Masimo Corporation

Rad-87

EMC Test Report

Report No. MASI0063

Report Prepared By

NORTHWEST EMC

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

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: October 5, 2010

Masimo Corporation

Model: Rad-87

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Spurious Radiated Emissions	FCC 15.247:2010	ANSI C63.10:2009	**Pass**
Spurious Radiated Emissions	FCC 15.209:2010	ANSI C63.10:2009	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2010	ANSI C63.10:2009	**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.
41 Tesla Ave.
Irvine, CA 92618

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 #2834B-2).

Approved By:
Don Facteau, IS Manager

NVLAP Lab Code: 200676-0

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.

Accreditations and Authorizations

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
NVLAP LAB CODE 200881-0

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, Brooklyn Park: 2834E-1)*

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).

Accreditations and Authorizations

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, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).*

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)*

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

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

Northwest EMC Locations

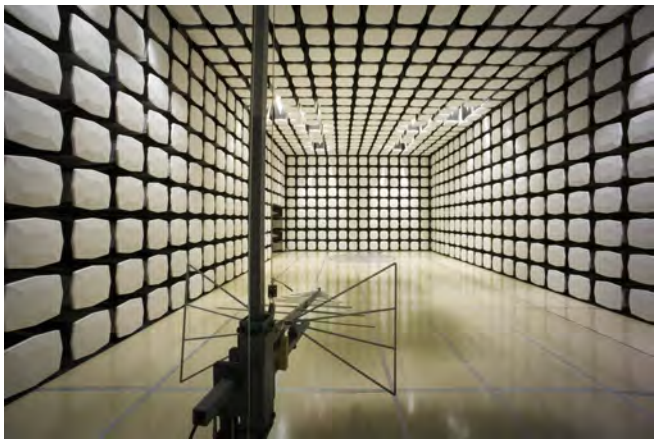
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

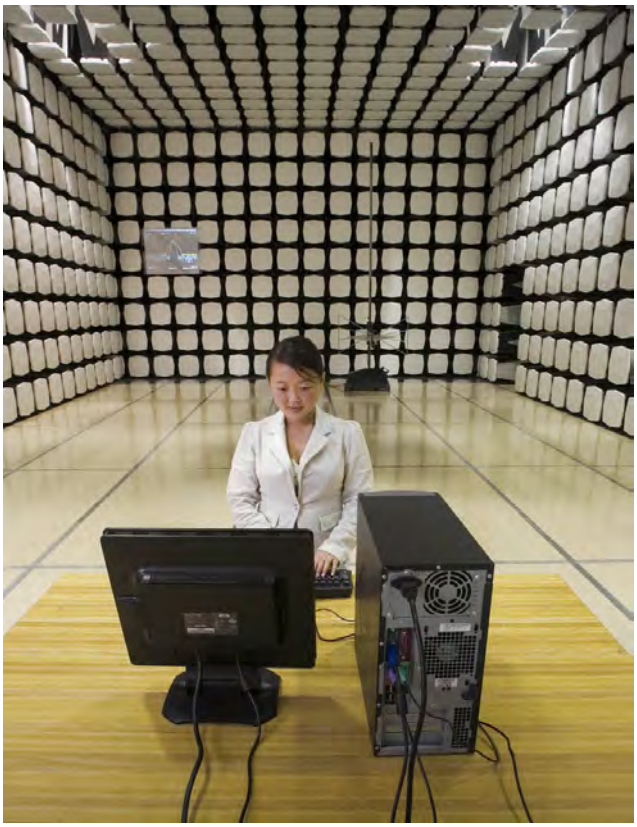
California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

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:	Masimo Corporation
Address:	40 Parker
City, State, Zip:	Irvine, CA 92618
Test Requested By:	Paul Lewandowski
Model:	Rad-87
First Date of Test:	August 26, 2010
Last Date of Test:	October 5, 2010
Receipt Date of Samples:	August 25, 2010
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
One 802.11a/b/g radio module installed in a medical monitoring device that will be connected to hospital wireless network. Radio module previously certified under FCC ID: N6C-SXSDCAG

