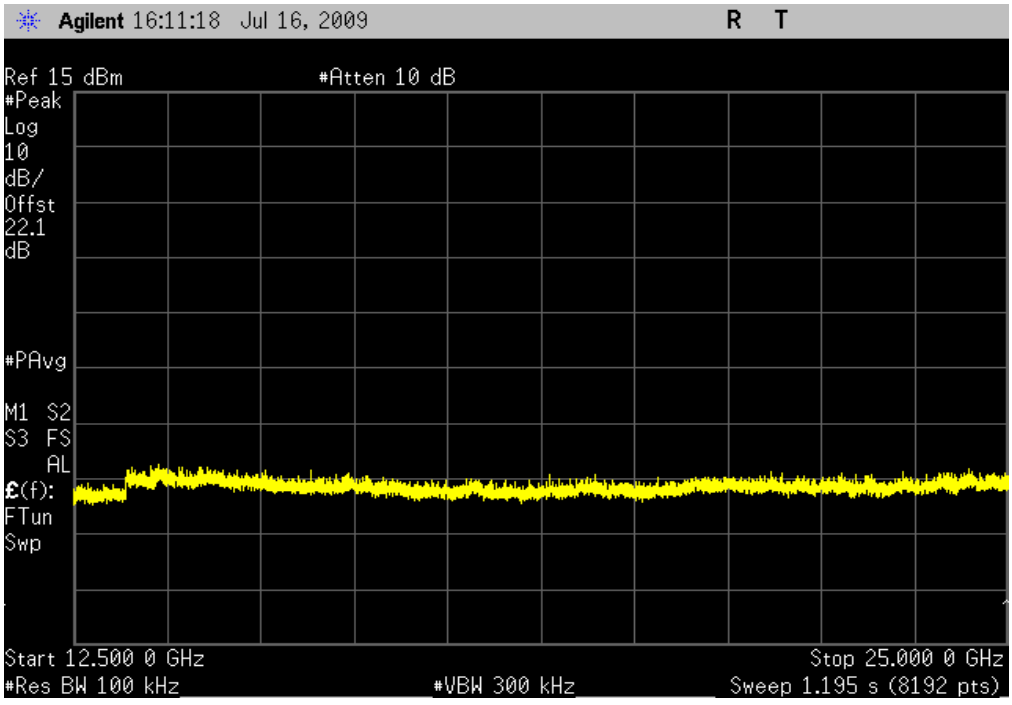
802.11(b) 1 Mbps, High Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



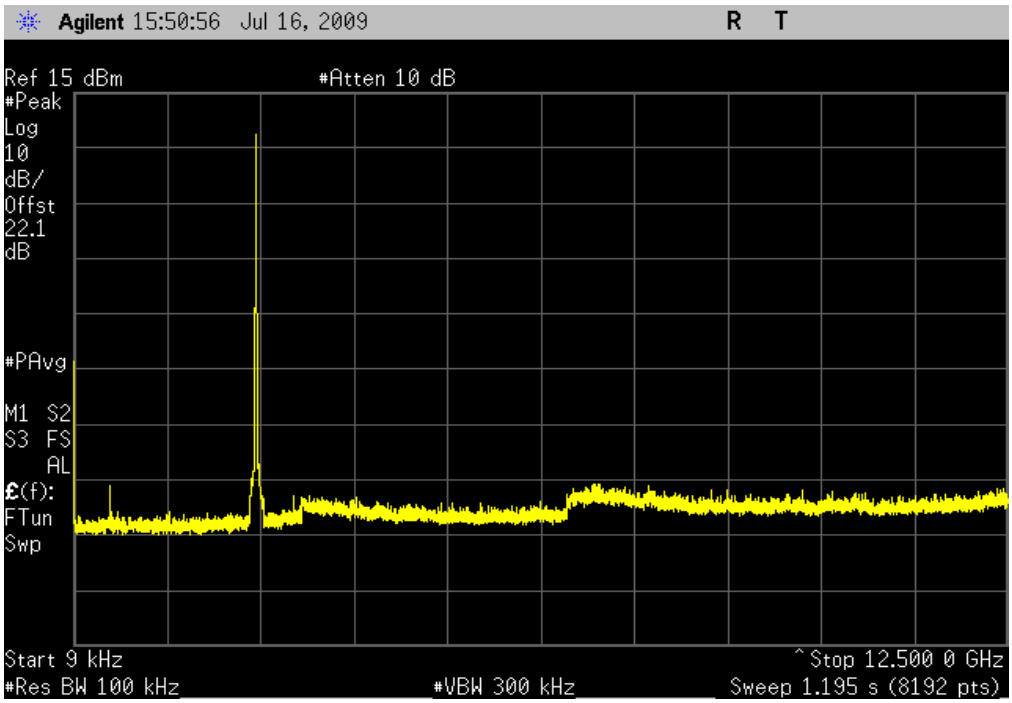
802.11(b) 11 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



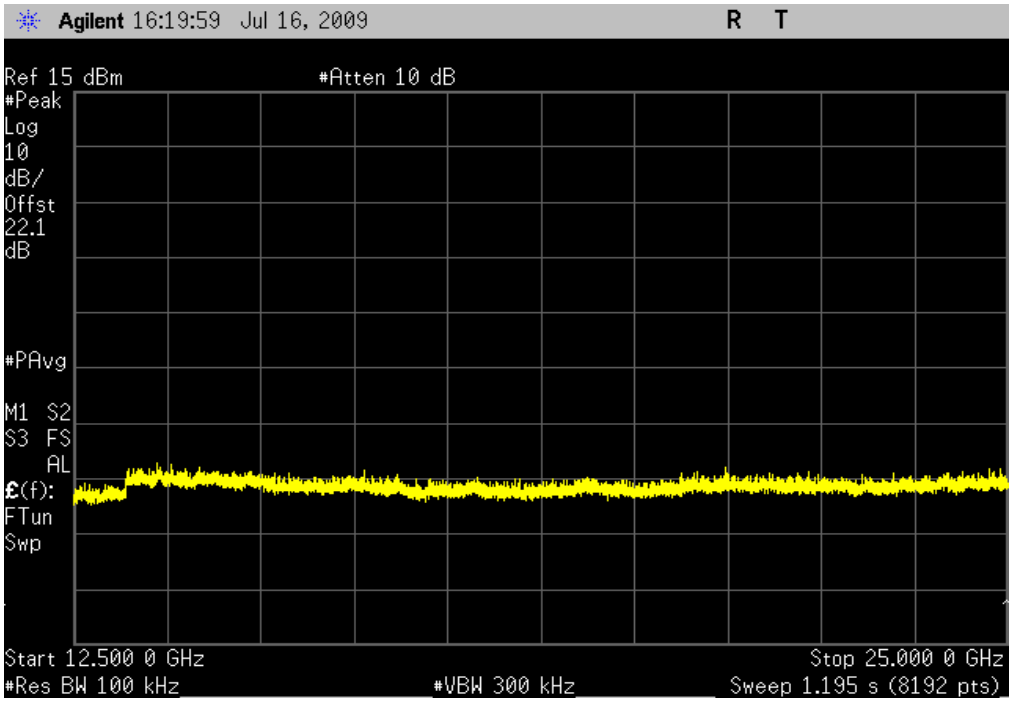
802.11(b) 11 Mbps, Low Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



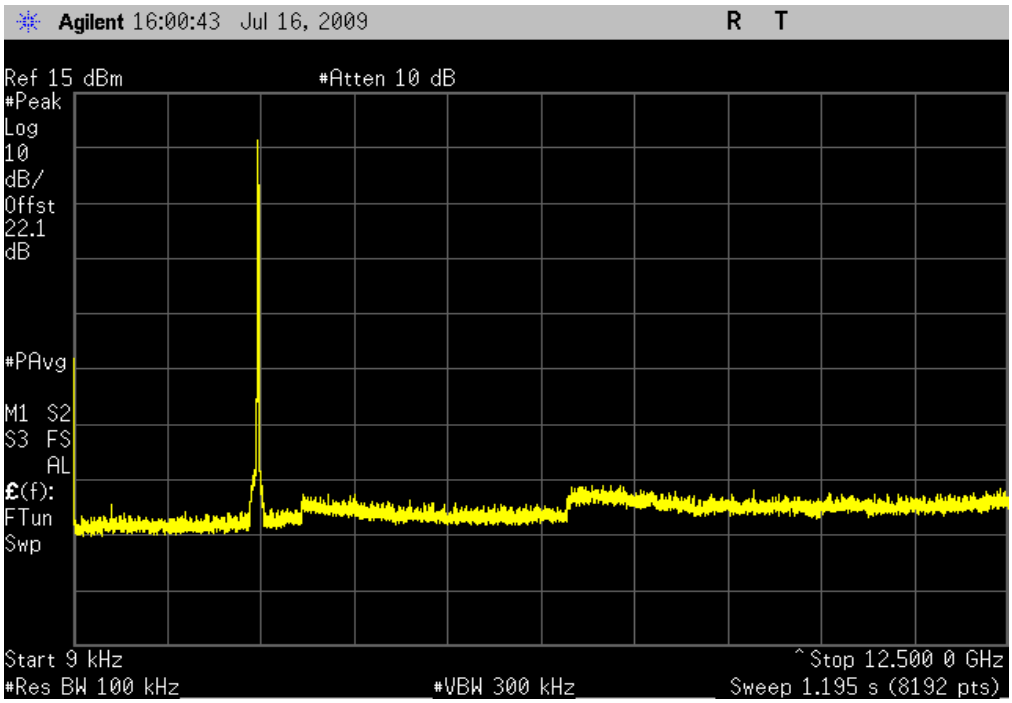
802.11(b) 11 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



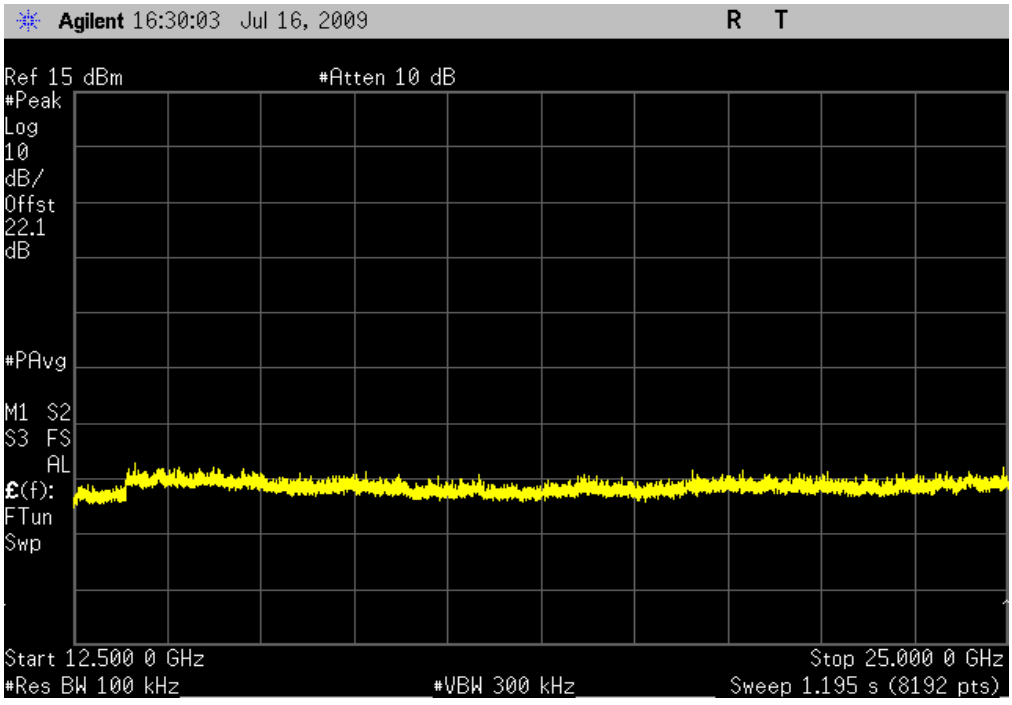
802.11(b) 11 Mbps, Mid Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



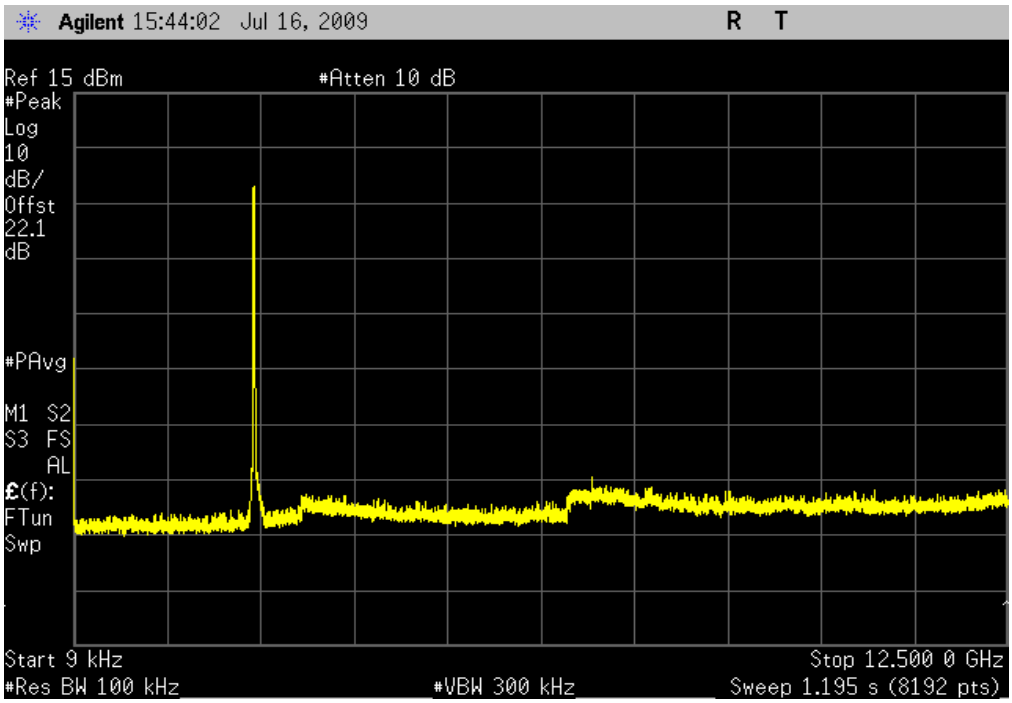
802.11(b) 11 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



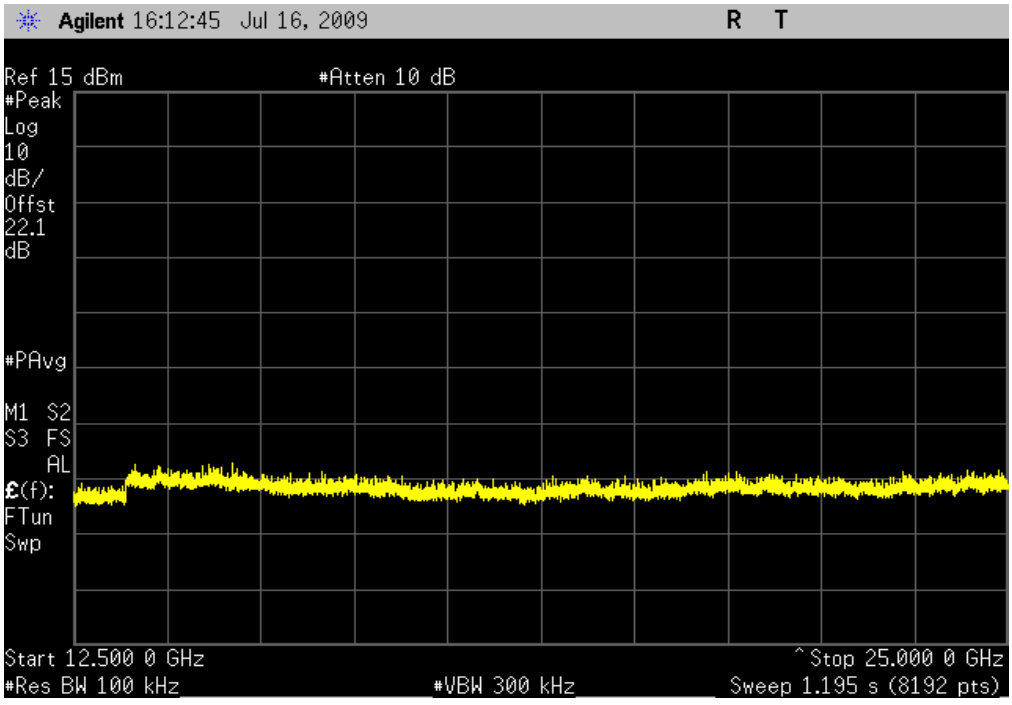
802.11(b) 11 Mbps, High Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



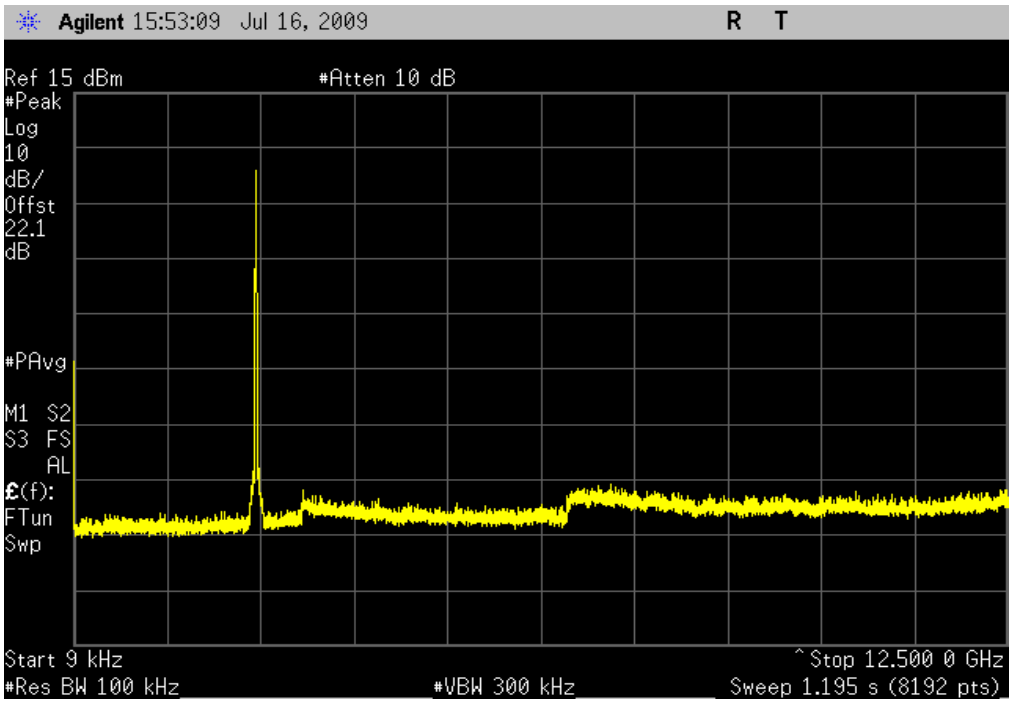
802.11(g) 6 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



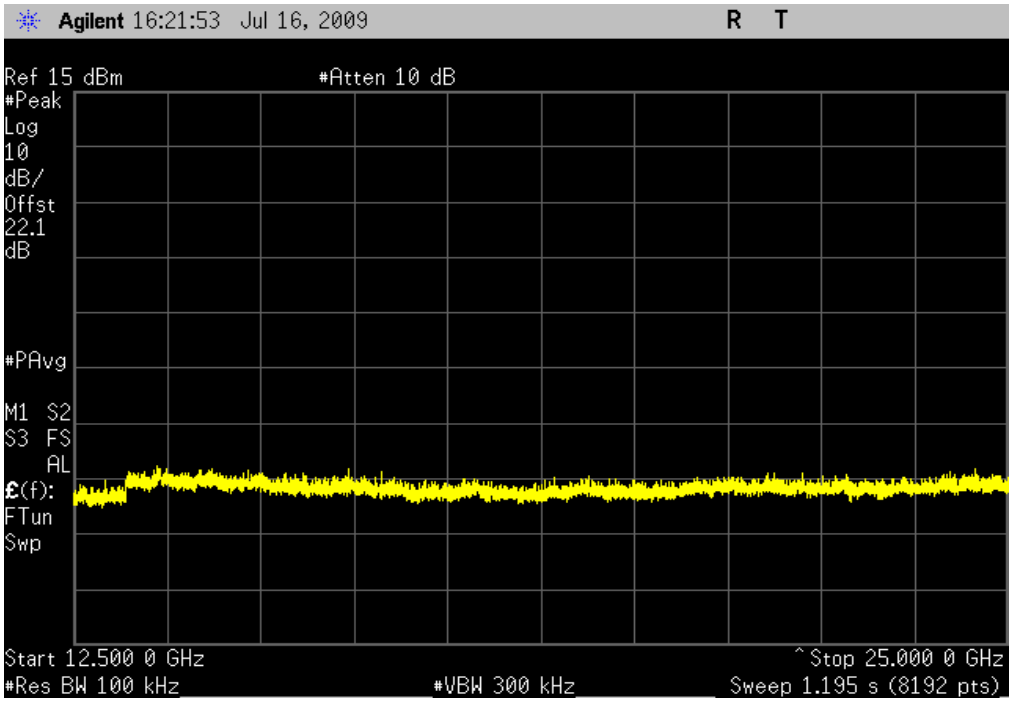
802.11(g) 6 Mbps, Low Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



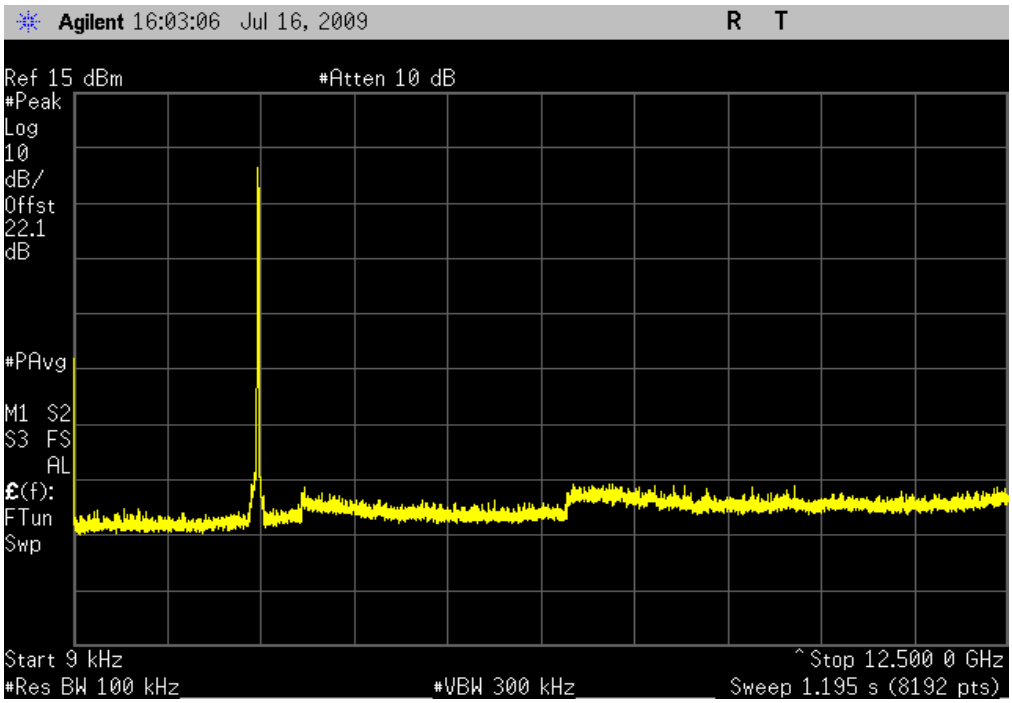
802.11(g) 6 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



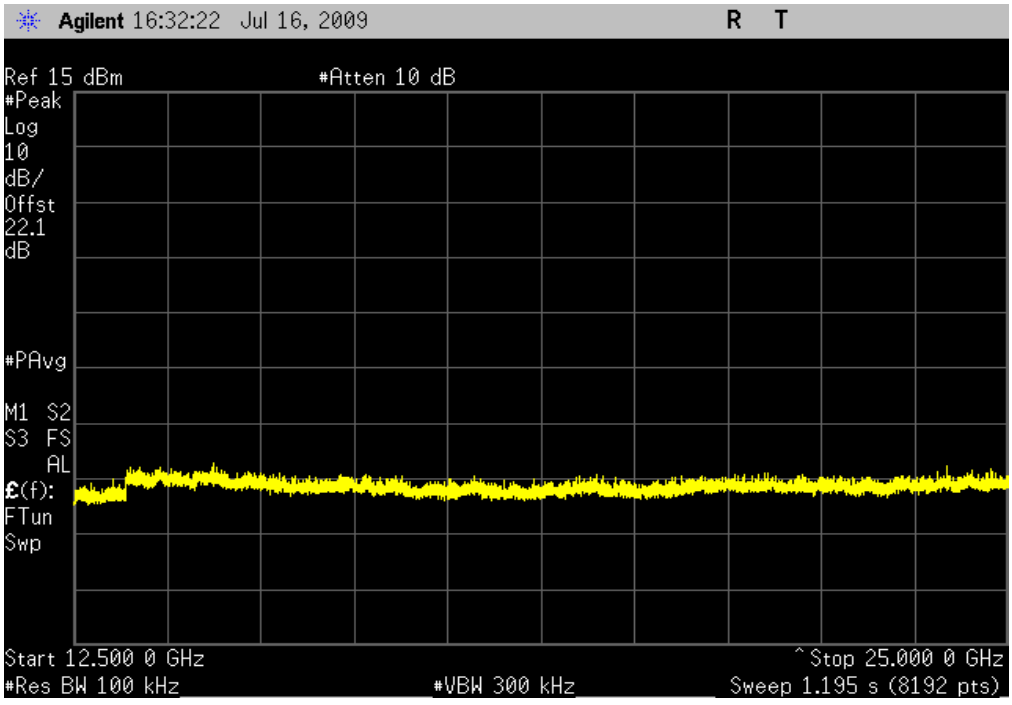
802.11(g) 6 Mbps, Mid Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



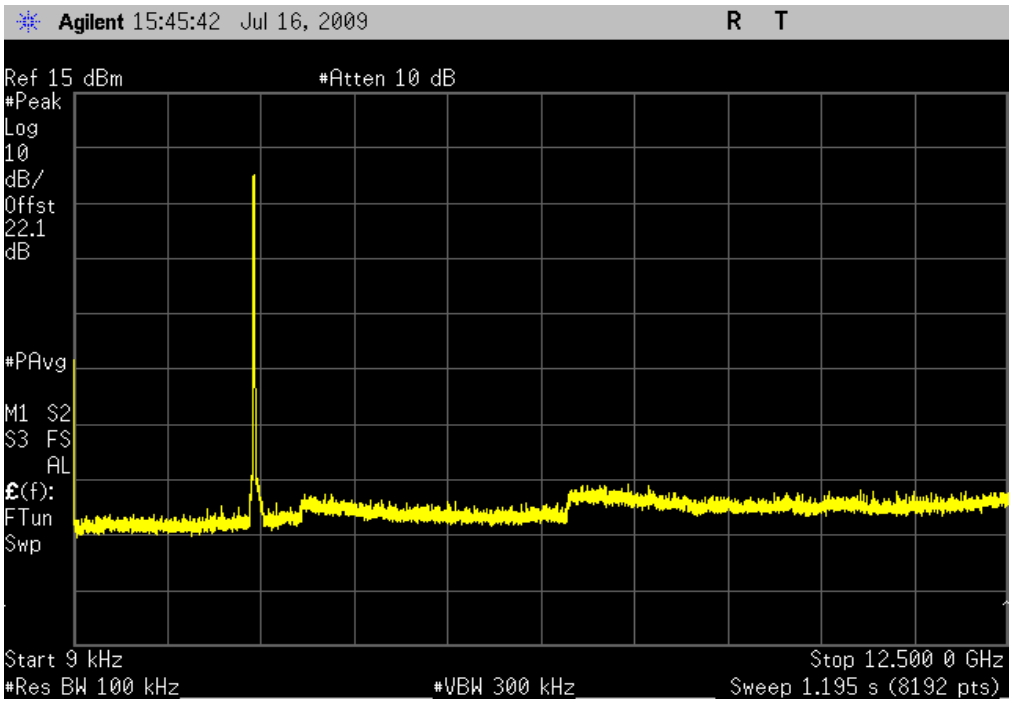
802.11(g) 6 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



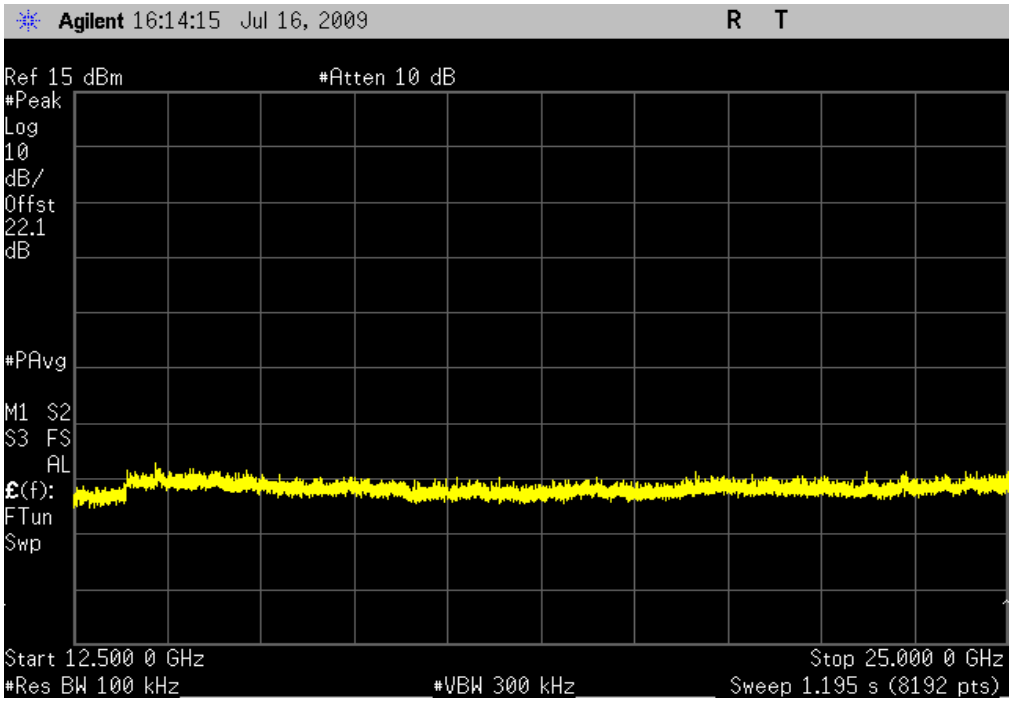
802.11(g) 6 Mbps, High Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



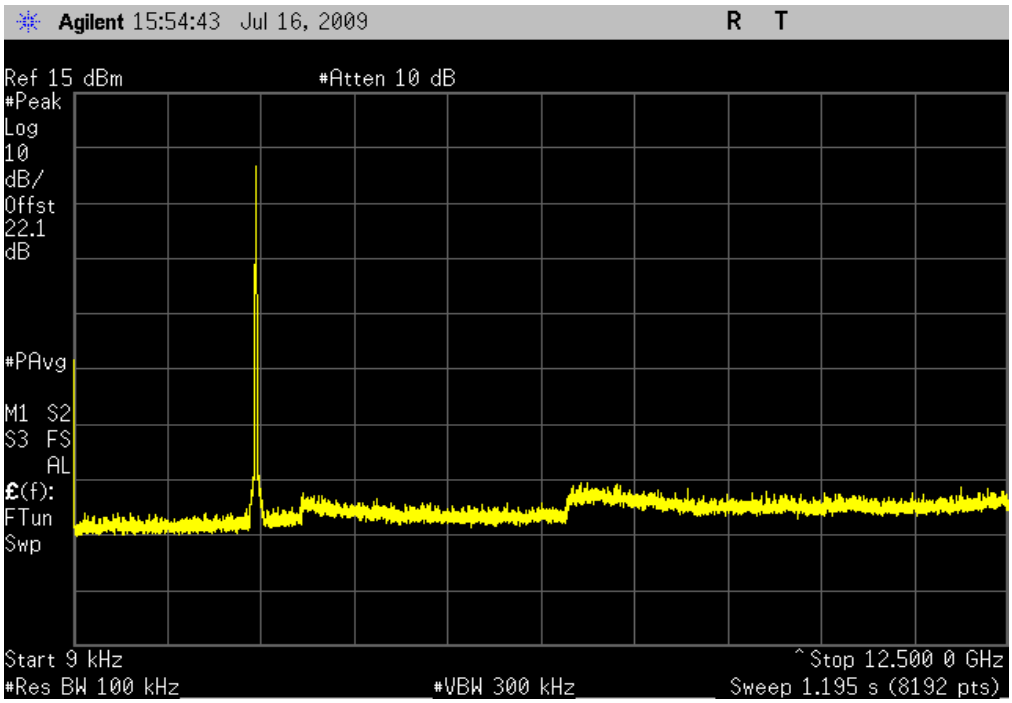
802.11(g) 36 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



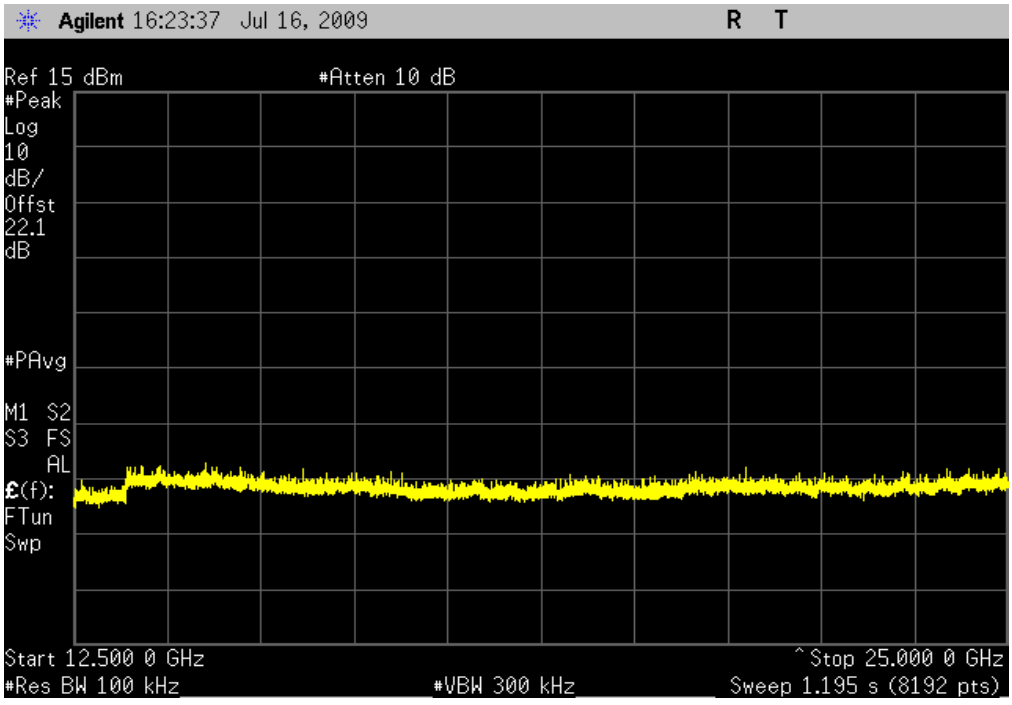
802.11(g) 36 Mbps, Low Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



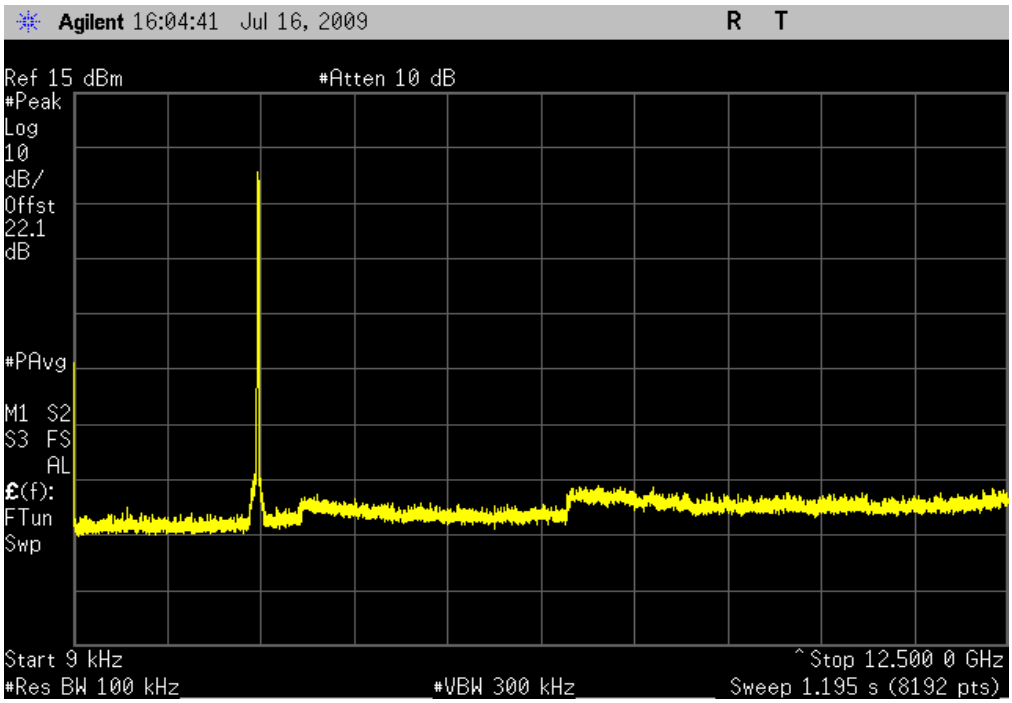
802.11(g) 36 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



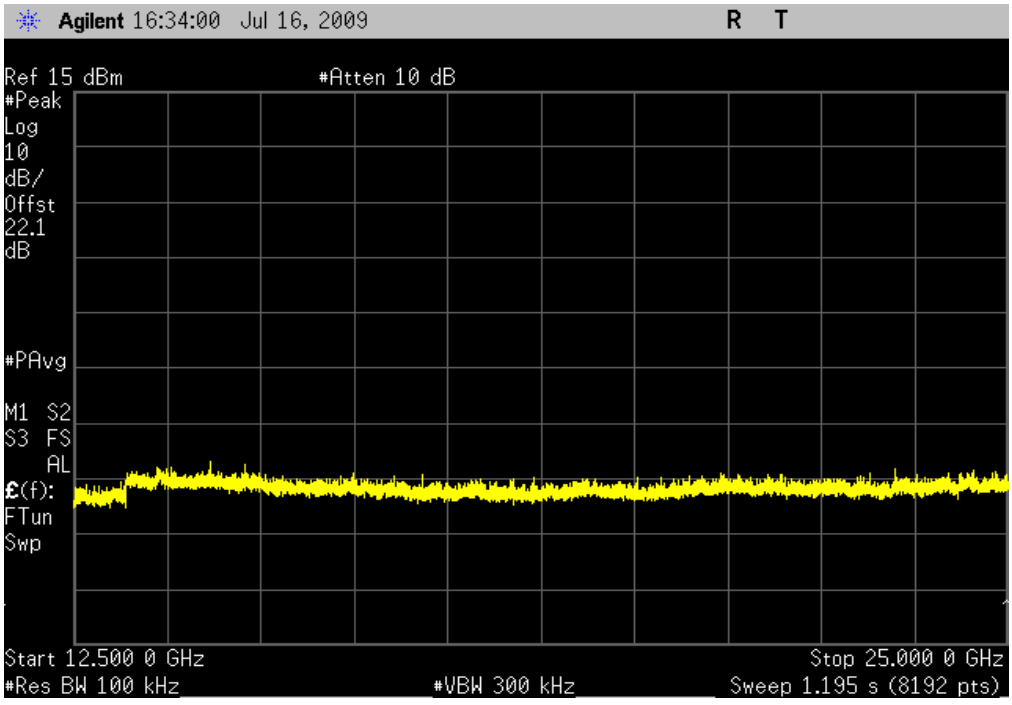
802.11(g) 36 Mbps, Mid Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



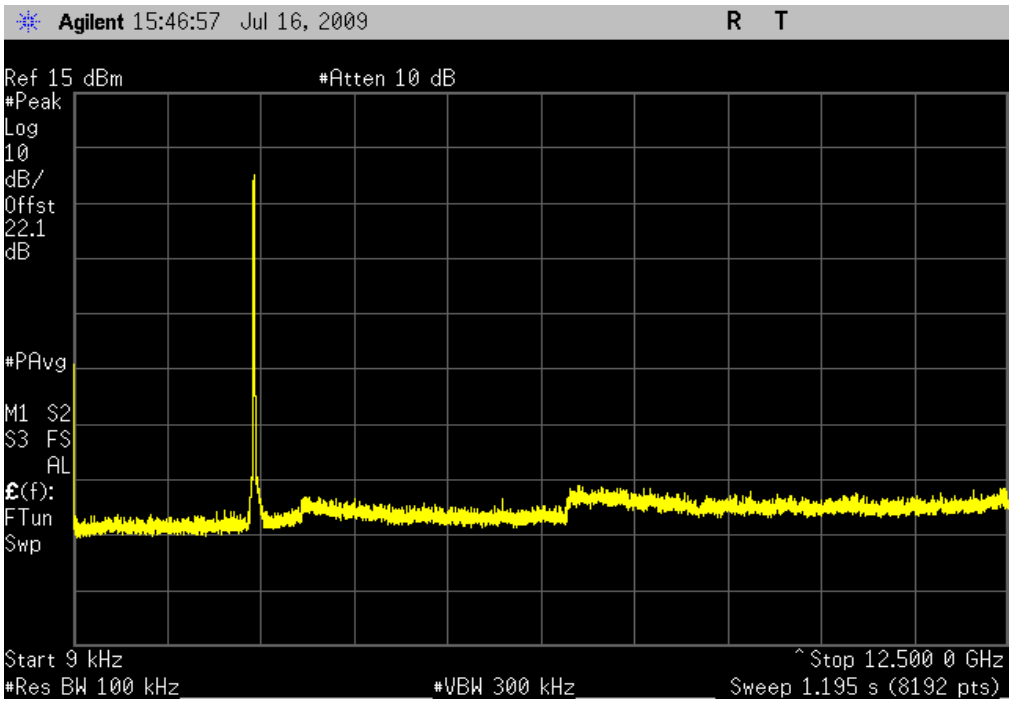
802.11(g) 36 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



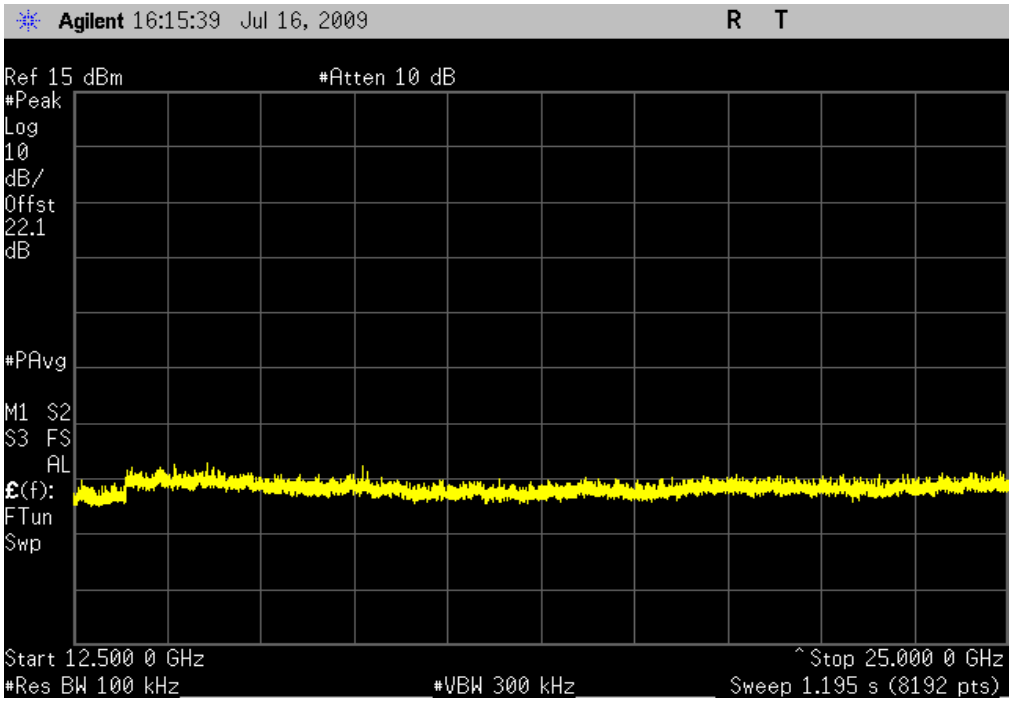
802.11(g) 36 Mbps, High Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



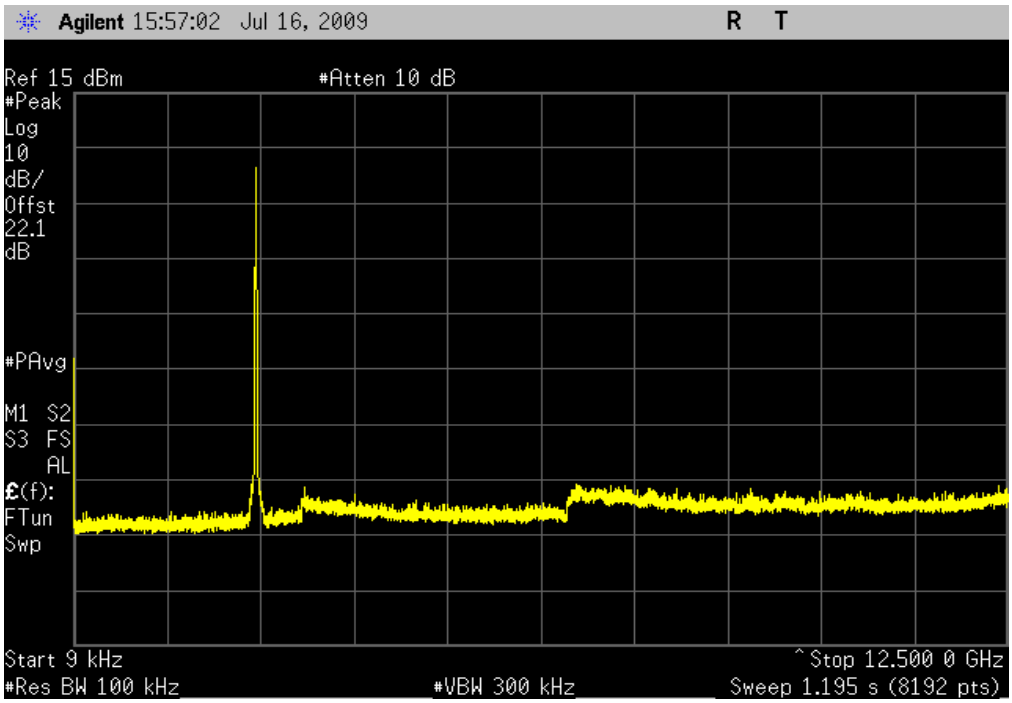
802.11(g) 54 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



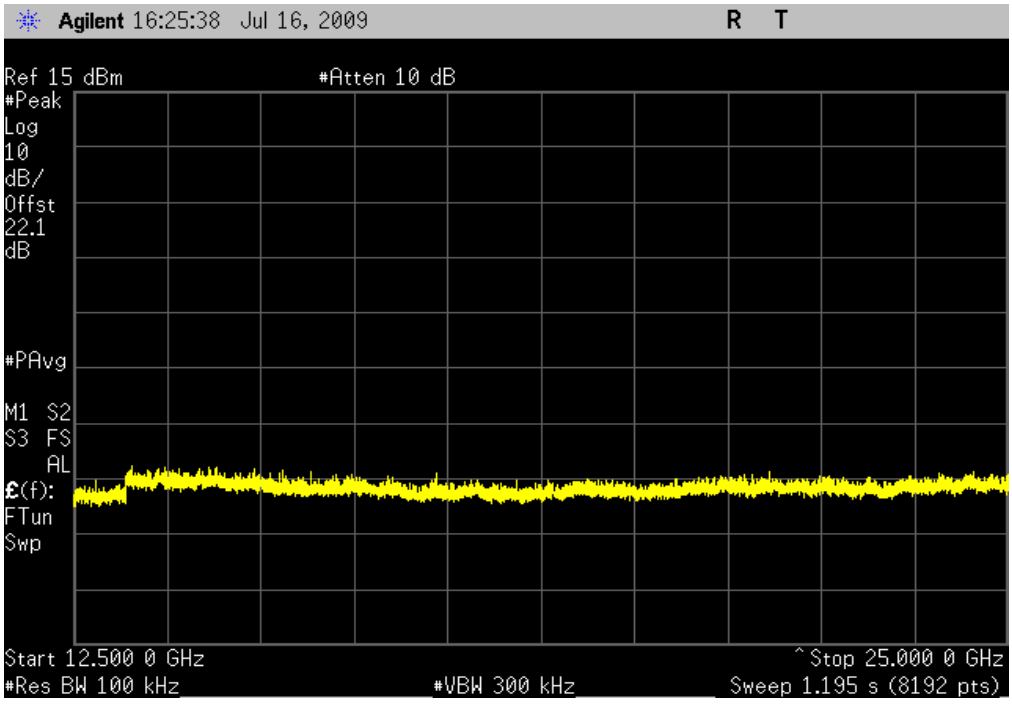
802.11(g) 54 Mbps, Low Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



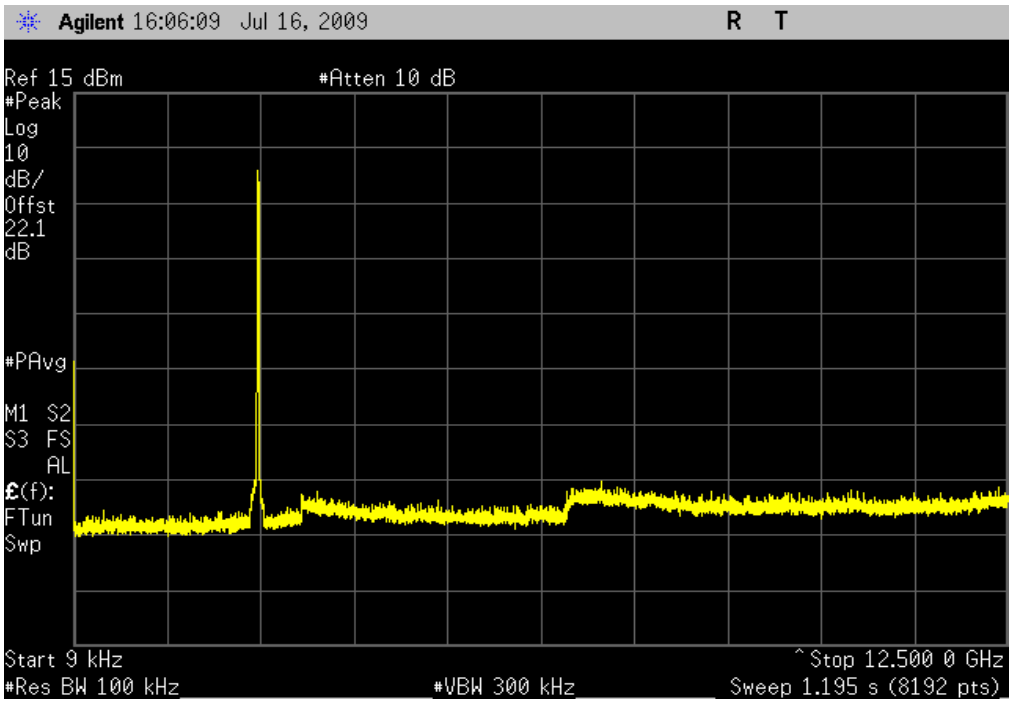
802.11(g) 54 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