Testing Objective:
Seeking to demonstrate compliance under FCC 15.247 for operation in the 2.4 and 5.8 GHz bands

CONFIGURATION 1 MASI0063

Software/Firmware Running during test	
Description	**Version**
RadioCfg SX-560	1.0.0.1

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Pulse CO-Oximeter	Masimo Corporation	Rad-87	R02384

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Cable	Yes	2.8m	No	Pulse CO-Oximeter	AC Mains
MS-200 Compatible cable	No	2.0m	No	Pulse CO-Oximeter	Unterminated
Serial Cable	Yes	1.8m	Yes	Pulse CO-Oximeter	Laptop
Ground Cable	Yes	2.0m	No	Pulse CO-Oximeter	Ground
Audio Cable	Yes	4.6m	Yes	Pulse CO-Oximeter	Unterminated
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	8/27/2010	AC Powerline 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.
2	10/5/2010	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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.

CHANNELS TESTED
Chan 1 (2412 MHz)
Chan 6 (2437 MHz)
Chan 11 (2462 MHz)
Chan 149 (5745 MHz
Chan 157 (5785 MHz)
Chan 165 (5825 MHz)

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	1 GHz	Stop Frequency	40 GHz

CLOCKS AND OSCILLATORS
2412 MHz, 2437 MHz, 2462 MHz, 5745 MHz, 5785 MHz, 5825 MHz

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
High Pass Filter	Micro-Tronics	HPM50111	HGC	11/20/2009	13
Pre-Amplifier	Miteq	JS4-26004000-50-5A	AON	8/19/2009	16
Antenna, Horn	EMCO	3160-10	AHI	NCR	0
OC Cable	ESM Cable Corp.	KMKM-72	OCV	11/3/2009	13
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	5/3/2010	13
Antenna, Horn	EMCO	3160-09	AHN	NCR	0
OC floating Cable	N/A	18-26GHz RE Cables	OCK	5/3/2010	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVP	12/21/2009	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	8/25/2010	13
Antenna, Horn	ETS	3160-07	AHX	NCR	0
OC11 Cables	N/A	12-18GHz RE Cables	OCS	4/11/2010	13
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVJ	9/10/2009	13
Antenna, Horn	EMCO	3115	AHB	9/11/2009	24
Antenna, Horn	ETS	3160-08	AHV	NCR	0
OC11 Cables	N/A	1-8GHz RE Cables	OCR	3/19/2010	13
Spectrum Analyzer	Agilent	E4440A	AFA	2/9/2010	12

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 C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST