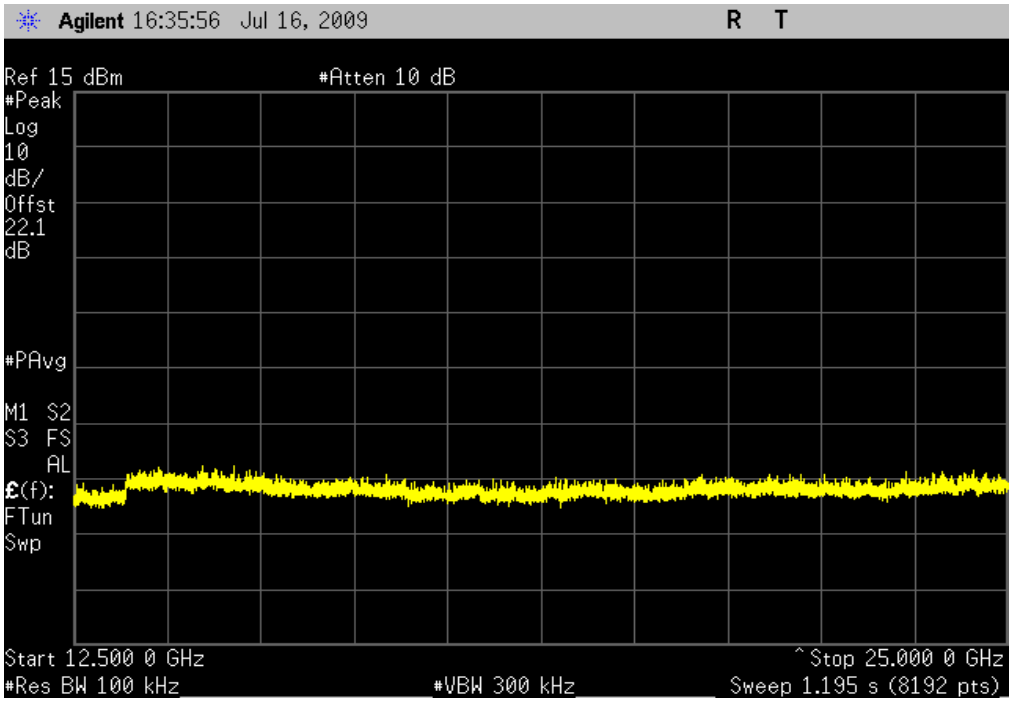
802.11(g) 54 Mbps, Mid Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



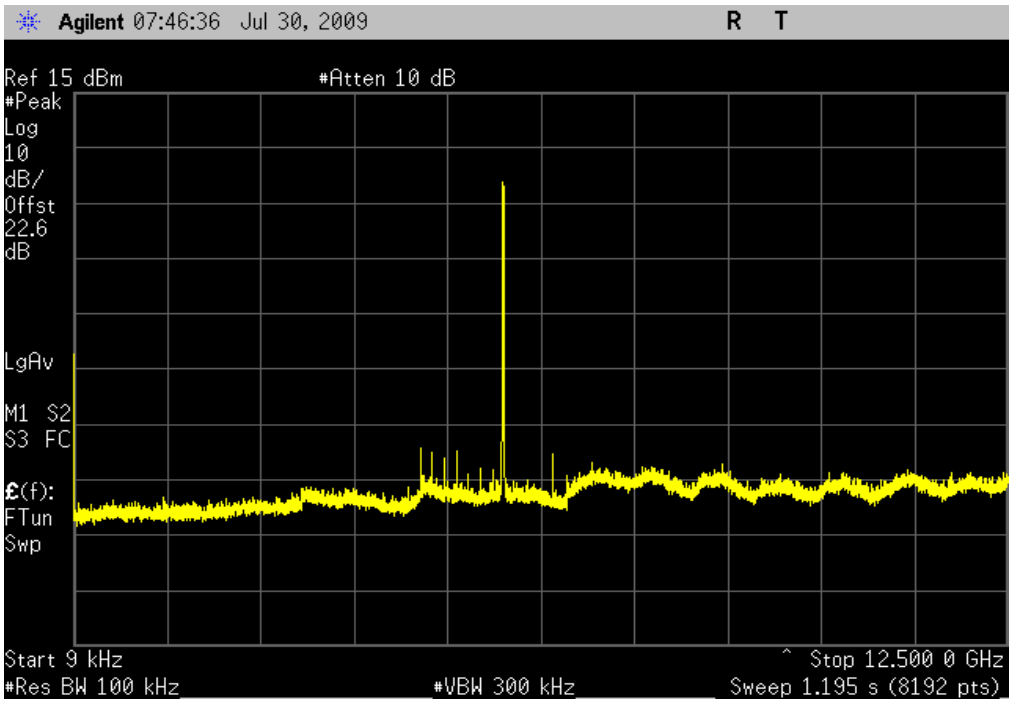
802.11(g) 54 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



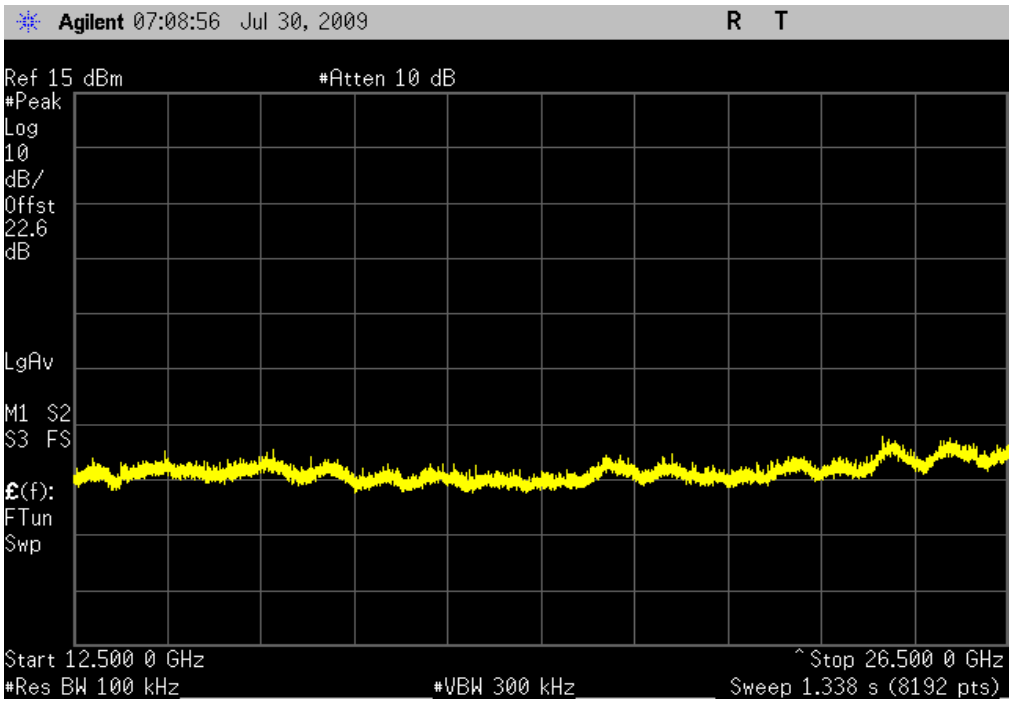
802.11(g) 54 Mbps, High Channel, 12.5 GHz - 25 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



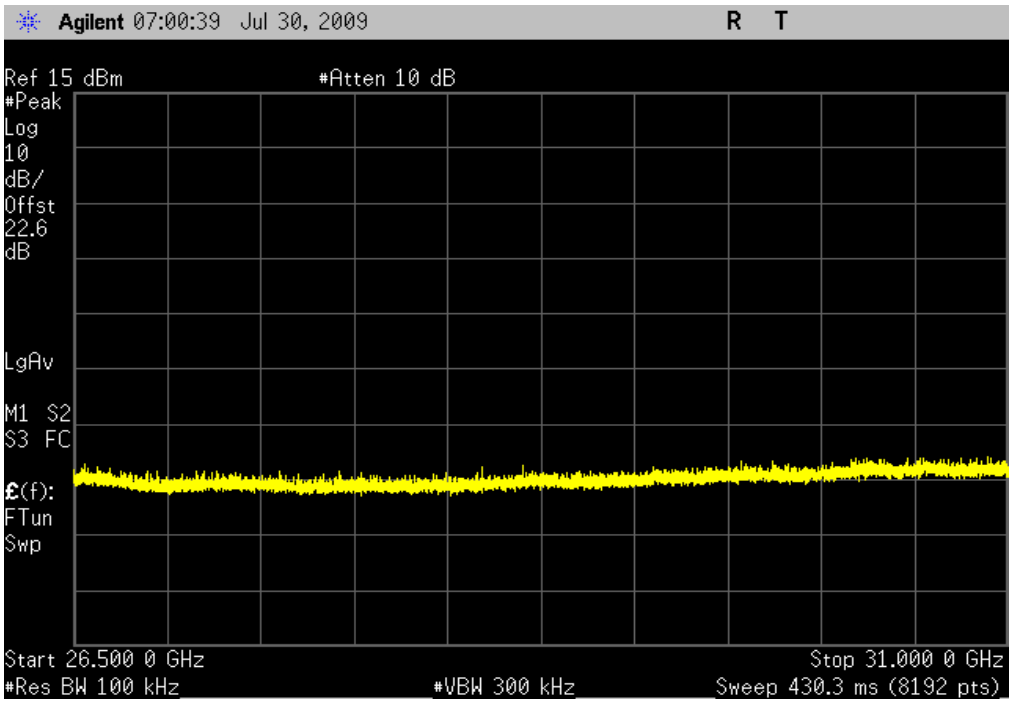
802.11(a) 6 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



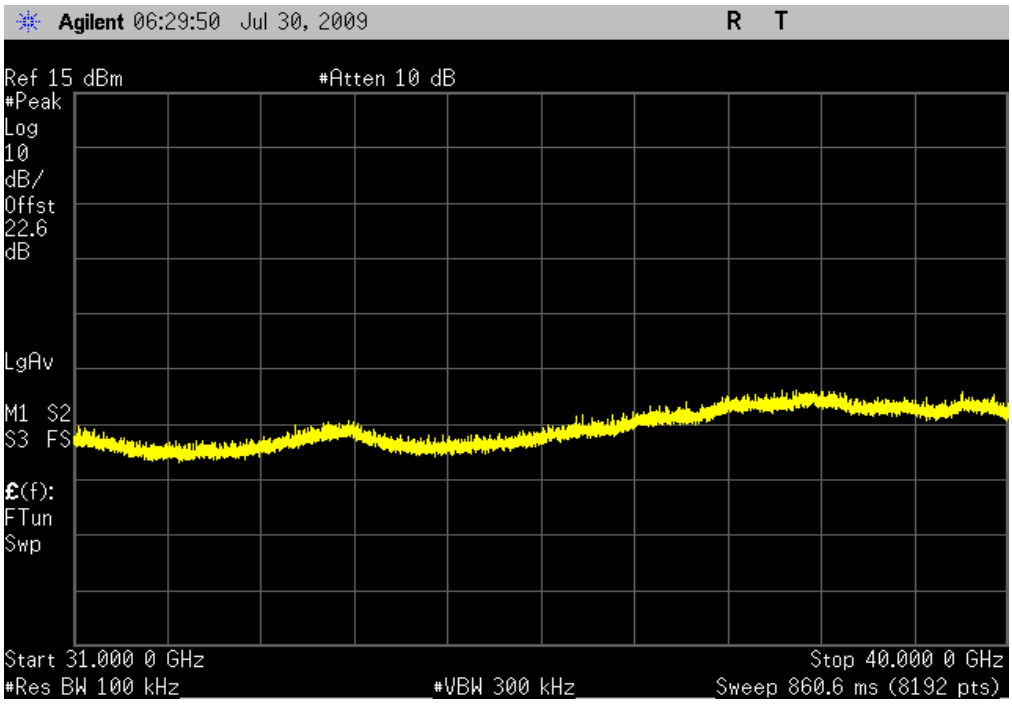
802.11(a) 6 Mbps, Low Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



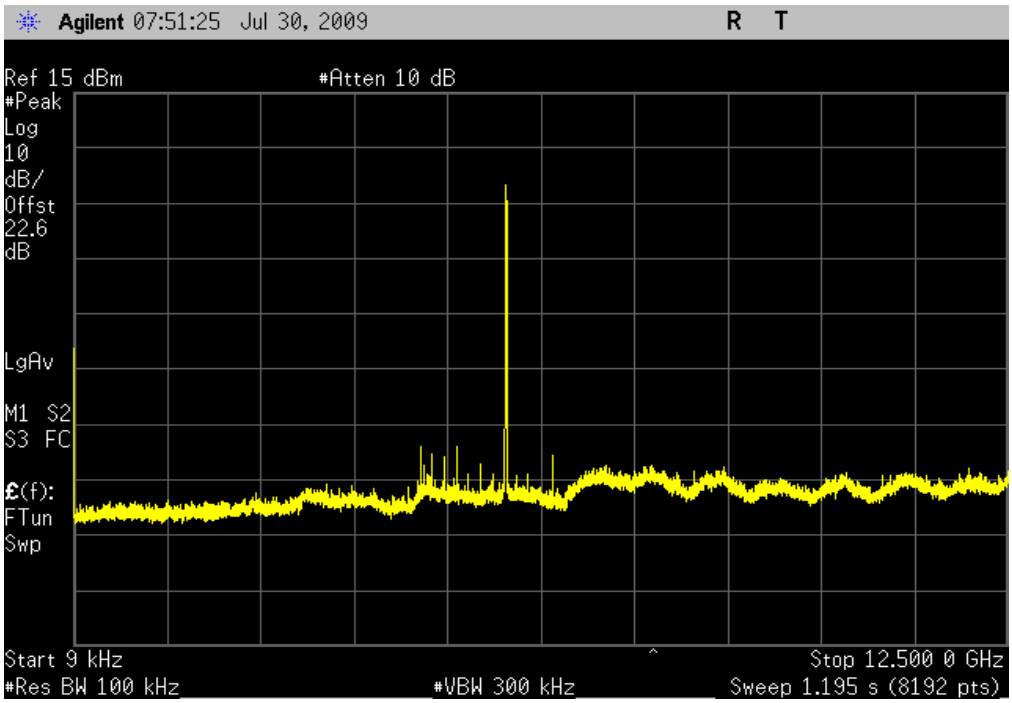
802.11(a) 6 Mbps, Low Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



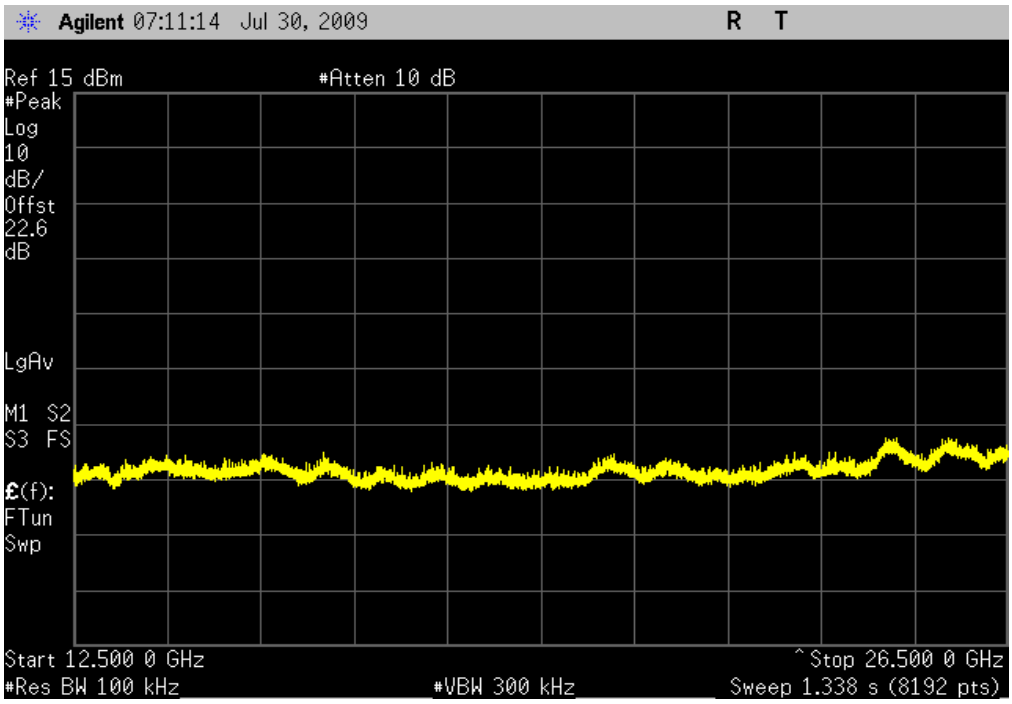
802.11(a) 6 Mbps, Low Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



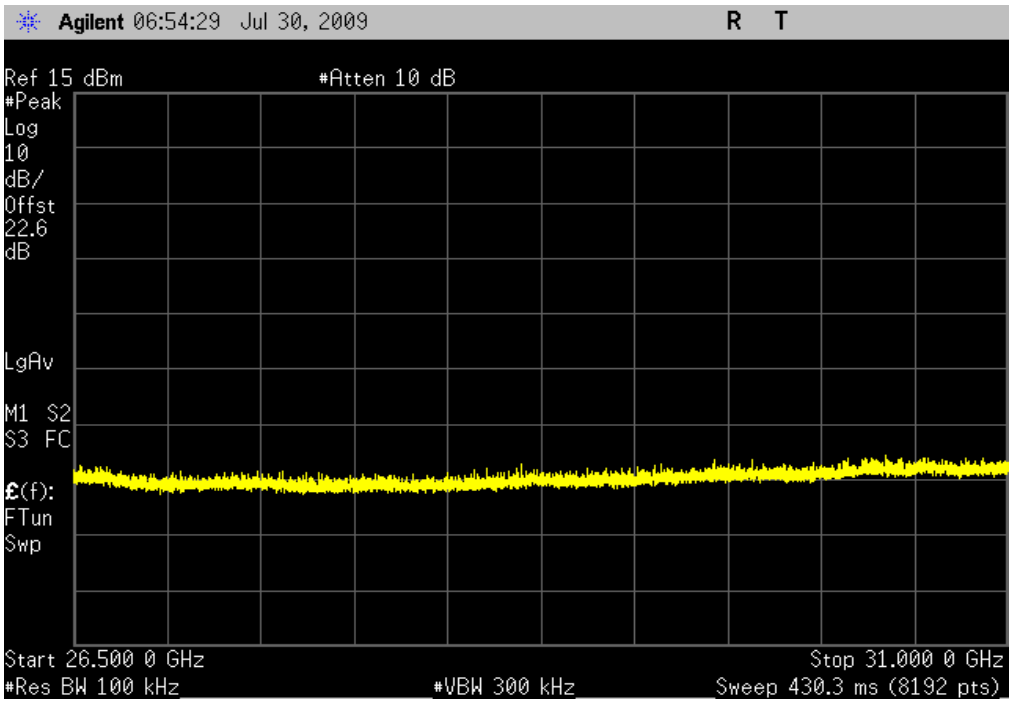
802.11(a) 6 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



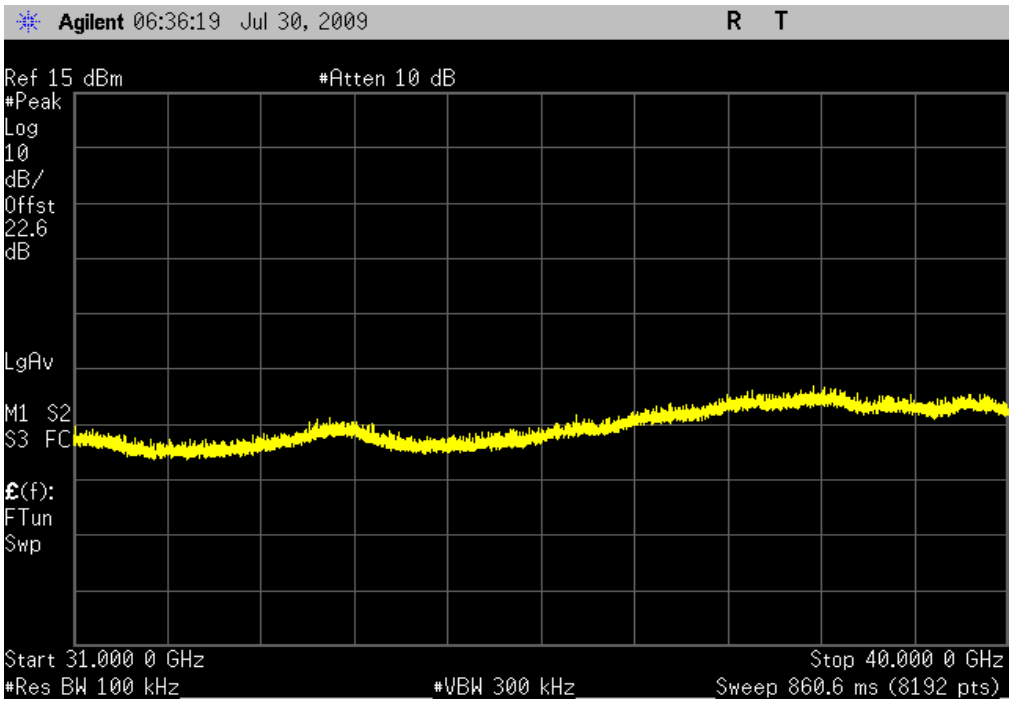
802.11(a) 6 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



802.11(a) 6 Mbps, Mid Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc

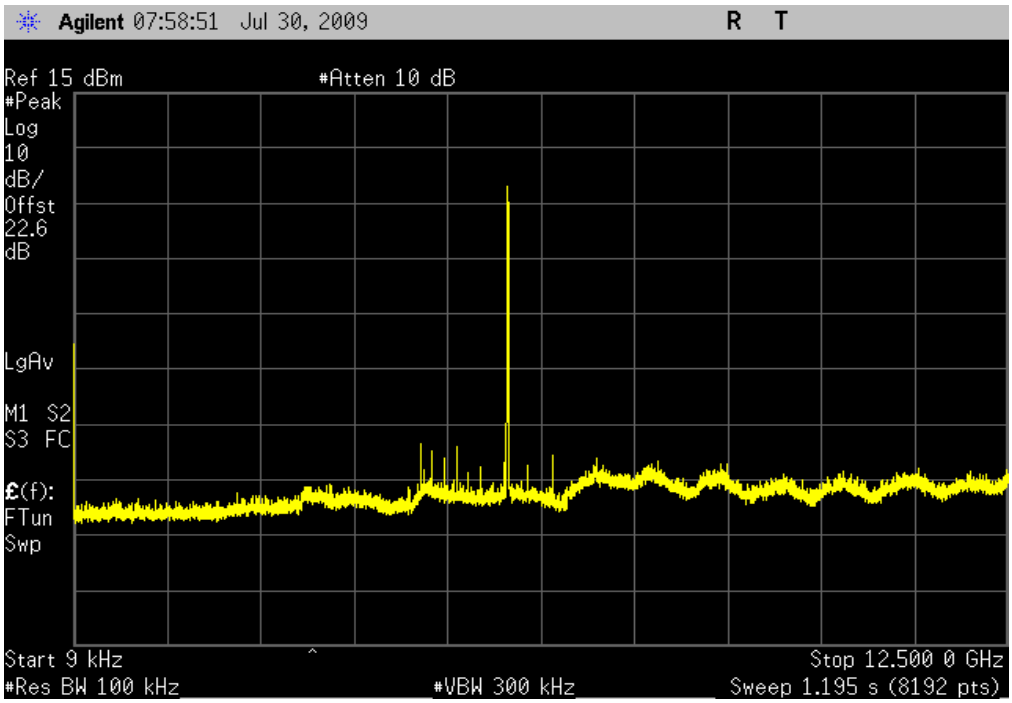


802.11(a) 6 Mbps, Mid Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc

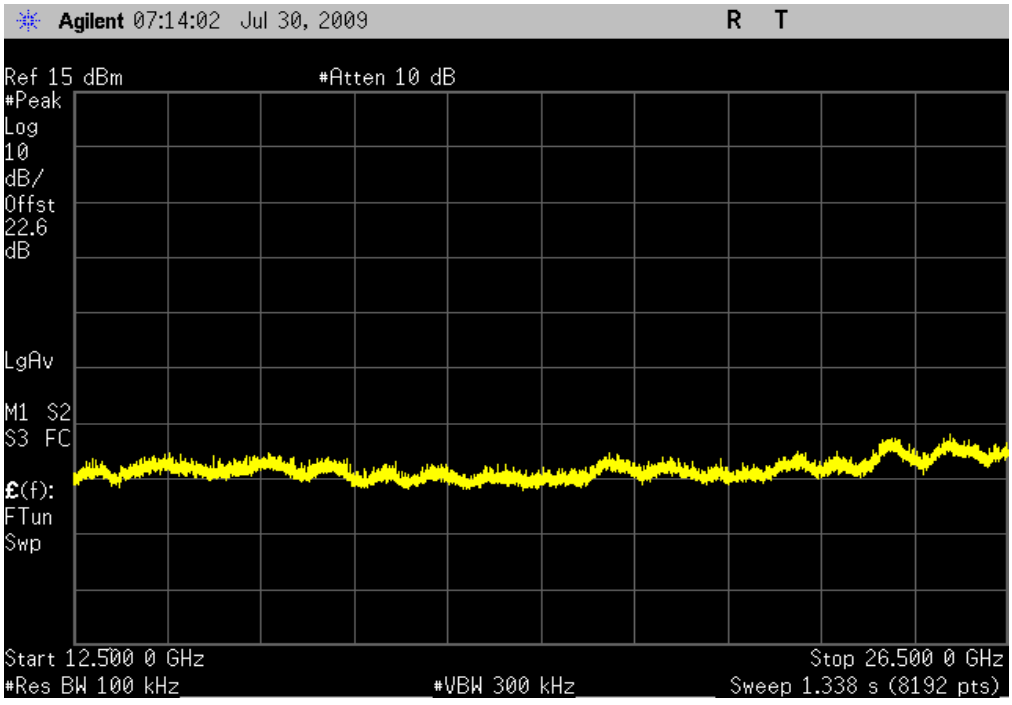


SPURIOUS CONDUCTED EMISSIONS

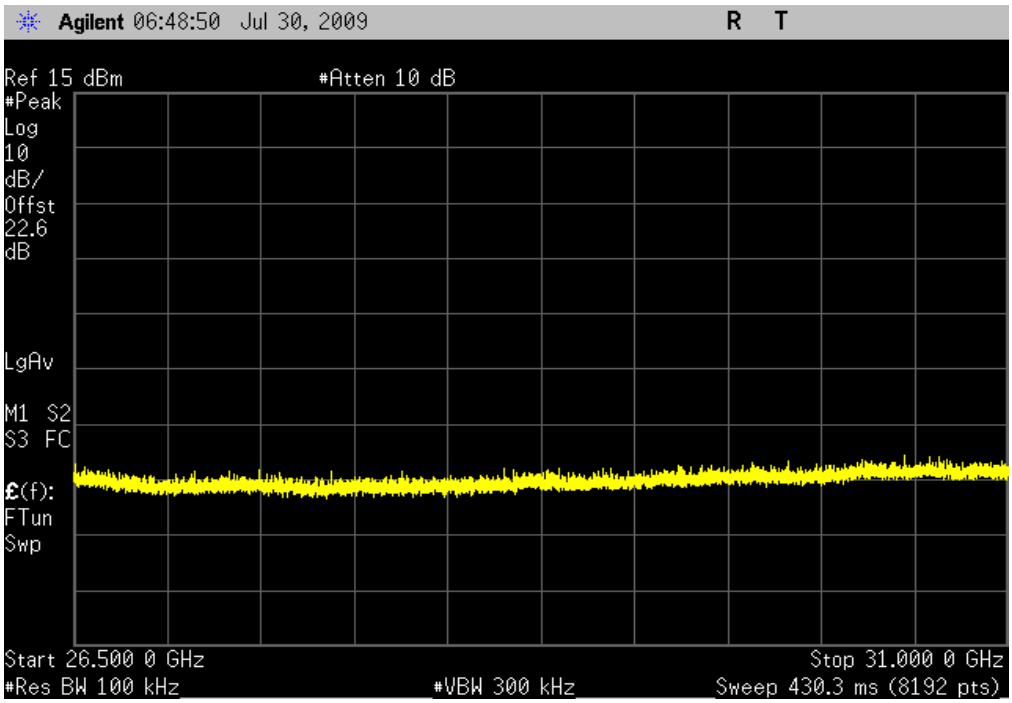
802.11(a) 6 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



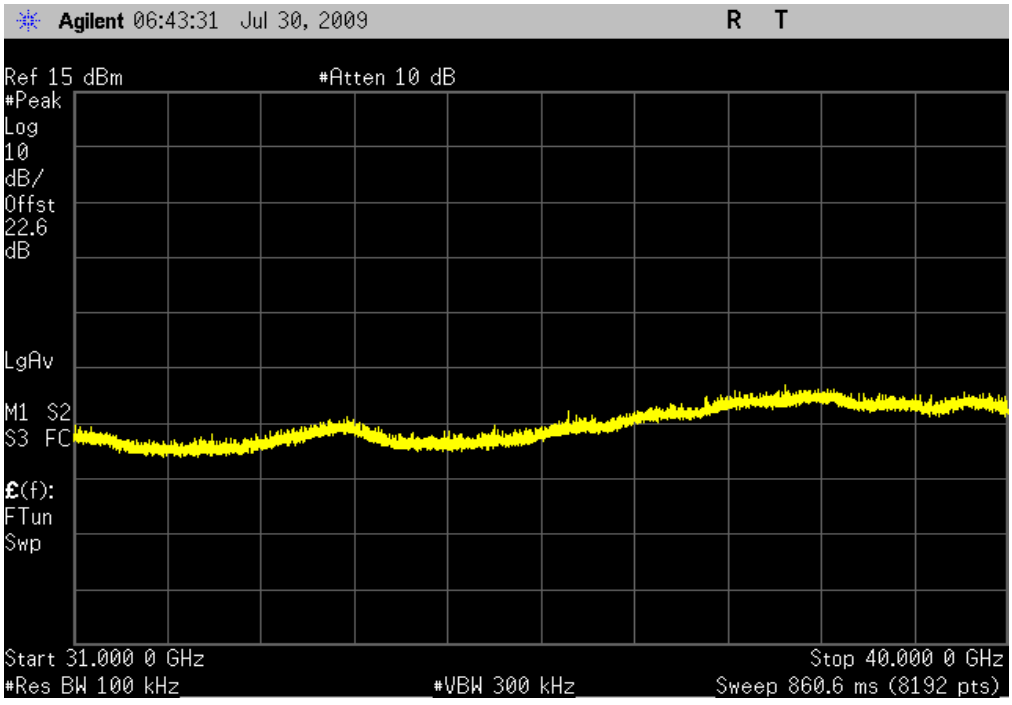
802.11(a) 6 Mbps, High Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



802.11(a) 6 Mbps, High Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc

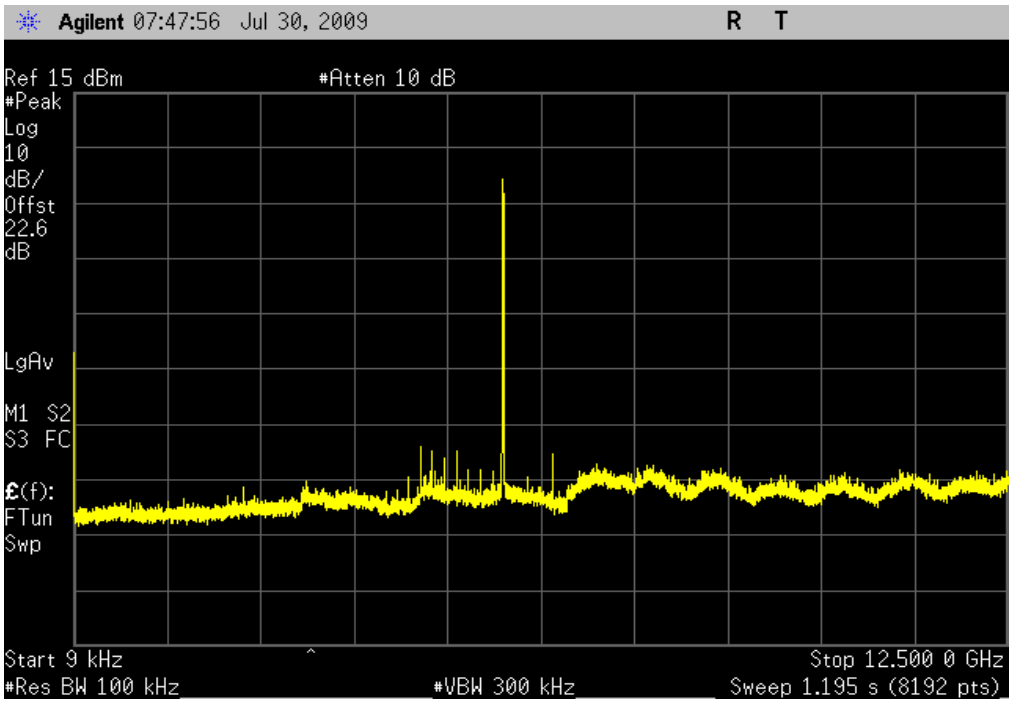


802.11(a) 6 Mbps, High Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc

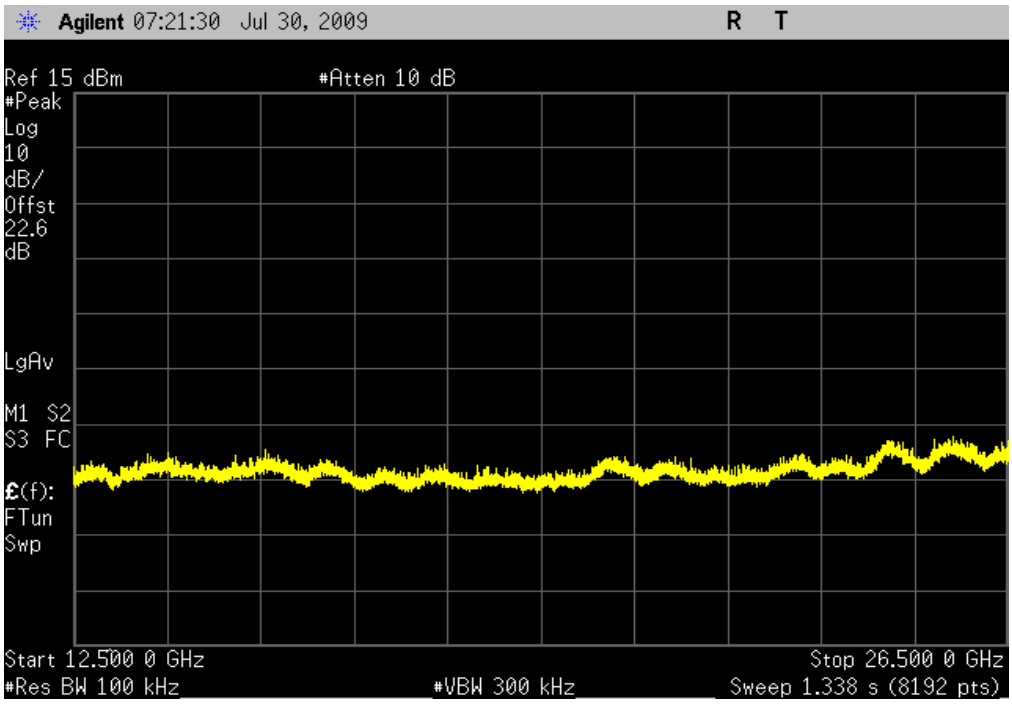


SPURIOUS CONDUCTED EMISSIONS

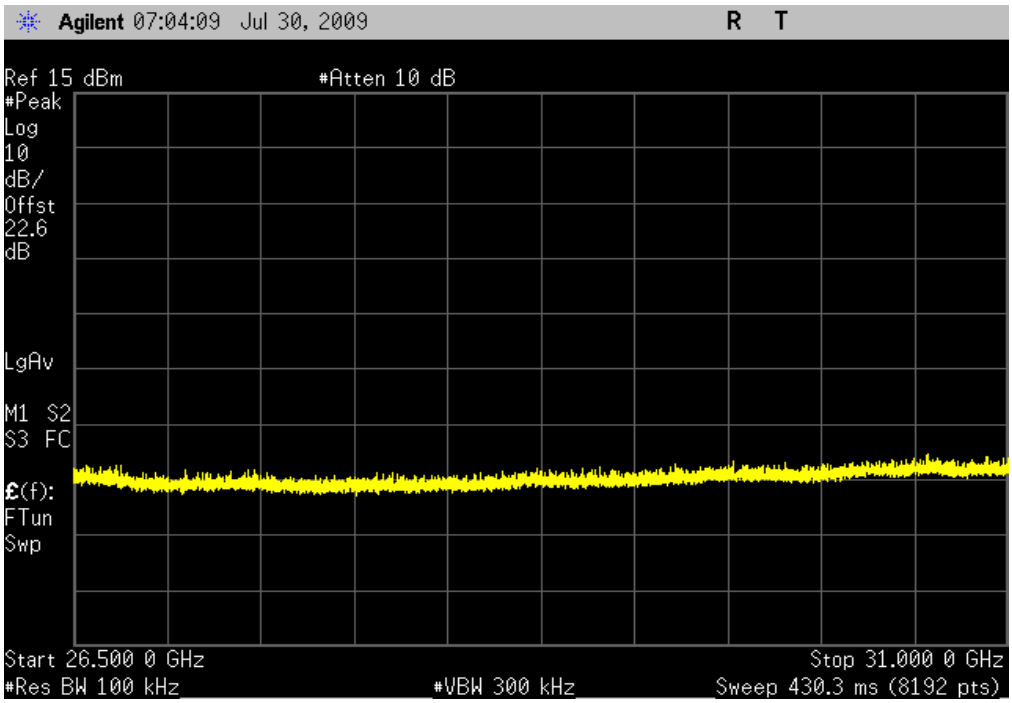
802.11(a) 36 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



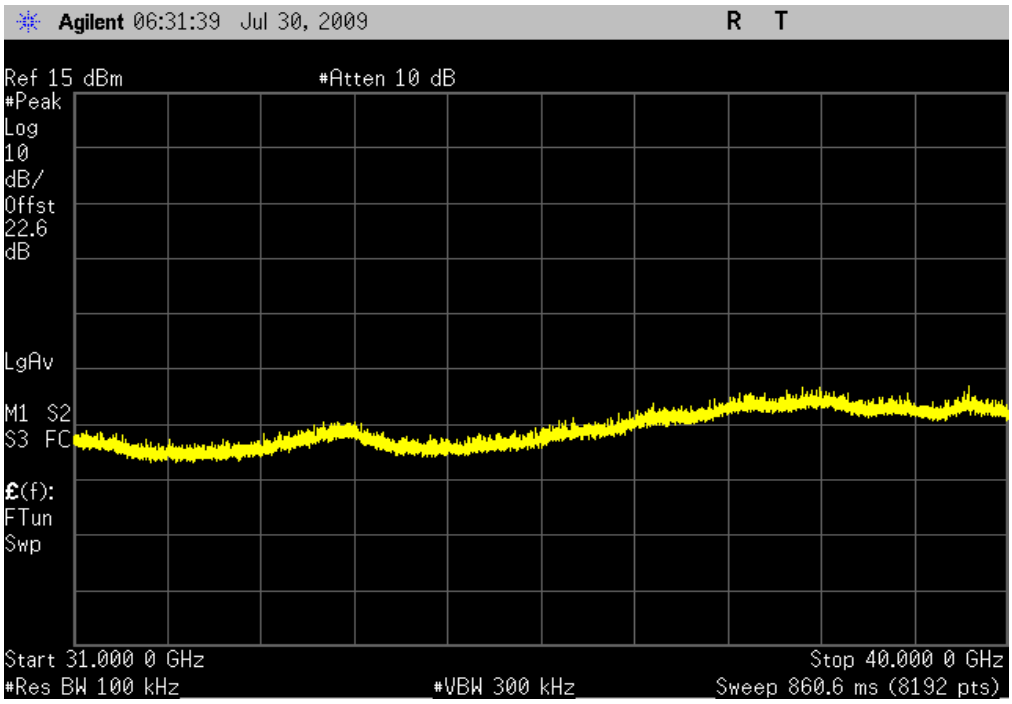
802.11(a) 36 Mbps, Low Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



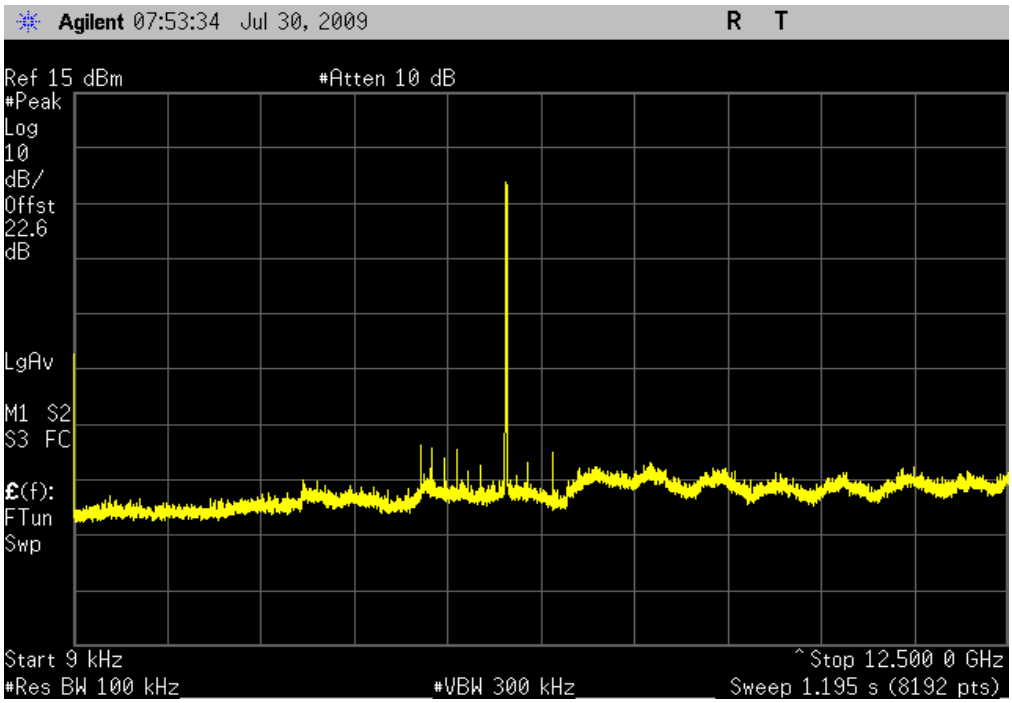
802.11(a) 36 Mbps, Low Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



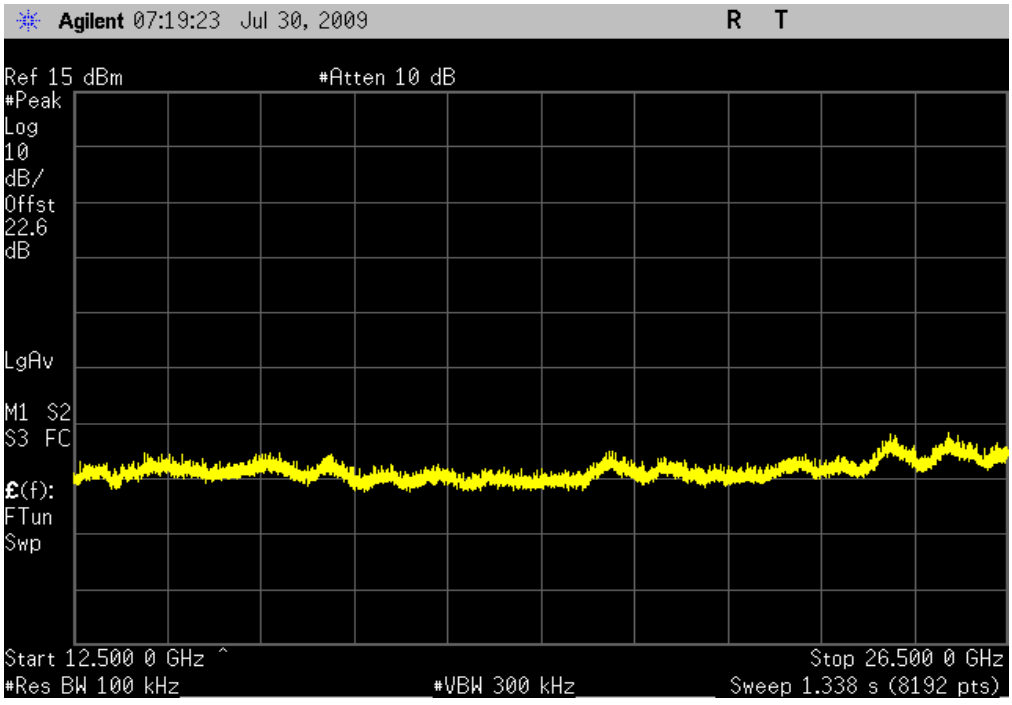
802.11(a) 36 Mbps, Low Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



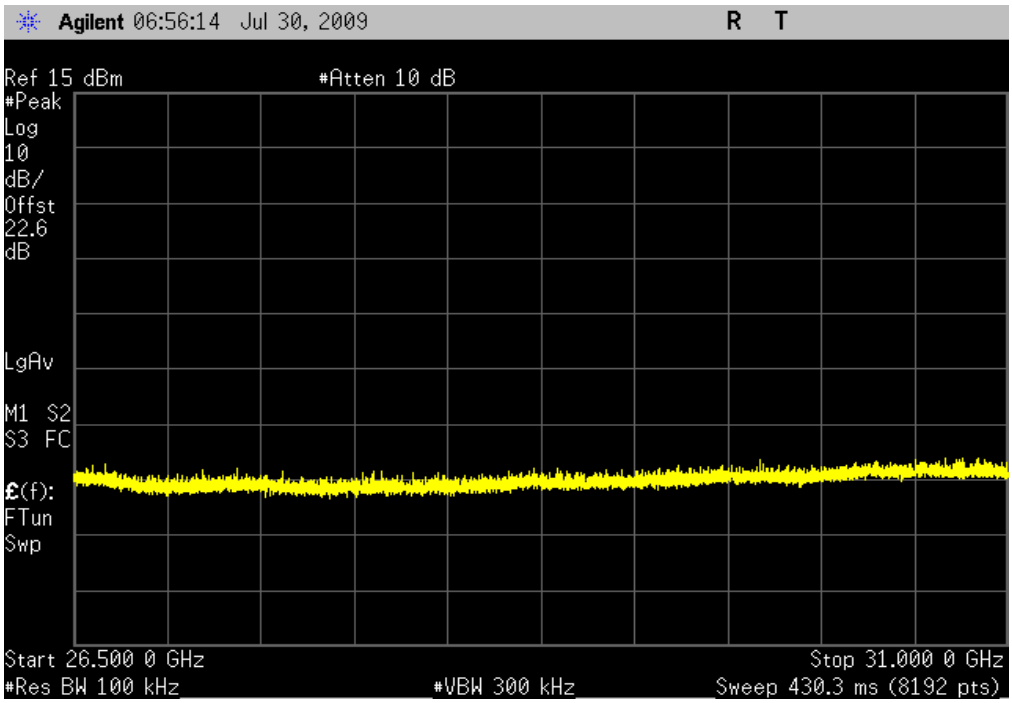
802.11(a) 36 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



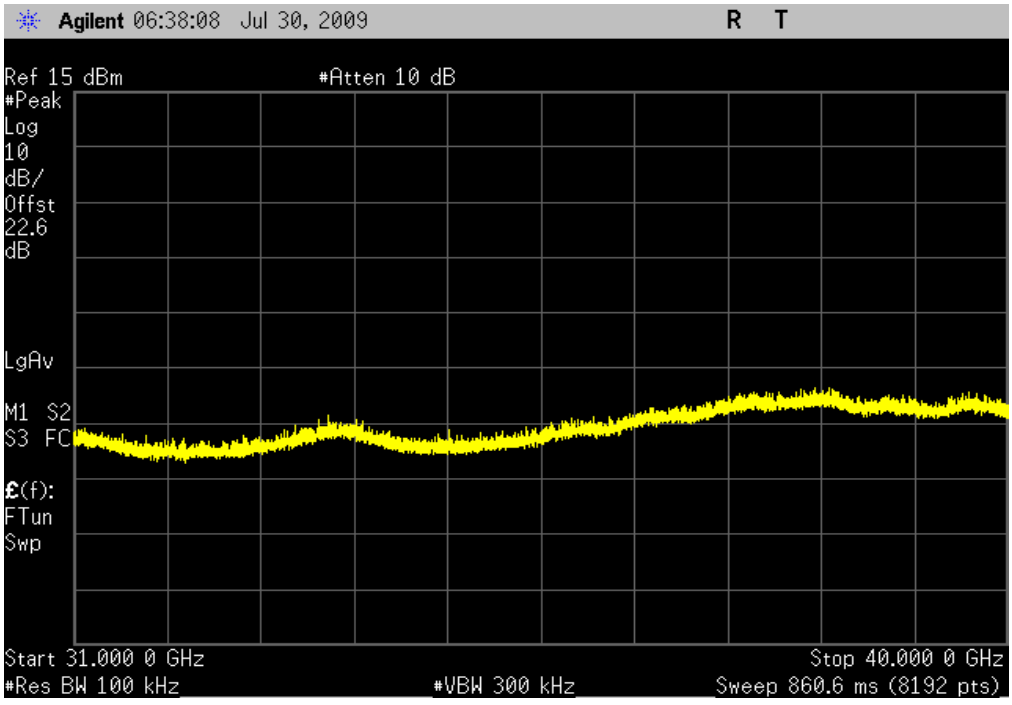
802.11(a) 36 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



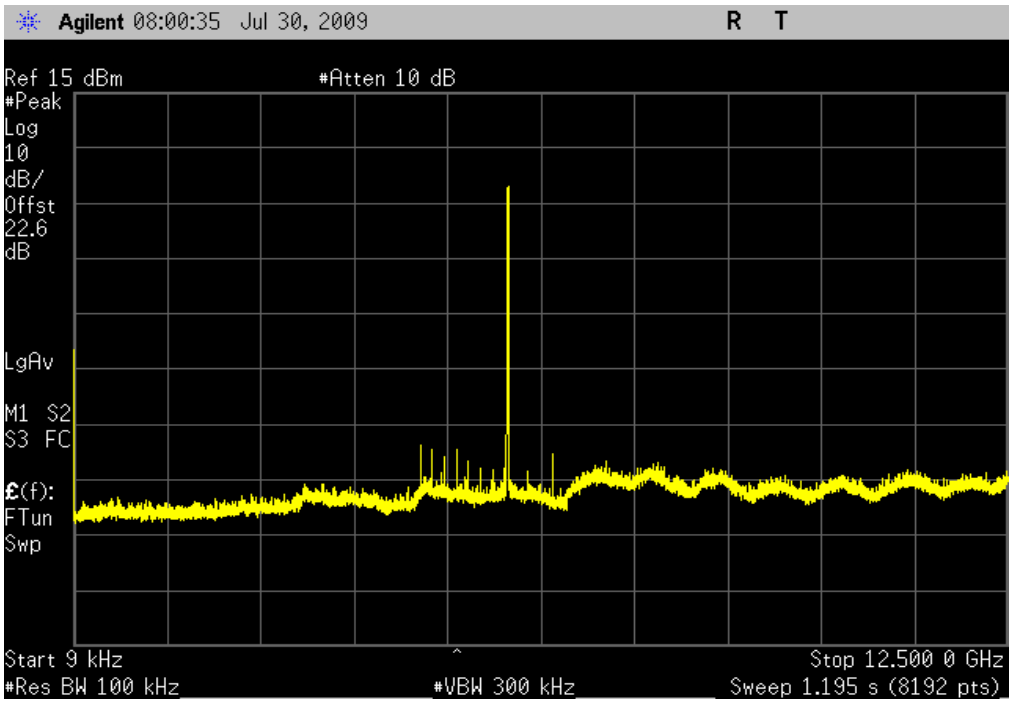
802.11(a) 36 Mbps, Mid Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



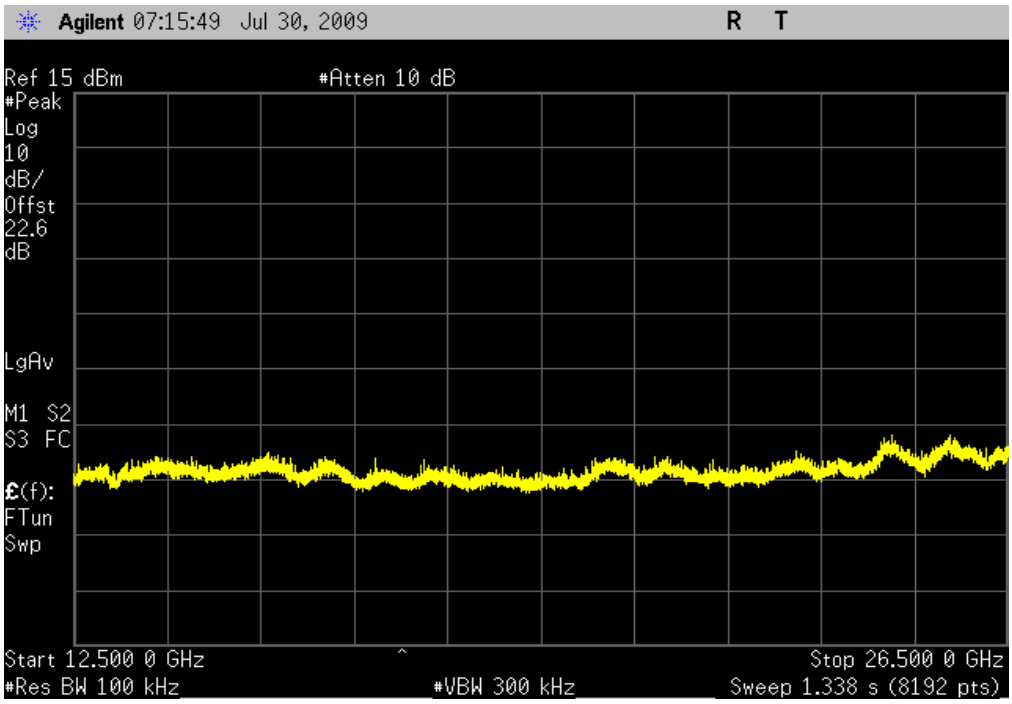
802.11(a) 36 Mbps, Mid Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



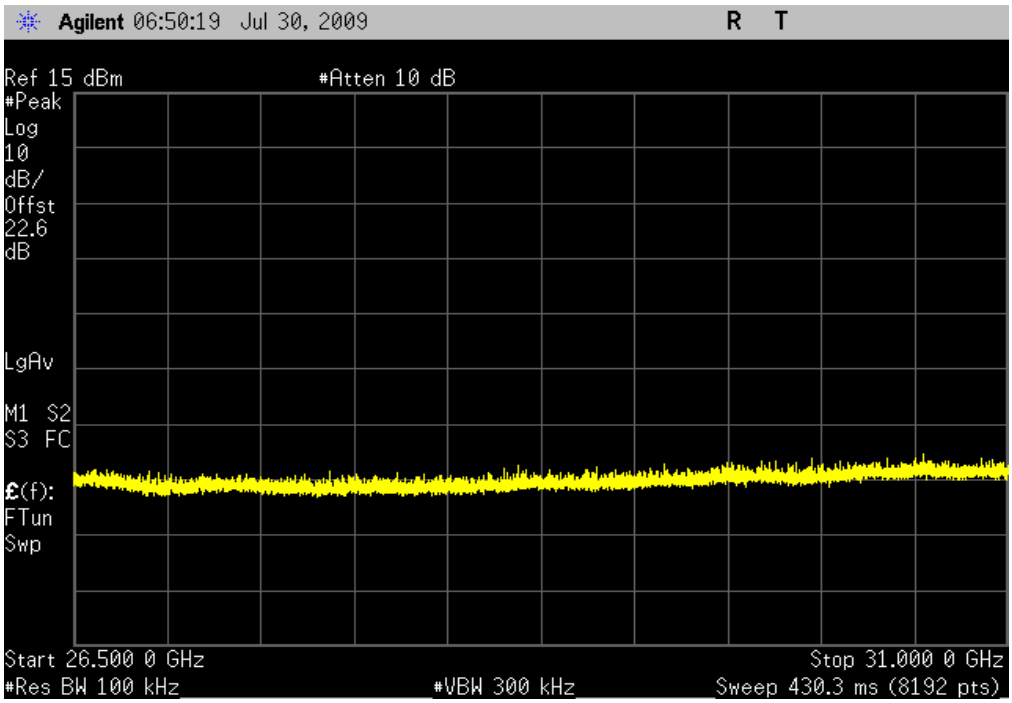
802.11(a) 36 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



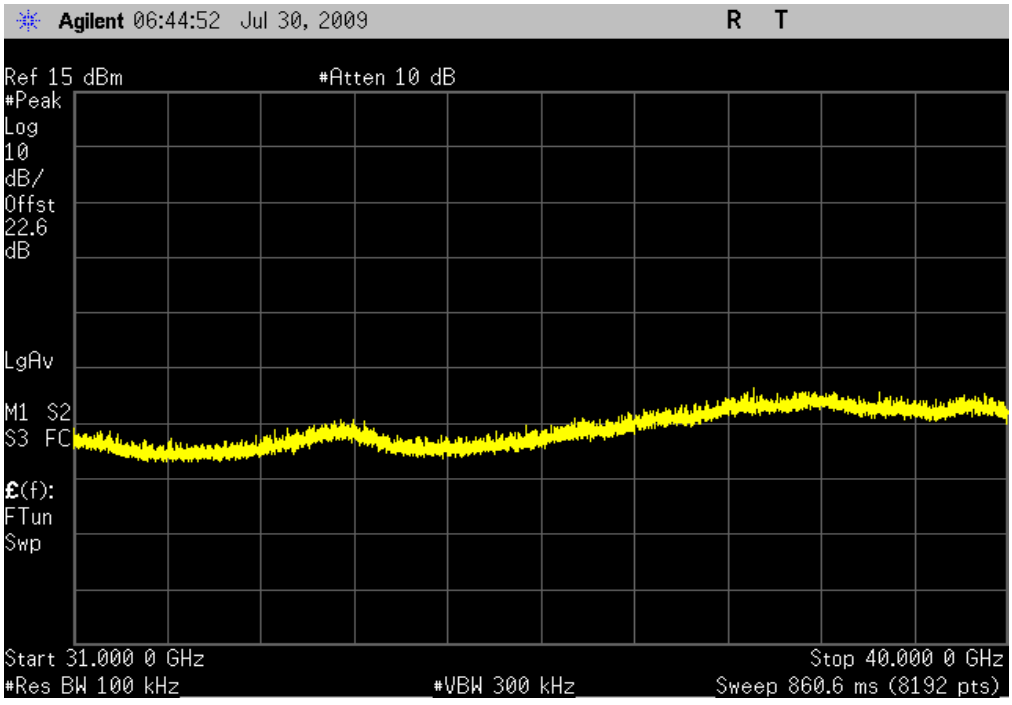
802.11(a) 36 Mbps, High Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



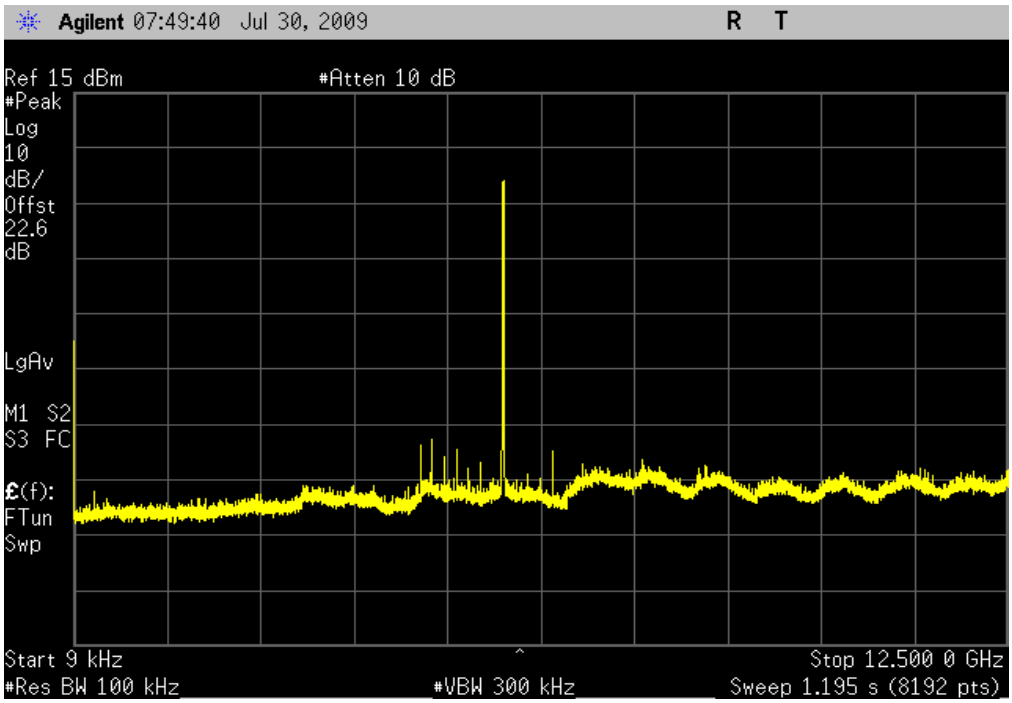
802.11(a) 36 Mbps, High Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



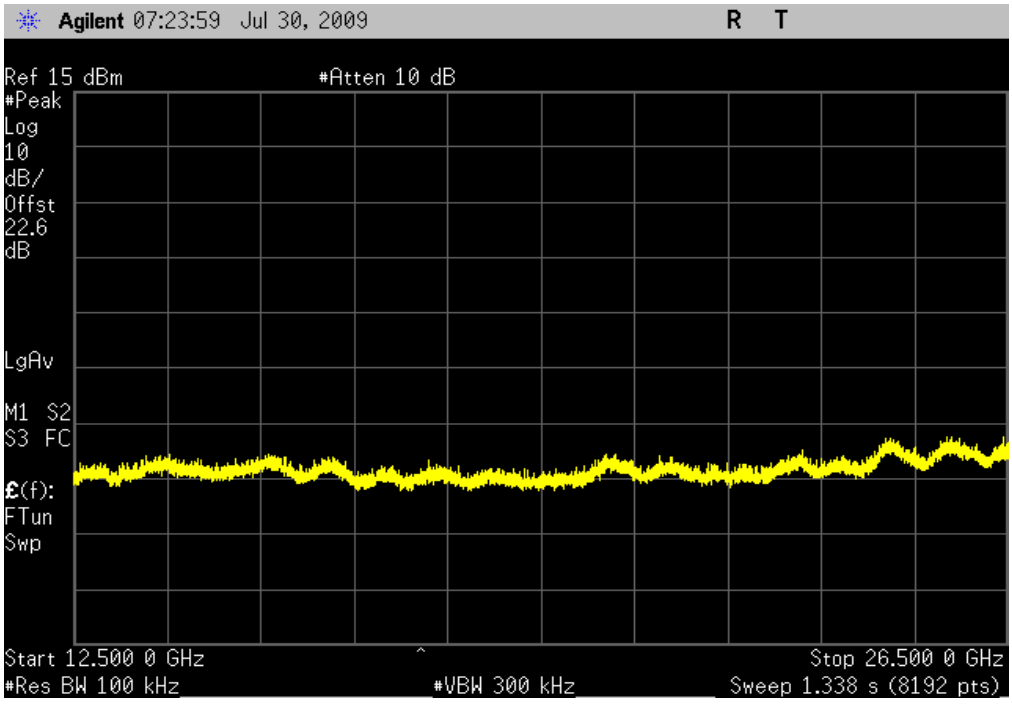
802.11(a) 36 Mbps, High Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



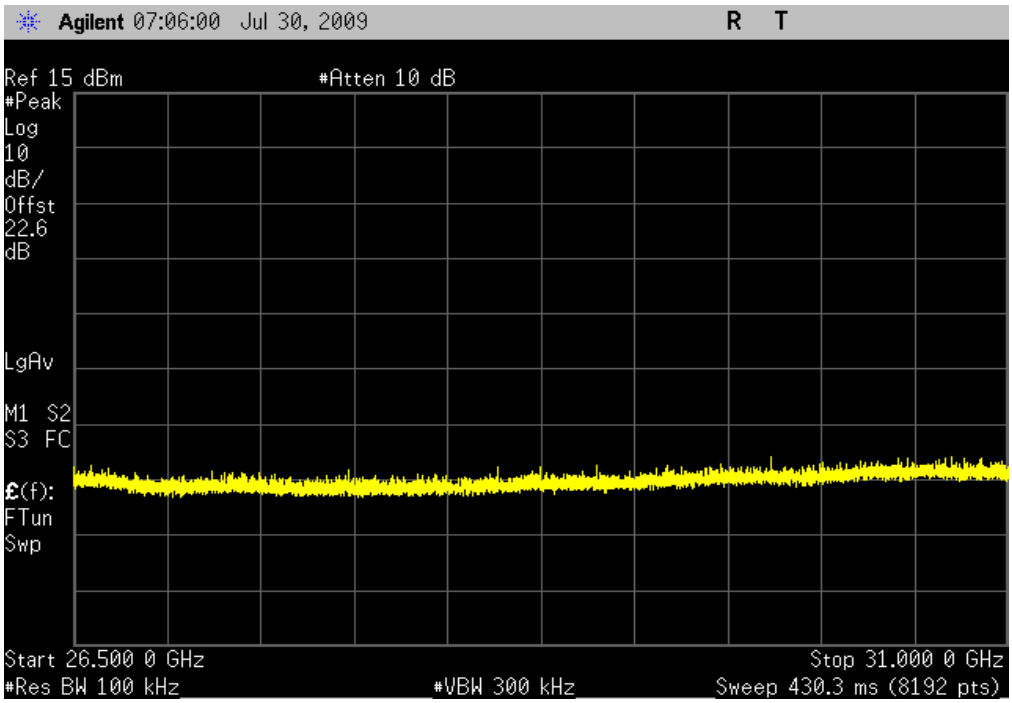
802.11(a) 54 Mbps, Low Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



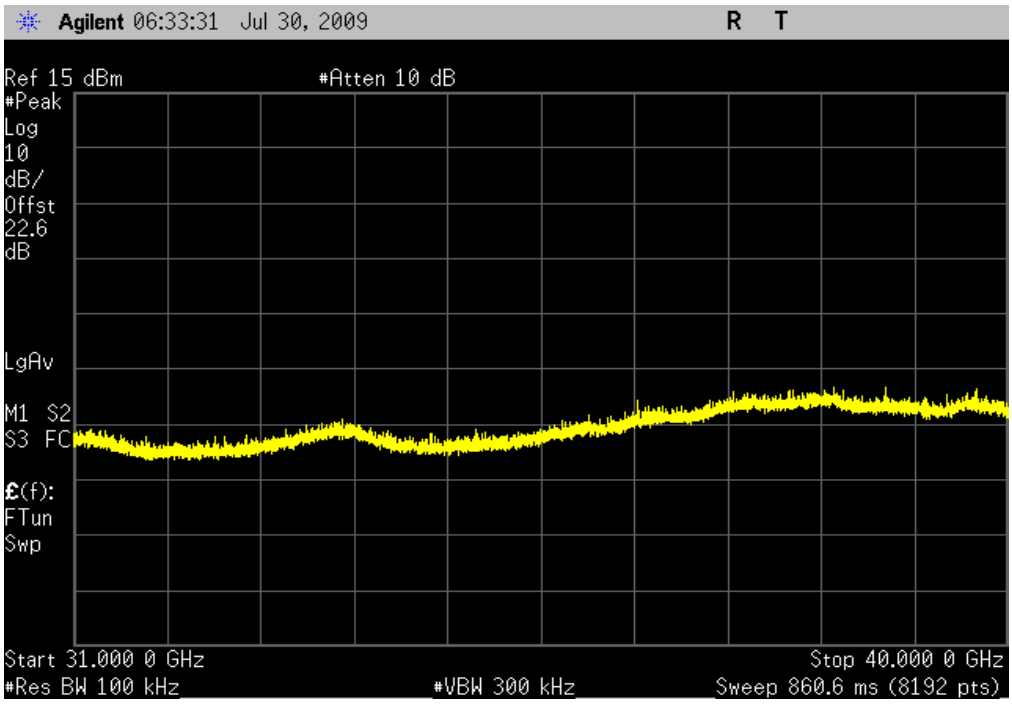
802.11(a) 54 Mbps, Low Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



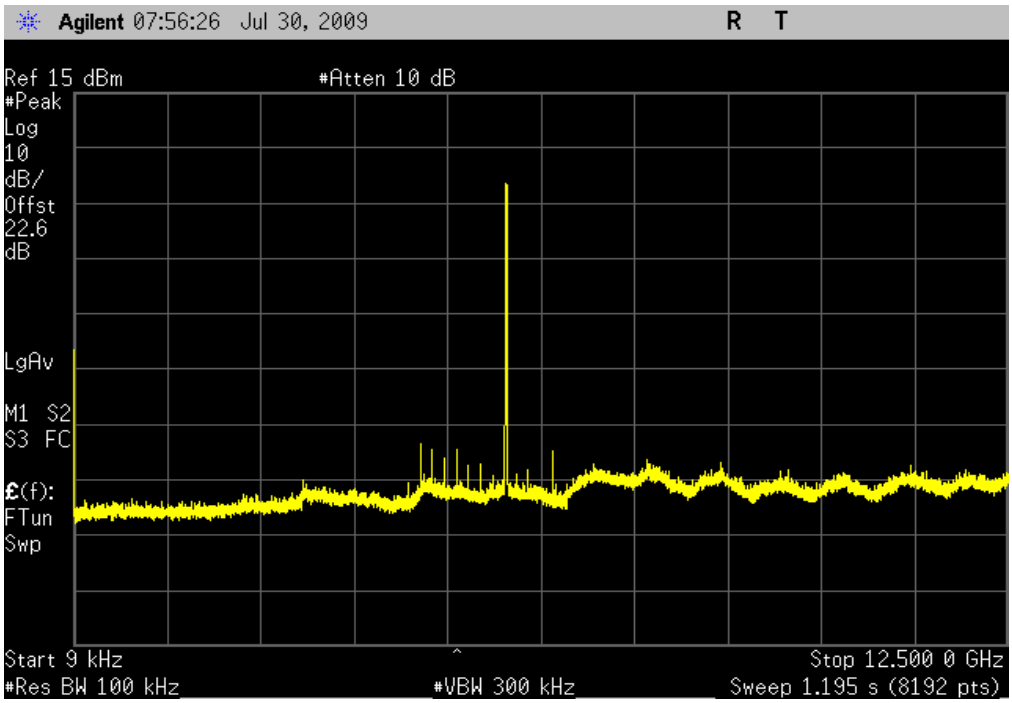
802.11(a) 54 Mbps, Low Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



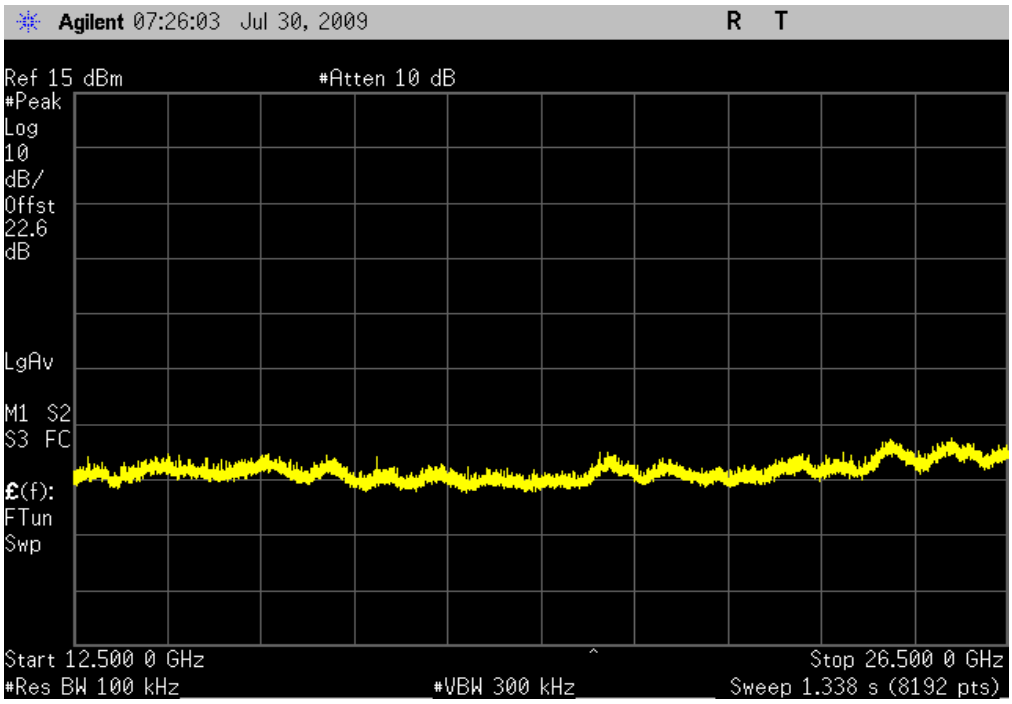
802.11(a) 54 Mbps, Low Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



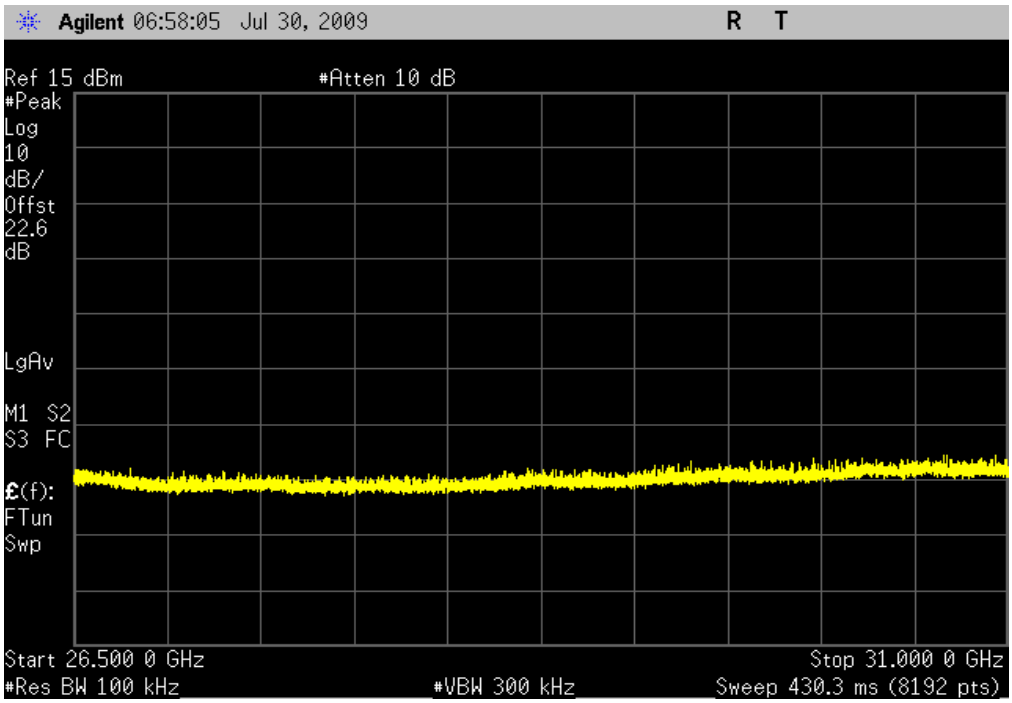
802.11(a) 54 Mbps, Mid Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



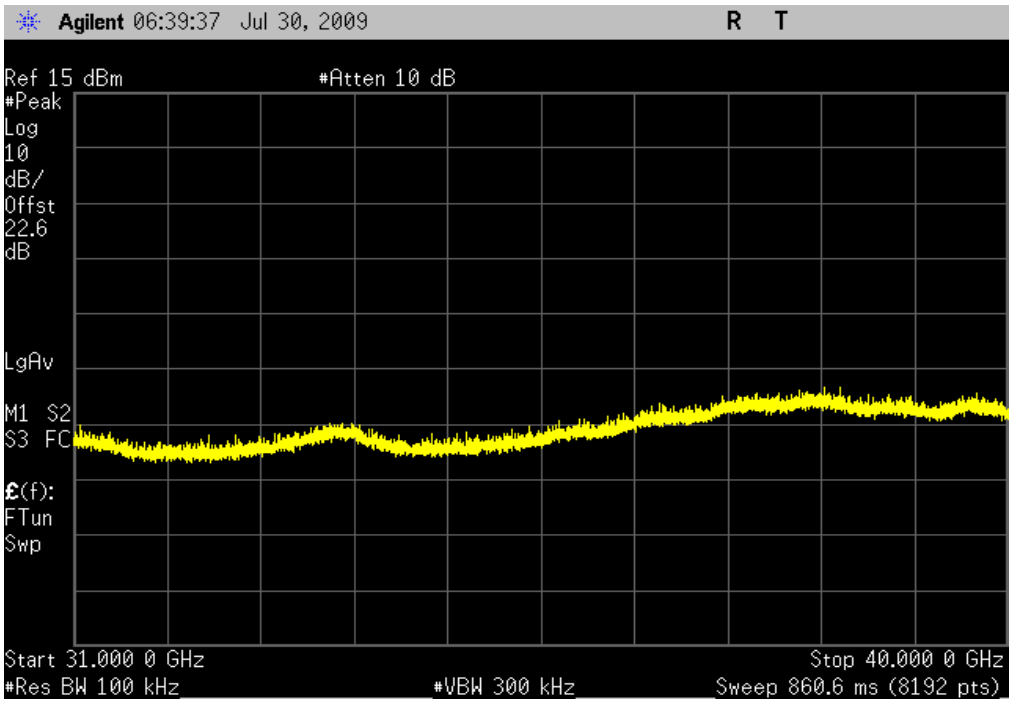
802.11(a) 54 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



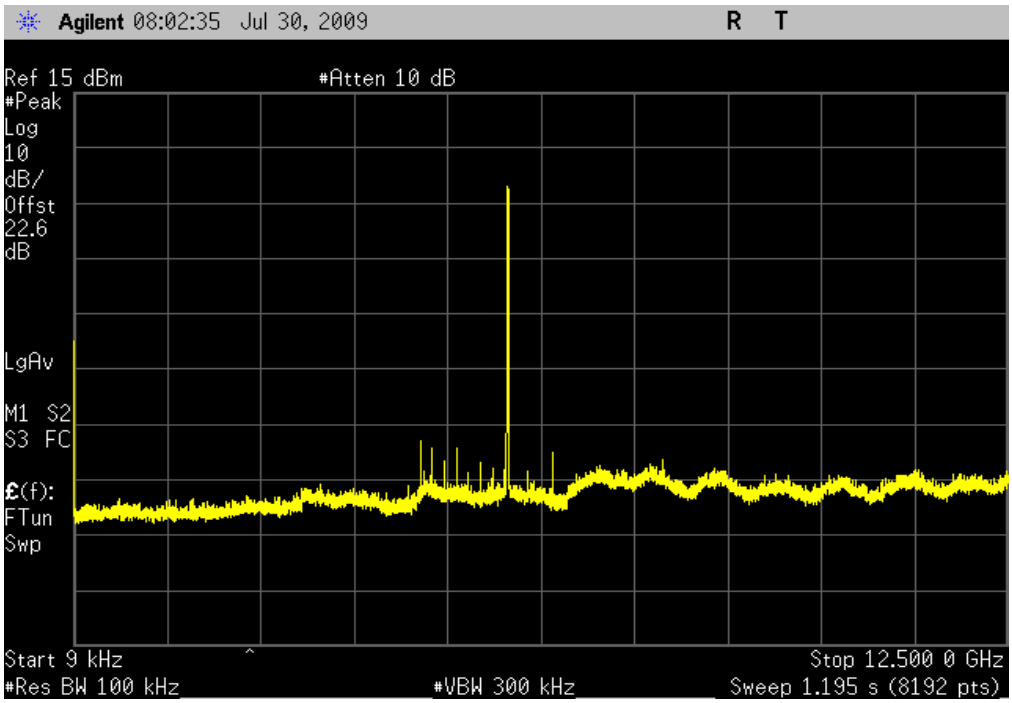
802.11(a) 54 Mbps, Mid Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



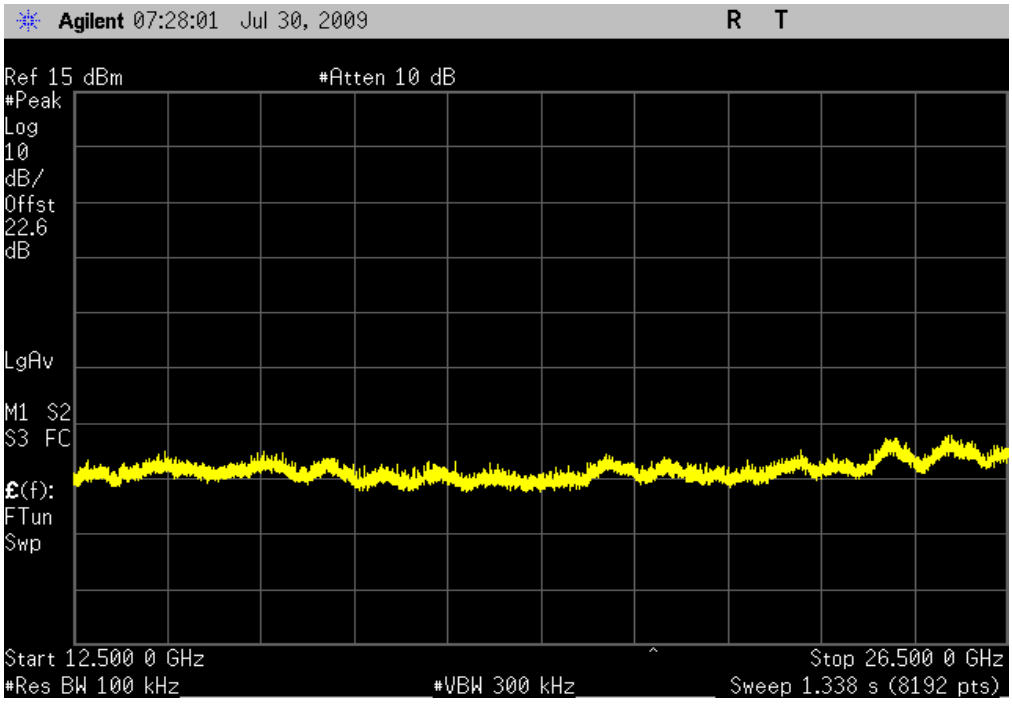
802.11(a) 54 Mbps, Mid Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



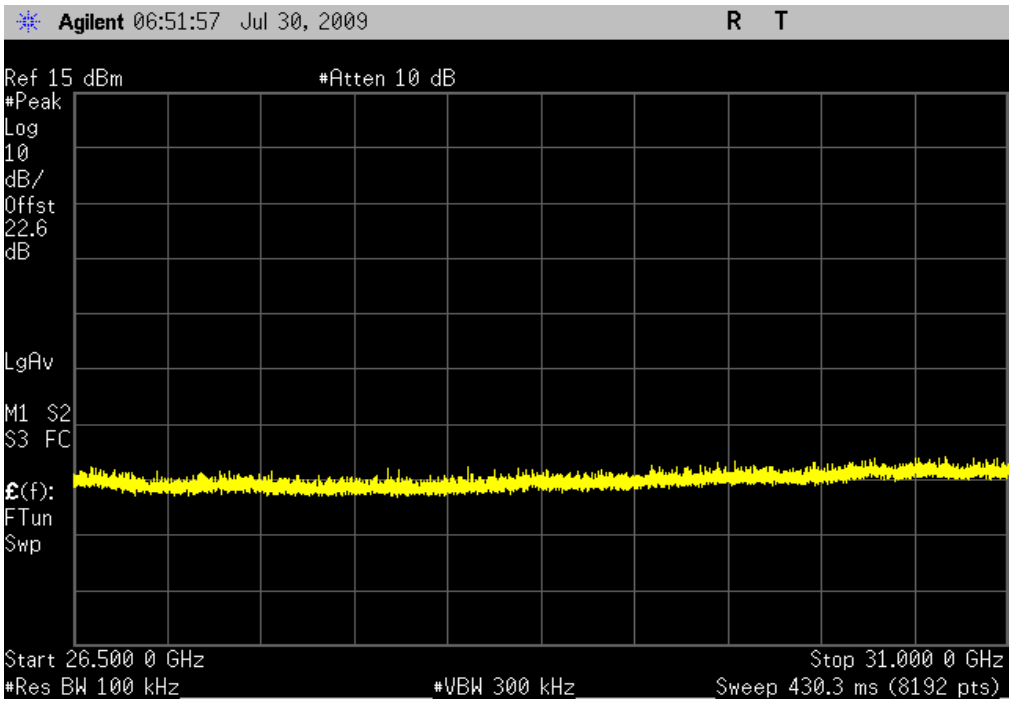
802.11(a) 54 Mbps, High Channel, 30 MHz - 12.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



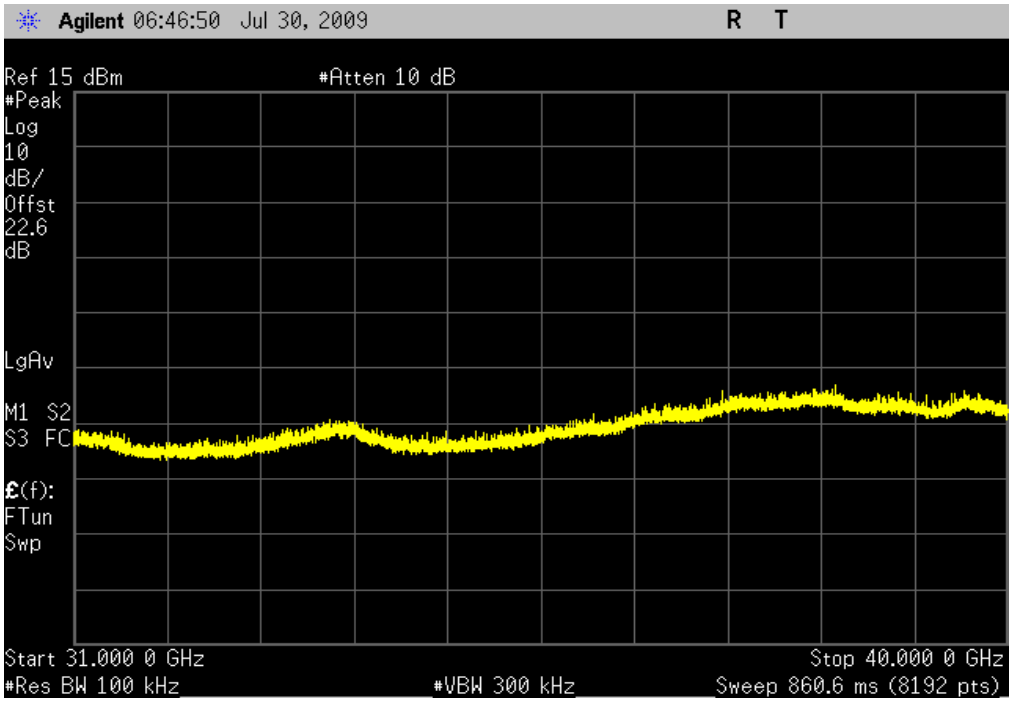
802.11(a) 54 Mbps, High Channel, 12.5 GHz - 26.5 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc

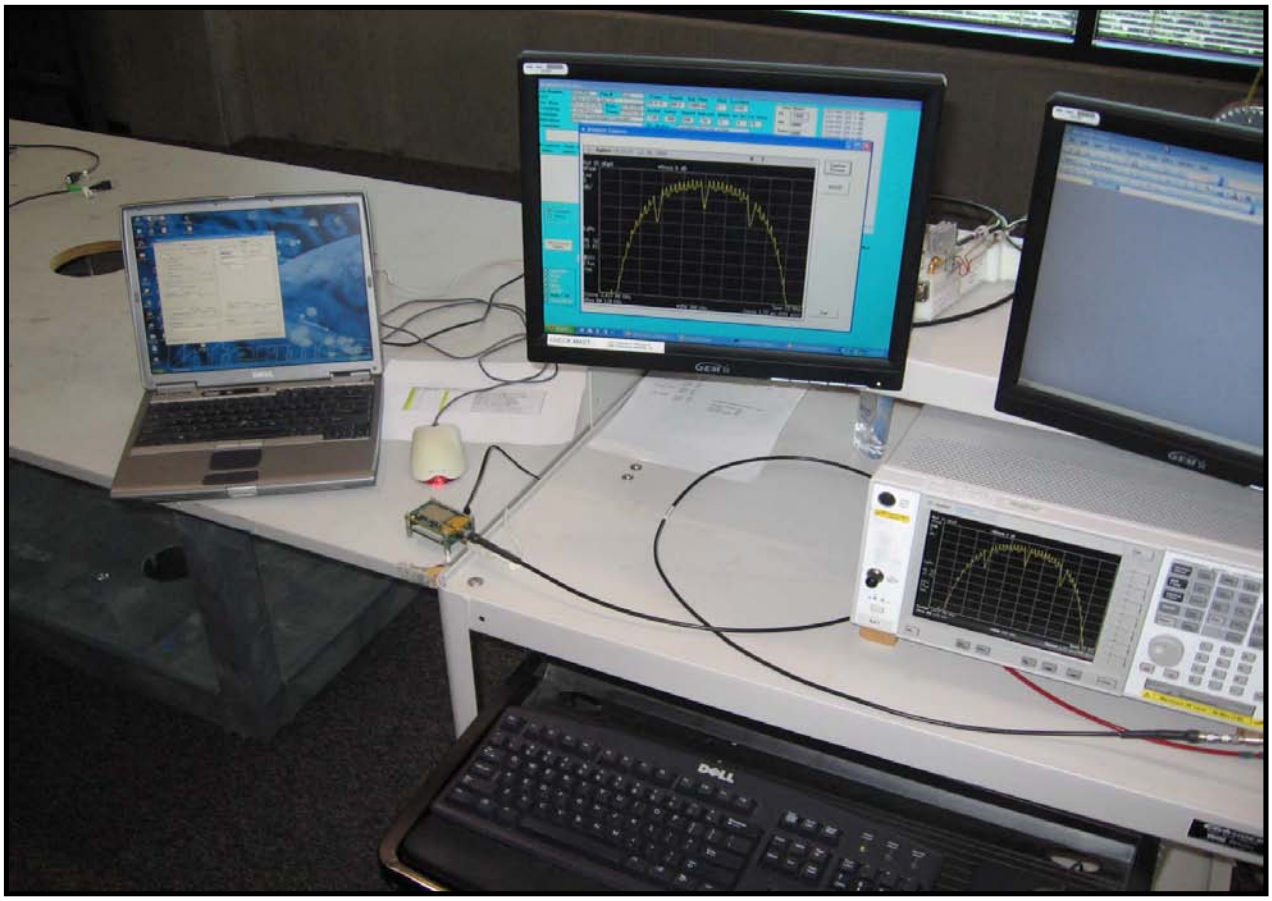


802.11(a) 54 Mbps, High Channel, 26.5 GHz - 31 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc



802.11(a) 54 Mbps, High Channel, 31 GHz - 40 GHz					
Result:	Pass	**Value:**	< -40 dBc	**Limit:**	≤ -20 dBc




DELL

POWER SPECTRAL DENSITY

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	E4440A	AFD	6/1/2009	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	13

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available. Per the procedure outlined in FCC KDB 558074, March 23, 2005, 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 x 10^6 ÷ 3 x 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."

NORTHWEST EMC

POWER SPECTRAL DENSITY

XMit 2009.03.05

EUT:	Galileo modular radio (TI)			**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4			**Date:**	07/29/09
Customer:	Intermec Technologies Corporation			**Temperature:**	23.00°C
Attendees:	None			**Humidity:**	45%
Project:	None			**Barometric Pres.:**	29.76 in
Tested by:	Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

EEPROM Power settings provided by customer in emails of 7-13-09 and 7-20-09.

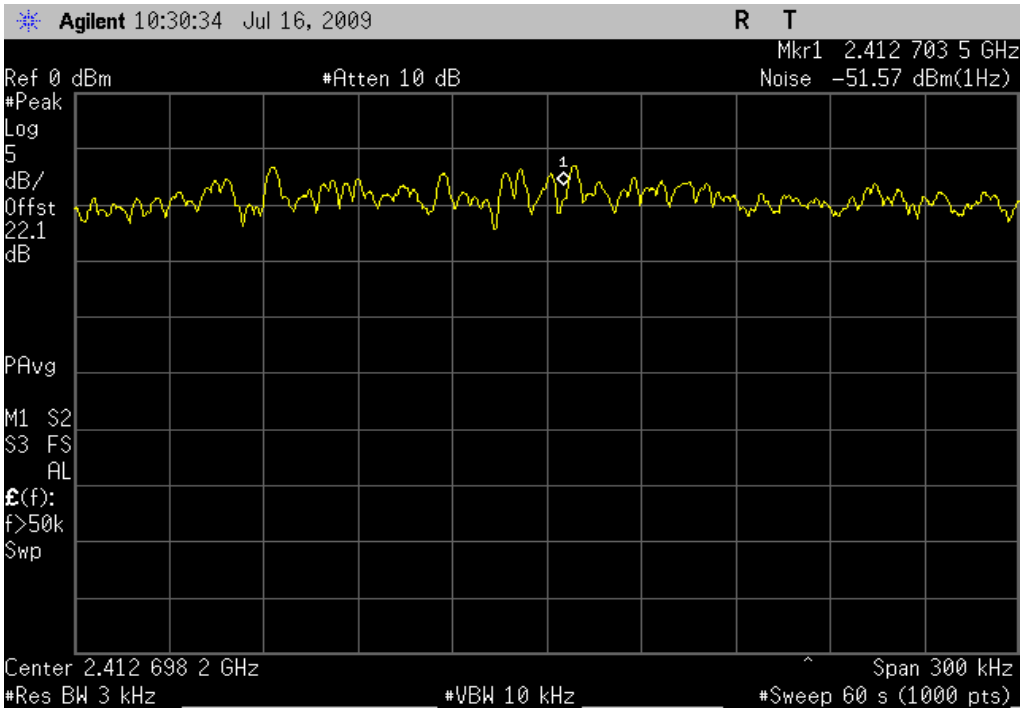
DEVIATIONS FROM TEST STANDARD

No deviations

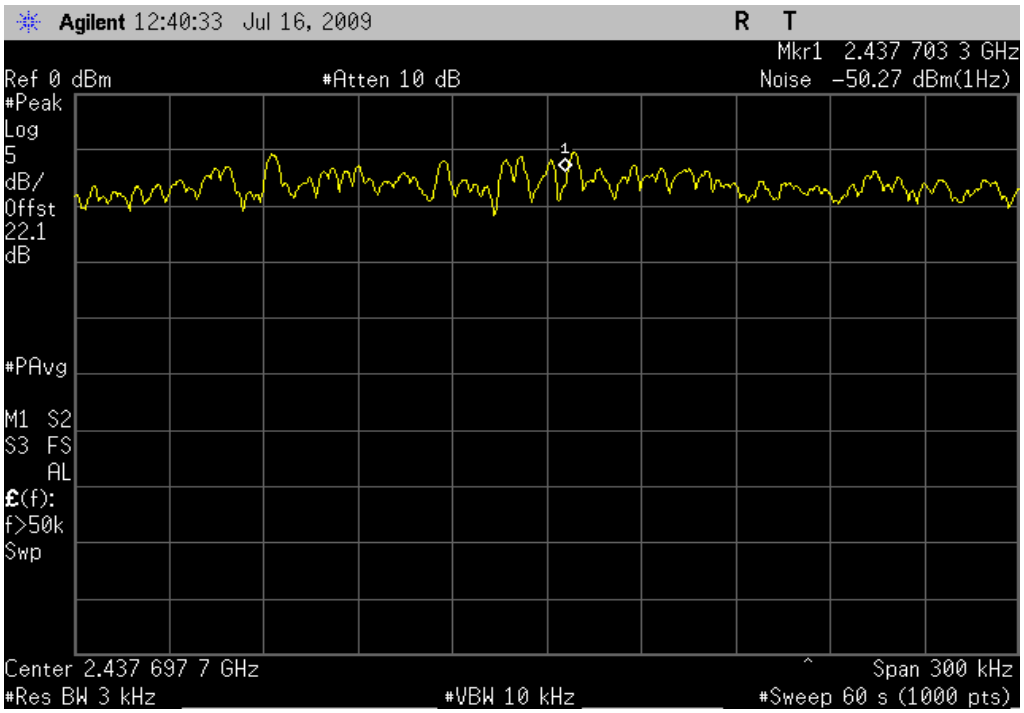
Configuration #	1	Signature

		Value	Limit	Results
802.11(b) 1 Mbps				
	Low Channel	-16.8 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-15.5 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-16.6 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(b) 11 Mbps				
	Low Channel	-18.2 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-17.0 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-18.3 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(g) 6 Mbps				
	Low Channel	-21.5 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-20.5 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-21.9 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(g) 36 Mbps				
	Low Channel	-23.5 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-22.4 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-23.4 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(g) 54 Mbps				
	Low Channel	-23.1 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-21.9 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-22.8 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 6 Mbps				
	Low Channel	-24.1 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-24.0 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-24.4 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 36 Mbps				
	Low Channel	-24.6 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-24.4 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-24.5 dBm / 3 kHz	8 dBm / 3 kHz	Pass
802.11(a) 54 Mbps				
	Low Channel	-23.3 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	Mid Channel	-24.3 dBm / 3 kHz	8 dBm / 3 kHz	Pass
	High Channel	-24.2 dBm / 3 kHz	8 dBm / 3 kHz	Pass

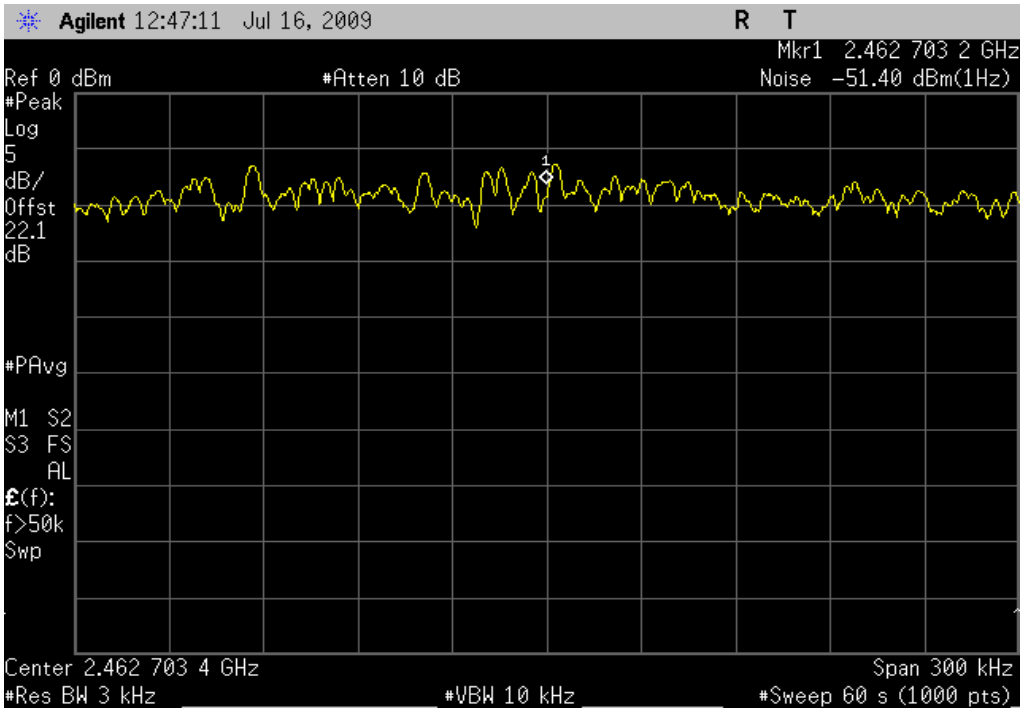
802.11(b) 1 Mbps, Low Channel					
Result:	Pass	**Value:**	-16.8 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