EMC SPURIOUS RADIATED EMISSIONS

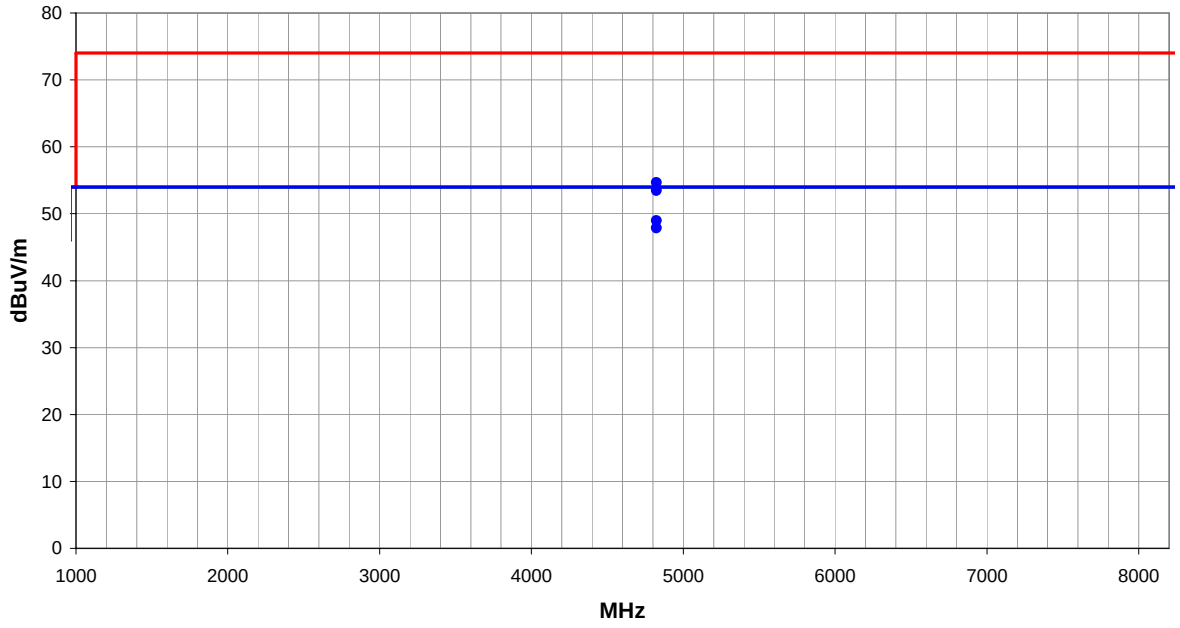
PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden

EUT:	RAD-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: low , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	None

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	5	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4824.044	36.7	12.3	1.2	129.0	3.0	0.0	Horz	AV	0.0	49.0	54.0	-5.0
4824.052	35.6	12.3	1.2	155.0	3.0	0.0	Vert	AV	0.0	47.9	54.0	-6.1
4824.084	42.4	12.3	1.2	129.0	3.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3
4824.052	41.2	12.3	1.2	155.0	3.0	0.0	Vert	PK	0.0	53.5	74.0	-20.5

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EMC SPURIOUS RADIATED EMISSIONS

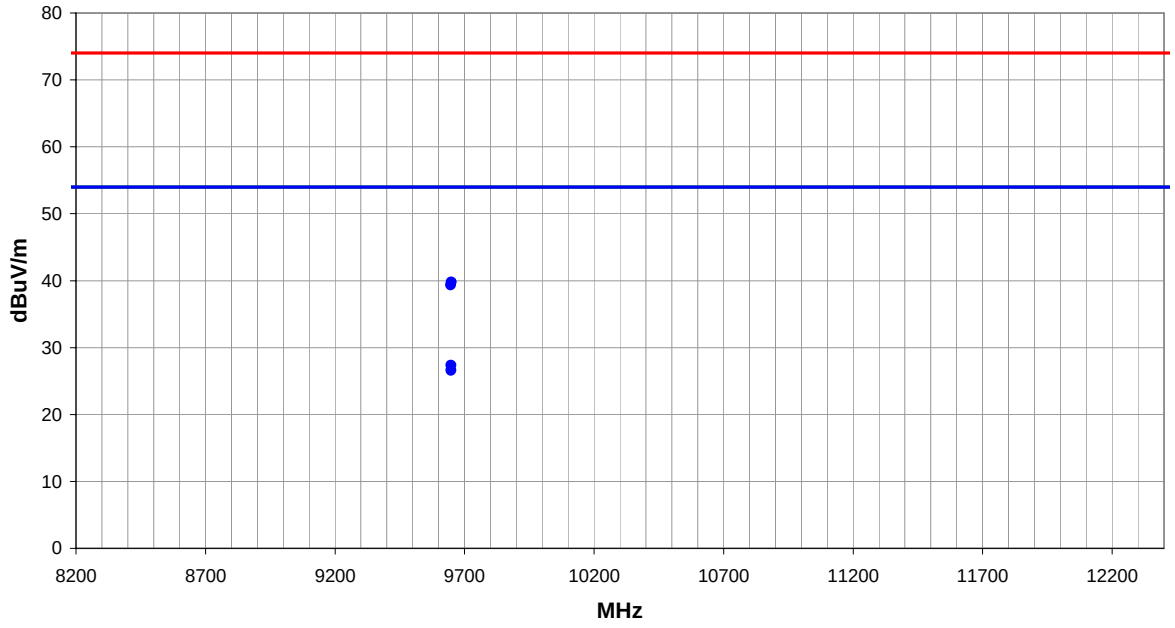
PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden