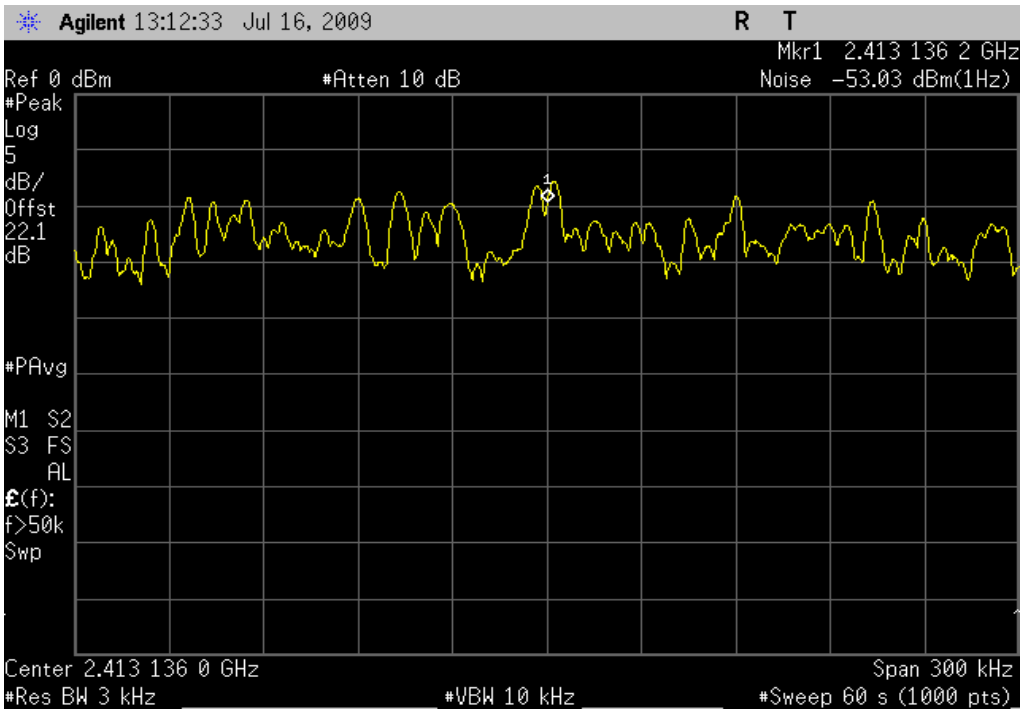
802.11(b) 1 Mbps, Mid Channel					
Result:	Pass	**Value:**	-15.5 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



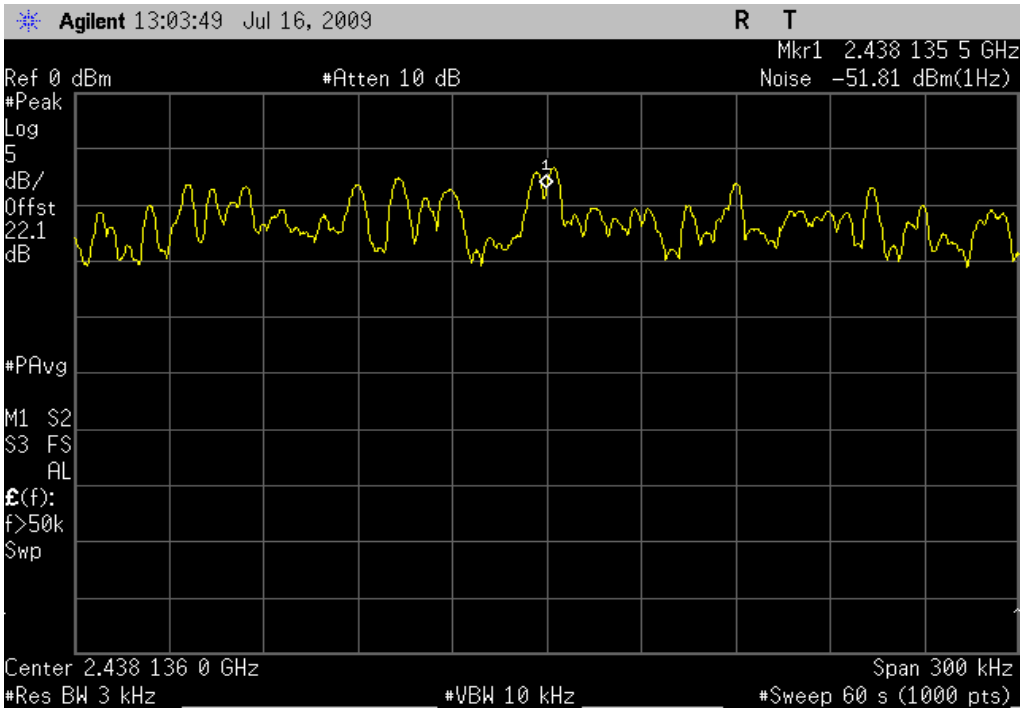
802.11(b) 1 Mbps, High Channel					
Result:	Pass	**Value:**	-16.6 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



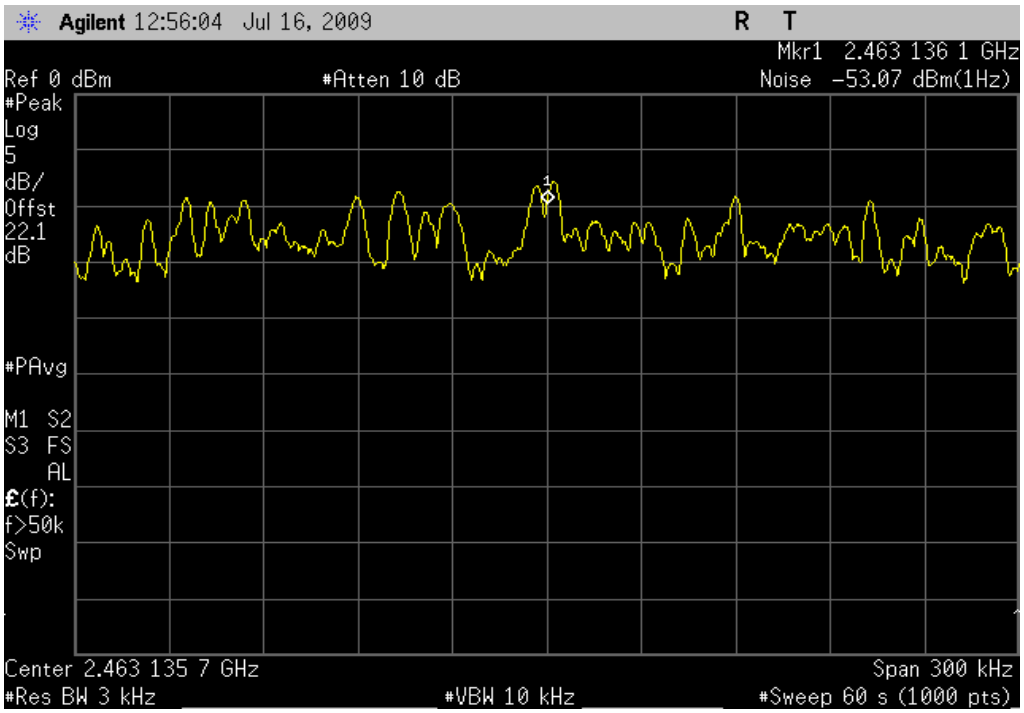
802.11(b) 11 Mbps, Low Channel					
Result:	Pass	**Value:**	-18.2 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



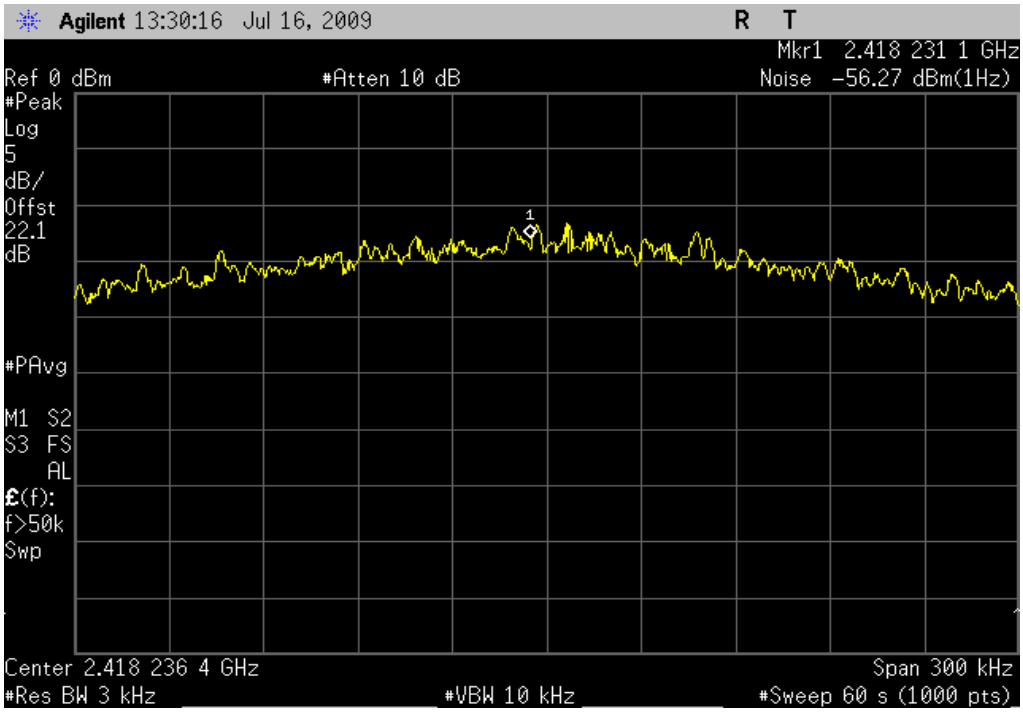
802.11(b) 11 Mbps, Mid Channel					
Result:	Pass	**Value:**	-17.0 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



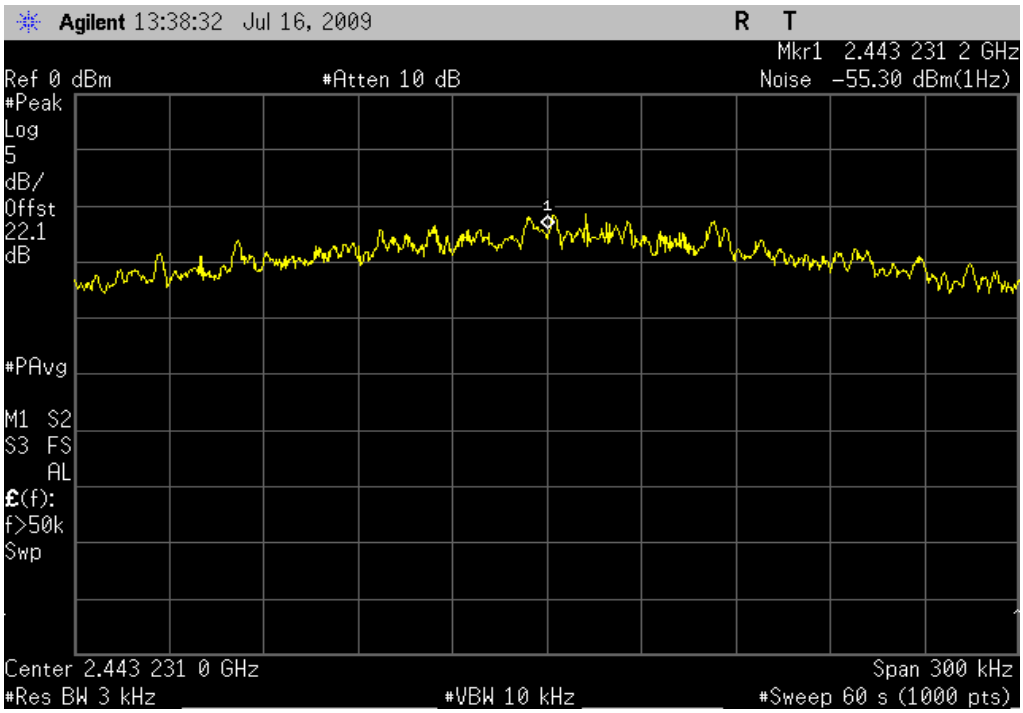
802.11(b) 11 Mbps, High Channel					
Result:	Pass	**Value:**	-18.3 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



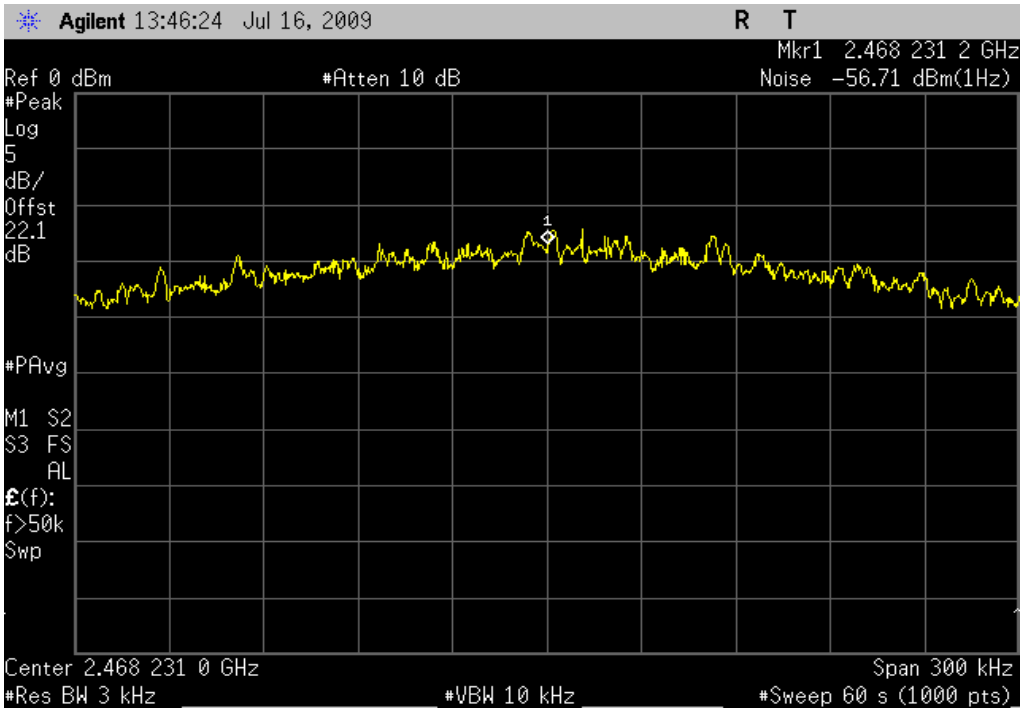
802.11(g) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	-21.5 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



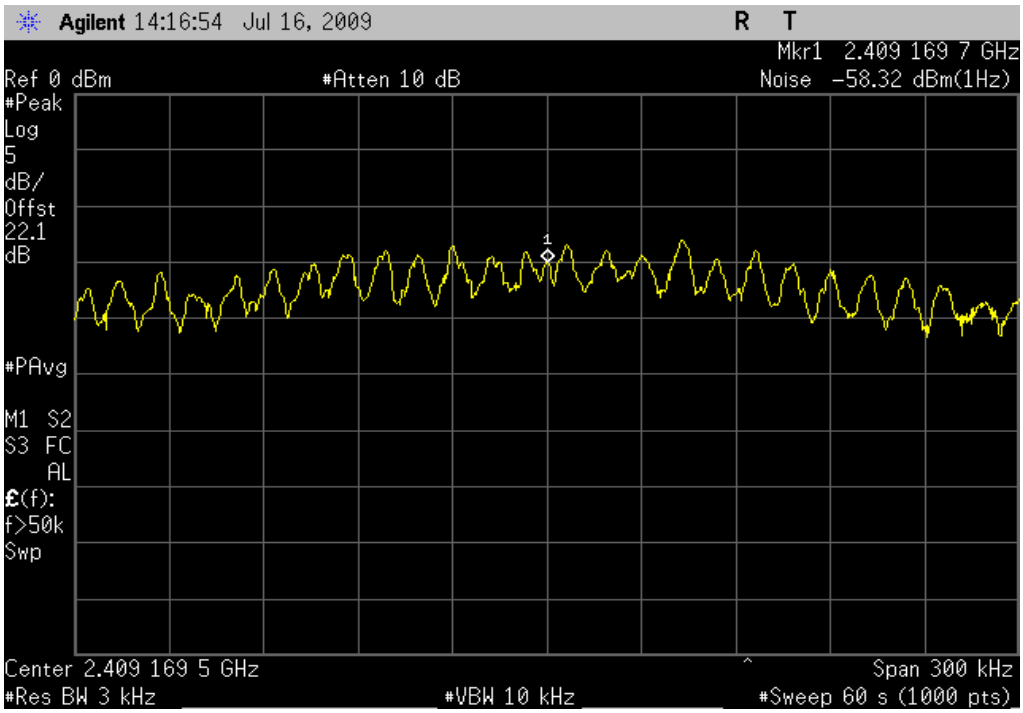
802.11(g) 6 Mbps, Mid Channel					
Result:	Pass	**Value:**	-20.5 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



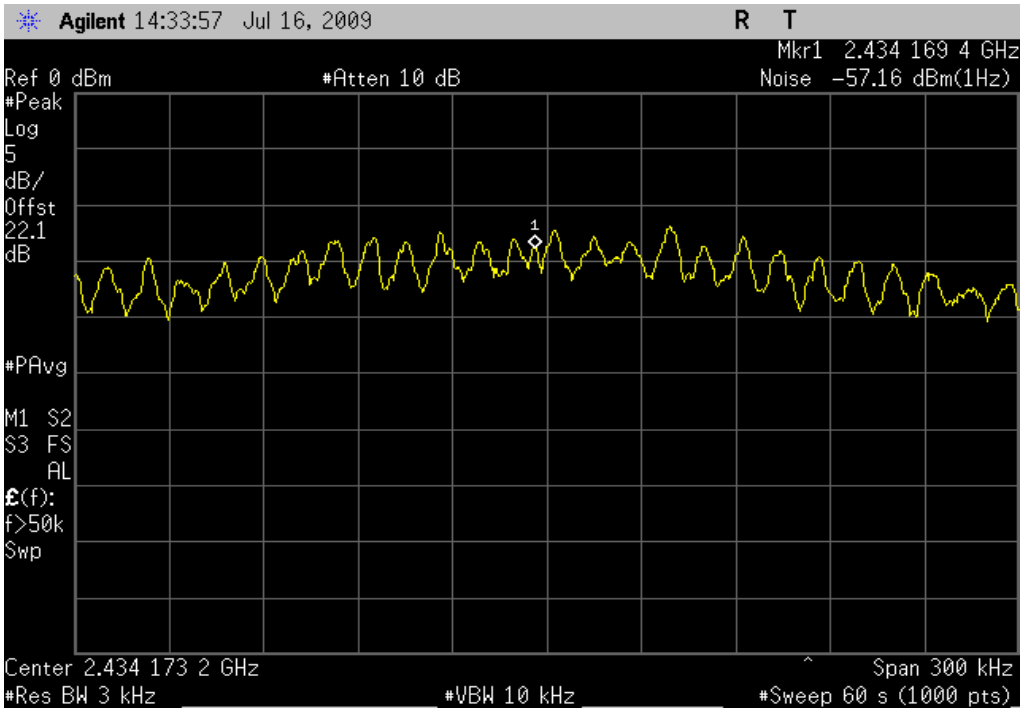
802.11(g) 6 Mbps, High Channel					
Result:	Pass	**Value:**	-21.9 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



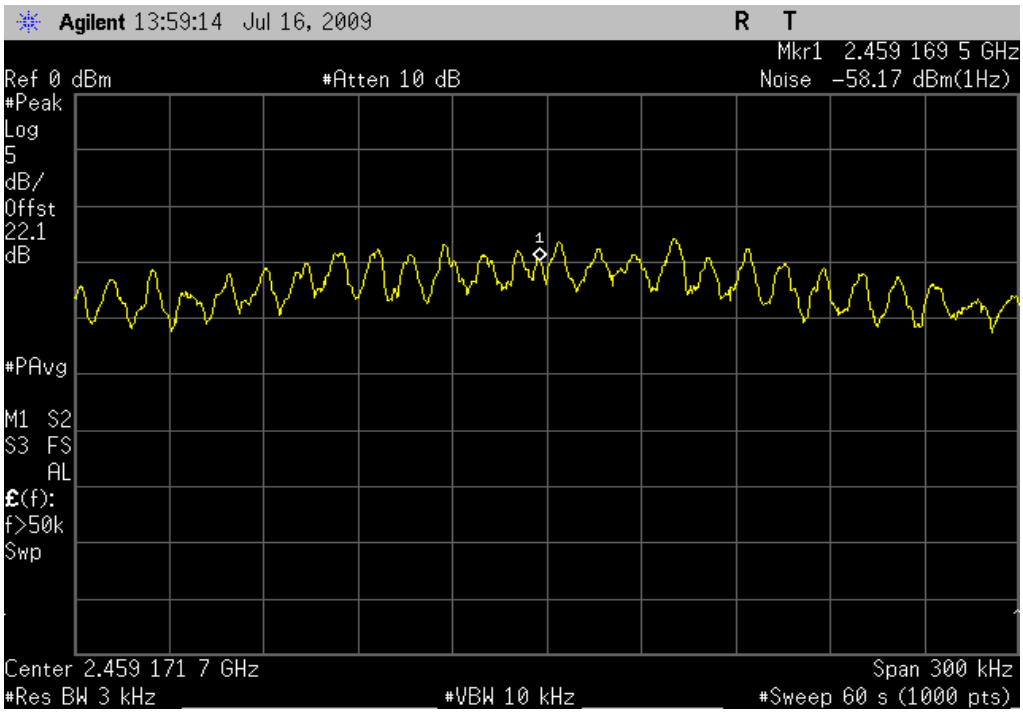
802.11(g) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	-23.5 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



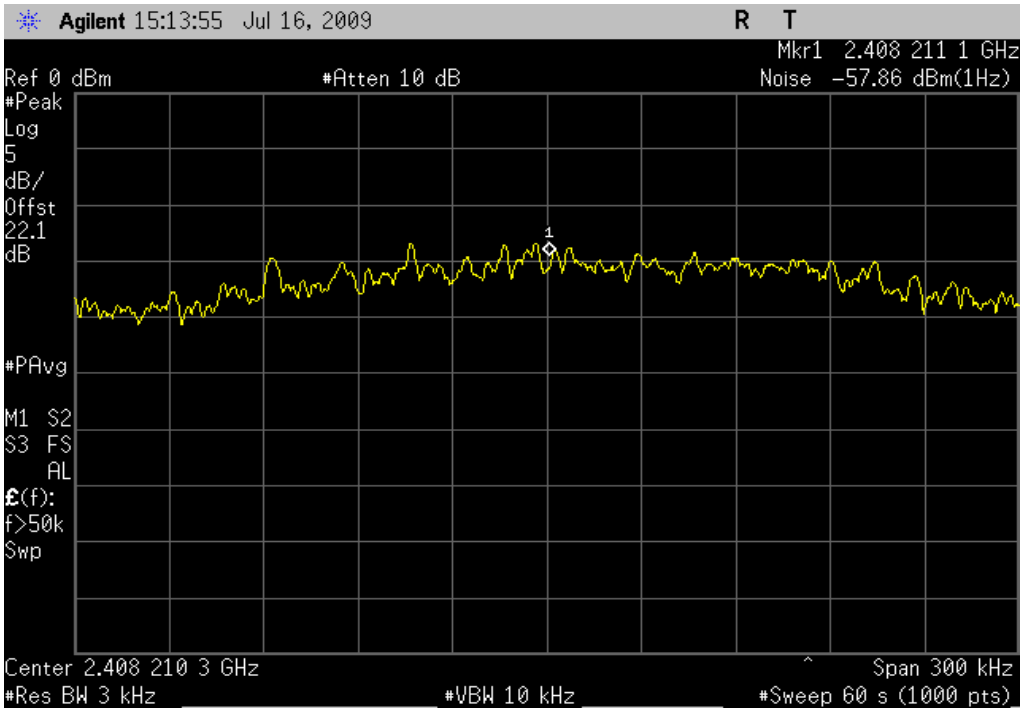
802.11(g) 36 Mbps, Mid Channel					
Result:	Pass	**Value:**	-22.4 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



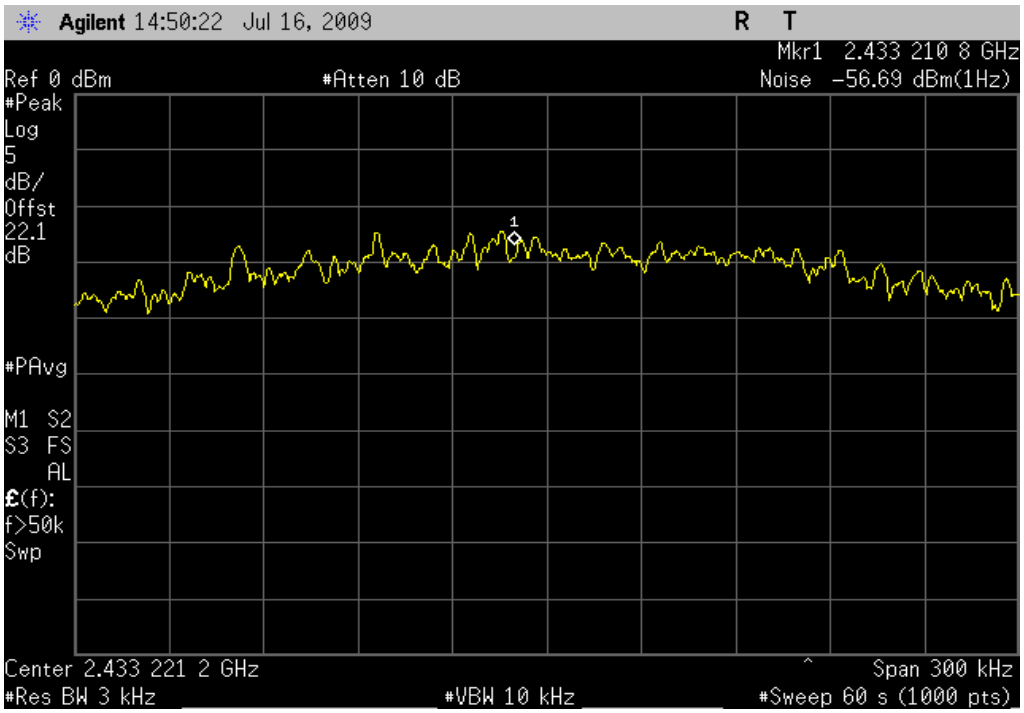
802.11(g) 36 Mbps, High Channel					
Result:	Pass	**Value:**	-23.4 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



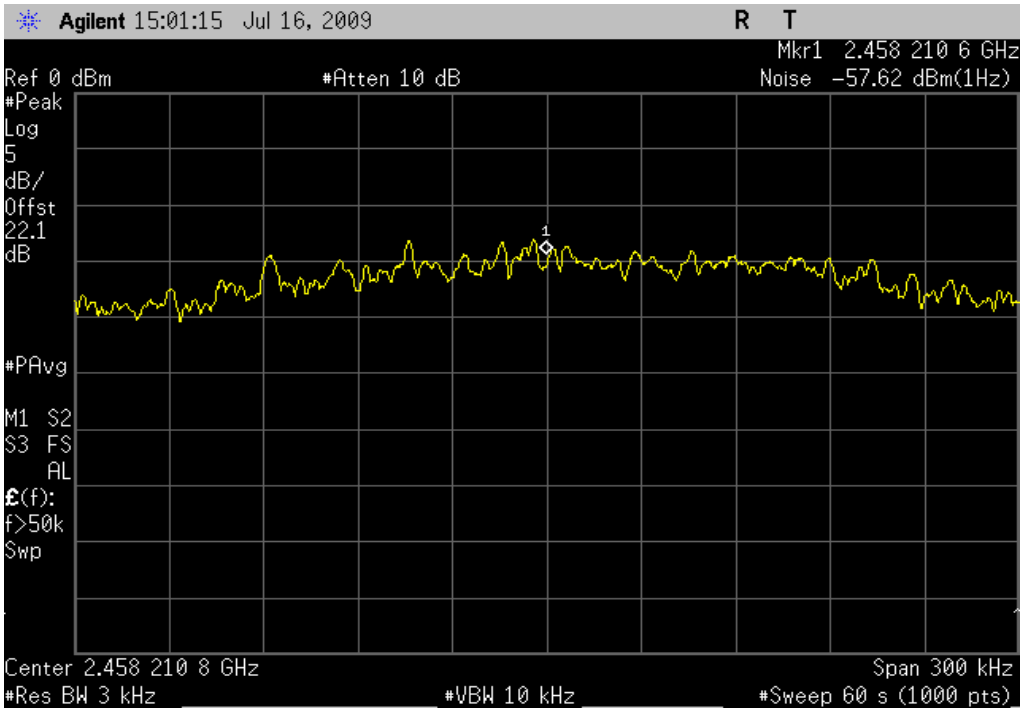
802.11(g) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	-23.1 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



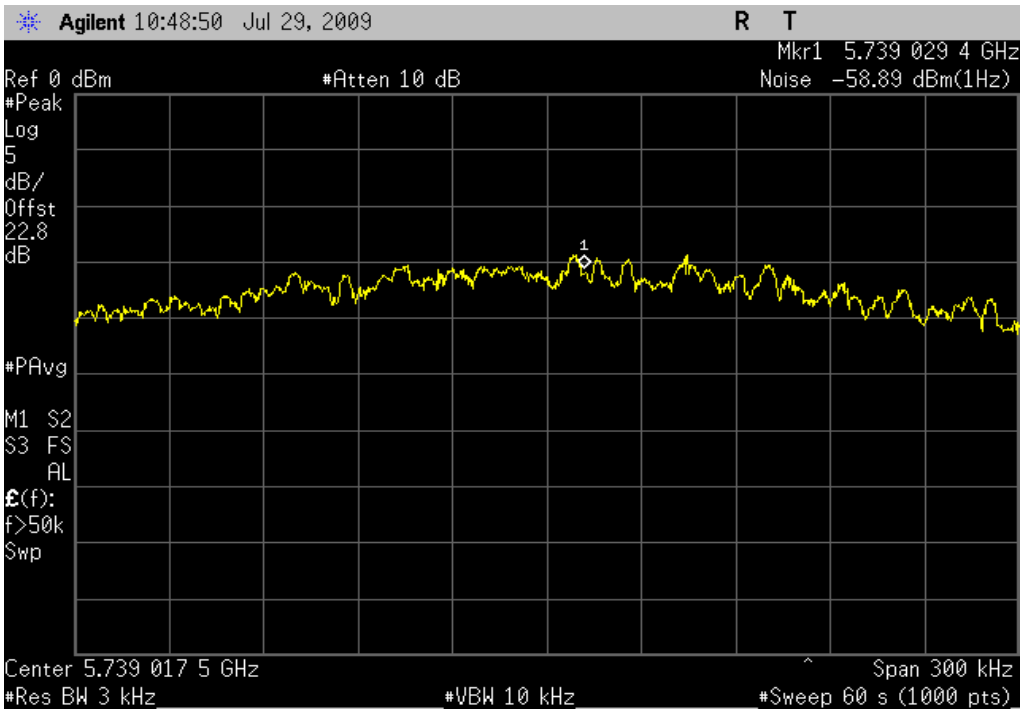
802.11(g) 54 Mbps, Mid Channel					
Result:	Pass	**Value:**	-21.9 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



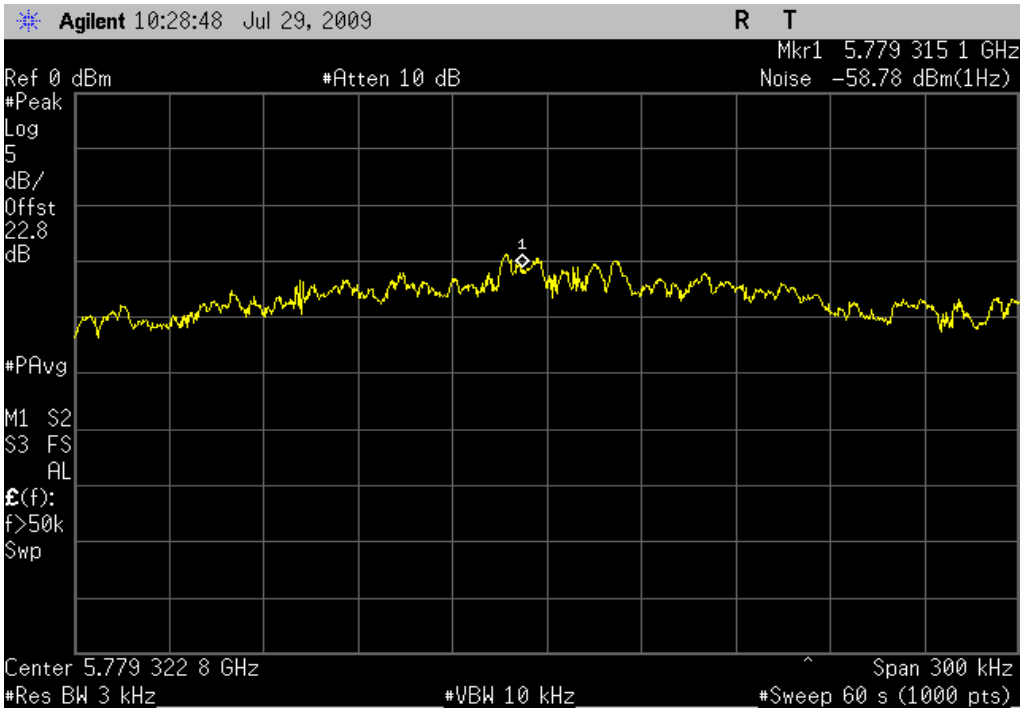
802.11(g) 54 Mbps, High Channel					
Result:	Pass	**Value:**	-22.8 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



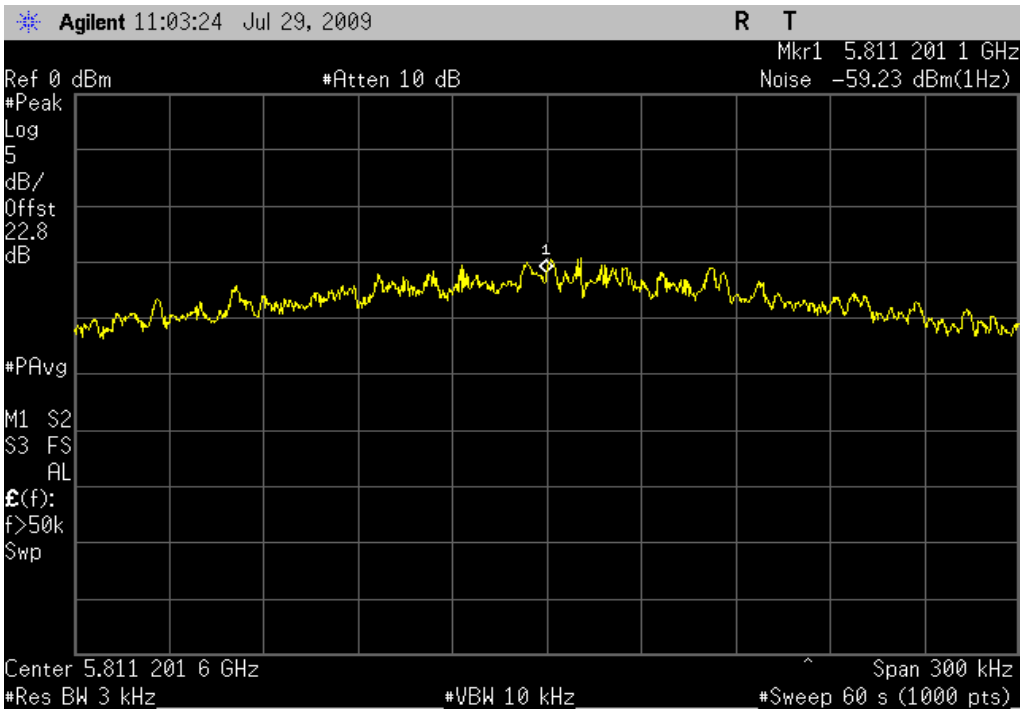
802.11(a) 6 Mbps, Low Channel					
Result:	Pass	**Value:**	-24.1 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



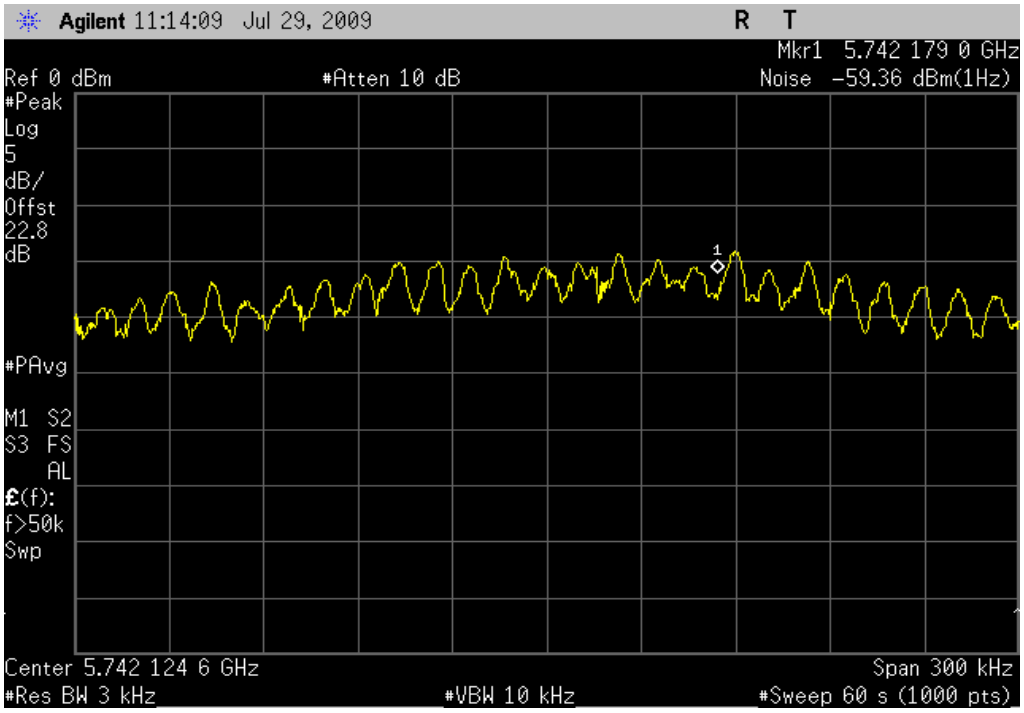
802.11(a) 6 Mbps, Mid Channel					
Result:	Pass	**Value:**	-24.0 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



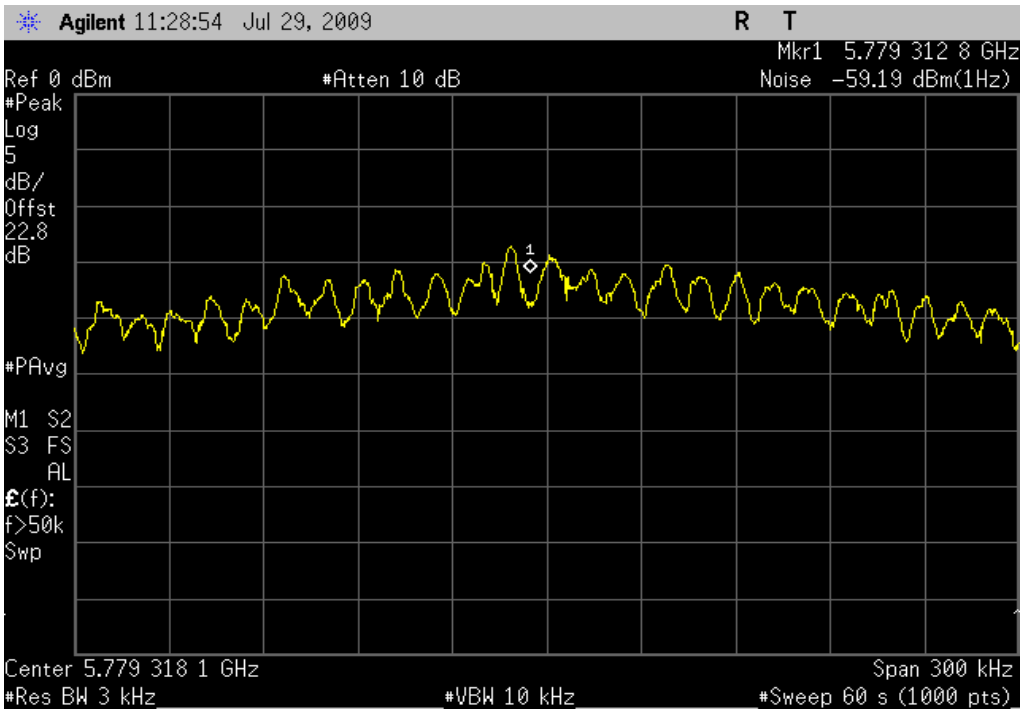
802.11(a) 6 Mbps, High Channel					
Result:	Pass	**Value:**	-24.4 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



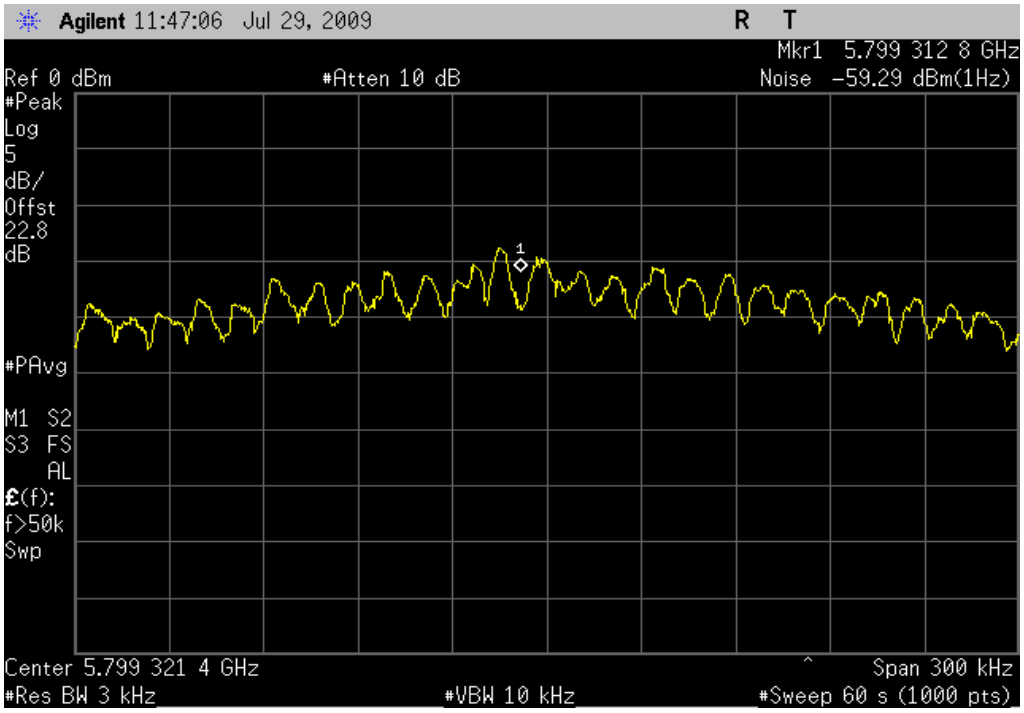
802.11(a) 36 Mbps, Low Channel					
Result:	Pass	**Value:**	-24.6 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



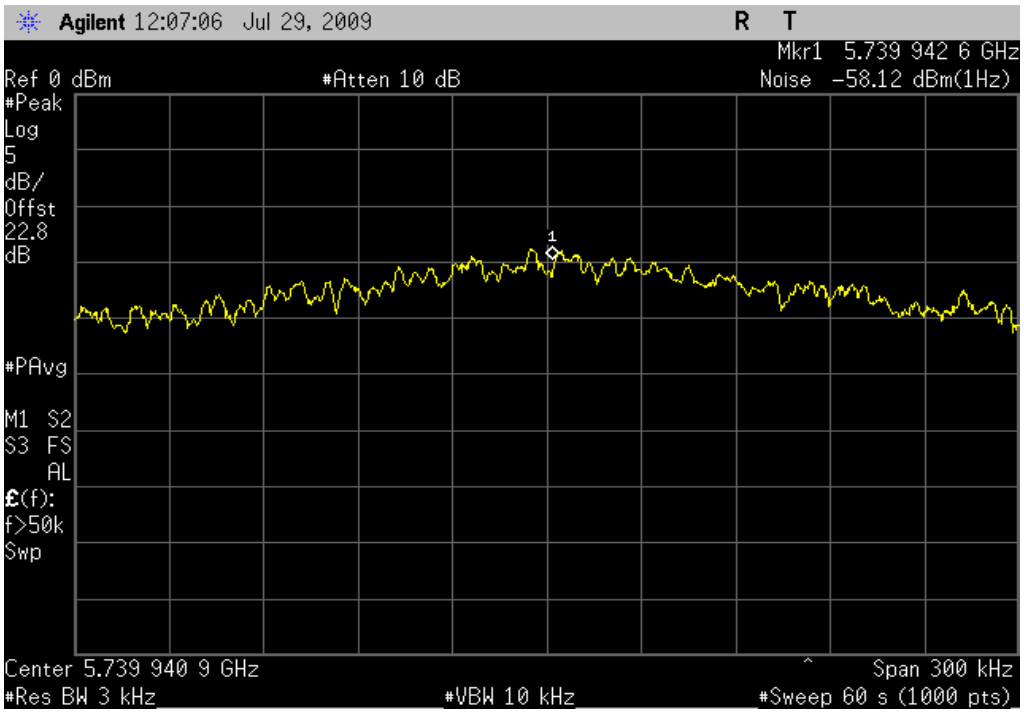
802.11(a) 36 Mbps, Mid Channel					
Result:	Pass	**Value:**	-24.4 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



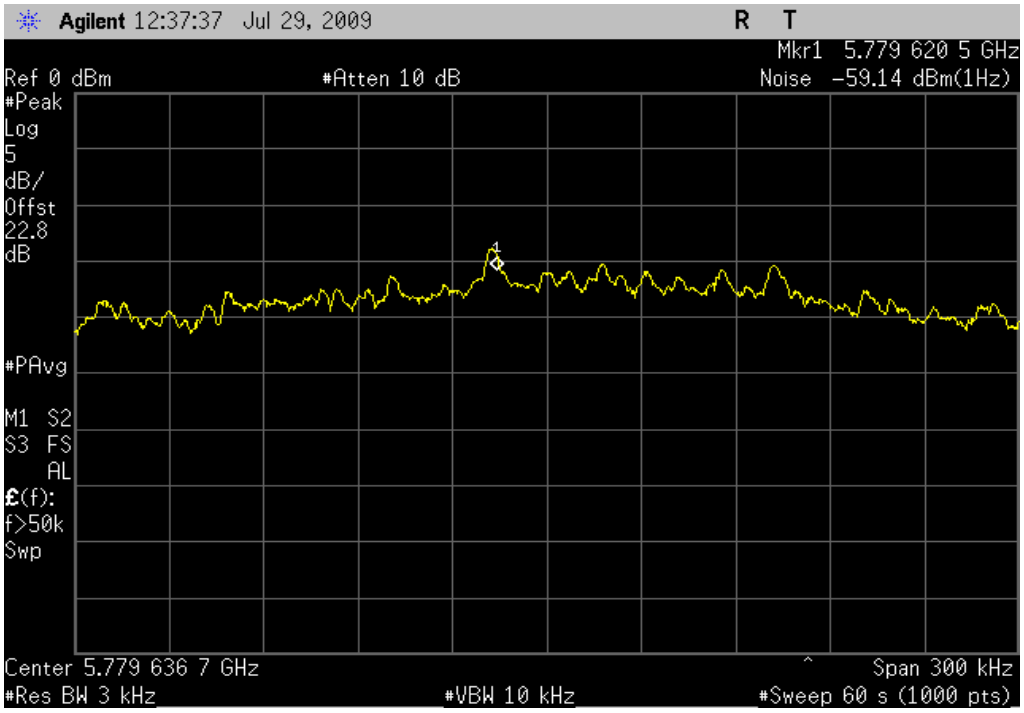
802.11(a) 36 Mbps, High Channel					
Result:	Pass	**Value:**	-24.5 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



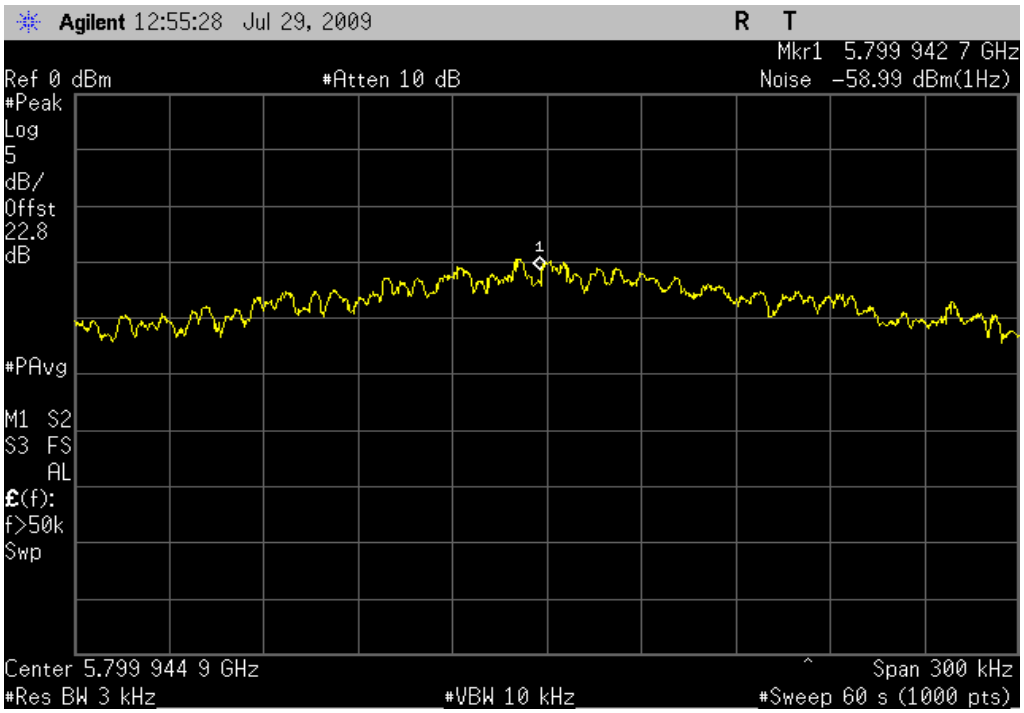
802.11(a) 54 Mbps, Low Channel					
Result:	Pass	**Value:**	-23.3 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



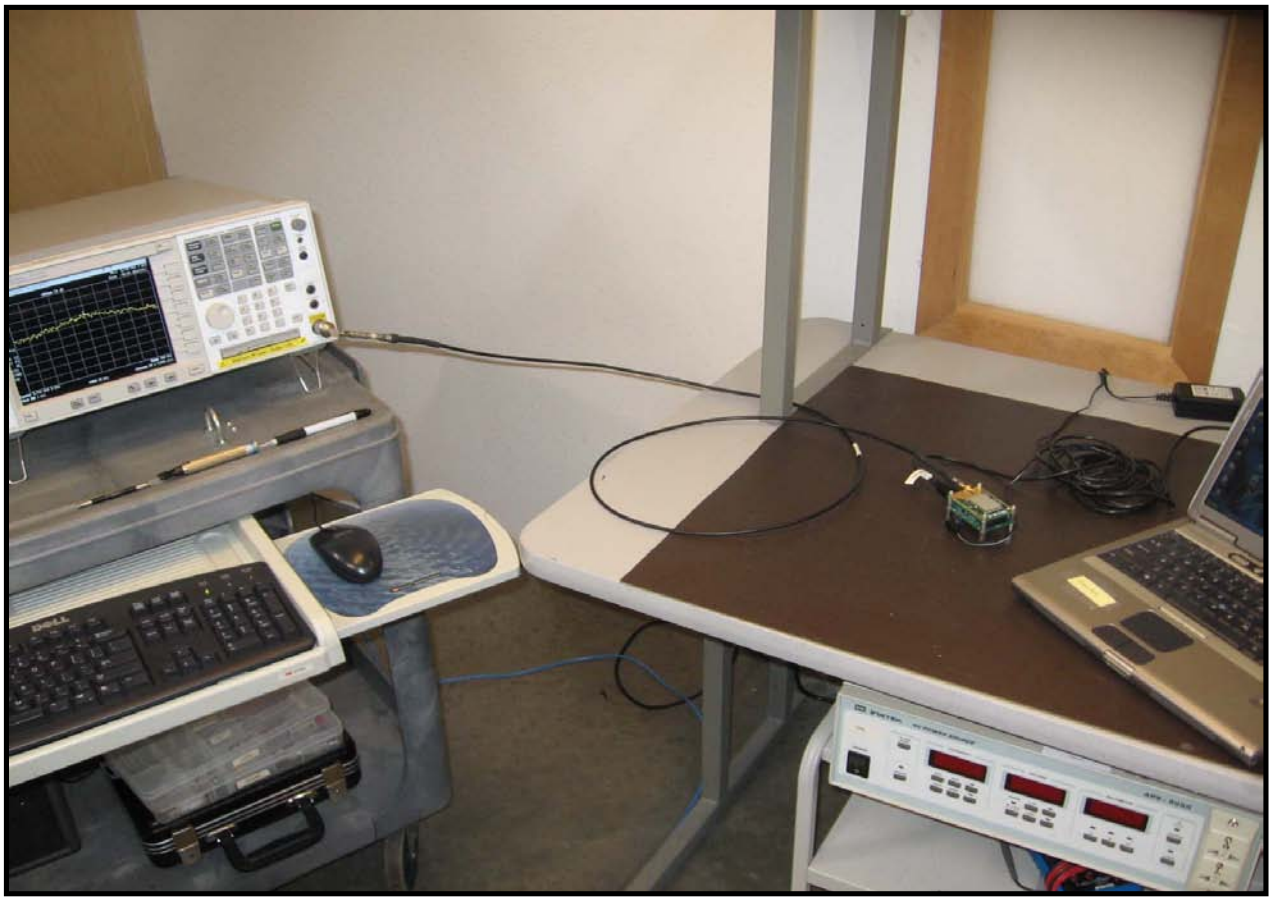
802.11(a) 54 Mbps, Mid Channel					
Result:	Pass	**Value:**	-24.3 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



802.11(a) 54 Mbps, High Channel					
Result:	Pass	**Value:**	-24.2 dBm / 3 kHz	**Limit:**	8 dBm / 3 kHz



POWER SPECTRAL DENSITY



Spurious Radiated 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.

MODES OF OPERATION

Continuous Tx 802.11(a/b/g) @ 1,11, 6, 36, 54 Mbps in the 2.4 and 5.8 GHz bands

ANTENNAS TESTED

Laird-Cushcraft, S2403BP Dipole LP (2.4 GHz)
Laird-Centurion, CAF95989 Panel LP (2.4 GHz)
Laird MAF 94367 Dipole LP (dual band - 2.4 & 5 GHz)

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30MHz	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
Antenna, Horn	ETS	3160-10	AIC	NCR	0
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVN	7/30/2008	13
26-40GHz Cable		TTBJ141-KMKM-72	EVX	7/30/2008	13
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	12/2/2008	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	12/2/2008	13
Antenna, Horn	ETS	3160-09	AHG	NCR	0
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	7/10/2009	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	11/13/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	7/10/2009	13
Antenna, Horn	ETS	3160-07	AHU	NCR	0
High Pass Filter	Micro-Tronics	HPM50111	HFO	7/10/2009	13
EV01 Cables		Double Ridge Horn Cables	EVB	7/10/2009	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	7/10/2009	13
Antenna, Horn	EMCO	3115	AHC	8/12/2008	24
EV01 Cables		Bilog Cables	EVA	7/10/2009	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	7/10/2009	13
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
Spectrum Analyzer	Agilent	E4446A	AAY	12/11/2008	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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation 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 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)			Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4			Date:	08/03/09
Customer:	Intermec Technologies Corporation			Temperature:	24 °C
Attendees:	None			Humidity:	51%
Project:	None			Barometric Pres.:	1014.0mb
Tested by:	Jennifer Herrett	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Centurion, CAF95989 Panel LP

EUT OPERATING MODES

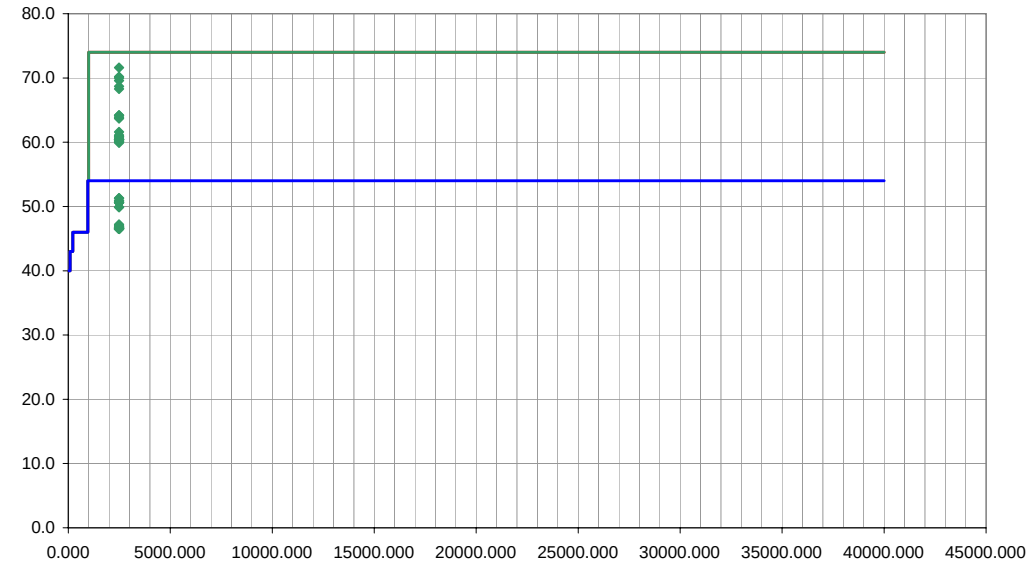
Continuous Tx 802.11(b/g), High Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	5
Results	Pass

Signature



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)	Comments
2483.947	49.1	2.5	221.0	1.0	3.0	20.0	V-Horn	PK	0.0	71.6	74.0	-2.4	EUT vertical. 6Mbps.
2483.503	28.8	2.5	108.0	1.0	3.0	20.0	H-Horn	AV	0.0	51.3	54.0	-2.7	EUT on side. 54Mbps.
2483.510	28.8	2.5	105.0	1.0	3.0	20.0	H-Horn	AV	0.0	51.3	54.0	-2.7	EUT on side. 36Mbps.
2483.500	28.4	2.5	111.0	1.0	3.0	20.0	H-Horn	AV	0.0	50.9	54.0	-3.1	EUT on side. 11Mbps.
2483.540	28.4	2.5	108.0	1.0	3.0	20.0	H-Horn	AV	0.0	50.9	54.0	-3.1	EUT on side. 1Mbps.
2483.520	28.2	2.5	221.0	1.0	3.0	20.0	V-Horn	AV	0.0	50.7	54.0	-3.3	EUT vertical. 6Mbps.
2483.500	28.1	2.5	228.0	1.0	3.0	20.0	V-Horn	AV	0.0	50.6	54.0	-3.4	EUT vertical. 1Mbps.
2483.500	28.1	2.5	200.0	1.0	3.0	20.0	V-Horn	AV	0.0	50.6	54.0	-3.4	EUT vertical. 36Mbps.
2483.500	28.1	2.5	222.0	1.0	3.0	20.0	V-Horn	AV	0.0	50.6	54.0	-3.4	EUT vertical. 54Mbps.
2483.840	47.7	2.5	106.0	1.0	3.0	20.0	H-Horn	PK	0.0	70.2	74.0	-3.8	EUT on side. 6Mbps.
2483.617	47.5	2.5	108.0	1.0	3.0	20.0	H-Horn	PK	0.0	70.0	74.0	-4.0	EUT on side. 54Mbps.
2483.510	27.4	2.5	106.0	1.0	3.0	20.0	H-Horn	AV	0.0	49.9	54.0	-4.1	EUT on side. 6Mbps.
2483.737	27.4	2.5	216.0	1.0	3.0	20.0	V-Horn	AV	0.0	49.9	54.0	-4.1	EUT vertical. 11Mbps.
2483.907	47.1	2.5	105.0	1.0	3.0	20.0	H-Horn	PK	0.0	69.6	74.0	-4.4	EUT on side. 36Mbps.
2483.523	46.2	2.5	200.0	1.0	3.0	20.0	V-Horn	PK	0.0	68.7	74.0	-5.3	EUT vertical. 36Mbps.
2483.503	45.8	2.5	222.0	1.0	3.0	20.0	V-Horn	PK	0.0	68.3	74.0	-5.7	EUT vertical. 54Mbps.
2483.660	24.7	2.5	160.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	EUT vertical. 54Mbps.
2483.557	24.5	2.5	246.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.0	54.0	-7.0	EUT horizontal. 54Mbps.
2483.553	24.3	2.5	176.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	EUT on side. 36Mbps.
2483.597	24.3	2.5	42.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	EUT on side. 6Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/03/09
Customer:	Intermec Technologies Corporation	Temperature:	24 °C
Attendees:	None	Humidity:	51%
Project:	None	Barometric Pres.:	1014.0mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Centurion, CAF95989 Panel LP

EUT OPERATING MODES

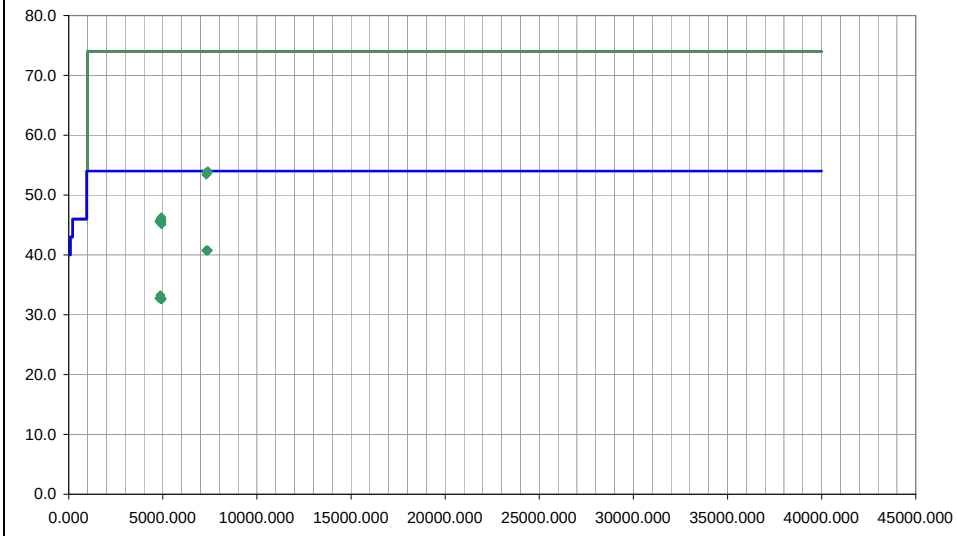
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	5
Results	Pass

Signature



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)	Comments
7312.858	24.9	15.9	197.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	EUT on side. Mid Channel, 1Mbps.
7384.467	24.7	16.1	191.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	EUT on side. High Channel, 1Mbps.
7311.267	24.8	15.9	319.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	EUT on side. Mid Channel, 1Mbps.
7389.192	24.6	16.1	196.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	EUT on side. High Channel, 1Mbps.
7384.617	37.9	16.1	191.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.0	74.0	-20.0	EUT on side. High Channel, 1Mbps.
7310.800	37.9	15.9	319.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	EUT on side. Mid Channel, 1Mbps.
7386.792	37.6	16.1	196.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.7	74.0	-20.3	EUT on side. High Channel, 1Mbps.
7309.667	37.5	15.9	197.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.4	74.0	-20.6	EUT on side. Mid Channel, 1Mbps.
4873.950	24.0	9.3	156.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.3	54.0	-20.7	EUT on side. Mid Channel, 1Mbps.
4820.142	23.5	9.3	65.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	EUT on side. Low Channel, 1Mbps.
4821.825	23.4	9.3	255.0	1.9	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. Low Channel, 1Mbps.
4920.625	23.2	9.5	12.0	1.5	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. High Channel, 54Mbps.
4920.733	23.2	9.5	76.0	2.0	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. High Channel, 6Mbps.
4921.733	23.2	9.5	84.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT horizontal. High Channel, 1Mbps.
4922.000	23.2	9.5	0.0	2.0	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT horizontal. High Channel, 1Mbps.
4922.908	23.2	9.5	41.0	2.9	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT vertical. High Channel, 1Mbps.
4923.725	23.2	9.5	235.0	2.0	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. High Channel, 1Mbps.
4923.875	23.2	9.5	74.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. High Channel, 1Mbps.
4923.992	23.2	9.5	239.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT vertical. High Channel, 1Mbps.
4869.258	23.4	9.3	89.0	1.5	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. Mid Channel, 1Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)			Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4			Date:	08/03/09
Customer:	Intermec Technologies Corporation			Temperature:	24 °C
Attendees:	None			Humidity:	51%
Project:	None			Barometric Pres.:	1014.0mb
Tested by:	Jennifer Herrett	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Centurion, CAF95989 Panel LP

EUT OPERATING MODES

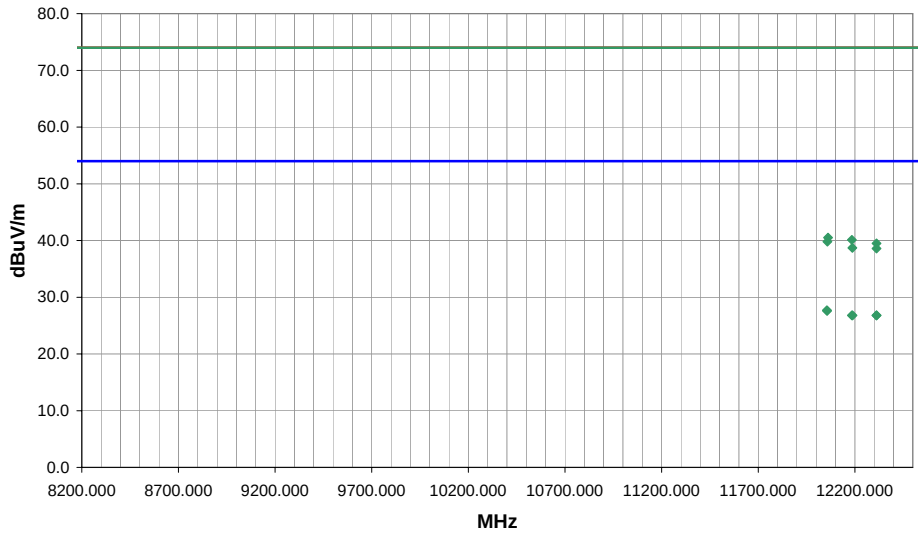
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	6
Configuration #	5
Results	Pass

Signature



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)	Comments
12055.390	30.8	-3.1	154.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.7	54.0	-26.3	EUT on side. Low Channel, 1Mbps.
12056.220	30.6	-3.0	104.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.6	54.0	-26.4	EUT on side. Low Channel, 1Mbps.
12312.130	29.7	-2.9	228.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.8	54.0	-27.2	EUT on side. High Channel, 1Mbps.
12312.130	29.7	-2.9	360.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2	EUT on side. High Channel, 1Mbps.
12184.940	29.8	-3.0	40.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.8	54.0	-27.2	EUT on side. Mid Channel, 1Mbps.
12188.040	29.8	-3.0	20.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2	EUT on side. Mid Channel, 1Mbps.
12061.410	43.6	-3.1	104.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.5	74.0	-33.5	EUT on side. Low Channel, 1Mbps.
12184.500	43.1	-3.0	40.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.1	74.0	-33.9	EUT on side. Mid Channel, 1Mbps.
12057.680	42.9	-3.1	154.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.8	74.0	-34.2	EUT on side. Low Channel, 1Mbps.
12311.690	42.4	-2.9	228.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.5	74.0	-34.5	EUT on side. High Channel, 1Mbps.
12186.910	41.7	-3.0	20.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.7	74.0	-35.3	EUT on side. Mid Channel, 1Mbps.
12311.860	41.5	-2.9	360.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.6	74.0	-35.4	EUT on side. High Channel, 1Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/04/09
Customer:	Intermec Technologies Corporation	Temperature:	26 °C
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1015.0mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird MAF 94367 Dipole LP.

EUT OPERATING MODES

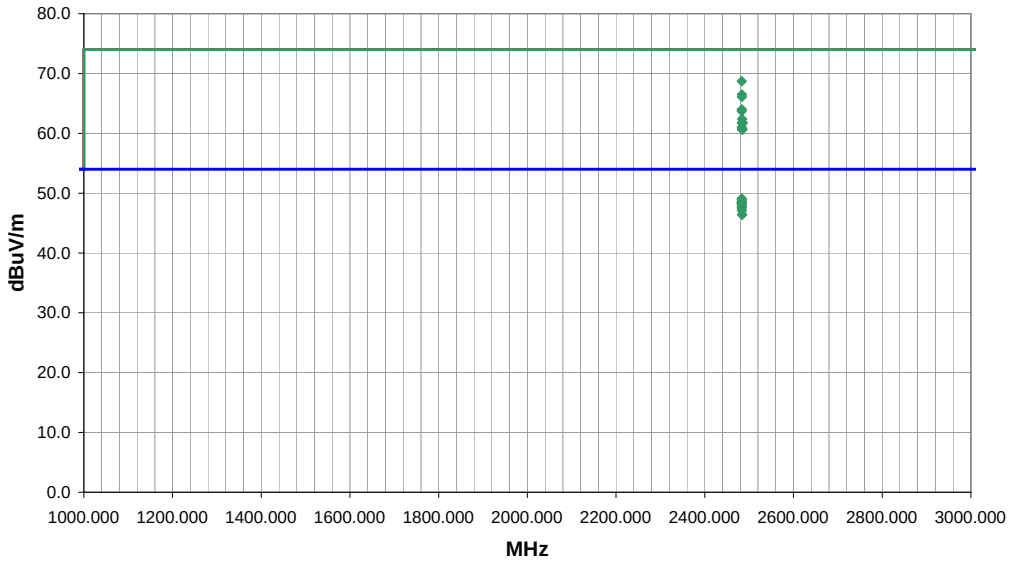
Continuous Tx 802.11(b/g), High Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7
Configuration #	6
Results	Pass

Signature



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)	Comments
2483.500	26.6	2.5	82.0	1.0	3.0	20.0	H-Horn	AV	0.0	49.1	54.0	-4.9	EUT horizontal. 36Mbps.
2483.517	26.4	2.5	80.0	1.0	3.0	20.0	H-Horn	AV	0.0	48.9	54.0	-5.1	EUT horizontal. 6Mbps.
2483.517	46.2	2.5	80.0	1.0	3.0	20.0	H-Horn	PK	0.0	68.7	74.0	-5.3	EUT horizontal. 6Mbps.
2483.503	26.1	2.5	67.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.6	54.0	-5.4	EUT vertical. 6Mbps.
2483.643	26.0	2.5	80.0	1.0	3.0	20.0	H-Horn	AV	0.0	48.5	54.0	-5.5	EUT horizontal. 11Mbps.
2483.517	25.9	2.5	50.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.4	54.0	-5.6	EUT vertical. 36Mbps.
2483.527	25.8	2.5	78.0	1.0	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	EUT horizontal. 54Mbps.
2483.607	25.8	2.5	84.0	1.0	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	EUT horizontal. 1Mbps.
2483.543	25.7	2.5	68.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.2	54.0	-5.8	EUT vertical. 11Mbps.
2483.570	25.3	2.5	104.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.8	54.0	-6.2	EUT vertical. 1Mbps.
2483.603	25.3	2.5	131.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.8	54.0	-6.2	EUT on side. 1Mbps.
2483.507	25.0	2.5	85.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5	EUT vertical. 54Mbps.
2483.840	24.6	2.5	265.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.1	54.0	-6.9	EUT on side. 1Mbps.
2483.813	44.0	2.5	67.0	1.0	3.0	20.0	V-Horn	PK	0.0	66.5	74.0	-7.5	EUT vertical. 6Mbps.
2484.037	23.9	2.5	36.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6	EUT horizontal. 1Mbps.
2484.400	23.9	2.5	322.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	EUT vertical. 1Mbps.
2483.893	43.6	2.5	82.0	1.0	3.0	20.0	H-Horn	PK	0.0	66.1	74.0	-7.9	EUT horizontal. 36Mbps.
2483.573	41.5	2.5	50.0	1.0	3.0	20.0	V-Horn	PK	0.0	64.0	74.0	-10.0	EUT vertical. 36Mbps.
2483.537	41.2	2.5	78.0	1.0	3.0	20.0	H-Horn	PK	0.0	63.7	74.0	-10.3	EUT horizontal. 54Mbps.
2484.207	39.9	2.5	85.0	1.0	3.0	20.0	V-Horn	PK	0.0	62.4	74.0	-11.6	EUT vertical. 54Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/04/09
Customer:	Intermec Technologies Corporation	Temperature:	26 °C
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1015.0mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird MAF 94367 Dipole LP.

EUT OPERATING MODES

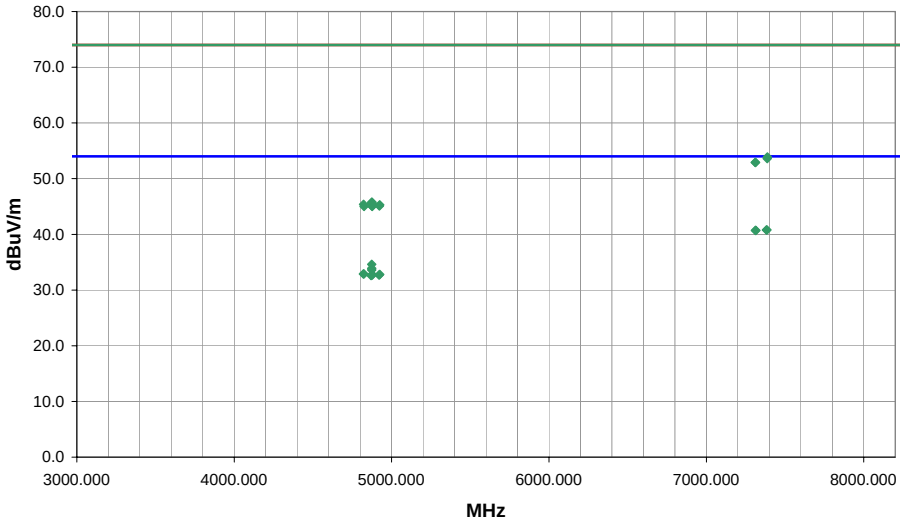
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8
Configuration #	6
Results	Pass

Signature



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)	Comments
7381.775	24.7	16.1	259.0	3.4	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	EUT vertical. High Channel, 1Mbps.
7384.608	24.7	16.1	52.0	3.2	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	EUT horizontal. High Channel, 1Mbps.
7311.150	24.8	15.9	21.0	2.8	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	EUT horizontal. Mid Channel, 1Mbps.
7314.975	24.8	15.9	195.0	2.6	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	EUT vertical. Mid Channel, 1Mbps.
4873.958	25.3	9.3	225.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.6	54.0	-19.4	EUT horizontal. Mid Channel, 1Mbps.
7387.742	37.8	16.1	259.0	3.4	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	EUT vertical. High Channel, 1Mbps.
4874.033	24.6	9.3	76.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	EUT vertical. Mid Channel, 1Mbps.
4874.000	24.3	9.3	150.0	1.7	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4	EUT on side. Mid Channel, 1Mbps.
7386.208	37.5	16.1	52.0	3.2	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	EUT horizontal. High Channel, 1Mbps.
4820.400	23.6	9.3	174.0	2.4	3.0	0.0	H-Horn	AV	0.0	32.9	54.0	-21.1	EUT horizontal. Low Channel, 1Mbps.
4824.083	23.6	9.3	117.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.9	54.0	-21.1	EUT vertical. Low Channel, 1Mbps.
7310.517	37.0	15.9	21.0	2.8	3.0	0.0	H-Horn	PK	0.0	52.9	74.0	-21.1	EUT horizontal. Mid Channel, 1Mbps.
7312.133	37.0	15.9	195.0	2.6	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	EUT vertical. Mid Channel, 1Mbps.
4876.317	23.5	9.3	67.0	3.7	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	EUT horizontal. Mid Channel, 1Mbps.
4924.100	23.3	9.5	108.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	EUT vertical. High Channel, 1Mbps.
4920.792	23.2	9.5	54.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT horizontal. High Channel, 1Mbps.
4876.767	23.4	9.3	220.0	1.4	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	EUT on side. Mid Channel, 1Mbps.
4869.533	23.3	9.3	27.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	EUT vertical. Mid Channel, 1Mbps.
4874.658	36.5	9.3	27.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.8	74.0	-28.2	EUT vertical. Mid Channel, 1Mbps.
4874.142	36.4	9.3	225.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.7	74.0	-28.3	EUT horizontal. Mid Channel, 1Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/04/09
Customer:	Intermec Technologies Corporation	Temperature:	26 °C
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1015.0mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird MAF 94367 Dipole LP

EUT OPERATING MODES

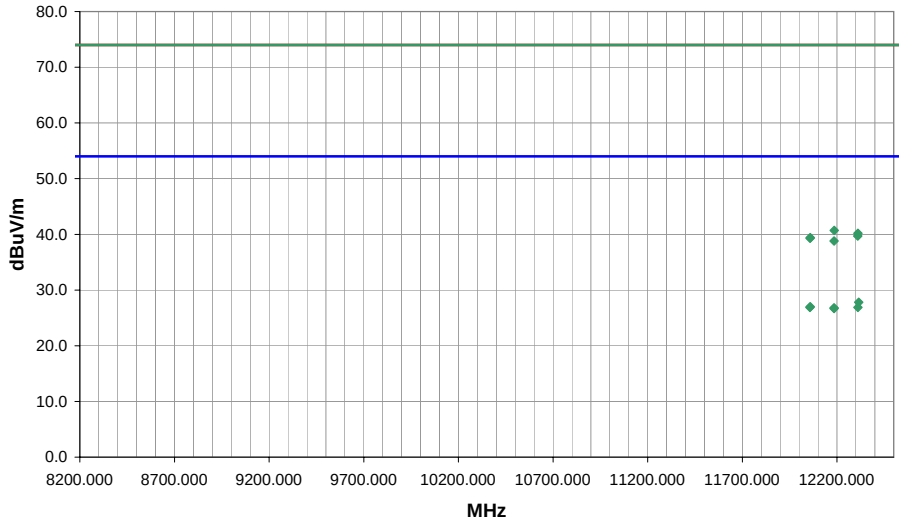
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9
Configuration #	6
Results	Pass

Signature



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)	Comments
12314.740	30.7	-2.9	182.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.8	54.0	-26.2	EUT vertical. High Channel, 1Mbps.
12058.660	30.1	-3.1	168.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.0	54.0	-27.0	EUT vertical. Low Channel, 1Mbps.
12056.950	30.0	-3.1	285.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.9	54.0	-27.1	EUT horizontal. Low Channel, 1Mbps.
12310.980	29.8	-2.9	158.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.9	54.0	-27.1	EUT horizontal. High Channel, 1Mbps.
12185.090	29.8	-3.0	276.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2	EUT vertical. Mid Channel, 1Mbps.
12184.450	29.7	-3.0	136.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.7	54.0	-27.3	EUT horizontal. Mid Channel, 1Mbps.
12185.700	43.7	-3.0	276.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.7	74.0	-33.3	EUT vertical. Mid Channel, 1Mbps.
12310.720	43.1	-2.9	158.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.2	74.0	-33.8	EUT horizontal. High Channel, 1Mbps.
12309.970	42.6	-2.9	182.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.7	74.0	-34.3	EUT vertical. High Channel, 1Mbps.
12058.400	42.5	-3.1	168.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.4	74.0	-34.6	EUT vertical. Low Channel, 1Mbps.
12058.010	42.4	-3.1	285.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.3	74.0	-34.7	EUT horizontal. Low Channel, 1Mbps.
12184.630	41.8	-3.0	136.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.8	74.0	-35.2	EUT horizontal. Mid Channel, 1Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	07/28/09
Customer:	Intermec Technologies Corporation	Temperature:	25.4 °C
Attendees:	None	Humidity:	48%
Project:	None	Barometric Pres.:	1009.6mb
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV07

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Cushcraft, S2403BP Dipole LP

EUT OPERATING MODES

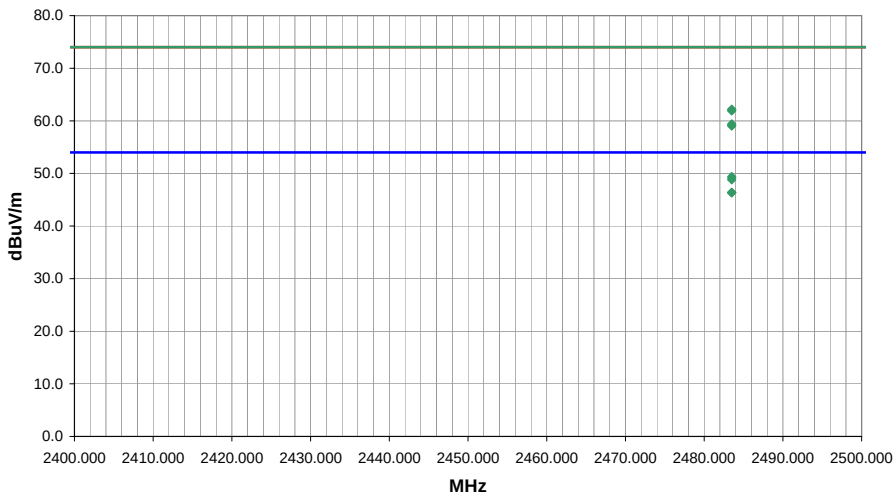
Continuous Tx 802.11(b/g), High Channel, 1Mbps

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	2
Results	Pass

Signature



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)	Comments
2483.500	26.9	2.5	335.0	1.0	3.0	20.0	V-Horn	AV	0.0	49.4	54.0	-4.6	High channel, Antenna vertical, EUT horizontal.
2483.500	26.6	2.5	320.0	1.0	3.0	20.0	V-Horn	AV	0.0	49.1	54.0	-4.9	High channel, Antenna vertical, EUT vertical.
2483.500	26.3	2.5	241.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.8	54.0	-5.2	High channel, Antenna vertical, EUT on its side.
2483.500	23.9	2.5	22.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	High channel, Antenna vertical, EUT on its side.
2483.500	23.9	2.5	124.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	High channel, Antenna vertical, EUT vertical.
2483.500	23.8	2.5	45.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	High channel, Antenna vertical, EUT horizontal.
2483.500	39.7	2.5	335.0	1.0	3.0	20.0	V-Horn	PK	0.0	62.2	74.0	-11.8	High channel, Antenna vertical, EUT horizontal.
2483.500	39.5	2.5	320.0	1.0	3.0	20.0	V-Horn	PK	0.0	62.0	74.0	-12.0	High channel, Antenna vertical, EUT vertical.
2483.500	39.4	2.5	241.0	1.0	3.0	20.0	V-Horn	PK	0.0	61.9	74.0	-12.1	High channel, Antenna vertical, EUT on its side.
2483.500	36.9	2.5	45.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.4	74.0	-14.6	High channel, Antenna vertical, EUT horizontal.
2483.500	36.7	2.5	22.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.2	74.0	-14.8	High channel, Antenna vertical, EUT on its side.
2483.500	36.5	2.5	124.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.0	74.0	-15.0	High channel, Antenna vertical, EUT vertical.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/05/09
Customer:	Intermec Technologies Corporation	Temperature:	26
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1017.1mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Cushcraft, S2403BP Dipole LP

EUT OPERATING MODES

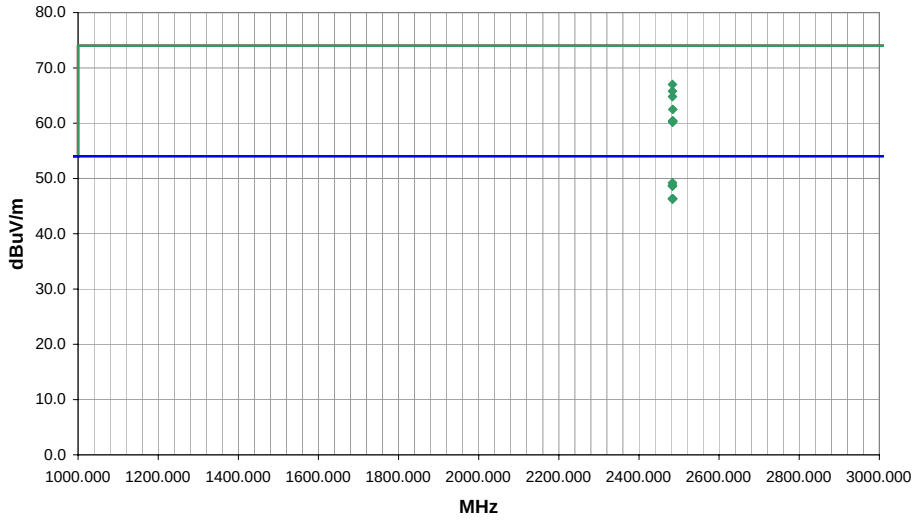
Continuous Tx 802.11(b/g), High Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
Configuration #	7
Results	Pass

Jennifer Herrett
Signature



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)	Comments
2483.503	26.7	2.5	197.0	1.0	3.0	20.0	V-Horn	AV	0.0	49.2	54.0	-4.8	Antenna vertical, EUT horizontal. 36Mbps.
2483.503	26.2	2.5	360.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.7	54.0	-5.3	Antenna vertical, EUT horizontal. 54Mbps.
2483.600	26.2	2.5	360.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.7	54.0	-5.3	Antenna vertical, EUT horizontal. 6Mbps.
2483.780	26.1	2.5	-1.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.6	54.0	-5.4	Antenna vertical, EUT horizontal. 11Mbps.
2483.573	44.5	2.5	360.0	1.0	3.0	20.0	V-Horn	PK	0.0	67.0	74.0	-7.0	Antenna vertical, EUT horizontal. 6Mbps.
2483.533	23.8	2.5	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Antenna vertical, EUT on side. 11Mbps.
2483.637	23.8	2.5	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Antenna vertical, EUT on side. 36Mbps.
2484.157	23.8	2.5	-1.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Antenna vertical, EUT on side. 6Mbps.
2484.217	23.8	2.5	-1.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Antenna vertical, EUT on side. 54Mbps.
2483.573	43.3	2.5	197.0	1.0	3.0	20.0	V-Horn	PK	0.0	65.8	74.0	-8.2	Antenna vertical, EUT horizontal. 36Mbps.
2483.817	42.3	2.5	360.0	1.0	3.0	20.0	V-Horn	PK	0.0	64.8	74.0	-9.2	Antenna vertical, EUT horizontal. 54Mbps.
2484.623	40.0	2.5	-1.0	1.2	3.0	20.0	V-Horn	PK	0.0	62.5	74.0	-11.5	Antenna vertical, EUT horizontal. 11Mbps.
2483.837	37.9	2.5	-1.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.4	74.0	-13.6	Antenna vertical, EUT on side. 54Mbps.
2484.467	37.9	2.5	-1.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.4	74.0	-13.6	Antenna vertical, EUT on side. 6Mbps.
2483.977	37.7	2.5	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8	Antenna vertical, EUT on side. 36Mbps.
2483.997	37.7	2.5	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8	Antenna vertical, EUT on side. 11Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4	**Date:**	08/04/09
Customer:	Intermec Technologies Corporation	**Temperature:**	26 °C
Attendees:	None	**Humidity:**	41%
Project:	None	**Barometric Pres.:**	1015.0mb
Tested by:	Jennifer Herrett	**Power:** 120VAC/60Hz	**Job Site:** EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Cushcraft, S2403BP Dipole LP

EUT OPERATING MODES

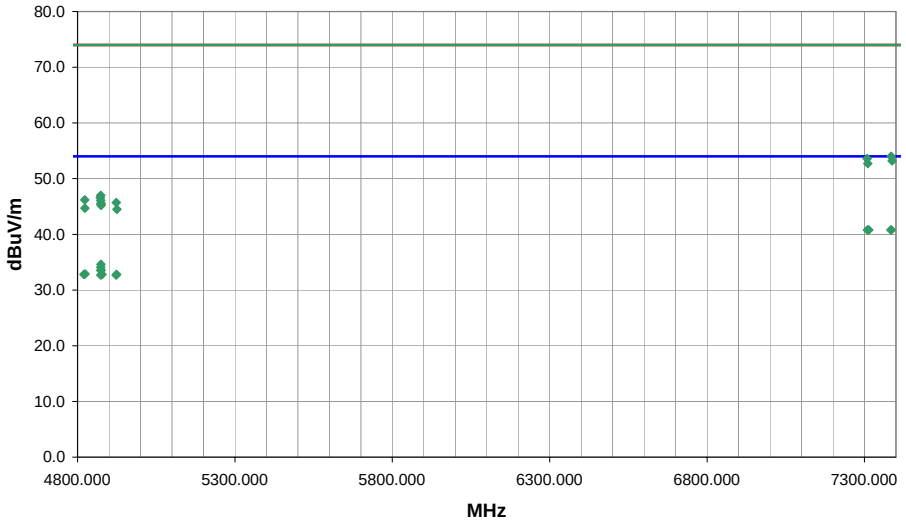
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	10
Configuration #	7
Results	Pass

Signature



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)	Comments
7309.583	24.9	15.9	117.0	3.4	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	EUT vertical. Mid Channel, 1Mbps.
7313.658	24.9	15.9	199.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	EUT vertical. Mid Channel, 1Mbps.
7384.283	24.7	16.1	223.0	2.1	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	EUT vertical. High Channel, 1Mbps.
7384.700	24.7	16.1	205.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	EUT vertical. High Channel, 1Mbps.
4873.975	25.3	9.3	159.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4	EUT horizontal. Mid Channel, 1Mbps.
4873.892	24.8	9.3	181.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.1	54.0	-19.9	EUT horizontal. Mid Channel, 1Mbps.
7384.542	37.9	16.1	205.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.0	74.0	-20.0	EUT vertical. High Channel, 1Mbps.
7308.692	37.7	15.9	199.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.6	74.0	-20.4	EUT vertical. Mid Channel, 1Mbps.
4874.075	24.3	9.3	185.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4	EUT vertical. Mid Channel, 1Mbps.
4874.008	24.2	9.3	116.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.5	54.0	-20.5	EUT on side. Mid Channel, 1Mbps.
7387.708	37.1	16.1	223.0	2.1	3.0	0.0	V-Horn	PK	0.0	53.2	74.0	-20.8	EUT vertical. High Channel, 1Mbps.
4823.925	23.6	9.3	7.0	1.6	3.0	0.0	V-Horn	AV	0.0	32.9	54.0	-21.1	EUT vertical. Low Channel, 1Mbps.
4820.550	23.5	9.3	310.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.8	54.0	-21.2	EUT vertical. Low Channel, 1Mbps.
4878.000	23.5	9.3	173.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	EUT on side. Mid Channel, 1Mbps.
4923.825	23.3	9.5	72.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	EUT vertical. High Channel, 1Mbps.
4922.283	23.2	9.5	143.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT vertical. High Channel, 1Mbps.
7310.517	36.8	15.9	117.0	3.4	3.0	0.0	H-Horn	PK	0.0	52.7	74.0	-21.3	EUT vertical. Mid Channel, 1Mbps.
4873.475	23.4	9.3	58.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	EUT vertical. Mid Channel, 1Mbps.
4873.883	37.7	9.3	159.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.0	74.0	-27.0	EUT horizontal. Mid Channel, 1Mbps.
4871.950	37.3	9.3	116.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.6	74.0	-27.4	EUT on side. Mid Channel, 1Mbps.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/04/09
Customer:	Intermec Technologies Corporation	Temperature:	26 °C
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1015.0mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird-Cushcraft, S2403BP Dipole LP

EUT OPERATING MODES

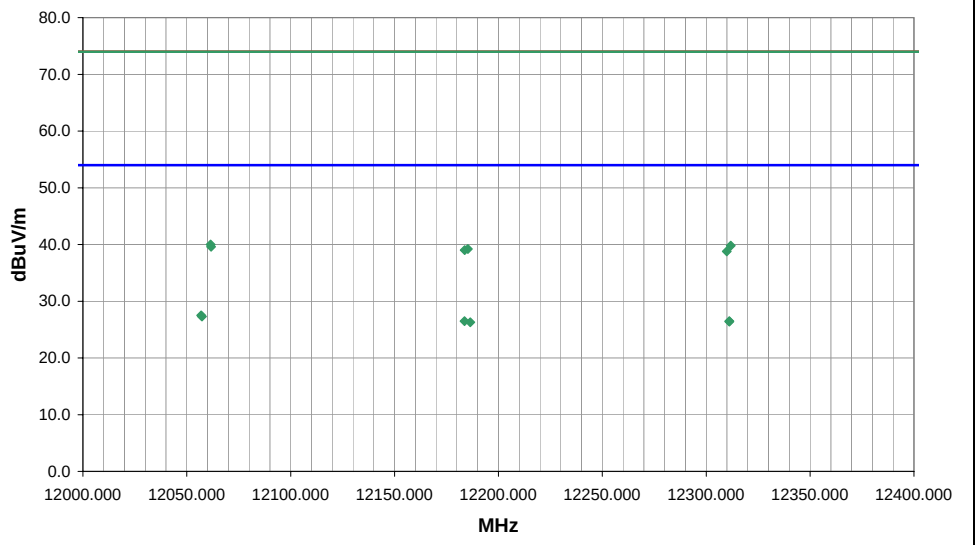
Continuous Tx 802.11(b/g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	11
Configuration #	7
Results	Pass

Signature Jennifer Herrett



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)	Comments
12056.890	30.5	-3.0	6.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.5	54.0	-26.5	EUT vertical. Low Channel, 1Mbps.
12057.300	30.3	-3.0	61.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.3	54.0	-26.7	EUT vertical. Low Channel, 1Mbps.
12183.670	29.5	-3.0	49.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5	EUT vertical. Mid Channel, 1Mbps.
12311.110	29.4	-2.9	161.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5	EUT vertical. High Channel, 1Mbps.
12311.160	29.3	-2.9	191.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.4	54.0	-27.6	EUT vertical. High Channel, 1Mbps.
12186.430	29.3	-3.0	284.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.3	54.0	-27.7	EUT vertical. Mid Channel, 1Mbps.
12061.480	43.1	-3.1	6.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.0	74.0	-34.0	EUT vertical. Low Channel, 1Mbps.
12311.800	42.7	-2.9	161.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.8	74.0	-34.2	EUT vertical. High Channel, 1Mbps.
12061.670	42.7	-3.1	61.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.6	74.0	-34.4	EUT vertical. Low Channel, 1Mbps.
12185.300	42.2	-3.0	49.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.2	74.0	-34.8	EUT vertical. Mid Channel, 1Mbps.
12183.780	42.0	-3.0	284.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.0	74.0	-35.0	EUT vertical. Mid Channel, 1Mbps.
12309.860	41.7	-2.9	191.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.8	74.0	-35.2	EUT vertical. High Channel, 1Mbps.

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/08/09
Customer:	Intermec Technologies Corporation	Temperature:	24.8 °C
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1022.3mb
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

Laird MAF 94367 Dipole LP

EUT OPERATING MODES

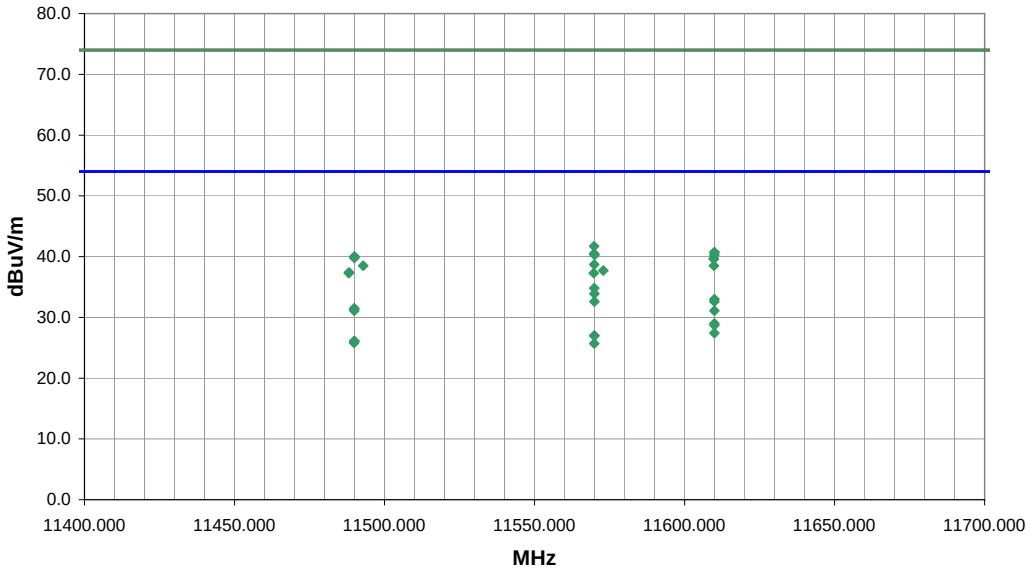
Continuous Tx 802.11(a),

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	23
Configuration #	6
Results	Pass

Signature



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)	Comments
11569.910	41.7	-6.9	8.0	1.8	0.0	0.0	V-Horn	AV	0.0	34.8	54.0	-19.2	Channel 157, 6Mbps
11569.920	40.8	-6.9	360.0	1.7	0.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	Channel 157, 36Mbps
11609.920	39.5	-6.5	17.0	1.0	0.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0	Channel 161, 6Mbps
11569.920	39.4	-6.8	8.0	1.0	0.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	Channel 157, 54Mbps
11609.920	39.0	-6.4	360.0	1.4	0.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	Channel 161, 36Mbps
11489.910	39.0	-7.5	3.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	Channel 149, 54Mbps
11489.890	38.9	-7.5	8.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	Channel 149, 6Mbps
11489.890	38.6	-7.5	6.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	Channel 149, 36Mbps
11609.930	37.6	-6.5	17.0	1.4	0.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	Channel 161, 54Mbps
11609.940	35.5	-6.5	275.0	1.0	0.0	0.0	H-Horn	AV	0.0	29.0	54.0	-25.0	Channel 161, 36Mbps
11609.940	35.2	-6.5	274.0	1.0	0.0	0.0	H-Horn	AV	0.0	28.7	54.0	-25.3	Channel 161, 6Mbps
11609.930	33.9	-6.5	6.0	1.0	0.0	0.0	H-Horn	AV	0.0	27.4	54.0	-26.6	Channel 161, 54Mbps
11569.890	33.9	-6.9	68.0	1.0	0.0	0.0	H-Horn	AV	0.0	27.0	54.0	-27.0	Channel 157, 36Mbps
11569.930	33.9	-6.9	10.0	1.0	0.0	0.0	H-Horn	AV	0.0	27.0	54.0	-27.0	Channel 157, 54Mbps
11489.850	33.5	-7.4	69.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.1	54.0	-27.9	Channel 149, 54Mbps
11489.990	33.6	-7.5	229.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.1	54.0	-27.9	Channel 149, 6Mbps
11489.850	33.3	-7.5	313.0	1.0	0.0	0.0	H-Horn	AV	0.0	25.8	54.0	-28.2	Channel 149, 36Mbps
11569.910	32.5	-6.8	247.0	1.0	0.0	0.0	H-Horn	AV	0.0	25.7	54.0	-28.3	Channel 157, 6Mbps
11569.850	48.6	-6.9	360.0	1.7	0.0	0.0	V-Horn	PK	0.0	41.7	74.0	-32.3	Channel 157, 36Mbps
11609.870	47.2	-6.5	17.0	1.4	0.0	0.0	V-Horn	PK	0.0	40.7	74.0	-33.3	Channel 161, 54Mbps

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)			**Work Order:**	INMC0546
Serial Number:	00-21-e8-70-09-c4			**Date:**	08/10/09
Customer:	Intermec Technologies Corporation			**Temperature:**	24
Attendees:	None			**Humidity:**	43%
Project:	None			**Barometric Pres.:**	1019.3mb
Tested by:	Jennifer Herrett	**Power:**	120VAC/60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird MAF 94367 Dipole LP

EUT OPERATING MODES

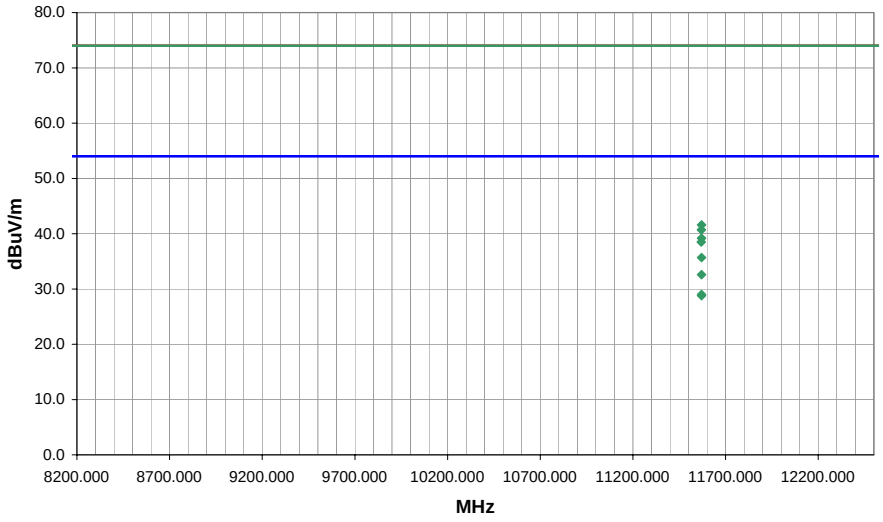
Continuous Tx 802.11(a)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25
Configuration #	6
Results	Pass

Signature Jennifer Herrett



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)	Comments
11569.930	42.6	-6.9	88.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.7	54.0	-18.3	EUT on side. B4 Channel 157, 6Mbps.
11569.940	39.5	-6.9	171.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	EUT horizontal. B4 Channel 157, 6Mbps.
11569.920	35.9	-6.9	64.0	1.0	3.0	0.0	V-Horn	AV	0.0	29.0	54.0	-25.0	EUT on side. B4 Channel 157, 6Mbps.
11569.890	35.7	-6.9	63.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.8	54.0	-25.2	EUT horizontal. B4 Channel 157, 6Mbps.
11569.880	48.5	-6.9	88.0	1.0	3.0	0.0	H-Horn	PK	0.0	41.6	74.0	-32.4	EUT on side. B4 Channel 157, 6Mbps.
11569.790	47.6	-6.9	171.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.7	74.0	-33.3	EUT horizontal. B4 Channel 157, 6Mbps.
11569.830	46.1	-6.9	63.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.2	74.0	-34.8	EUT horizontal. B4 Channel 157, 6Mbps.
11568.590	45.4	-6.9	64.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.5	74.0	-35.5	EUT on side. B4 Channel 157, 6Mbps.