EUT:	RAD-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: low , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	None

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	6	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
9648.027	36.3	-8.9	1.0	181.0	3.0	0.0	Vert	AV	0.0	27.4	54.0	-26.6
9648.053	35.5	-8.9	1.0	294.0	3.0	0.0	Horz	AV	0.0	26.6	54.0	-27.4
9649.527	48.7	-8.9	1.0	294.0	3.0	0.0	Horz	PK	0.0	39.8	74.0	-34.2
9646.493	48.3	-8.9	1.0	181.0	3.0	0.0	Vert	PK	0.0	39.4	74.0	-34.6

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EMC SPURIOUS RADIATED EMISSIONS

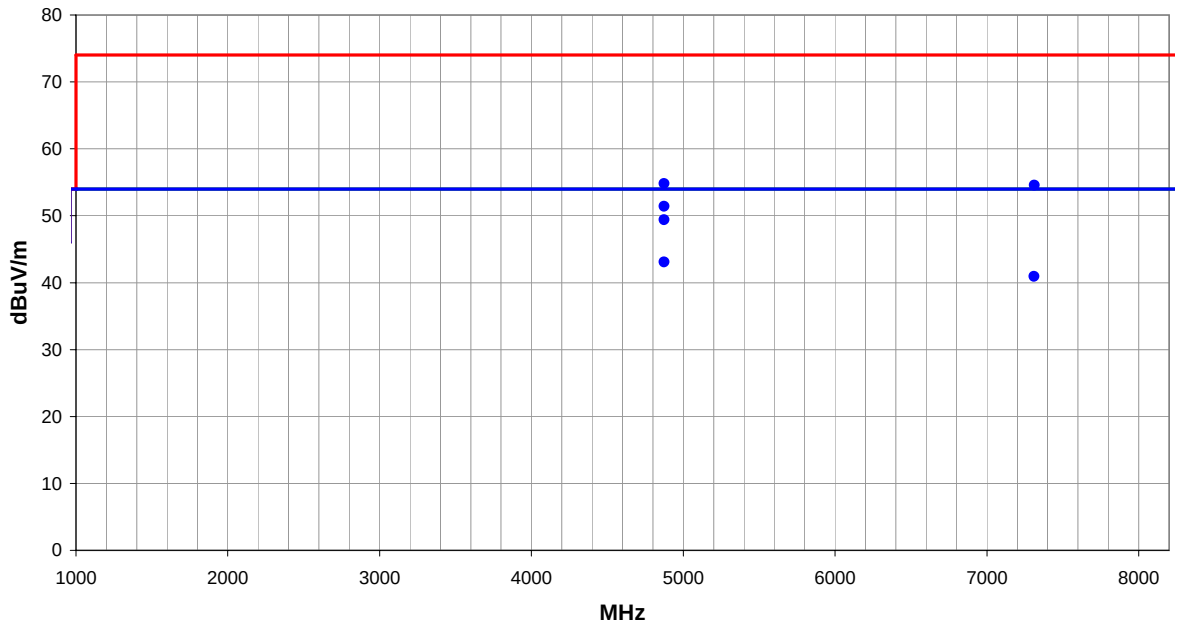
PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden

EUT:	RAD-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: mid , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	None

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	11	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4874.070	37.0	12.4	1.2	131.0	3.0	0.0	Vert	AV	0.0	49.4	54.0	-4.6
4874.077	30.7	12.4	1.3	123.0	3.0	0.0	Horz	AV	0.0	43.1	54.0	-10.9
7311.538	25.7	15.2	3.2	321.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1
4874.070	42.4	12.4	1.2	131.0	3.0	0.0	Vert	PK	0.0	54.8	74.0	-19.2
7312.398	39.3	15.2	3.2	321.0	3.0	0.0	Horz	PK	0.0	54.5	74.0	-19.5
4873.824	39.0	12.4	1.3	123.0	3.0	0.0	Horz	PK	0.0	51.4	74.0	-22.6

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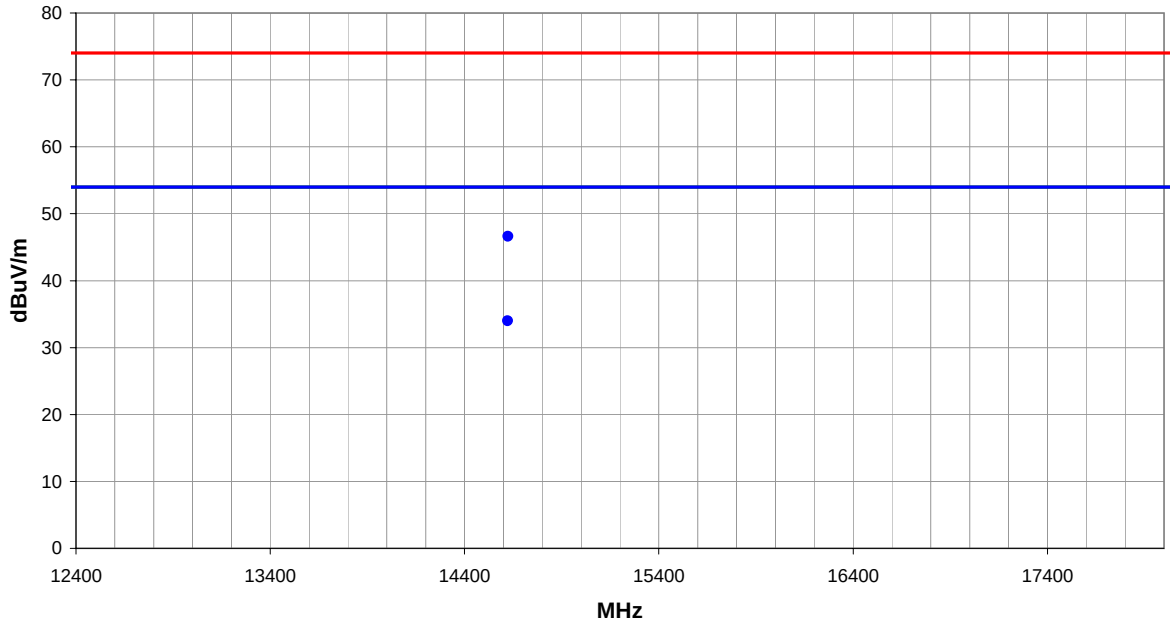
EMC SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden
EUT:	RAD-87				
Configuration:	MASI0063-1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Radio: 2.4GHz, Channel: mid , Data rate: 1 , antenna port: 1				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	13	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
14622.530	28.7	5.3	1.0	45.0	3.0	0.0	Vert	AV	0.0	34.0	54.0	-20.0
14623.270	41.3	5.3	1.0	45.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4