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2008.07.21
EMI 2009.4.13

EUT:	Galileo modular radio (TI)	Work Order:	INMC0546
Serial Number:	00-21-e8-70-09-c4	Date:	08/10/09
Customer:	Intermec Technologies Corporation	Temperature:	24 °C
Attendees:	None	Humidity:	43%
Project:	None	Barometric Pres.:	1019.3mb
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Laird MAF 94367 Dipole LP

EUT OPERATING MODES

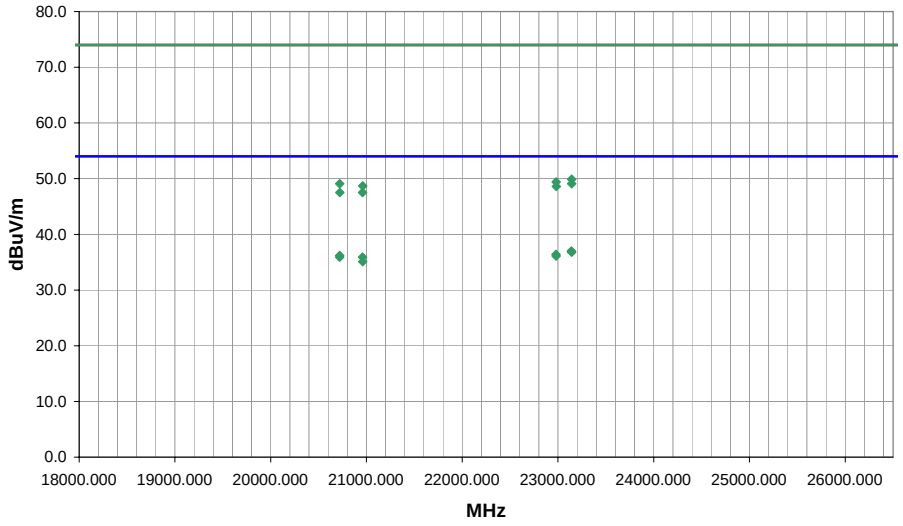
Continuous Tx 802.11(a)

DEVIATIONS FROM TEST STANDARD

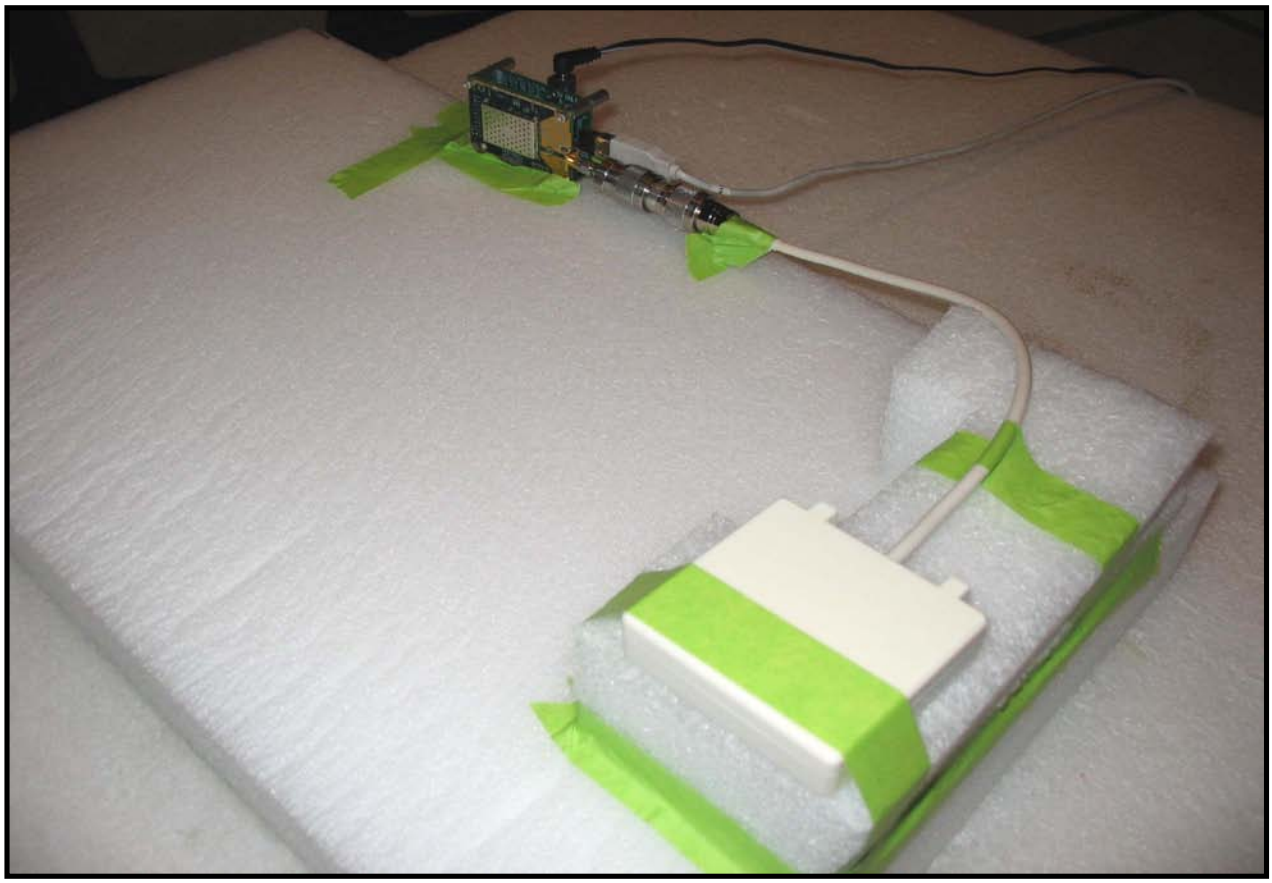
No deviations.

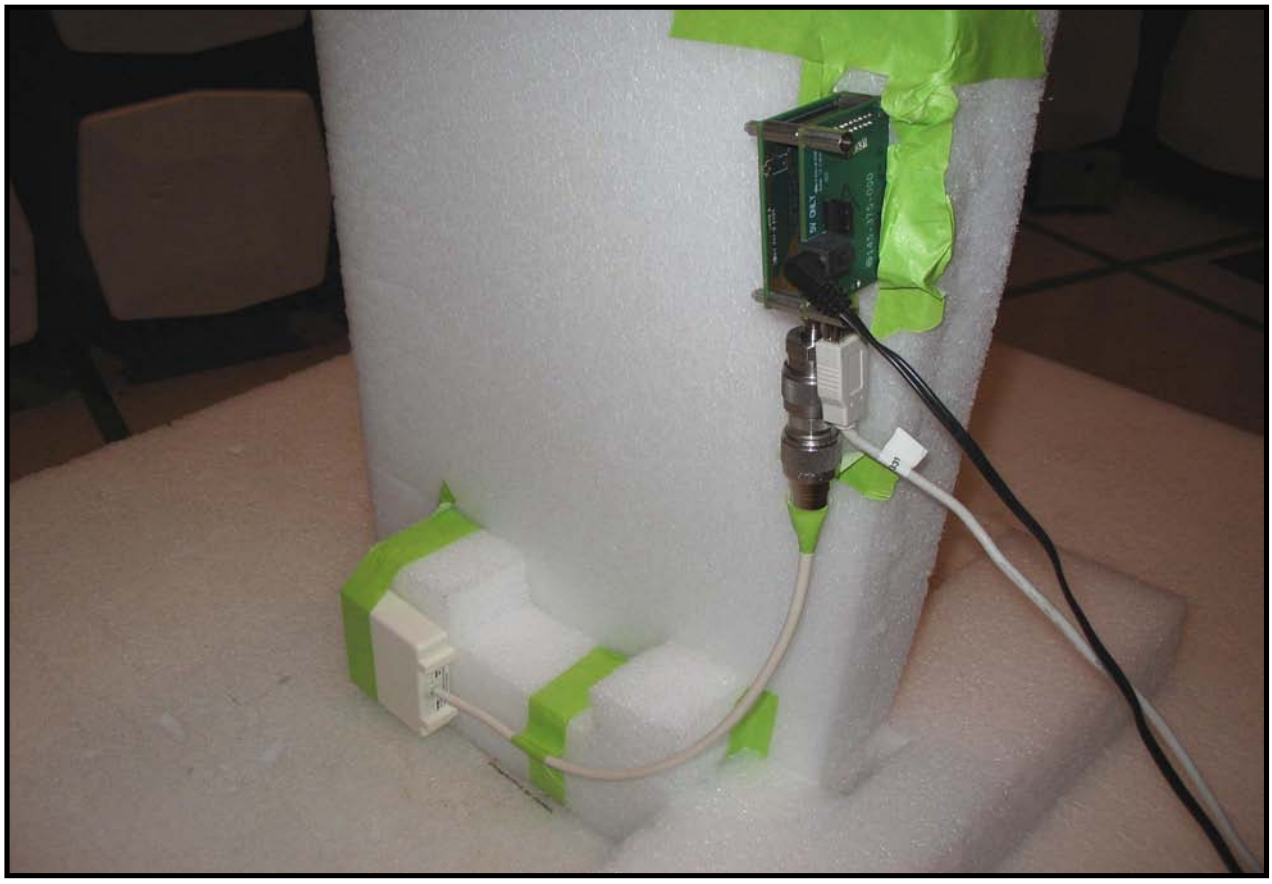
Run #	27
Configuration #	6
Results	Pass

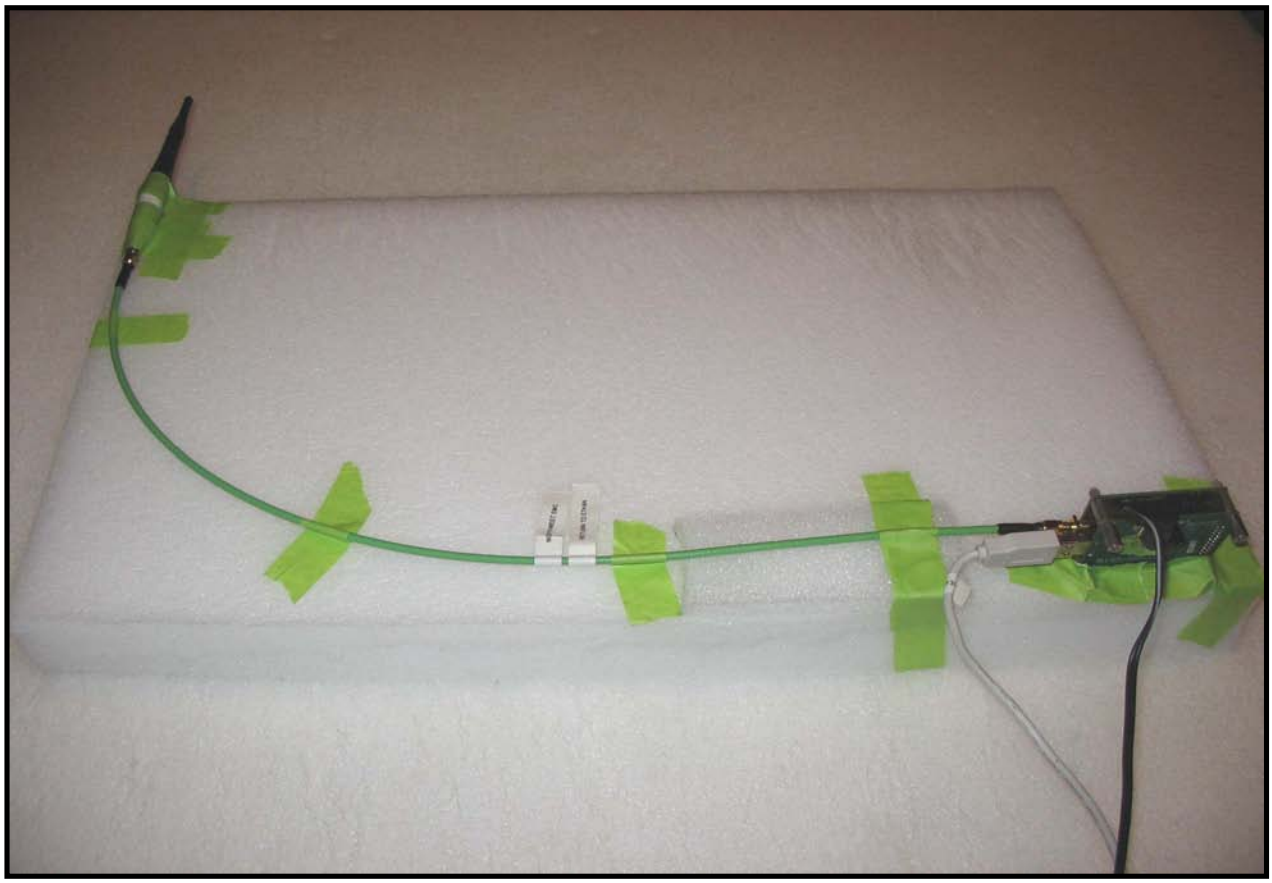
Signature Jennifer Herrett

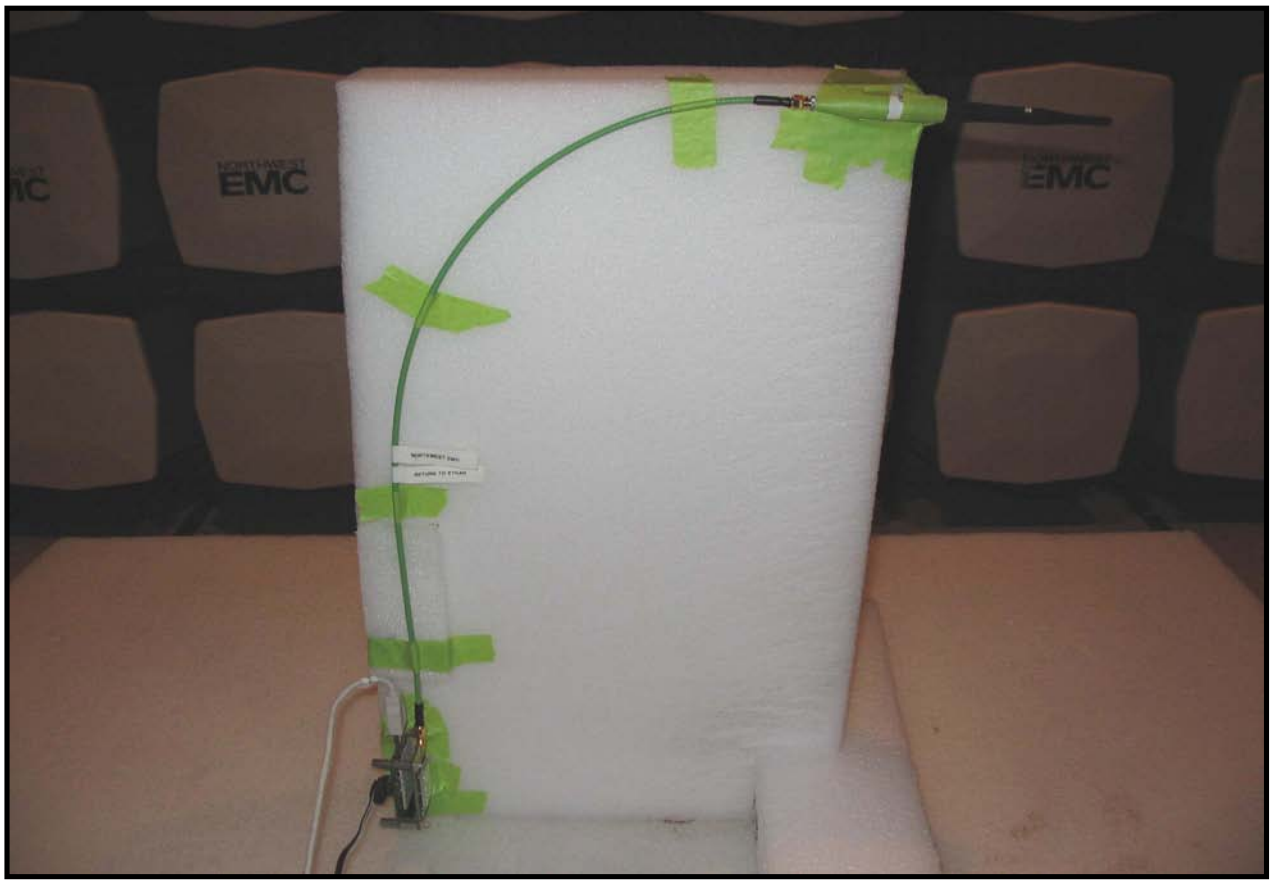


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
23139.680	27.8	9.2	-1.0	1.0	3.0	0.0	-High Horı	AV	0.0	37.0	54.0	-17.0	EUT on side. B4 Channel 157, 6Mbps.
23142.810	27.6	9.2	360.0	1.0	3.0	0.0	√-High Horı	AV	0.0	36.8	54.0	-17.2	EUT vertical. B4 Channel 157, 6Mbps.
22979.890	27.2	9.2	360.0	1.0	3.0	0.0	-High Horı	AV	0.0	36.4	54.0	-17.6	EUT on side. B4 Channel 149, 6Mbps.
20719.930	28.8	7.4	341.0	1.0	3.0	0.0	√-High Horı	AV	0.0	36.2	54.0	-17.8	EUT vertical. B1 Channel 36, 6Mbps.
22980.690	26.9	9.2	-1.0	1.0	3.0	0.0	√-High Horı	AV	0.0	36.1	54.0	-17.9	EUT vertical. B4 Channel 149, 6Mbps.
20719.930	28.5	7.4	-1.0	1.0	3.0	0.0	-High Horı	AV	0.0	35.9	54.0	-18.1	EUT on side. B1 Channel 36, 6Mbps.
20959.740	28.4	7.5	-1.0	1.0	3.0	0.0	-High Horı	AV	0.0	35.9	54.0	-18.1	EUT on side. B1 Channel 48, 6Mbps.
20960.650	27.6	7.5	-1.0	1.0	3.0	0.0	√-High Horı	AV	0.0	35.1	54.0	-18.9	EUT vertical. B1 Channel 48, 6Mbps.
23142.310	40.7	9.2	-1.0	1.0	3.0	0.0	-High Horı	PK	0.0	49.9	74.0	-24.1	EUT on side. B4 Channel 157, 6Mbps.
22980.220	40.2	9.2	-1.0	1.0	3.0	0.0	√-High Horı	PK	0.0	49.4	74.0	-24.6	EUT vertical. B4 Channel 149, 6Mbps.
23142.650	39.9	9.2	360.0	1.0	3.0	0.0	√-High Horı	PK	0.0	49.1	74.0	-24.9	EUT vertical. B4 Channel 157, 6Mbps.
20720.170	41.7	7.4	336.0	1.0	3.0	0.0	√-High Horı	PK	0.0	49.1	74.0	-24.9	EUT vertical. B1 Channel 36, 6Mbps.
20960.430	41.2	7.5	-1.0	1.0	3.0	0.0	-High Horı	PK	0.0	48.7	74.0	-25.3	EUT on side. B1 Channel 48, 6Mbps.
22983.380	39.4	9.2	360.0	1.0	3.0	0.0	-High Horı	PK	0.0	48.6	74.0	-25.4	EUT on side. B4 Channel 149, 6Mbps.
20958.540	40.0	7.5	-1.0	1.0	3.0	0.0	√-High Horı	PK	0.0	47.5	74.0	-26.5	EUT vertical. B1 Channel 48, 6Mbps.
20722.450	40.1	7.4	-1.0	1.0	3.0	0.0	-High Horı	PK	0.0	47.5	74.0	-26.5	EUT on side. B1 Channel 36, 6Mbps.








EMC
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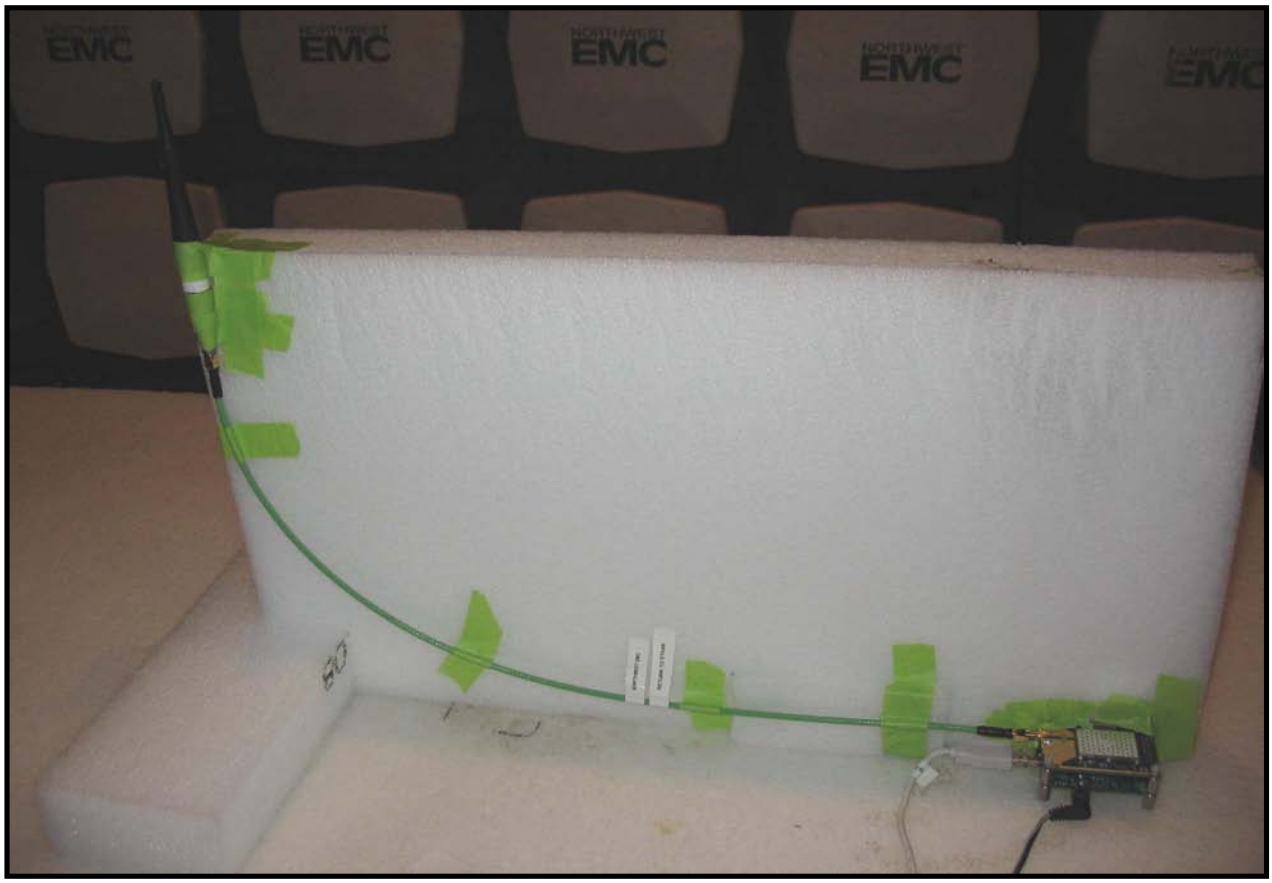

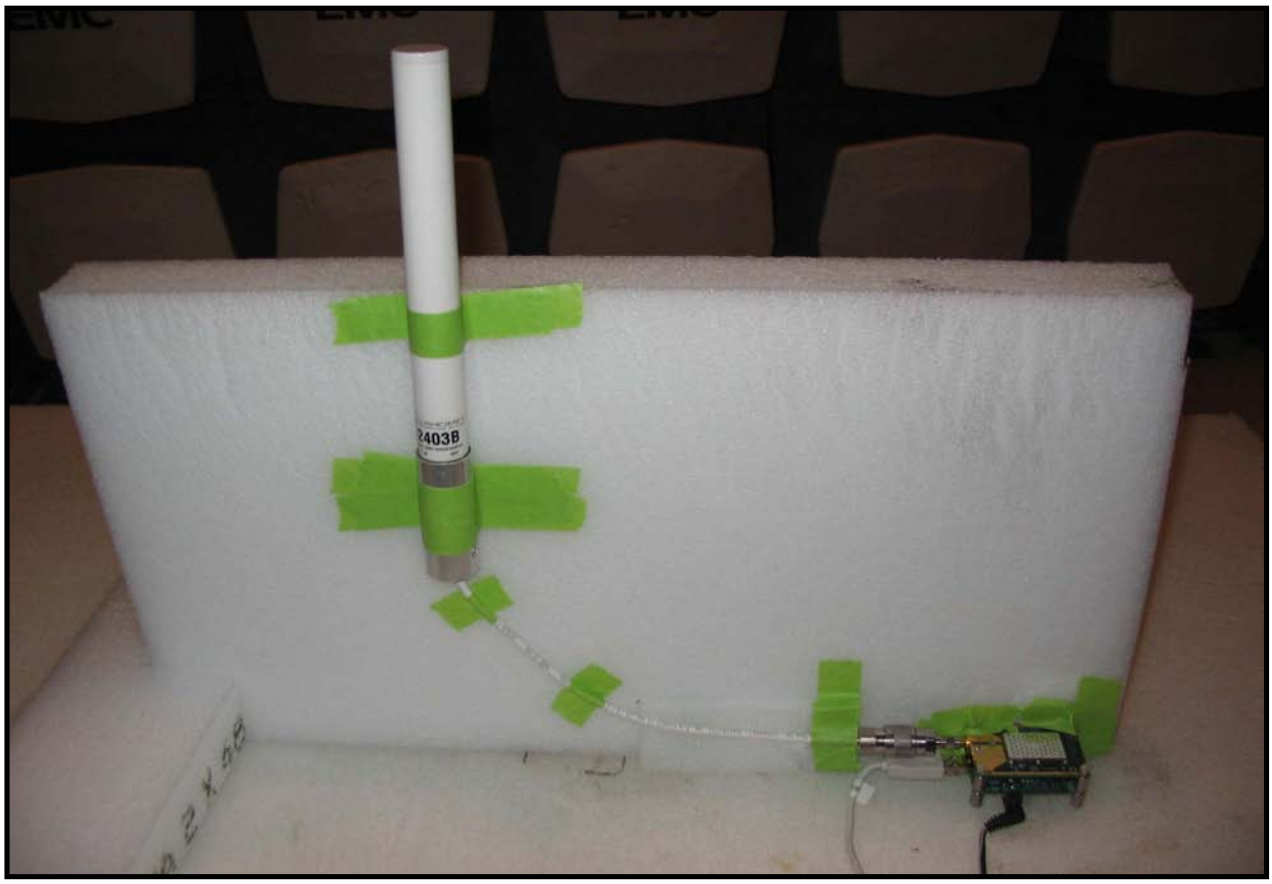
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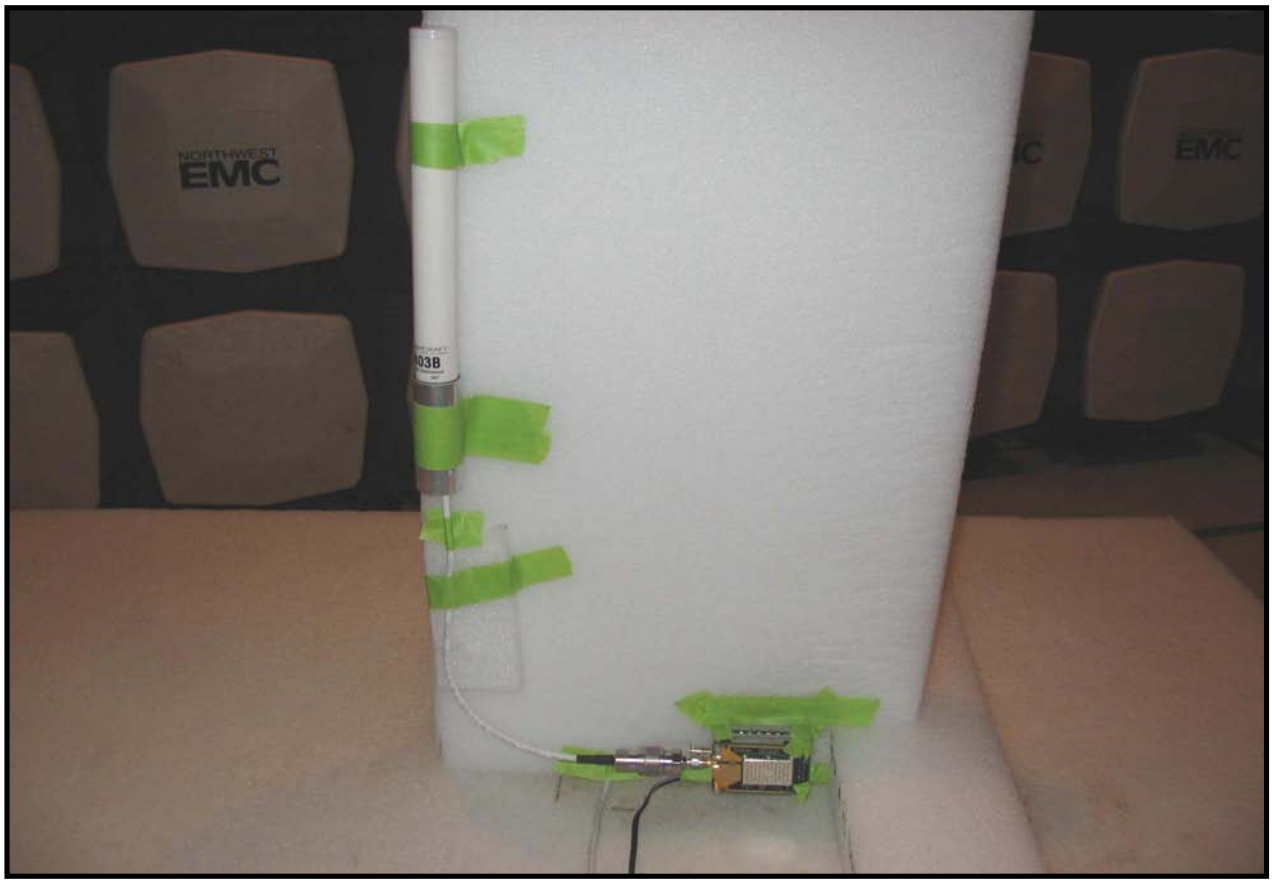
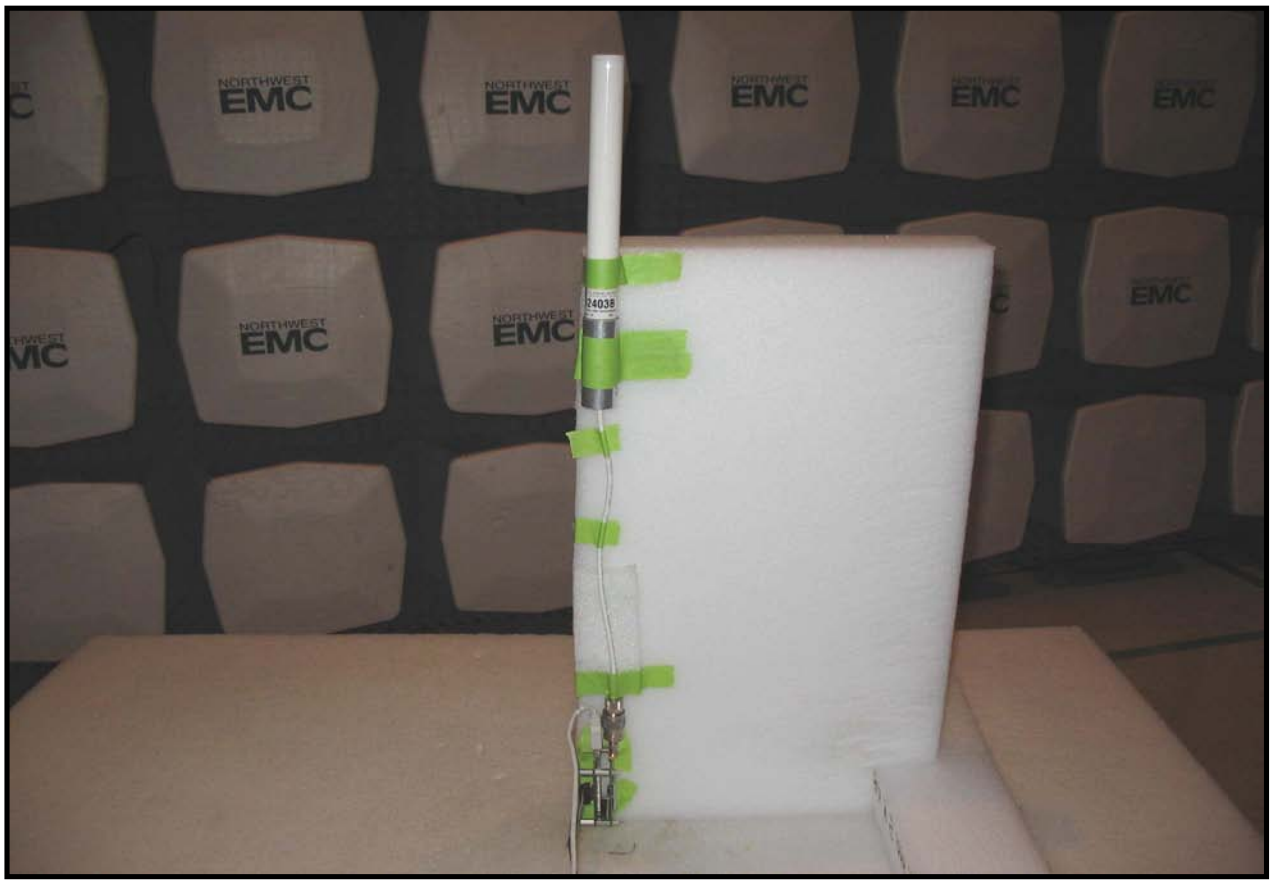

NORTHWEST
EMC


NORTHWEST
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EMC AC POWERLINE 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.

MODES OF OPERATION
Transmitting 802.11(a), B4 Channel 161, 6Mbps.
Transmitting 802.11(a), B4 Channel 157, 6Mbps.
Transmitting 802.11(a), B4 Channel 149, 6Mbps.
Transmitting 802.11(a), B1 Channel 48, 6Mbps.
Transmitting 802.11(a), B1 Channel 36, 6Mbps.

POWER SETTINGS INVESTIGATED
5VDC (120V/60Hz)

CONFIGURATIONS INVESTIGATED
INMC0546 - 8

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
EV07 Cables		Conducted Cables	EVG	6/1/2009	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	5/27/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	7/21/2009	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

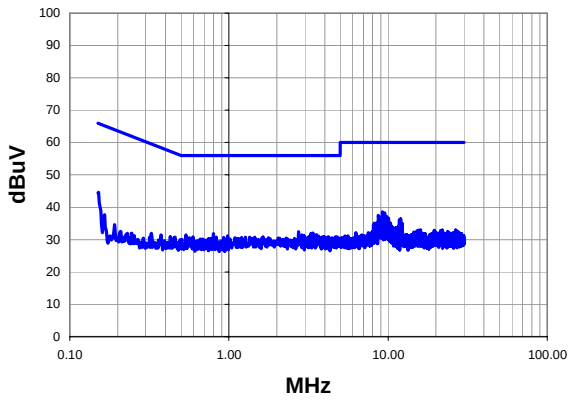
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B1 Channel 36, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

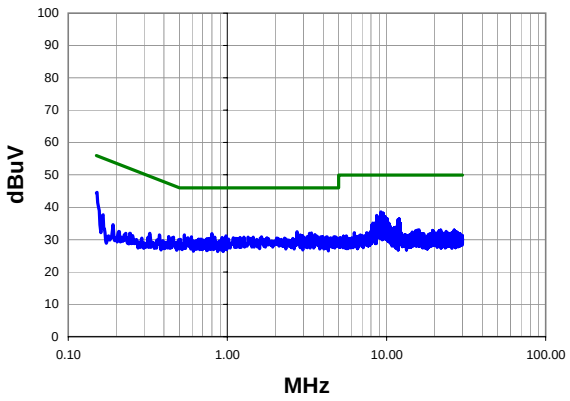
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	13	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.0	21.6	44.6	65.9	-21.3
9.230	18.1	20.5	38.6	60.0	-21.4
9.530	17.7	20.5	38.2	60.0	-21.8
9.470	17.0	20.5	37.5	60.0	-22.5
8.690	17.0	20.5	37.5	60.0	-22.5
9.590	16.6	20.5	37.1	60.0	-22.9
9.830	16.5	20.5	37.0	60.0	-23.0
9.410	16.5	20.5	37.0	60.0	-23.0
9.180	16.5	20.5	37.0	60.0	-23.0
9.060	16.5	20.5	37.0	60.0	-23.0
10.050	16.0	20.5	36.5	60.0	-23.5
9.770	16.0	20.5	36.5	60.0	-23.5
8.930	15.9	20.5	36.4	60.0	-23.6
2.736	12.0	20.4	32.4	56.0	-23.6
12.000	15.8	20.6	36.4	60.0	-23.6
11.900	15.6	20.6	36.2	60.0	-23.8
11.800	15.5	20.6	36.1	60.0	-23.9
3.376	11.7	20.3	32.0	56.0	-24.0
8.810	15.5	20.5	36.0	60.0	-24.0
3.280	11.6	20.4	32.0	56.0	-24.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.0	21.6	44.6	55.9	-11.3
9.230	18.1	20.5	38.6	50.0	-11.4
9.530	17.7	20.5	38.2	50.0	-11.8
9.470	17.0	20.5	37.5	50.0	-12.5
8.690	17.0	20.5	37.5	50.0	-12.5
9.590	16.6	20.5	37.1	50.0	-12.9
9.830	16.5	20.5	37.0	50.0	-13.0
9.410	16.5	20.5	37.0	50.0	-13.0
9.180	16.5	20.5	37.0	50.0	-13.0
9.060	16.5	20.5	37.0	50.0	-13.0
10.050	16.0	20.5	36.5	50.0	-13.5
9.770	16.0	20.5	36.5	50.0	-13.5
8.930	15.9	20.5	36.4	50.0	-13.6
2.736	12.0	20.4	32.4	46.0	-13.6
12.000	15.8	20.6	36.4	50.0	-13.6
11.900	15.6	20.6	36.2	50.0	-13.8
11.800	15.5	20.6	36.1	50.0	-13.9
3.376	11.7	20.3	32.0	46.0	-14.0
8.810	15.5	20.5	36.0	50.0	-14.0
3.280	11.6	20.4	32.0	46.0	-14.0

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

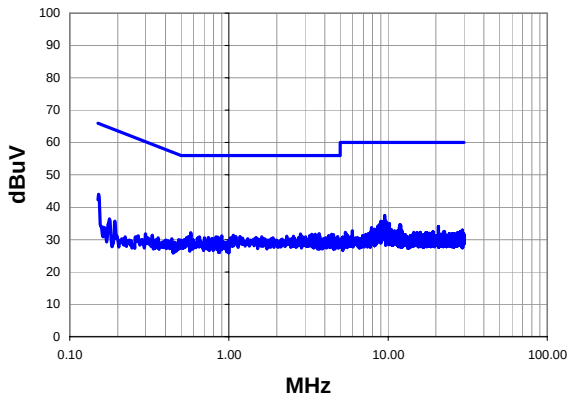
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B1 Channel 36, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

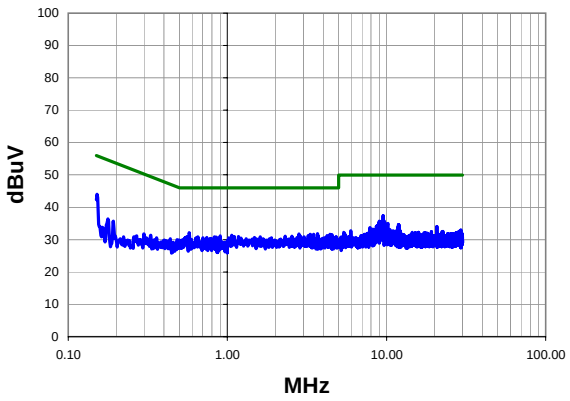
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	14	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	22.4	21.6	44.0	65.9	-21.9
9.530	16.9	20.5	37.4	60.0	-22.6
0.577	11.7	20.5	32.2	56.0	-23.8
3.688	11.5	20.3	31.8	56.0	-24.2
9.710	15.2	20.5	35.7	60.0	-24.3
9.000	15.2	20.5	35.7	60.0	-24.3
2.816	11.3	20.4	31.7	56.0	-24.3
4.416	11.3	20.3	31.6	56.0	-24.4
3.312	11.3	20.3	31.6	56.0	-24.4
3.488	11.3	20.3	31.6	56.0	-24.4
9.230	15.1	20.5	35.6	60.0	-24.4
4.544	11.2	20.4	31.6	56.0	-24.5
1.064	11.0	20.4	31.4	56.0	-24.6
9.180	14.8	20.5	35.3	60.0	-24.7
3.392	11.0	20.3	31.3	56.0	-24.7
9.050	14.8	20.5	35.3	60.0	-24.7
3.216	10.9	20.4	31.3	56.0	-24.7
4.224	10.9	20.3	31.2	56.0	-24.8
9.770	14.7	20.5	35.2	60.0	-24.8
9.470	14.7	20.5	35.2	60.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	22.4	21.6	44.0	55.9	-11.9
9.530	16.9	20.5	37.4	50.0	-12.6
0.577	11.7	20.5	32.2	46.0	-13.8
3.688	11.5	20.3	31.8	46.0	-14.2
9.710	15.2	20.5	35.7	50.0	-14.3
9.000	15.2	20.5	35.7	50.0	-14.3
2.816	11.3	20.4	31.7	46.0	-14.3
4.416	11.3	20.3	31.6	46.0	-14.4
3.312	11.3	20.3	31.6	46.0	-14.4
3.488	11.3	20.3	31.6	46.0	-14.4
9.230	15.1	20.5	35.6	50.0	-14.4
4.544	11.2	20.4	31.6	46.0	-14.5
1.064	11.0	20.4	31.4	46.0	-14.6
9.180	14.8	20.5	35.3	50.0	-14.7
3.392	11.0	20.3	31.3	46.0	-14.7
9.050	14.8	20.5	35.3	50.0	-14.7
3.216	10.9	20.4	31.3	46.0	-14.7
4.224	10.9	20.3	31.2	46.0	-14.8
9.770	14.7	20.5	35.2	50.0	-14.8
9.470	14.7	20.5	35.2	50.0	-14.8

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

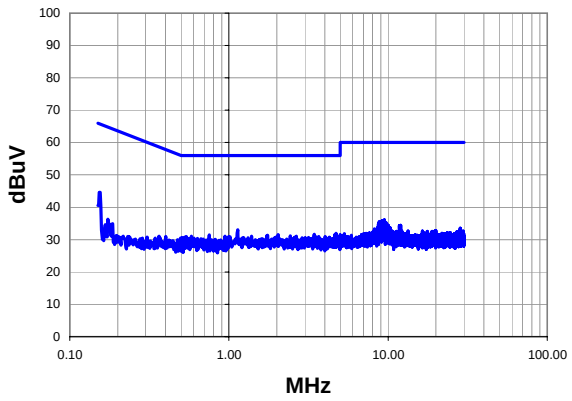
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B1 Channel 48, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

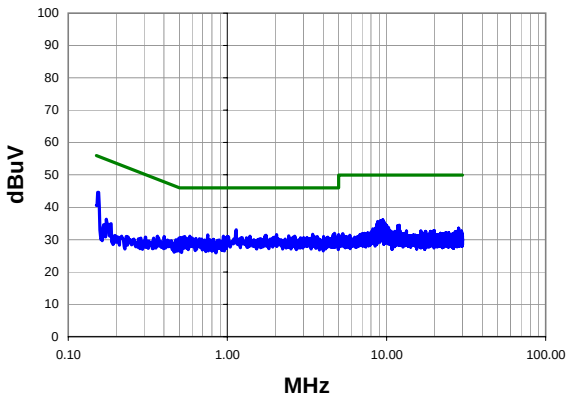
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	15	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	23.0	21.6	44.6	65.8	-21.2
1.136	12.6	20.4	33.0	56.0	-23.0
9.470	15.6	20.5	36.1	60.0	-23.9
4.712	11.6	20.4	32.0	56.0	-24.1
9.180	15.3	20.5	35.8	60.0	-24.2
9.530	15.1	20.5	35.6	60.0	-24.4
3.432	11.3	20.3	31.6	56.0	-24.4
8.810	15.1	20.5	35.6	60.0	-24.4
2.040	11.2	20.4	31.6	56.0	-24.4
0.752	11.1	20.4	31.5	56.0	-24.5
4.624	11.1	20.4	31.5	56.0	-24.6
9.290	14.9	20.5	35.4	60.0	-24.6
1.752	11.0	20.4	31.4	56.0	-24.6
9.710	14.8	20.5	35.3	60.0	-24.7
9.350	14.8	20.5	35.3	60.0	-24.7
8.930	14.8	20.5	35.3	60.0	-24.7
2.432	10.7	20.4	31.1	56.0	-24.9
1.384	10.7	20.4	31.1	56.0	-24.9
0.944	10.7	20.4	31.1	56.0	-24.9
0.582	10.6	20.5	31.1	56.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	23.0	21.6	44.6	55.8	-11.2
1.136	12.6	20.4	33.0	46.0	-13.0
9.470	15.6	20.5	36.1	50.0	-13.9
4.712	11.6	20.4	32.0	46.0	-14.1
9.180	15.3	20.5	35.8	50.0	-14.2
9.530	15.1	20.5	35.6	50.0	-14.4
3.432	11.3	20.3	31.6	46.0	-14.4
8.810	15.1	20.5	35.6	50.0	-14.4
2.040	11.2	20.4	31.6	46.0	-14.4
0.752	11.1	20.4	31.5	46.0	-14.5
4.624	11.1	20.4	31.5	46.0	-14.6
9.290	14.9	20.5	35.4	50.0	-14.6
1.752	11.0	20.4	31.4	46.0	-14.6
9.710	14.8	20.5	35.3	50.0	-14.7
9.350	14.8	20.5	35.3	50.0	-14.7
8.930	14.8	20.5	35.3	50.0	-14.7
2.432	10.7	20.4	31.1	46.0	-14.9
1.384	10.7	20.4	31.1	46.0	-14.9
0.944	10.7	20.4	31.1	46.0	-14.9
0.582	10.6	20.5	31.1	46.0	-14.9

NORTHWEST

EMC

PSA-ESCI 2009.06.09
Version 2009.5.18

AC POWERLINE CONDUCTED EMISSIONS

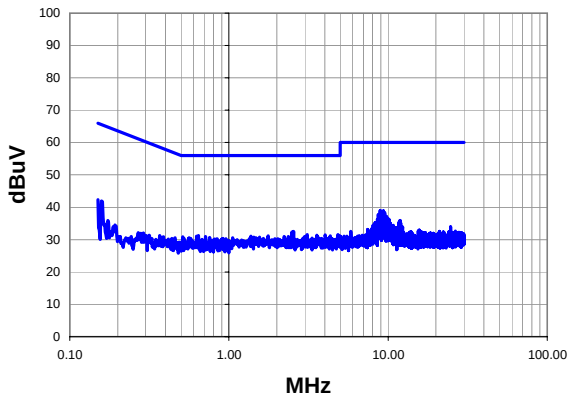
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B1 Channel 48, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

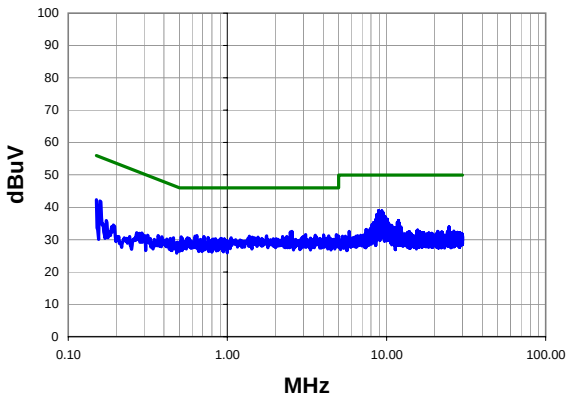
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	16	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	18.5	20.5	39.0	60.0	-21.0
9.350	18.3	20.5	38.8	60.0	-21.2
9.530	17.8	20.5	38.3	60.0	-21.7
9.410	17.7	20.5	38.2	60.0	-21.8
9.230	17.6	20.5	38.1	60.0	-21.9
8.690	17.3	20.5	37.8	60.0	-22.2
9.770	16.7	20.5	37.2	60.0	-22.8
9.650	16.5	20.5	37.0	60.0	-23.0
8.760	16.5	20.5	37.0	60.0	-23.0
9.590	16.4	20.5	36.9	60.0	-23.1
9.830	16.3	20.5	36.8	60.0	-23.2
8.870	16.1	20.5	36.6	60.0	-23.4
9.110	16.0	20.5	36.5	60.0	-23.5
8.990	16.0	20.5	36.5	60.0	-23.5
2.544	12.1	20.4	32.5	56.0	-23.5
0.159	20.4	21.6	42.0	65.5	-23.6
0.150	20.7	21.7	42.4	66.0	-23.6
10.120	15.8	20.5	36.3	60.0	-23.7
9.470	15.8	20.5	36.3	60.0	-23.7
8.810	15.8	20.5	36.3	60.0	-23.7

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	18.5	20.5	39.0	50.0	-11.0
9.350	18.3	20.5	38.8	50.0	-11.2
9.530	17.8	20.5	38.3	50.0	-11.7
9.410	17.7	20.5	38.2	50.0	-11.8
9.230	17.6	20.5	38.1	50.0	-11.9
8.690	17.3	20.5	37.8	50.0	-12.2
9.770	16.7	20.5	37.2	50.0	-12.8
9.650	16.5	20.5	37.0	50.0	-13.0
8.760	16.5	20.5	37.0	50.0	-13.0
9.590	16.4	20.5	36.9	50.0	-13.1
9.830	16.3	20.5	36.8	50.0	-13.2
8.870	16.1	20.5	36.6	50.0	-13.4
9.110	16.0	20.5	36.5	50.0	-13.5
8.990	16.0	20.5	36.5	50.0	-13.5
2.544	12.1	20.4	32.5	46.0	-13.5
0.159	20.4	21.6	42.0	55.5	-13.6
0.150	20.7	21.7	42.4	56.0	-13.6
10.120	15.8	20.5	36.3	50.0	-13.7
9.470	15.8	20.5	36.3	50.0	-13.7
8.810	15.8	20.5	36.3	50.0	-13.7