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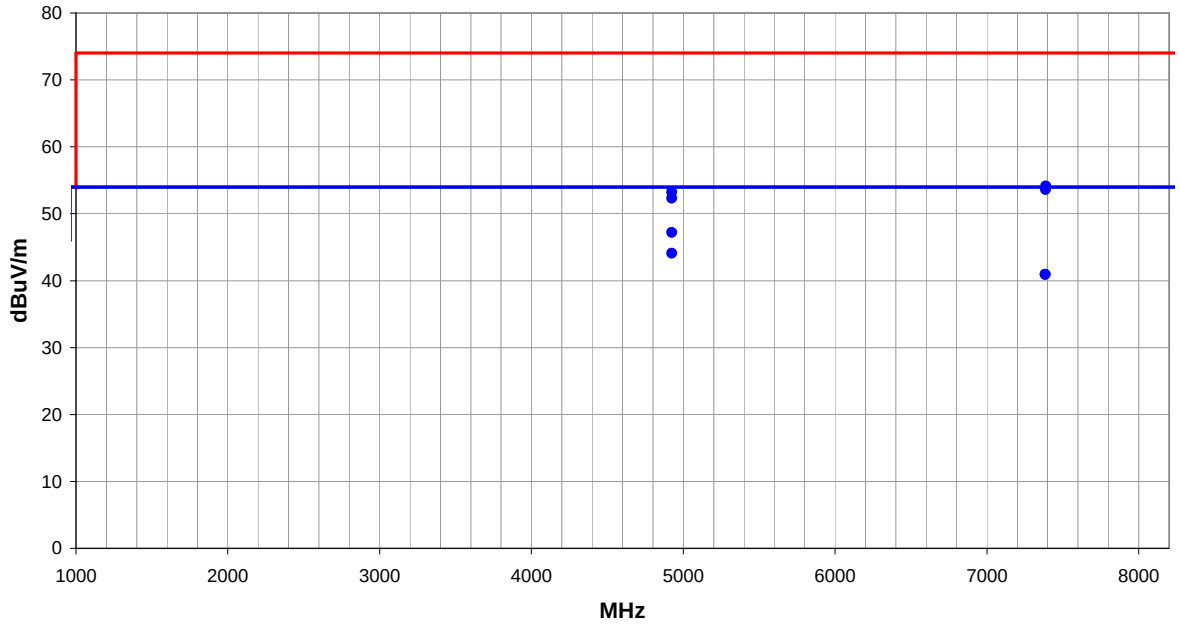
EMC SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden
EUT:	RAD-87				
Configuration:	MASI0063-1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Radio: 2.4GHz, Channel: high , Data rate: 1 , antenna port: 1				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	16	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4924.062	34.7	12.5	1.2	124.0	3.0	0.0	Vert	AV	0.0	47.2	54.0	-6.8
4924.022	31.6	12.5	1.2	114.0	3.0	0.0	Horz	AV	0.0	44.1	54.0	-9.9
7384.407	25.6	15.3	1.0	300.0	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1
7384.373	25.6	15.3	1.0	215.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1
7387.833	38.8	15.3	1.0	215.0	3.0	0.0	Horz	PK	0.0	54.1	74.0	-19.9
7385.387	38.3	15.3	1.0	300.0	3.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4
4924.082	40.7	12.5	1.2	124.0	3.0	0.0	Vert	PK	0.0	53.2	74.0	-20.8
4923.862	39.8	12.5	1.2	114.0	3.0	0.0	Horz	PK	0.0	52.3	74.0	-21.7

NORTHWEST

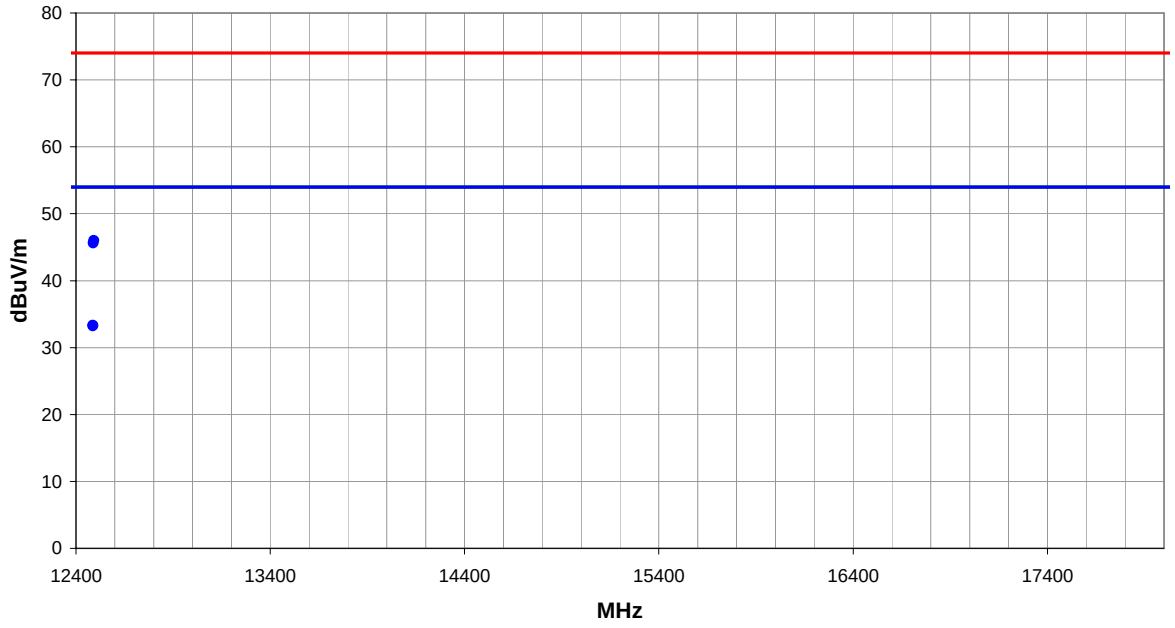
EMC SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/26/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden
EUT:	RAD-87				
Configuration:	MASI0063-1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Radio: 2.4GHz, Channel: high , Data rate: 1 , antenna port: 1				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	18	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
12488.000	28.8	4.5	1.0	14.0	3.0	0.0	Vert	AV	0.0	33.3	54.0	-20.7
12488.000	28.7	4.5	1.0	245.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8
12491.970	41.5	4.5	1.0	245.0	3.0	0.0	Horz	PK	0.0	46.0	74.0	-28.0
12489.410	41.1	4.5	1.0	14.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4