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

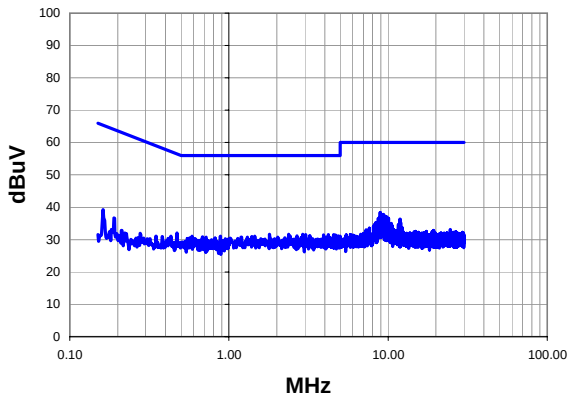
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B4 Channel 149, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

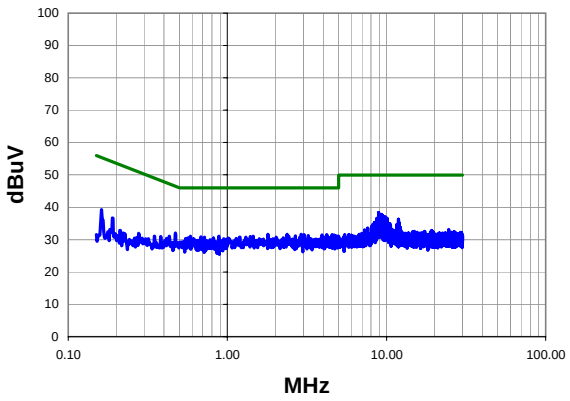
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	17	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.9	20.5	38.4	60.0	-21.6
9.290	17.3	20.5	37.8	60.0	-22.2
9.350	17.1	20.5	37.6	60.0	-22.4
9.410	17.0	20.5	37.5	60.0	-22.5
9.230	17.0	20.5	37.5	60.0	-22.5
9.470	16.8	20.5	37.3	60.0	-22.7
9.770	16.6	20.5	37.1	60.0	-22.9
9.650	16.5	20.5	37.0	60.0	-23.0
9.170	16.3	20.5	36.8	60.0	-23.2
9.050	16.3	20.5	36.8	60.0	-23.2
9.530	16.2	20.5	36.7	60.0	-23.3
9.110	16.2	20.5	36.7	60.0	-23.3
8.990	16.2	20.5	36.7	60.0	-23.3
10.050	16.1	20.5	36.6	60.0	-23.4
8.690	16.1	20.5	36.6	60.0	-23.4
9.820	15.9	20.5	36.4	60.0	-23.6
9.940	15.8	20.5	36.3	60.0	-23.7
11.900	15.7	20.6	36.3	60.0	-23.7
10.000	15.6	20.5	36.1	60.0	-23.9
9.880	15.3	20.5	35.8	60.0	-24.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.9	20.5	38.4	50.0	-11.6
9.290	17.3	20.5	37.8	50.0	-12.2
9.350	17.1	20.5	37.6	50.0	-12.4
9.410	17.0	20.5	37.5	50.0	-12.5
9.230	17.0	20.5	37.5	50.0	-12.5
9.470	16.8	20.5	37.3	50.0	-12.7
9.770	16.6	20.5	37.1	50.0	-12.9
9.650	16.5	20.5	37.0	50.0	-13.0
9.170	16.3	20.5	36.8	50.0	-13.2
9.050	16.3	20.5	36.8	50.0	-13.2
9.530	16.2	20.5	36.7	50.0	-13.3
9.110	16.2	20.5	36.7	50.0	-13.3
8.990	16.2	20.5	36.7	50.0	-13.3
10.050	16.1	20.5	36.6	50.0	-13.4
8.690	16.1	20.5	36.6	50.0	-13.4
9.820	15.9	20.5	36.4	50.0	-13.6
9.940	15.8	20.5	36.3	50.0	-13.7
11.900	15.7	20.6	36.3	50.0	-13.7
10.000	15.6	20.5	36.1	50.0	-13.9
9.880	15.3	20.5	35.8	50.0	-14.2

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

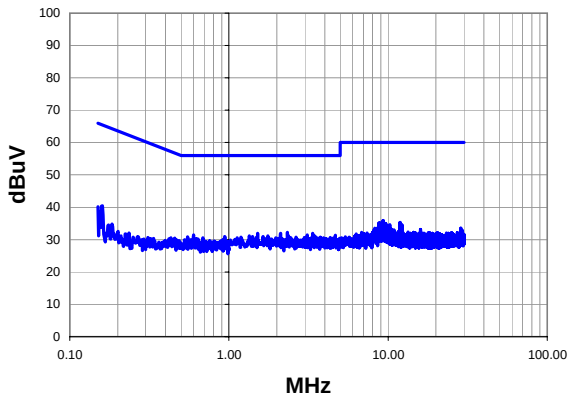
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B4 Channel 149, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

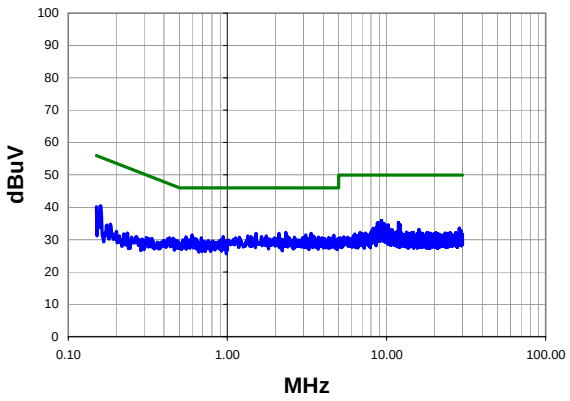
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	18	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
2.328	11.8	20.4	32.2	56.0	-23.8
1.512	11.6	20.4	32.0	56.0	-24.0
9.290	15.4	20.5	35.9	60.0	-24.1
3.352	11.6	20.3	31.9	56.0	-24.1
2.112	11.5	20.4	31.9	56.0	-24.1
0.599	11.0	20.5	31.5	56.0	-24.5
3.104	11.0	20.4	31.4	56.0	-24.6
11.900	14.8	20.6	35.4	60.0	-24.6
4.656	11.0	20.4	31.4	56.0	-24.7
9.230	14.8	20.5	35.3	60.0	-24.7
1.760	10.8	20.4	31.2	56.0	-24.8
1.344	10.8	20.4	31.2	56.0	-24.8
3.448	10.8	20.3	31.1	56.0	-24.9
8.930	14.6	20.5	35.1	60.0	-24.9
8.750	14.6	20.5	35.1	60.0	-24.9
9.590	14.5	20.5	35.0	60.0	-25.0
9.110	14.5	20.5	35.0	60.0	-25.0
0.160	18.9	21.6	40.5	65.5	-25.0
1.408	10.6	20.4	31.0	56.0	-25.0
0.942	10.6	20.4	31.0	56.0	-25.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
2.328	11.8	20.4	32.2	46.0	-13.8
1.512	11.6	20.4	32.0	46.0	-14.0
9.290	15.4	20.5	35.9	50.0	-14.1
3.352	11.6	20.3	31.9	46.0	-14.1
2.112	11.5	20.4	31.9	46.0	-14.1
0.599	11.0	20.5	31.5	46.0	-14.5
3.104	11.0	20.4	31.4	46.0	-14.6
11.900	14.8	20.6	35.4	50.0	-14.6
4.656	11.0	20.4	31.4	46.0	-14.7
9.230	14.8	20.5	35.3	50.0	-14.7
1.760	10.8	20.4	31.2	46.0	-14.8
1.344	10.8	20.4	31.2	46.0	-14.8
3.448	10.8	20.3	31.1	46.0	-14.9
8.930	14.6	20.5	35.1	50.0	-14.9
8.750	14.6	20.5	35.1	50.0	-14.9
9.590	14.5	20.5	35.0	50.0	-15.0
9.110	14.5	20.5	35.0	50.0	-15.0
0.160	18.9	21.6	40.5	55.5	-15.0
1.408	10.6	20.4	31.0	46.0	-15.0
0.942	10.6	20.4	31.0	46.0	-15.0

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

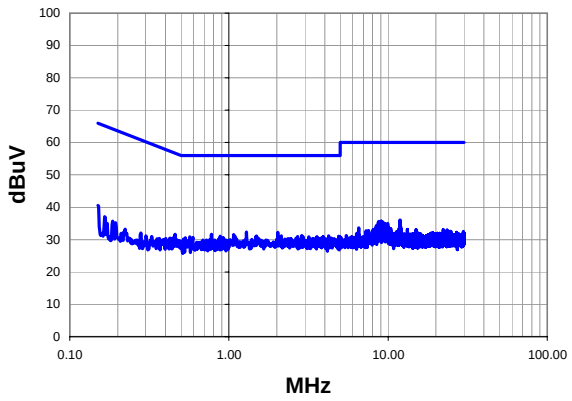
PSA-ESCI 2009.06.09
Version 2009.5.18

Work Order:	INMC0546	**Date:**	08/11/09	Jennifer Herrett
Project:	None	**Temperature:**	25°C	
Job Site:	EV07	**Humidity:**	49	
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:** Jennifer Herrett
EUT:	Galileo modular radio (TI)			
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna			
Customer:	Intermec Technologies Corporation			
Attendees:	None			
EUT Power:	5VDC (120V/60Hz)			
Operating Mode:	Transmitting 802.11(a), B4 Channel 157, 6Mbps.			
Deviations:	No deviations.			
Comments:	Laird MAF94367 Whip Antenna.			

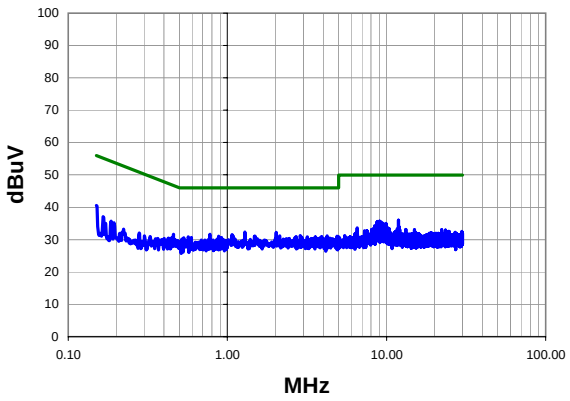
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	19	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.288	12.0	20.4	32.4	56.0	-23.6
2.024	11.8	20.4	32.2	56.0	-23.8
11.900	15.4	20.6	36.0	60.0	-24.0
9.050	15.2	20.5	35.7	60.0	-24.3
0.777	11.3	20.4	31.7	56.0	-24.3
8.750	15.1	20.5	35.6	60.0	-24.4
1.072	11.2	20.4	31.6	56.0	-24.4
9.230	15.0	20.5	35.5	60.0	-24.5
8.930	15.0	20.5	35.5	60.0	-24.5
8.690	14.8	20.5	35.3	60.0	-24.7
2.872	10.8	20.4	31.2	56.0	-24.8
2.136	10.8	20.4	31.2	56.0	-24.8
4.224	10.8	20.3	31.1	56.0	-24.9
9.410	14.6	20.5	35.1	60.0	-24.9
1.480	10.7	20.4	31.1	56.0	-24.9
0.883	10.7	20.4	31.1	56.0	-24.9
9.940	14.5	20.5	35.0	60.0	-25.0
4.896	10.6	20.4	31.0	56.0	-25.0
9.290	14.5	20.5	35.0	60.0	-25.0
0.458	11.2	20.5	31.7	56.7	-25.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.288	12.0	20.4	32.4	46.0	-13.6
2.024	11.8	20.4	32.2	46.0	-13.8
11.900	15.4	20.6	36.0	50.0	-14.0
9.050	15.2	20.5	35.7	50.0	-14.3
0.777	11.3	20.4	31.7	46.0	-14.3
8.750	15.1	20.5	35.6	50.0	-14.4
1.072	11.2	20.4	31.6	46.0	-14.4
9.230	15.0	20.5	35.5	50.0	-14.5
8.930	15.0	20.5	35.5	50.0	-14.5
8.690	14.8	20.5	35.3	50.0	-14.7
2.872	10.8	20.4	31.2	46.0	-14.8
2.136	10.8	20.4	31.2	46.0	-14.8
4.224	10.8	20.3	31.1	46.0	-14.9
9.410	14.6	20.5	35.1	50.0	-14.9
1.480	10.7	20.4	31.1	46.0	-14.9
0.883	10.7	20.4	31.1	46.0	-14.9
9.940	14.5	20.5	35.0	50.0	-15.0
4.896	10.6	20.4	31.0	46.0	-15.0
9.290	14.5	20.5	35.0	50.0	-15.0
0.458	11.2	20.5	31.7	46.7	-15.1

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

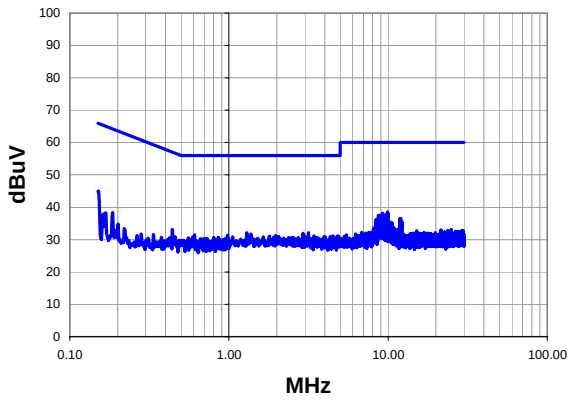
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B4 Channel 157, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

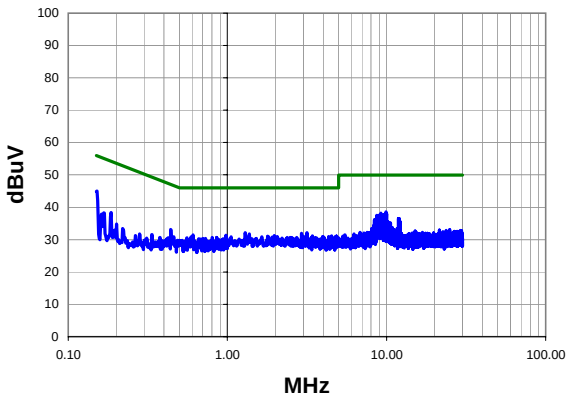
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	20	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	65.9	-20.9
9.940	18.0	20.5	38.5	60.0	-21.5
9.230	17.7	20.5	38.2	60.0	-21.8
10.000	17.4	20.5	37.9	60.0	-22.1
9.650	17.2	20.5	37.7	60.0	-22.3
8.930	17.0	20.5	37.5	60.0	-22.5
8.700	17.0	20.5	37.5	60.0	-22.5
9.590	16.6	20.5	37.1	60.0	-22.9
9.470	16.6	20.5	37.1	60.0	-22.9
9.170	16.6	20.5	37.1	60.0	-22.9
8.870	16.6	20.5	37.1	60.0	-22.9
9.410	16.5	20.5	37.0	60.0	-23.0
9.530	16.2	20.5	36.7	60.0	-23.3
9.350	16.2	20.5	36.7	60.0	-23.3
9.710	16.1	20.5	36.6	60.0	-23.4
9.890	16.0	20.5	36.5	60.0	-23.5
9.290	16.0	20.5	36.5	60.0	-23.5
12.000	15.9	20.6	36.5	60.0	-23.5
11.900	15.9	20.6	36.5	60.0	-23.5
8.580	15.9	20.5	36.4	60.0	-23.6

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	55.9	-10.9
9.940	18.0	20.5	38.5	50.0	-11.5
9.230	17.7	20.5	38.2	50.0	-11.8
10.000	17.4	20.5	37.9	50.0	-12.1
9.650	17.2	20.5	37.7	50.0	-12.3
8.930	17.0	20.5	37.5	50.0	-12.5
8.700	17.0	20.5	37.5	50.0	-12.5
9.590	16.6	20.5	37.1	50.0	-12.9
9.470	16.6	20.5	37.1	50.0	-12.9
9.170	16.6	20.5	37.1	50.0	-12.9
8.870	16.6	20.5	37.1	50.0	-12.9
9.410	16.5	20.5	37.0	50.0	-13.0
9.530	16.2	20.5	36.7	50.0	-13.3
9.350	16.2	20.5	36.7	50.0	-13.3
9.710	16.1	20.5	36.6	50.0	-13.4
9.890	16.0	20.5	36.5	50.0	-13.5
9.290	16.0	20.5	36.5	50.0	-13.5
12.000	15.9	20.6	36.5	50.0	-13.5
11.900	15.9	20.6	36.5	50.0	-13.5
8.580	15.9	20.5	36.4	50.0	-13.6

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

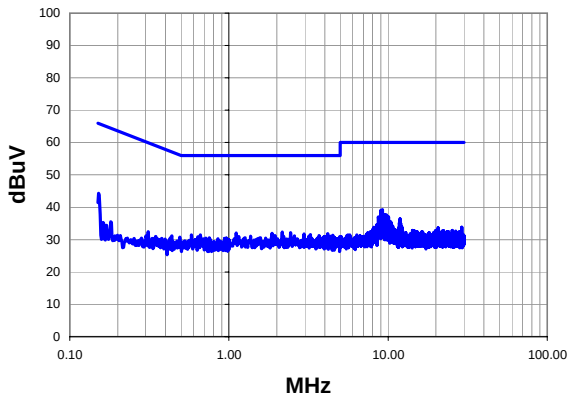
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B4 Channel 161, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

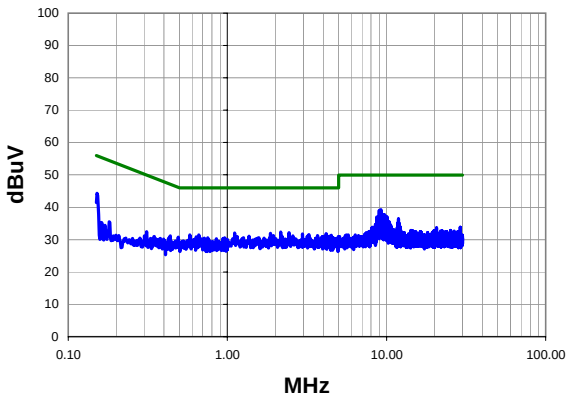
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	21	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.230	18.7	20.5	39.2	60.0	-20.8
8.990	18.6	20.5	39.1	60.0	-20.9
0.152	22.7	21.6	44.3	65.9	-21.6
9.760	17.2	20.5	37.7	60.0	-22.3
9.520	17.2	20.5	37.7	60.0	-22.3
9.470	17.2	20.5	37.7	60.0	-22.3
9.290	16.8	20.5	37.3	60.0	-22.7
9.350	16.7	20.5	37.2	60.0	-22.8
8.930	16.7	20.5	37.2	60.0	-22.8
10.050	16.5	20.5	37.0	60.0	-23.0
8.690	16.5	20.5	37.0	60.0	-23.0
10.000	15.9	20.5	36.4	60.0	-23.6
9.650	15.9	20.5	36.4	60.0	-23.6
9.110	15.9	20.5	36.4	60.0	-23.6
8.900	15.9	20.5	36.4	60.0	-23.6
11.900	15.8	20.6	36.4	60.0	-23.6
2.160	11.9	20.4	32.3	56.0	-23.7
9.050	15.6	20.5	36.1	60.0	-23.9
2.440	11.7	20.4	32.1	56.0	-23.9
1.112	11.7	20.4	32.1	56.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.230	18.7	20.5	39.2	50.0	-10.8
8.990	18.6	20.5	39.1	50.0	-10.9
0.152	22.7	21.6	44.3	55.9	-11.6
9.760	17.2	20.5	37.7	50.0	-12.3
9.520	17.2	20.5	37.7	50.0	-12.3
9.470	17.2	20.5	37.7	50.0	-12.3
9.290	16.8	20.5	37.3	50.0	-12.7
9.350	16.7	20.5	37.2	50.0	-12.8
8.930	16.7	20.5	37.2	50.0	-12.8
10.050	16.5	20.5	37.0	50.0	-13.0
8.690	16.5	20.5	37.0	50.0	-13.0
10.000	15.9	20.5	36.4	50.0	-13.6
9.650	15.9	20.5	36.4	50.0	-13.6
9.110	15.9	20.5	36.4	50.0	-13.6
8.900	15.9	20.5	36.4	50.0	-13.6
11.900	15.8	20.6	36.4	50.0	-13.6
2.160	11.9	20.4	32.3	46.0	-13.7
9.050	15.6	20.5	36.1	50.0	-13.9
2.440	11.7	20.4	32.1	46.0	-13.9
1.112	11.7	20.4	32.1	46.0	-13.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

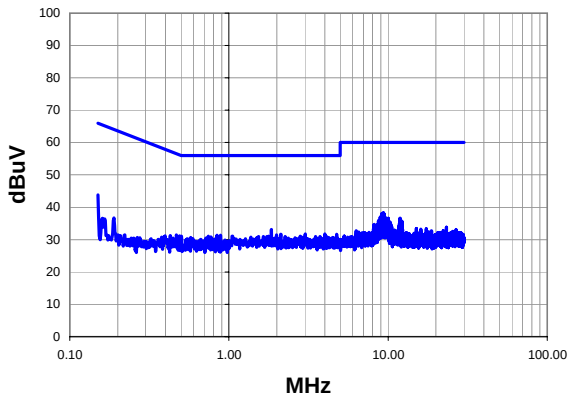
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(a), B4 Channel 161, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

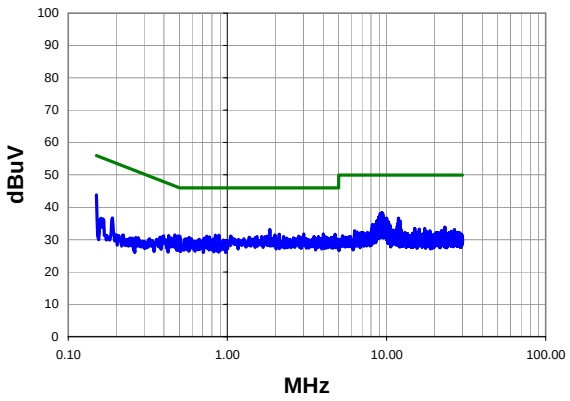
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	22	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

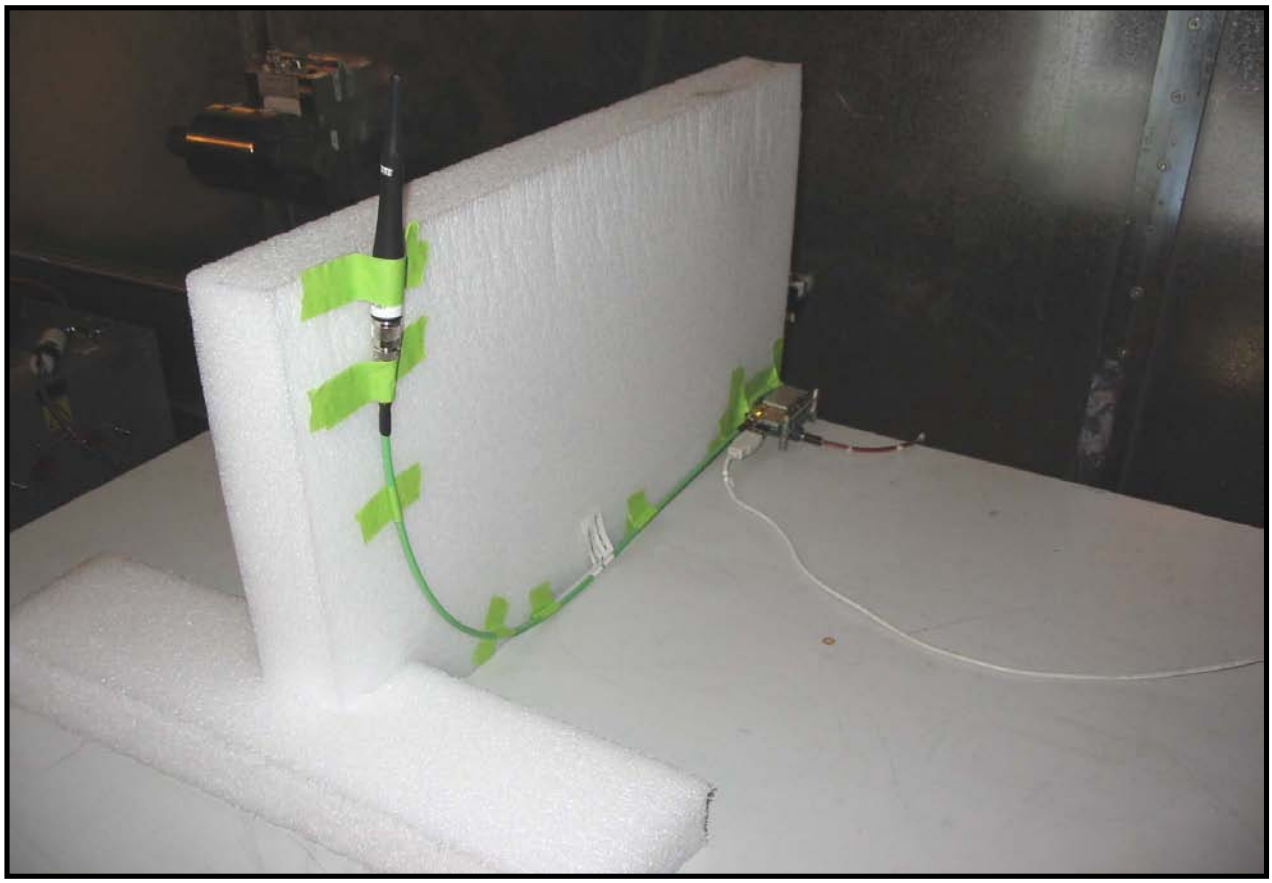


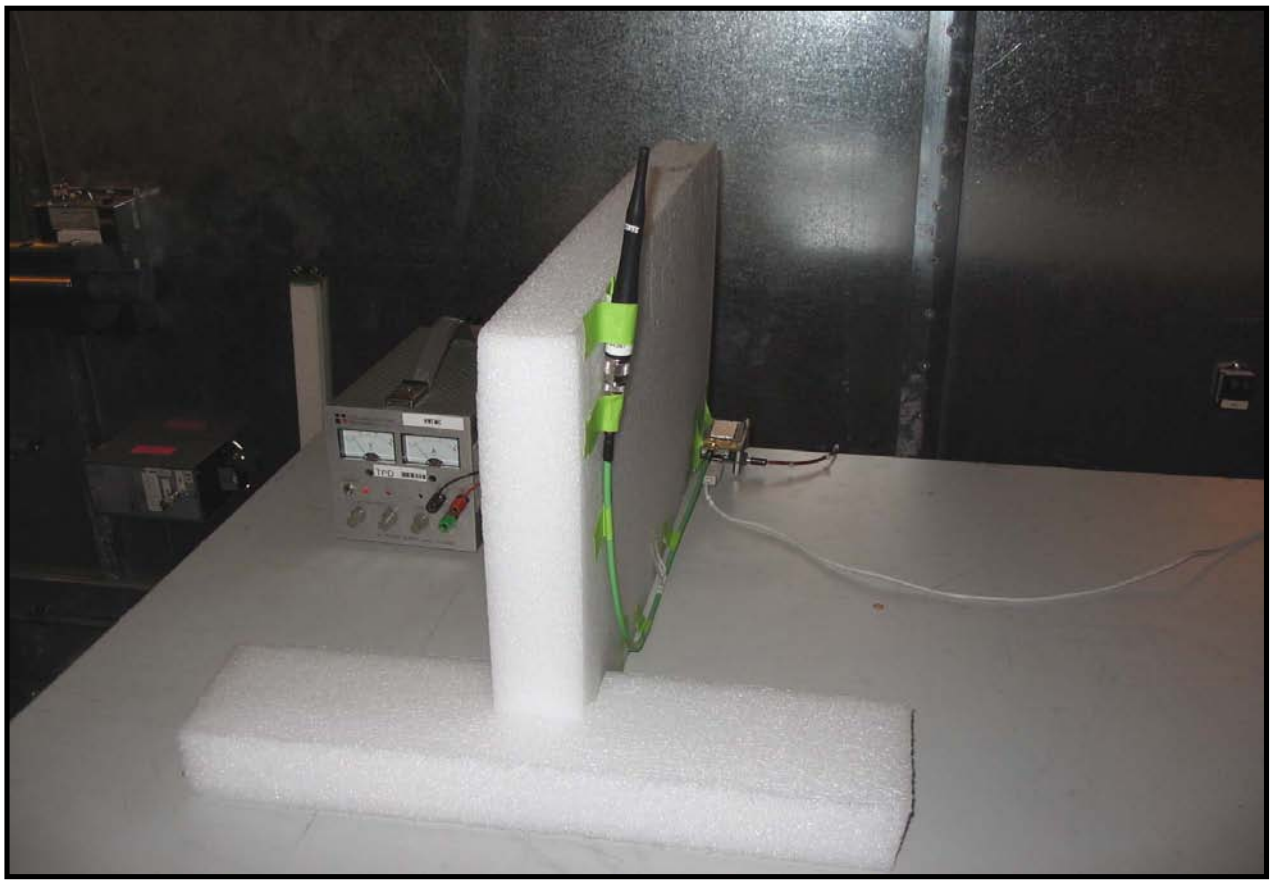
Peak Data - vs - Quasi Peak Limit

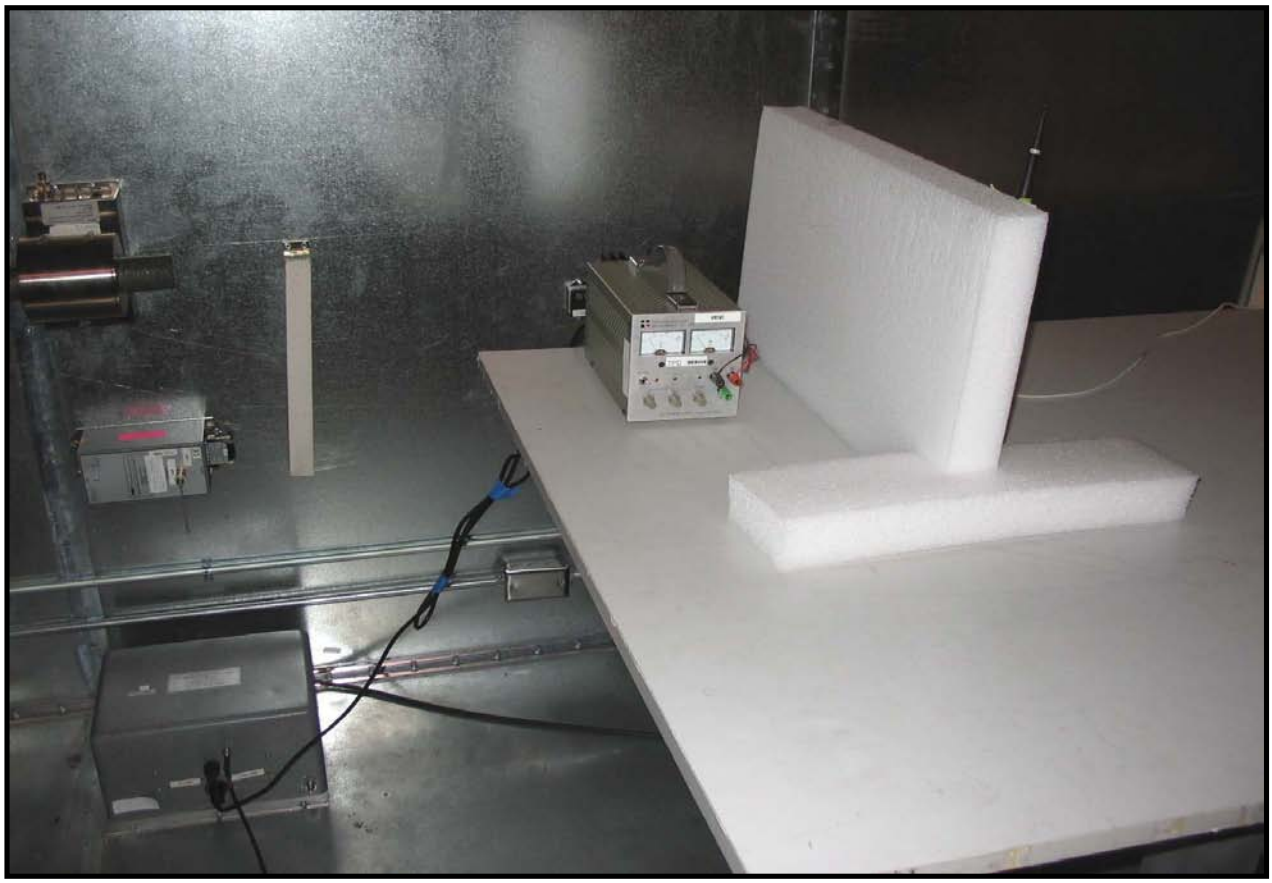
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.340	17.8	20.5	38.3	60.0	-21.7
9.110	17.6	20.5	38.1	60.0	-21.9
9.230	17.5	20.5	38.0	60.0	-22.0
9.470	17.4	20.5	37.9	60.0	-22.1
9.290	17.4	20.5	37.9	60.0	-22.1
0.150	22.2	21.7	43.9	66.0	-22.1
9.050	16.7	20.5	37.2	60.0	-22.8
1.848	12.7	20.4	33.1	56.0	-22.9
8.990	16.5	20.5	37.0	60.0	-23.0
9.590	16.4	20.5	36.9	60.0	-23.1
8.930	16.4	20.5	36.9	60.0	-23.1
9.170	16.3	20.5	36.8	60.0	-23.2
10.000	16.1	20.5	36.6	60.0	-23.4
11.900	16.0	20.6	36.6	60.0	-23.4
9.420	15.9	20.5	36.4	60.0	-23.6
9.890	15.6	20.5	36.1	60.0	-23.9
9.940	15.4	20.5	35.9	60.0	-24.1
8.750	15.4	20.5	35.9	60.0	-24.1
4.008	11.4	20.3	31.7	56.0	-24.3
9.770	15.2	20.5	35.7	60.0	-24.3

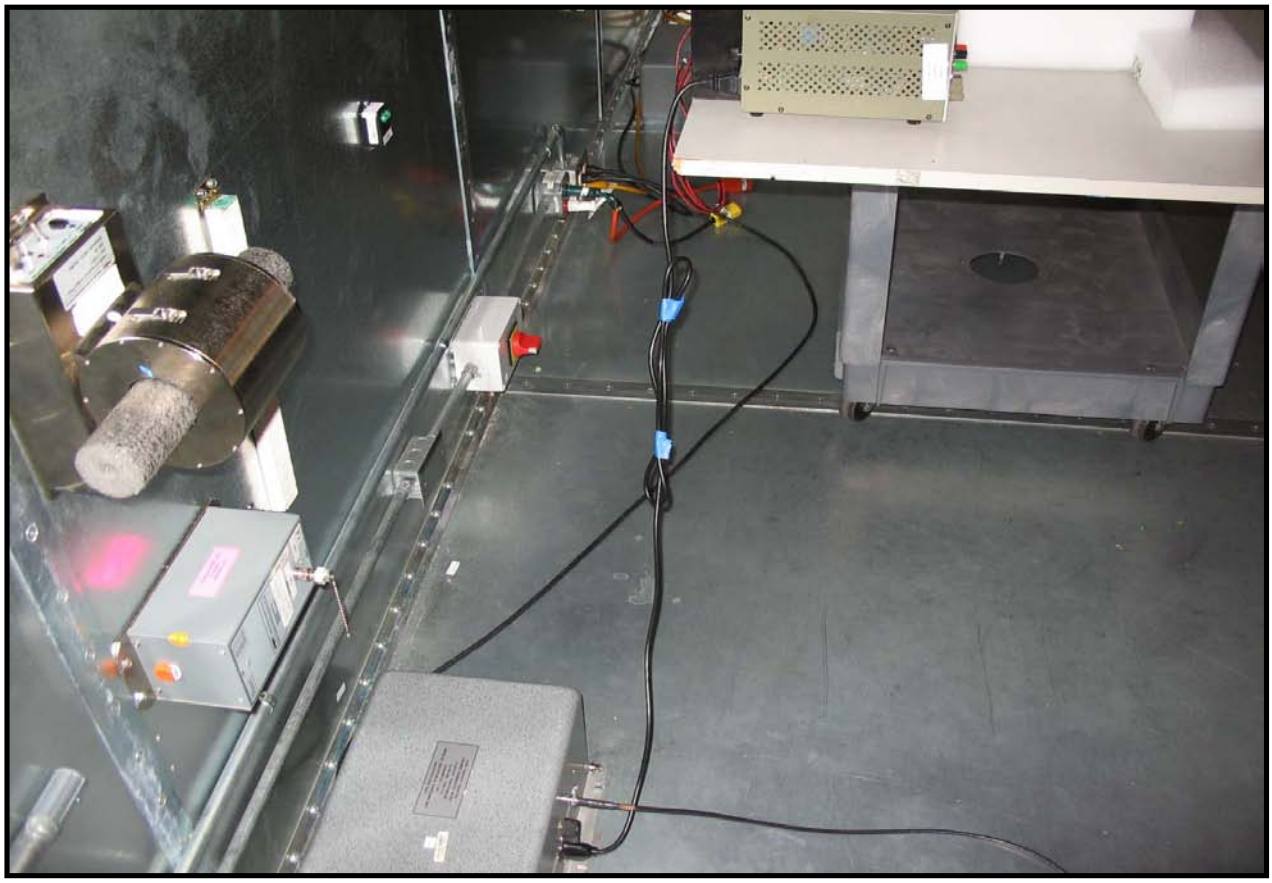
Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.340	17.8	20.5	38.3	50.0	-11.7
9.110	17.6	20.5	38.1	50.0	-11.9
9.230	17.5	20.5	38.0	50.0	-12.0
9.470	17.4	20.5	37.9	50.0	-12.1
9.290	17.4	20.5	37.9	50.0	-12.1
0.150	22.2	21.7	43.9	56.0	-12.1
9.050	16.7	20.5	37.2	50.0	-12.8
1.848	12.7	20.4	33.1	46.0	-12.9
8.990	16.5	20.5	37.0	50.0	-13.0
9.590	16.4	20.5	36.9	50.0	-13.1
8.930	16.4	20.5	36.9	50.0	-13.1
9.170	16.3	20.5	36.8	50.0	-13.2
10.000	16.1	20.5	36.6	50.0	-13.4
11.900	16.0	20.6	36.6	50.0	-13.4
9.420	15.9	20.5	36.4	50.0	-13.6
9.890	15.6	20.5	36.1	50.0	-13.9
9.940	15.4	20.5	35.9	50.0	-14.1
8.750	15.4	20.5	35.9	50.0	-14.1
4.008	11.4	20.3	31.7	46.0	-14.3
9.770	15.2	20.5	35.7	50.0	-14.3









EMC AC POWERLINE 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.

MODES OF OPERATION
Transmitting 802.11(b), High Channel, 1Mbps.
Transmitting 802.11(b), Mid Channel, 1Mbps.
Transmitting 802.11(b), Low Channel, 1Mbps.

POWER SETTINGS INVESTIGATED
5VDC (120V/60Hz)

CONFIGURATIONS INVESTIGATED
INMC0546 - 8

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
EV07 Cables		Conducted Cables	EVG	6/1/2009	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	5/27/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	7/21/2009	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

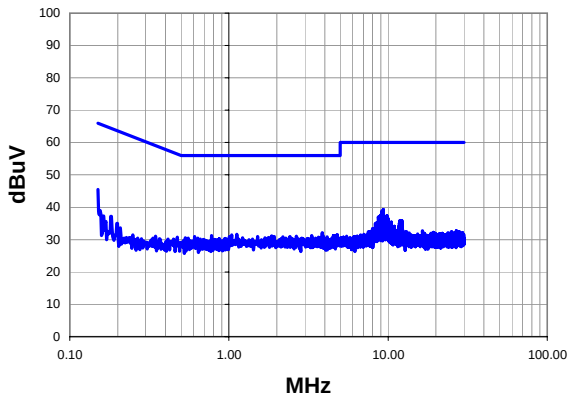
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), Low Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

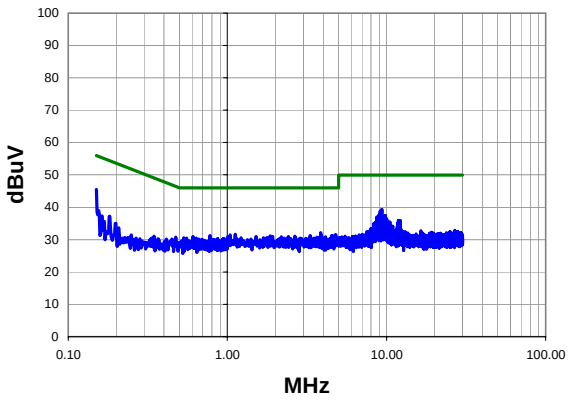
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	1	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	23.8	21.7	45.5	66.0	-20.5
9.350	18.7	20.5	39.2	60.0	-20.8
9.110	18.4	20.5	38.9	60.0	-21.1
9.060	17.3	20.5	37.8	60.0	-22.2
9.230	17.2	20.5	37.7	60.0	-22.3
9.830	16.9	20.5	37.4	60.0	-22.6
8.930	16.9	20.5	37.4	60.0	-22.6
9.410	16.7	20.5	37.2	60.0	-22.8
9.710	16.5	20.5	37.0	60.0	-23.0
8.690	16.5	20.5	37.0	60.0	-23.0
9.590	16.4	20.5	36.9	60.0	-23.1
9.290	16.4	20.5	36.9	60.0	-23.1
9.000	16.4	20.5	36.9	60.0	-23.1
8.840	16.4	20.5	36.9	60.0	-23.1
9.170	16.2	20.5	36.7	60.0	-23.3
9.660	16.1	20.5	36.6	60.0	-23.4
10.000	16.0	20.5	36.5	60.0	-23.5
9.770	16.0	20.5	36.5	60.0	-23.5
9.530	16.0	20.5	36.5	60.0	-23.5
9.470	15.9	20.5	36.4	60.0	-23.6

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	23.8	21.7	45.5	56.0	-10.5
9.350	18.7	20.5	39.2	50.0	-10.8
9.110	18.4	20.5	38.9	50.0	-11.1
9.060	17.3	20.5	37.8	50.0	-12.2
9.230	17.2	20.5	37.7	50.0	-12.3
9.830	16.9	20.5	37.4	50.0	-12.6
8.930	16.9	20.5	37.4	50.0	-12.6
9.410	16.7	20.5	37.2	50.0	-12.8
9.710	16.5	20.5	37.0	50.0	-13.0
8.690	16.5	20.5	37.0	50.0	-13.0
9.590	16.4	20.5	36.9	50.0	-13.1
9.290	16.4	20.5	36.9	50.0	-13.1
9.000	16.4	20.5	36.9	50.0	-13.1
8.840	16.4	20.5	36.9	50.0	-13.1
9.170	16.2	20.5	36.7	50.0	-13.3
9.660	16.1	20.5	36.6	50.0	-13.4
10.000	16.0	20.5	36.5	50.0	-13.5
9.770	16.0	20.5	36.5	50.0	-13.5
9.530	16.0	20.5	36.5	50.0	-13.5
9.470	15.9	20.5	36.4	50.0	-13.6

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

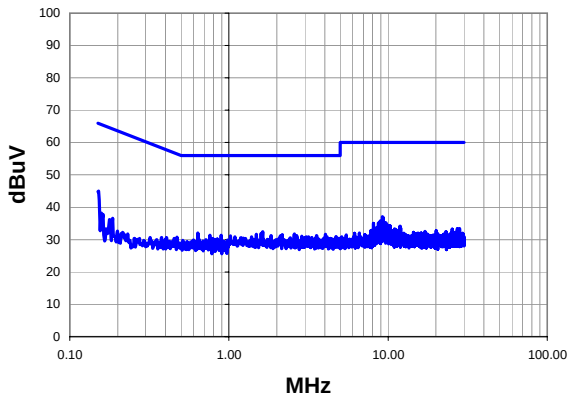
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), Low Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

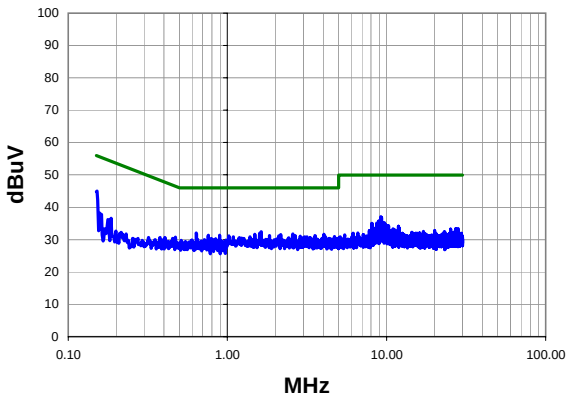
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	2	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	65.9	-20.9
9.230	16.6	20.5	37.1	60.0	-22.9
9.290	16.3	20.5	36.8	60.0	-23.2
1.632	12.1	20.4	32.5	56.0	-23.5
0.638	11.6	20.5	32.1	56.0	-23.9
1.592	11.6	20.4	32.0	56.0	-24.0
8.930	15.2	20.5	35.7	60.0	-24.3
2.576	11.3	20.4	31.7	56.0	-24.3
1.488	11.3	20.4	31.7	56.0	-24.3
4.040	11.3	20.3	31.6	56.0	-24.4
2.168	11.2	20.4	31.6	56.0	-24.4
0.759	11.0	20.4	31.4	56.0	-24.6
0.895	11.0	20.4	31.4	56.0	-24.6
9.470	14.8	20.5	35.3	60.0	-24.7
9.420	14.8	20.5	35.3	60.0	-24.7
9.350	14.8	20.5	35.3	60.0	-24.7
1.840	10.9	20.4	31.3	56.0	-24.7
9.710	14.7	20.5	35.2	60.0	-24.8
3.552	10.9	20.3	31.2	56.0	-24.8
2.664	10.8	20.4	31.2	56.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	55.9	-10.9
9.230	16.6	20.5	37.1	50.0	-12.9
9.290	16.3	20.5	36.8	50.0	-13.2
1.632	12.1	20.4	32.5	46.0	-13.5
0.638	11.6	20.5	32.1	46.0	-13.9
1.592	11.6	20.4	32.0	46.0	-14.0
8.930	15.2	20.5	35.7	50.0	-14.3
2.576	11.3	20.4	31.7	46.0	-14.3
1.488	11.3	20.4	31.7	46.0	-14.3
4.040	11.3	20.3	31.6	46.0	-14.4
2.168	11.2	20.4	31.6	46.0	-14.4
0.759	11.0	20.4	31.4	46.0	-14.6
0.895	11.0	20.4	31.4	46.0	-14.6
9.470	14.8	20.5	35.3	50.0	-14.7
9.420	14.8	20.5	35.3	50.0	-14.7
9.350	14.8	20.5	35.3	50.0	-14.7
1.840	10.9	20.4	31.3	46.0	-14.7
9.710	14.7	20.5	35.2	50.0	-14.8
3.552	10.9	20.3	31.2	46.0	-14.8
2.664	10.8	20.4	31.2	46.0	-14.8

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

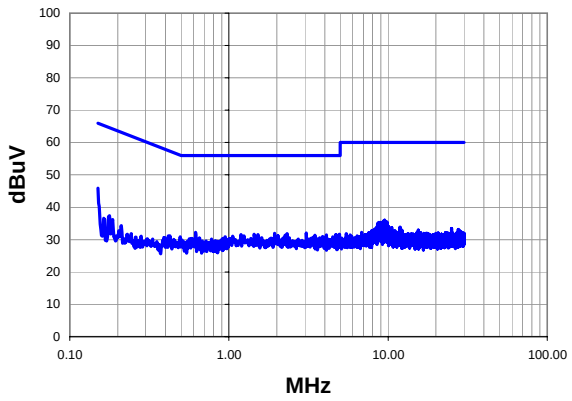
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), Mid Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

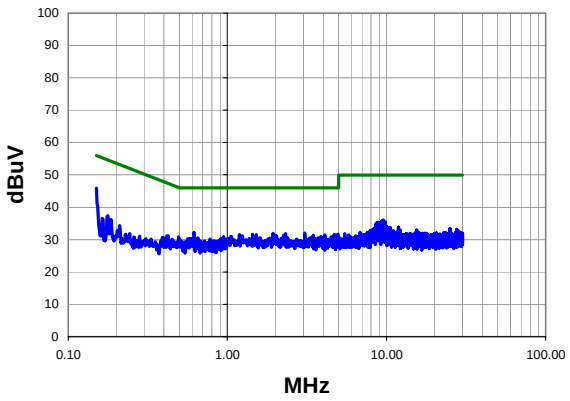
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	3	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	24.2	21.7	45.9	66.0	-20.1
0.618	11.8	20.5	32.3	56.0	-23.7
9.530	15.5	20.5	36.0	60.0	-24.0
3.064	11.6	20.4	32.0	56.0	-24.0
1.936	11.5	20.4	31.9	56.0	-24.1
2.320	11.4	20.4	31.8	56.0	-24.2
9.350	15.2	20.5	35.7	60.0	-24.3
1.440	11.3	20.4	31.7	56.0	-24.3
4.944	11.2	20.5	31.7	56.0	-24.3
1.192	11.2	20.4	31.6	56.0	-24.4
1.520	11.2	20.4	31.6	56.0	-24.4
4.696	11.2	20.4	31.6	56.0	-24.5
4.096	11.1	20.3	31.4	56.0	-24.6
9.830	14.9	20.5	35.4	60.0	-24.6
2.256	11.0	20.4	31.4	56.0	-24.6
3.464	11.0	20.3	31.3	56.0	-24.7
8.930	14.8	20.5	35.3	60.0	-24.7
8.760	14.8	20.5	35.3	60.0	-24.7
1.240	10.8	20.4	31.2	56.0	-24.8
9.110	14.6	20.5	35.1	60.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	24.2	21.7	45.9	56.0	-10.1
0.618	11.8	20.5	32.3	46.0	-13.7
9.530	15.5	20.5	36.0	50.0	-14.0
3.064	11.6	20.4	32.0	46.0	-14.0
1.936	11.5	20.4	31.9	46.0	-14.1
2.320	11.4	20.4	31.8	46.0	-14.2
9.350	15.2	20.5	35.7	50.0	-14.3
1.440	11.3	20.4	31.7	46.0	-14.3
4.944	11.2	20.5	31.7	46.0	-14.3
1.192	11.2	20.4	31.6	46.0	-14.4
1.520	11.2	20.4	31.6	46.0	-14.4
4.696	11.2	20.4	31.6	46.0	-14.5
4.096	11.1	20.3	31.4	46.0	-14.6
9.830	14.9	20.5	35.4	50.0	-14.6
2.256	11.0	20.4	31.4	46.0	-14.6
3.464	11.0	20.3	31.3	46.0	-14.7
8.930	14.8	20.5	35.3	50.0	-14.7
8.760	14.8	20.5	35.3	50.0	-14.7
1.240	10.8	20.4	31.2	46.0	-14.8
9.110	14.6	20.5	35.1	50.0	-14.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

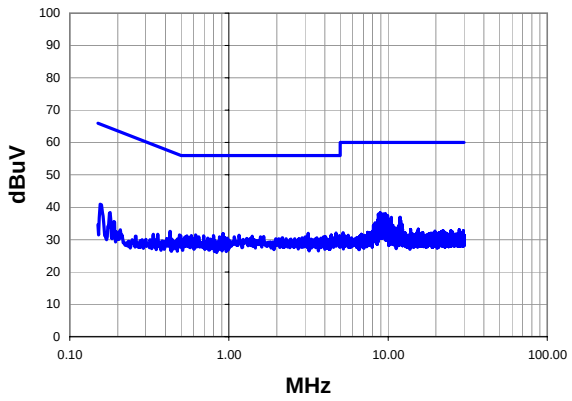
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), Mid Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

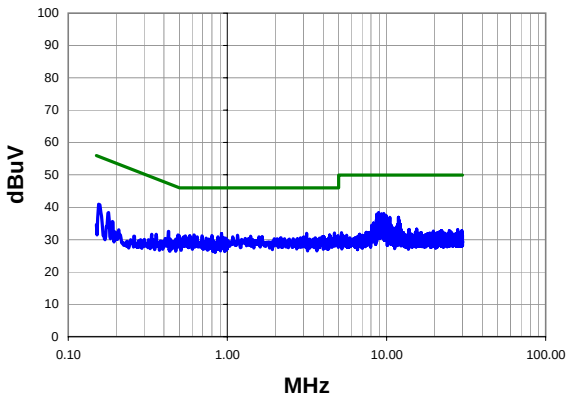
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	4	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.8	20.5	38.3	60.0	-21.7
9.590	17.6	20.5	38.1	60.0	-21.9
9.290	17.4	20.5	37.9	60.0	-22.1
8.690	17.4	20.5	37.9	60.0	-22.1
9.940	17.0	20.5	37.5	60.0	-22.5
9.770	16.8	20.5	37.3	60.0	-22.7
9.530	16.8	20.5	37.3	60.0	-22.7
9.350	16.8	20.5	37.3	60.0	-22.7
9.230	16.8	20.5	37.3	60.0	-22.7
9.470	16.7	20.5	37.2	60.0	-22.8
9.650	16.5	20.5	37.0	60.0	-23.0
9.060	16.5	20.5	37.0	60.0	-23.0
8.990	16.5	20.5	37.0	60.0	-23.0
10.470	16.4	20.5	36.9	60.0	-23.1
11.900	16.3	20.6	36.9	60.0	-23.1
9.410	16.3	20.5	36.8	60.0	-23.2
10.000	15.8	20.5	36.3	60.0	-23.7
9.830	15.8	20.5	36.3	60.0	-23.7
10.120	15.7	20.5	36.2	60.0	-23.8
9.110	15.7	20.5	36.2	60.0	-23.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.8	20.5	38.3	50.0	-11.7
9.590	17.6	20.5	38.1	50.0	-11.9
9.290	17.4	20.5	37.9	50.0	-12.1
8.690	17.4	20.5	37.9	50.0	-12.1
9.940	17.0	20.5	37.5	50.0	-12.5
9.770	16.8	20.5	37.3	50.0	-12.7
9.530	16.8	20.5	37.3	50.0	-12.7
9.350	16.8	20.5	37.3	50.0	-12.7
9.230	16.8	20.5	37.3	50.0	-12.7
9.470	16.7	20.5	37.2	50.0	-12.8
9.650	16.5	20.5	37.0	50.0	-13.0
9.060	16.5	20.5	37.0	50.0	-13.0
8.990	16.5	20.5	37.0	50.0	-13.0
10.470	16.4	20.5	36.9	50.0	-13.1
11.900	16.3	20.6	36.9	50.0	-13.1
9.410	16.3	20.5	36.8	50.0	-13.2
10.000	15.8	20.5	36.3	50.0	-13.7
9.830	15.8	20.5	36.3	50.0	-13.7
10.120	15.7	20.5	36.2	50.0	-13.8
9.110	15.7	20.5	36.2	50.0	-13.8

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

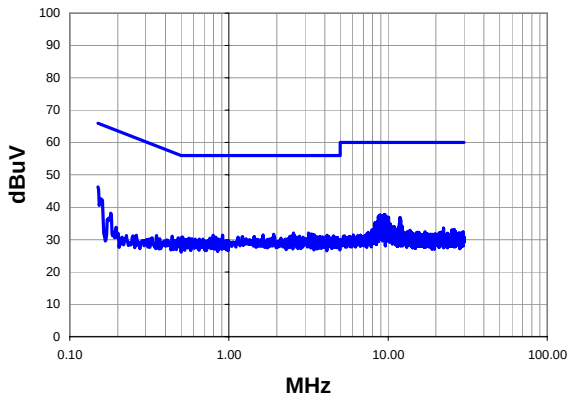
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), High Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

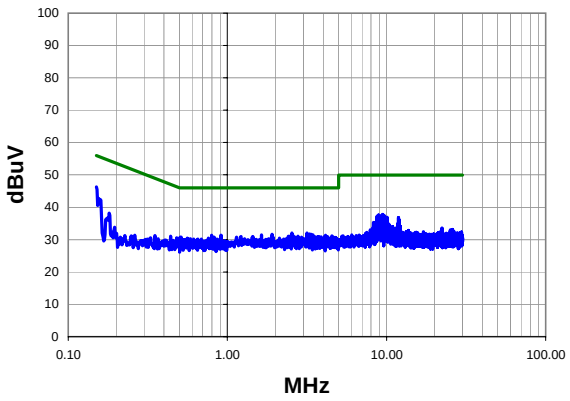
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	5	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	24.6	21.7	46.3	66.0	-19.7
9.470	17.3	20.5	37.8	60.0	-22.2
9.410	17.1	20.5	37.6	60.0	-22.4
8.930	17.1	20.5	37.6	60.0	-22.4
8.820	17.0	20.5	37.5	60.0	-22.5
9.710	16.9	20.5	37.4	60.0	-22.6
9.230	16.9	20.5	37.4	60.0	-22.6
8.990	16.6	20.5	37.1	60.0	-22.9
8.690	16.6	20.5	37.1	60.0	-22.9
10.050	16.4	20.5	36.9	60.0	-23.1
10.000	16.3	20.5	36.8	60.0	-23.2
11.900	16.2	20.6	36.8	60.0	-23.2
9.770	16.2	20.5	36.7	60.0	-23.3
9.650	16.1	20.5	36.6	60.0	-23.4
9.290	16.1	20.5	36.6	60.0	-23.4
9.880	16.0	20.5	36.5	60.0	-23.5
9.530	15.9	20.5	36.4	60.0	-23.6
9.590	15.8	20.5	36.3	60.0	-23.7
9.830	15.6	20.5	36.1	60.0	-23.9
12.000	15.5	20.6	36.1	60.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	24.6	21.7	46.3	56.0	-9.7
9.470	17.3	20.5	37.8	50.0	-12.2
9.410	17.1	20.5	37.6	50.0	-12.4
8.930	17.1	20.5	37.6	50.0	-12.4
8.820	17.0	20.5	37.5	50.0	-12.5
9.710	16.9	20.5	37.4	50.0	-12.6
9.230	16.9	20.5	37.4	50.0	-12.6
8.990	16.6	20.5	37.1	50.0	-12.9
8.690	16.6	20.5	37.1	50.0	-12.9
10.050	16.4	20.5	36.9	50.0	-13.1
10.000	16.3	20.5	36.8	50.0	-13.2
11.900	16.2	20.6	36.8	50.0	-13.2
9.770	16.2	20.5	36.7	50.0	-13.3
9.650	16.1	20.5	36.6	50.0	-13.4
9.290	16.1	20.5	36.6	50.0	-13.4
9.880	16.0	20.5	36.5	50.0	-13.5
9.530	15.9	20.5	36.4	50.0	-13.6
9.590	15.8	20.5	36.3	50.0	-13.7
9.830	15.6	20.5	36.1	50.0	-13.9
12.000	15.5	20.6	36.1	50.0	-13.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

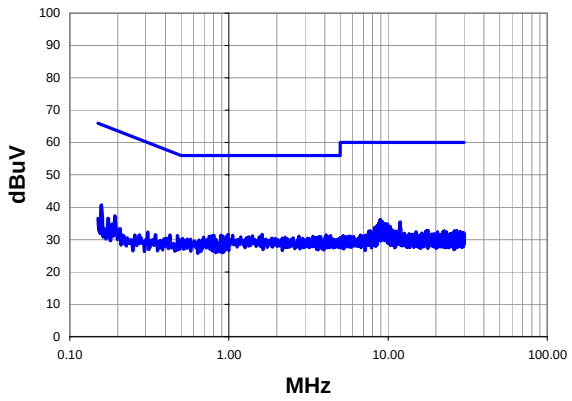
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(b), High Channel, 1Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

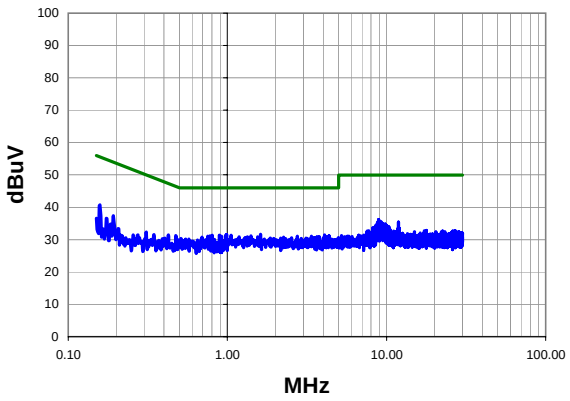
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	6	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

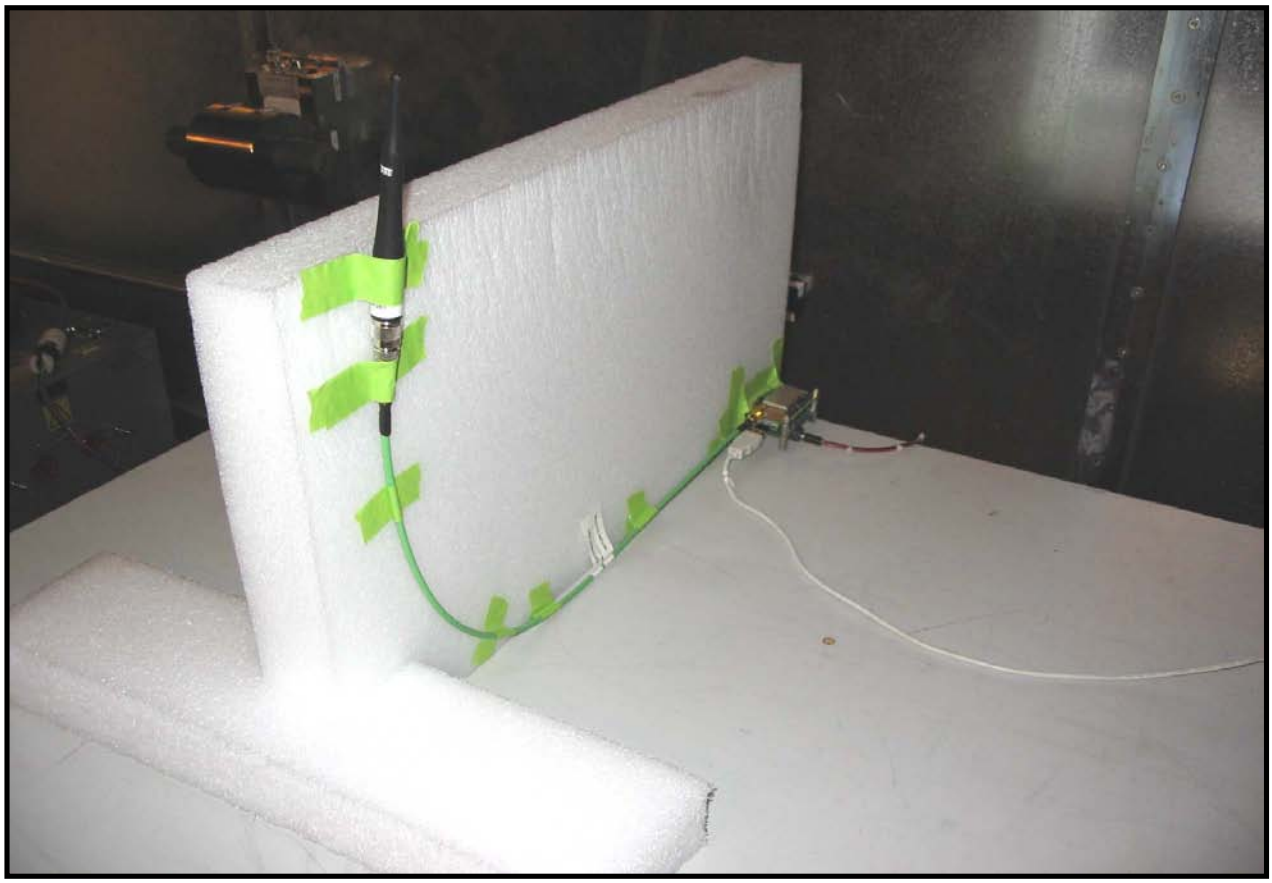


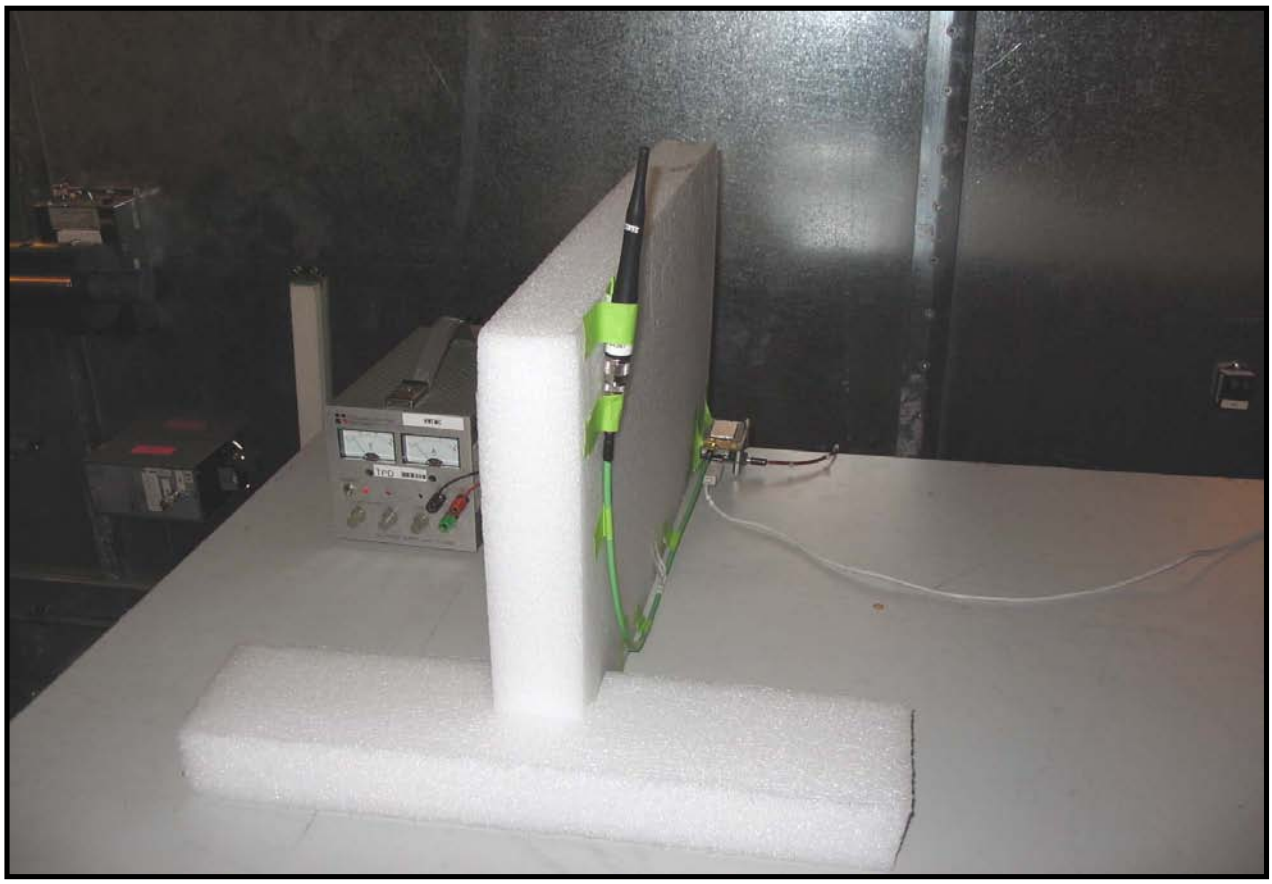
Peak Data - vs - Quasi Peak Limit

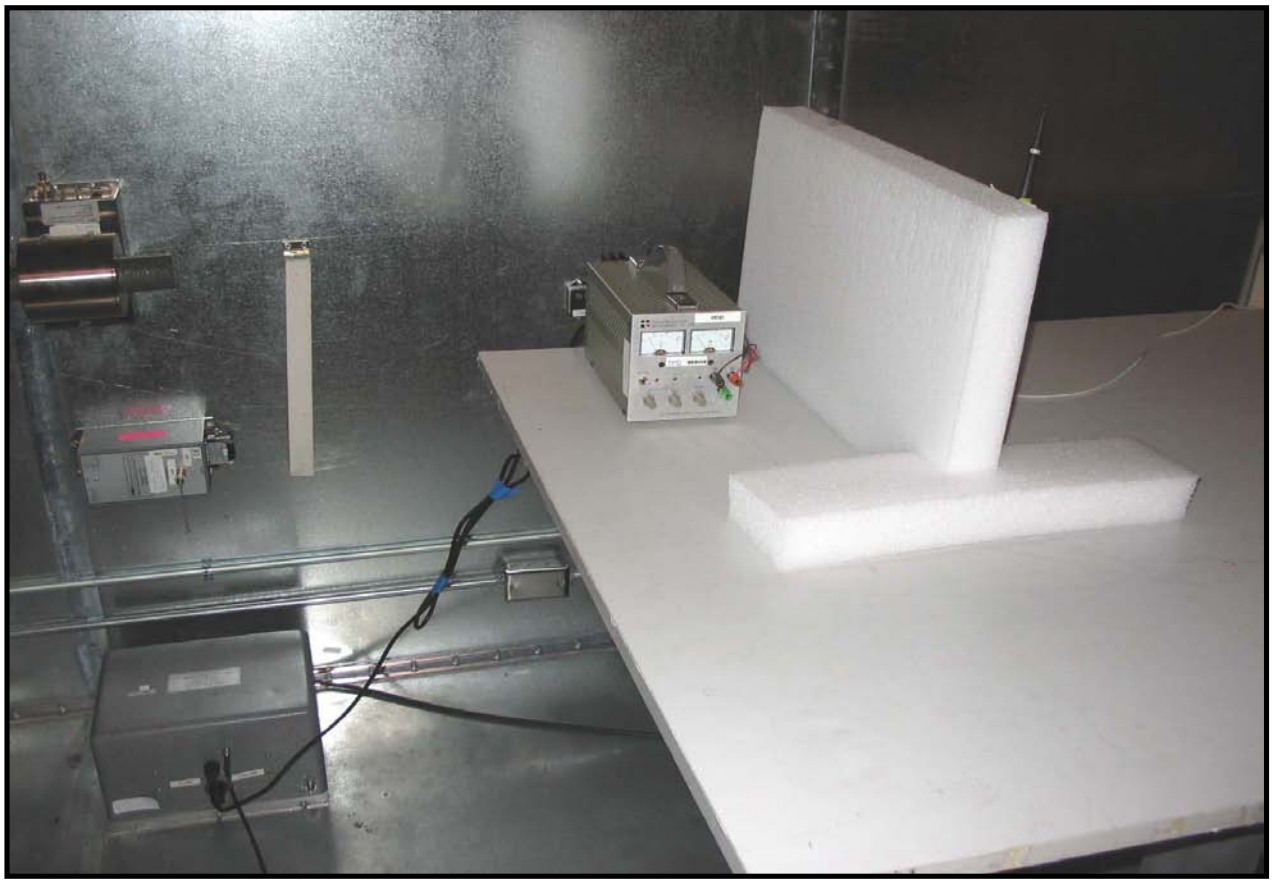
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	15.7	20.5	36.2	60.0	-23.8
8.990	15.2	20.5	35.7	60.0	-24.3
8.880	15.2	20.5	35.7	60.0	-24.3
1.616	11.3	20.4	31.7	56.0	-24.3
9.230	15.1	20.5	35.6	60.0	-24.4
0.990	11.2	20.4	31.6	56.0	-24.4
11.900	14.9	20.6	35.5	60.0	-24.5
4.088	11.1	20.3	31.4	56.0	-24.6
1.056	11.0	20.4	31.4	56.0	-24.6
0.803	11.0	20.4	31.4	56.0	-24.6
0.891	11.0	20.4	31.4	56.0	-24.6
0.159	19.2	21.6	40.8	65.5	-24.8
1.408	10.8	20.4	31.2	56.0	-24.8
0.779	10.8	20.4	31.2	56.0	-24.8
4.352	10.8	20.3	31.1	56.0	-24.9
9.290	14.6	20.5	35.1	60.0	-24.9
8.820	14.6	20.5	35.1	60.0	-24.9
8.760	14.6	20.5	35.1	60.0	-24.9
0.752	10.7	20.4	31.1	56.0	-24.9
0.917	10.7	20.4	31.1	56.0	-24.9

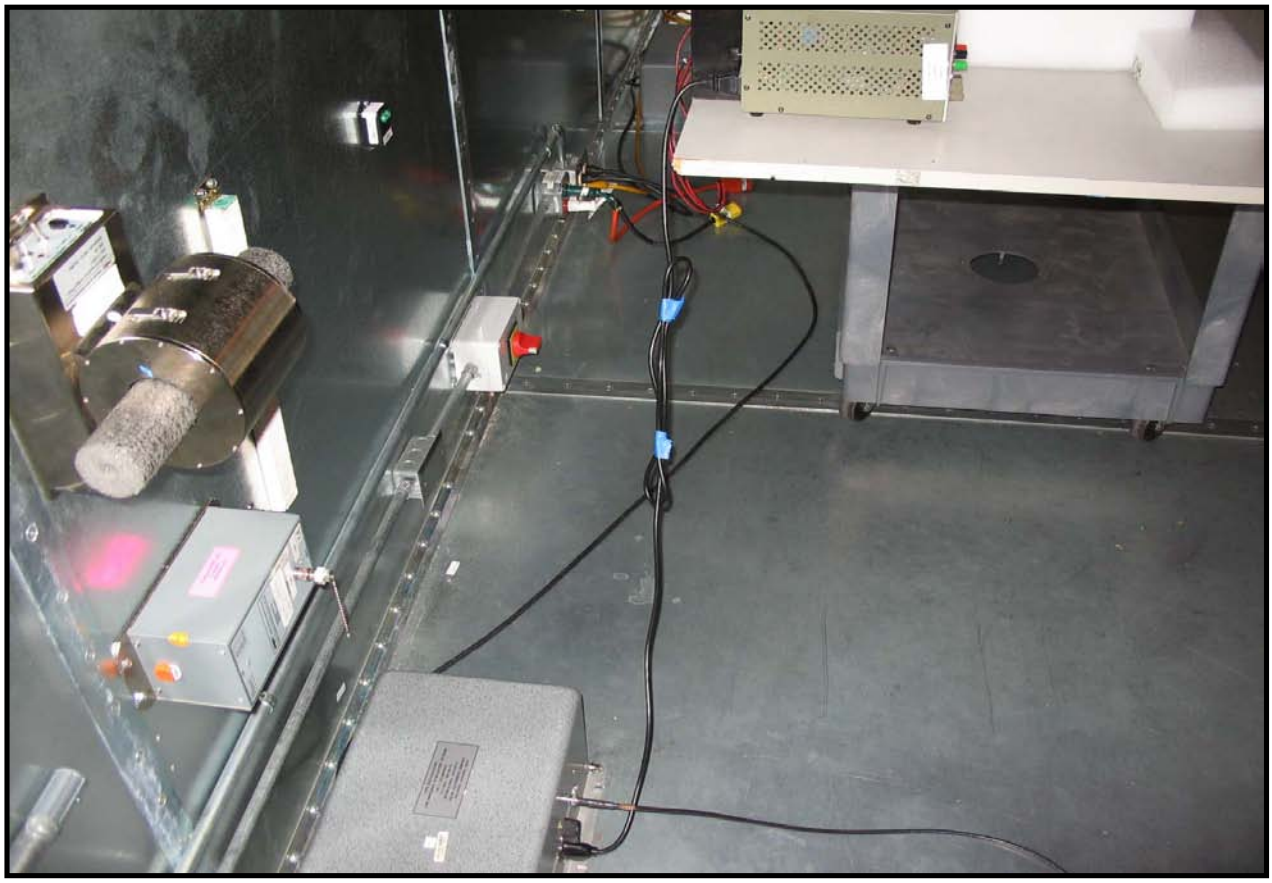
Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	15.7	20.5	36.2	50.0	-13.8
8.990	15.2	20.5	35.7	50.0	-14.3
8.880	15.2	20.5	35.7	50.0	-14.3
1.616	11.3	20.4	31.7	46.0	-14.3
9.230	15.1	20.5	35.6	50.0	-14.4
0.990	11.2	20.4	31.6	46.0	-14.4
11.900	14.9	20.6	35.5	50.0	-14.5
4.088	11.1	20.3	31.4	46.0	-14.6
1.056	11.0	20.4	31.4	46.0	-14.6
0.803	11.0	20.4	31.4	46.0	-14.6
0.891	11.0	20.4	31.4	46.0	-14.6
0.159	19.2	21.6	40.8	55.5	-14.8
1.408	10.8	20.4	31.2	46.0	-14.8
0.779	10.8	20.4	31.2	46.0	-14.8
4.352	10.8	20.3	31.1	46.0	-14.9
9.290	14.6	20.5	35.1	50.0	-14.9
8.820	14.6	20.5	35.1	50.0	-14.9
8.760	14.6	20.5	35.1	50.0	-14.9
0.752	10.7	20.4	31.1	46.0	-14.9
0.917	10.7	20.4	31.1	46.0	-14.9









AC POWERLINE 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.

MODES OF OPERATION
Transmitting 802.11(g), Low Channel, 6Mbps.
Transmitting 802.11(g), Mid Channel, 6Mbps.
Transmitting 802.11(g), High Channel, 6Mbps.

POWER SETTINGS INVESTIGATED
5VDC (120V/60Hz)

CONFIGURATIONS INVESTIGATED
INMC0546 - 8

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
EV07 Cables		Conducted Cables	EVG	6/1/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	7/21/2009	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	5/27/2009	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

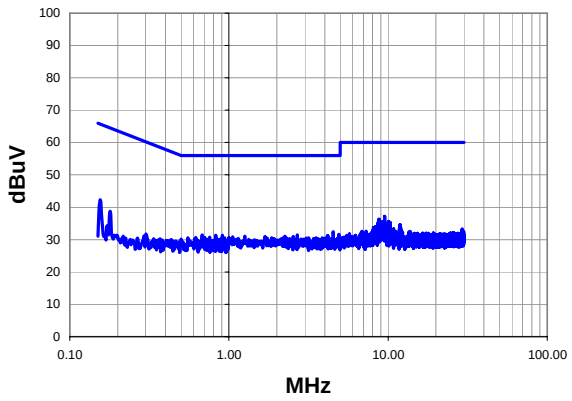
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), High Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

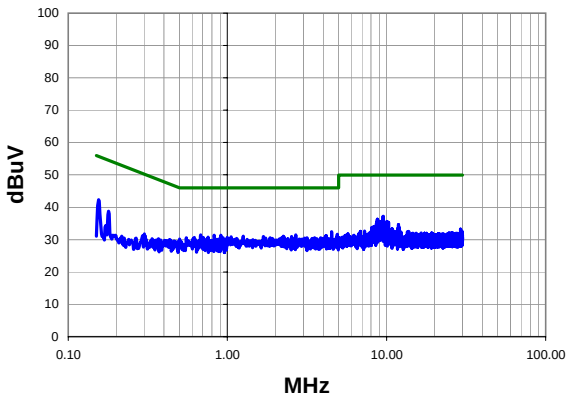
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	7	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.530	16.7	20.5	37.2	60.0	-22.8
0.155	20.7	21.6	42.3	65.7	-23.4
4.520	12.1	20.4	32.5	56.0	-23.6
8.750	15.8	20.5	36.3	60.0	-23.7
8.810	15.7	20.5	36.2	60.0	-23.8
9.410	15.2	20.5	35.7	60.0	-24.3
10.050	15.1	20.5	35.6	60.0	-24.4
4.904	11.2	20.4	31.6	56.0	-24.4
9.350	15.1	20.5	35.6	60.0	-24.4
9.230	15.1	20.5	35.6	60.0	-24.4
8.870	15.1	20.5	35.6	60.0	-24.4
9.470	15.0	20.5	35.5	60.0	-24.5
8.690	15.0	20.5	35.5	60.0	-24.5
0.679	11.0	20.5	31.5	56.0	-24.5
2.688	11.0	20.4	31.4	56.0	-24.6
0.827	11.0	20.4	31.4	56.0	-24.6
0.908	11.0	20.4	31.4	56.0	-24.6
10.300	14.8	20.5	35.3	60.0	-24.7
4.184	10.9	20.3	31.2	56.0	-24.8
8.990	14.6	20.5	35.1	60.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.530	16.7	20.5	37.2	50.0	-12.8
0.155	20.7	21.6	42.3	55.7	-13.4
4.520	12.1	20.4	32.5	46.0	-13.6
8.750	15.8	20.5	36.3	50.0	-13.7
8.810	15.7	20.5	36.2	50.0	-13.8
9.410	15.2	20.5	35.7	50.0	-14.3
10.050	15.1	20.5	35.6	50.0	-14.4
4.904	11.2	20.4	31.6	46.0	-14.4
9.350	15.1	20.5	35.6	50.0	-14.4
9.230	15.1	20.5	35.6	50.0	-14.4
8.870	15.1	20.5	35.6	50.0	-14.4
9.470	15.0	20.5	35.5	50.0	-14.5
8.690	15.0	20.5	35.5	50.0	-14.5
0.679	11.0	20.5	31.5	46.0	-14.5
2.688	11.0	20.4	31.4	46.0	-14.6
0.827	11.0	20.4	31.4	46.0	-14.6
0.908	11.0	20.4	31.4	46.0	-14.6
10.300	14.8	20.5	35.3	50.0	-14.7
4.184	10.9	20.3	31.2	46.0	-14.8
8.990	14.6	20.5	35.1	50.0	-14.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

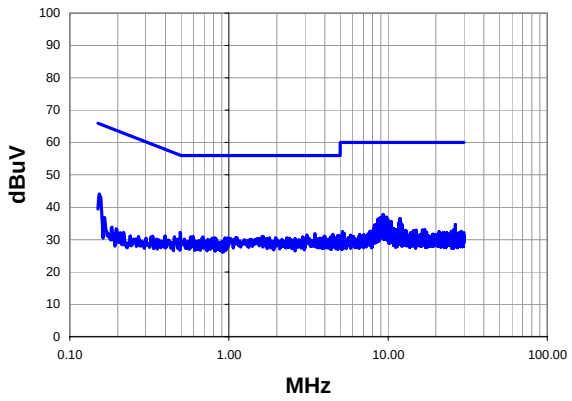
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), High Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

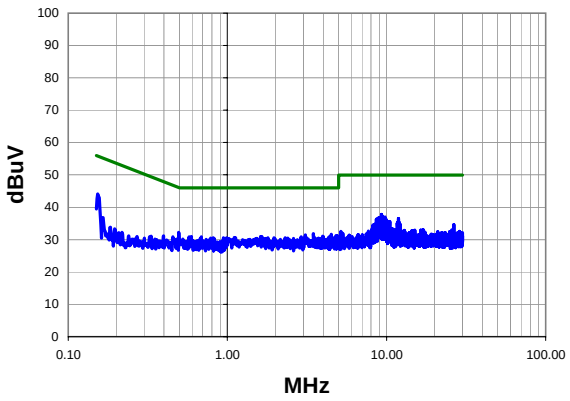
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	8	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	22.5	21.6	44.1	65.8	-21.7
9.290	17.3	20.5	37.8	60.0	-22.2
9.410	16.7	20.5	37.2	60.0	-22.8
9.770	16.5	20.5	37.0	60.0	-23.0
9.470	16.4	20.5	36.9	60.0	-23.1
9.230	16.4	20.5	36.9	60.0	-23.1
9.350	16.3	20.5	36.8	60.0	-23.2
9.530	16.2	20.5	36.7	60.0	-23.3
8.930	16.2	20.5	36.7	60.0	-23.3
9.830	16.1	20.5	36.6	60.0	-23.4
9.170	16.1	20.5	36.6	60.0	-23.4
9.060	16.0	20.5	36.5	60.0	-23.5
11.900	15.9	20.6	36.5	60.0	-23.5
8.750	15.8	20.5	36.3	60.0	-23.7
8.700	15.8	20.5	36.3	60.0	-23.7
8.630	15.8	20.5	36.3	60.0	-23.7
9.950	15.7	20.5	36.2	60.0	-23.8
8.810	15.7	20.5	36.2	60.0	-23.8
0.495	11.8	20.5	32.3	56.1	-23.8
9.710	15.6	20.5	36.1	60.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	22.5	21.6	44.1	55.8	-11.7
9.290	17.3	20.5	37.8	50.0	-12.2
9.410	16.7	20.5	37.2	50.0	-12.8
9.770	16.5	20.5	37.0	50.0	-13.0
9.470	16.4	20.5	36.9	50.0	-13.1
9.230	16.4	20.5	36.9	50.0	-13.1
9.350	16.3	20.5	36.8	50.0	-13.2
9.530	16.2	20.5	36.7	50.0	-13.3
8.930	16.2	20.5	36.7	50.0	-13.3
9.830	16.1	20.5	36.6	50.0	-13.4
9.170	16.1	20.5	36.6	50.0	-13.4
9.060	16.0	20.5	36.5	50.0	-13.5
11.900	15.9	20.6	36.5	50.0	-13.5
8.750	15.8	20.5	36.3	50.0	-13.7
8.700	15.8	20.5	36.3	50.0	-13.7
8.630	15.8	20.5	36.3	50.0	-13.7
9.950	15.7	20.5	36.2	50.0	-13.8
8.810	15.7	20.5	36.2	50.0	-13.8
0.495	11.8	20.5	32.3	46.1	-13.8
9.710	15.6	20.5	36.1	50.0	-13.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

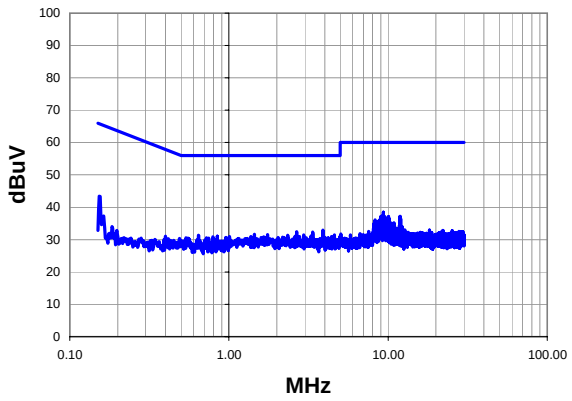
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), Mid Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

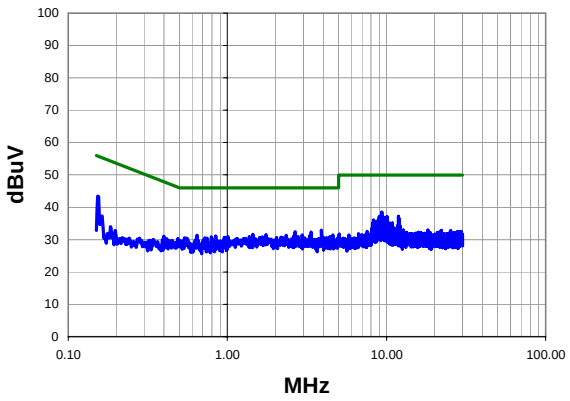
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	9	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.350	18.0	20.5	38.5	60.0	-21.5
0.153	21.8	21.6	43.4	65.8	-22.4
9.230	16.9	20.5	37.4	60.0	-22.6
9.410	16.7	20.5	37.2	60.0	-22.8
8.990	16.7	20.5	37.2	60.0	-22.8
11.900	16.6	20.6	37.2	60.0	-22.8
10.060	16.6	20.5	37.1	60.0	-22.9
9.170	16.6	20.5	37.1	60.0	-22.9
9.530	16.5	20.5	37.0	60.0	-23.0
3.896	12.6	20.3	32.9	56.0	-23.1
9.710	16.2	20.5	36.7	60.0	-23.3
10.120	16.1	20.5	36.6	60.0	-23.4
2.664	12.0	20.4	32.4	56.0	-23.6
12.000	15.8	20.6	36.4	60.0	-23.6
3.360	12.0	20.3	32.3	56.0	-23.7
8.930	15.8	20.5	36.3	60.0	-23.7
9.940	15.7	20.5	36.2	60.0	-23.8
9.470	15.7	20.5	36.2	60.0	-23.8
9.110	15.7	20.5	36.2	60.0	-23.8
8.270	15.6	20.5	36.1	60.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.350	18.0	20.5	38.5	50.0	-11.5
0.153	21.8	21.6	43.4	55.8	-12.4
9.230	16.9	20.5	37.4	50.0	-12.6
9.410	16.7	20.5	37.2	50.0	-12.8
8.990	16.7	20.5	37.2	50.0	-12.8
11.900	16.6	20.6	37.2	50.0	-12.8
10.060	16.6	20.5	37.1	50.0	-12.9
9.170	16.6	20.5	37.1	50.0	-12.9
9.530	16.5	20.5	37.0	50.0	-13.0
3.896	12.6	20.3	32.9	46.0	-13.1
9.710	16.2	20.5	36.7	50.0	-13.3
10.120	16.1	20.5	36.6	50.0	-13.4
2.664	12.0	20.4	32.4	46.0	-13.6
12.000	15.8	20.6	36.4	50.0	-13.6
3.360	12.0	20.3	32.3	46.0	-13.7
8.930	15.8	20.5	36.3	50.0	-13.7
9.940	15.7	20.5	36.2	50.0	-13.8
9.470	15.7	20.5	36.2	50.0	-13.8
9.110	15.7	20.5	36.2	50.0	-13.8
8.270	15.6	20.5	36.1	50.0	-13.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

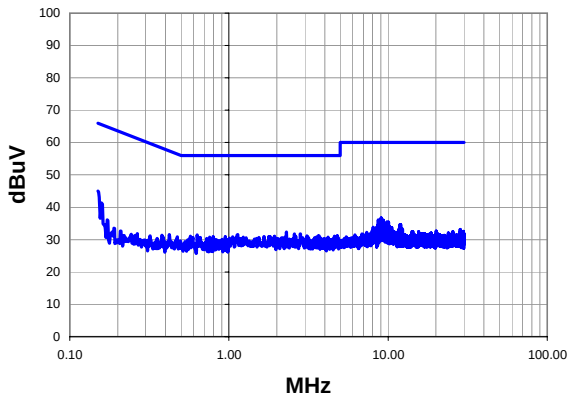
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), Mid Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

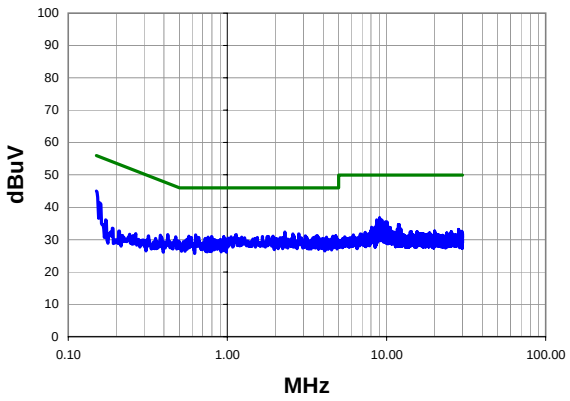
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	10	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	23.3	21.7	45.0	66.0	-21.0
9.050	16.2	20.5	36.7	60.0	-23.3
2.296	11.9	20.4	32.3	56.0	-23.7
8.690	15.6	20.5	36.1	60.0	-23.9
9.350	15.5	20.5	36.0	60.0	-24.0
0.159	19.8	21.6	41.4	65.5	-24.2
2.816	11.3	20.4	31.7	56.0	-24.3
2.576	11.3	20.4	31.7	56.0	-24.3
9.230	15.1	20.5	35.6	60.0	-24.4
1.136	11.2	20.4	31.6	56.0	-24.4
0.633	11.0	20.5	31.5	56.0	-24.5
10.050	14.9	20.5	35.4	60.0	-24.6
9.830	14.9	20.5	35.4	60.0	-24.6
9.290	14.8	20.5	35.3	60.0	-24.7
8.750	14.7	20.5	35.2	60.0	-24.8
4.800	10.8	20.4	31.2	56.0	-24.8
3.688	10.8	20.3	31.1	56.0	-24.9
3.096	10.7	20.4	31.1	56.0	-24.9
1.936	10.7	20.4	31.1	56.0	-24.9
0.573	10.6	20.5	31.1	56.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	23.3	21.7	45.0	56.0	-11.0
9.050	16.2	20.5	36.7	50.0	-13.3
2.296	11.9	20.4	32.3	46.0	-13.7
8.690	15.6	20.5	36.1	50.0	-13.9
9.350	15.5	20.5	36.0	50.0	-14.0
0.159	19.8	21.6	41.4	55.5	-14.2
2.816	11.3	20.4	31.7	46.0	-14.3
2.576	11.3	20.4	31.7	46.0	-14.3
9.230	15.1	20.5	35.6	50.0	-14.4
1.136	11.2	20.4	31.6	46.0	-14.4
0.633	11.0	20.5	31.5	46.0	-14.5
10.050	14.9	20.5	35.4	50.0	-14.6
9.830	14.9	20.5	35.4	50.0	-14.6
9.290	14.8	20.5	35.3	50.0	-14.7
8.750	14.7	20.5	35.2	50.0	-14.8
4.800	10.8	20.4	31.2	46.0	-14.8
3.688	10.8	20.3	31.1	46.0	-14.9
3.096	10.7	20.4	31.1	46.0	-14.9
1.936	10.7	20.4	31.1	46.0	-14.9
0.573	10.6	20.5	31.1	46.0	-14.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

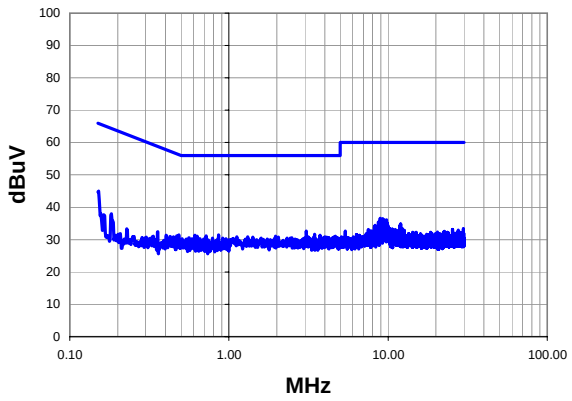
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), Low Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

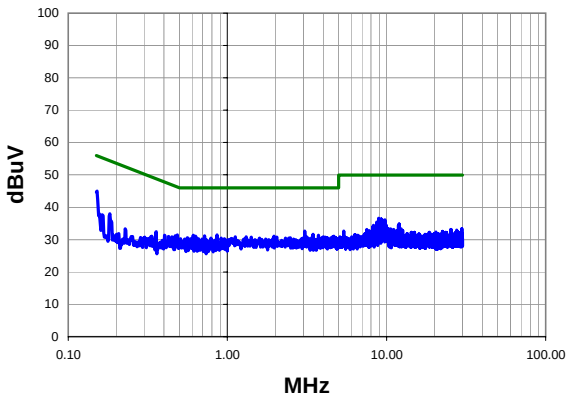
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	11	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	65.9	-20.9
3.064	12.2	20.4	32.6	56.0	-23.4
8.940	16.1	20.5	36.6	60.0	-23.4
9.230	15.9	20.5	36.4	60.0	-23.6
9.290	15.8	20.5	36.3	60.0	-23.7
9.770	15.6	20.5	36.1	60.0	-23.9
9.350	15.5	20.5	36.0	60.0	-24.0
9.530	15.4	20.5	35.9	60.0	-24.1
3.448	11.3	20.3	31.6	56.0	-24.4
0.861	11.1	20.4	31.5	56.0	-24.5
8.690	14.9	20.5	35.4	60.0	-24.6
0.611	10.9	20.5	31.4	56.0	-24.6
9.710	14.8	20.5	35.3	60.0	-24.7
3.728	11.0	20.3	31.3	56.0	-24.7
9.830	14.7	20.5	35.2	60.0	-24.8
0.485	11.0	20.5	31.5	56.3	-24.8
0.719	10.8	20.4	31.2	56.0	-24.8
9.050	14.6	20.5	35.1	60.0	-24.9
8.990	14.6	20.5	35.1	60.0	-24.9
8.760	14.6	20.5	35.1	60.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	23.4	21.6	45.0	55.9	-10.9
3.064	12.2	20.4	32.6	46.0	-13.4
8.940	16.1	20.5	36.6	50.0	-13.4
9.230	15.9	20.5	36.4	50.0	-13.6
9.290	15.8	20.5	36.3	50.0	-13.7
9.770	15.6	20.5	36.1	50.0	-13.9
9.350	15.5	20.5	36.0	50.0	-14.0
9.530	15.4	20.5	35.9	50.0	-14.1
3.448	11.3	20.3	31.6	46.0	-14.4
0.861	11.1	20.4	31.5	46.0	-14.5
8.690	14.9	20.5	35.4	50.0	-14.6
0.611	10.9	20.5	31.4	46.0	-14.6
9.710	14.8	20.5	35.3	50.0	-14.7
3.728	11.0	20.3	31.3	46.0	-14.7
9.830	14.7	20.5	35.2	50.0	-14.8
0.485	11.0	20.5	31.5	46.3	-14.8
0.719	10.8	20.4	31.2	46.0	-14.8
9.050	14.6	20.5	35.1	50.0	-14.9
8.990	14.6	20.5	35.1	50.0	-14.9
8.760	14.6	20.5	35.1	50.0	-14.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2009.06.09
Version 2009.5.18

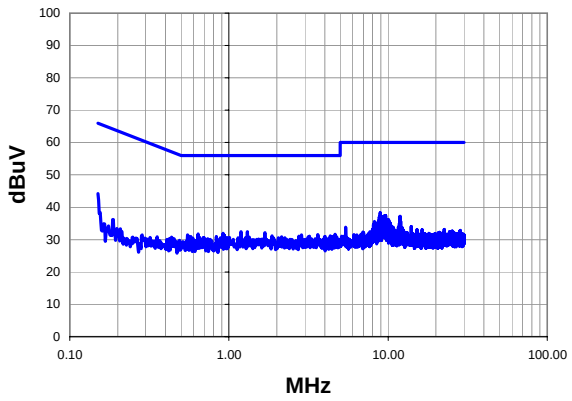
Work Order:	INMC0546	**Date:**	08/11/09		
Project:	None	**Temperature:**	25°C		
Job Site:	EV07	**Humidity:**	49		
Serial Number:	00-21-e8-70-09-c4	**Barometric Pres.:**	1017.5mb	**Tested by:**	Jennifer Herrett

EUT:	Galileo modular radio (TI)
Configuration:	8 - AC Powerline Conducted Emissions with Laird MAF94367 Whip Antenna
Customer:	Intermec Technologies Corporation
Attendees:	None
EUT Power:	5VDC (120V/60Hz)
Operating Mode:	Transmitting 802.11(g), Low Channel, 6Mbps.
Deviations:	No deviations.
Comments:	Laird MAF94367 Whip Antenna.

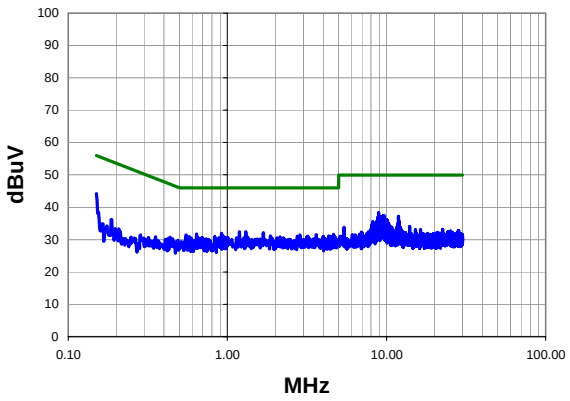
Test Specifications	**Test Method**
FCC 15.207:2009	ANSI C63.4:2003

Run #	12	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.8	20.5	38.3	60.0	-21.7
0.150	22.6	21.7	44.3	66.0	-21.7
9.650	16.9	20.5	37.4	60.0	-22.6
9.530	16.9	20.5	37.4	60.0	-22.6
9.590	16.8	20.5	37.3	60.0	-22.7
9.460	16.7	20.5	37.2	60.0	-22.8
11.900	16.6	20.6	37.2	60.0	-22.8
9.410	16.6	20.5	37.1	60.0	-22.9
9.350	16.5	20.5	37.0	60.0	-23.0
9.110	16.5	20.5	37.0	60.0	-23.0
8.810	16.5	20.5	37.0	60.0	-23.0
9.290	16.4	20.5	36.9	60.0	-23.1
9.170	16.0	20.5	36.5	60.0	-23.5
1.192	12.1	20.4	32.5	56.0	-23.5
1.304	12.1	20.4	32.5	56.0	-23.5
8.870	15.9	20.5	36.4	60.0	-23.6
8.990	15.8	20.5	36.3	60.0	-23.7
10.000	15.7	20.5	36.2	60.0	-23.8
9.230	15.7	20.5	36.2	60.0	-23.8
1.688	11.7	20.4	32.1	56.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.930	17.8	20.5	38.3	50.0	-11.7
0.150	22.6	21.7	44.3	56.0	-11.7
9.650	16.9	20.5	37.4	50.0	-12.6
9.530	16.9	20.5	37.4	50.0	-12.6
9.590	16.8	20.5	37.3	50.0	-12.7
9.460	16.7	20.5	37.2	50.0	-12.8
11.900	16.6	20.6	37.2	50.0	-12.8
9.410	16.6	20.5	37.1	50.0	-12.9
9.350	16.5	20.5	37.0	50.0	-13.0
9.110	16.5	20.5	37.0	50.0	-13.0
8.810	16.5	20.5	37.0	50.0	-13.0
9.290	16.4	20.5	36.9	50.0	-13.1
9.170	16.0	20.5	36.5	50.0	-13.5
1.192	12.1	20.4	32.5	46.0	-13.5
1.304	12.1	20.4	32.5	46.0	-13.5
8.870	15.9	20.5	36.4	50.0	-13.6
8.990	15.8	20.5	36.3	50.0	-13.7
10.000	15.7	20.5	36.2	50.0	-13.8
9.230	15.7	20.5	36.2	50.0	-13.8
1.688	11.7	20.4	32.1	46.0	-13.9