NORTHWEST

EMC SPURIOUS RADIATED EMISSIONS

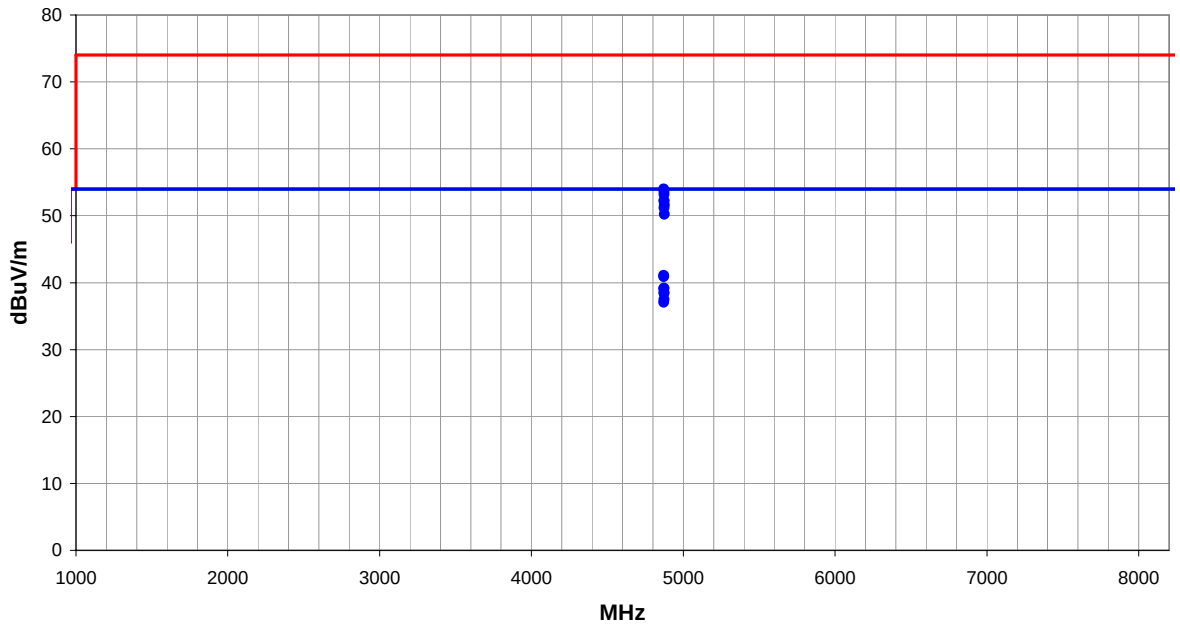
PSA-ESCI 2010.04.06
Version 2010.3.17

Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	21.25		
Job Site:	OC10	**Humidity:**	51.24		
Serial Number:	R02384	**Barometric Pres.:**	1012.25	**Tested by:**	Jeremiah Darden

EUT:	RAD-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: mid , Data rate: see comments , antenna port: 1
Deviations:	None
Comments:	None

Test Specifications	**Test Method**
FCC 15.209:2010	ANSI C63.10:2009

Run #	20	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
4872.000	28.7	12.4	1.0	31.0	3.0	0.0	Vert	AV	0.0	41.1	54.0	-12.9
4872.853	28.5	12.4	1.2	142.0	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1
4874.127	26.8	12.4	1.0	30.0	3.0	0.0	Vert	AV	0.0	39.2	54.0	-14.8
4872.140	26.7	12.4	1.0	33.0	3.0	0.0	Vert	AV	0.0	39.1	54.0	-14.9
4873.253	26.1	12.4	1.0	306.0	3.0	0.0	Horz	AV	0.0	38.5	54.0	-15.5
4874.513	26.0	12.4	1.0	239.0	3.0	0.0	Horz	AV	0.0	38.4	54.0	-15.6
4874.607	25.1	12.4	1.0	242.0	3.0	0.0	Horz	AV	0.0	37.5	54.0	-16.5
4872.333	24.7	12.4	1.0	203.0	3.0	0.0	Horz	AV	0.0	37.1	54.0	-16.9
4872.740	41.6	12.4	1.0	31.0	3.0	0.0	Vert	PK	0.0	54.0	74.0	-20.0
4874.807	41.2	12.4	1.2	142.0	3.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4
4874.093	40.8	12.4	1.0	30.0	3.0	0.0	Vert	PK	0.0	53.2	74.0	-20.8
4873.067	39.9	12.4	1.0	239.0	3.0	0.0	Horz	PK	0.0	52.3	74.0	-21.7
4873.580	39.8	12.4	1.0	33.0	3.0	0.0	Vert	PK	0.0	52.2	74.0	-21.8
4875.567	39.2	12.4	1.0	306.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4
4874.107	38.8	12.4	1.0	242.0	3.0	0.0	Horz	PK	0.0	51.2	74.0	-22.8
4875.560	37.8	12.4	1.0	203.0	3.0	0.0	Horz	PK	0.0	50.2	74.0	-23.8

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2009.8.29

EUT:	Rad-87			Work Order:	MASI0063
Serial Number:	R02384			Date:	10/05/10
Customer:	Masimo Corporation			Temperature:	22C
Attendees:	None			Humidity:	49%
Project:	None			Barometric Pres.:	1010MB
Tested by:	Jaemi Suh	Power:	120VAC/60Hz	Job Site:	OC06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

Ant 1, Chan 149, 5745 MHz, Speed 6 Mbps.

EUT OPERATING MODES

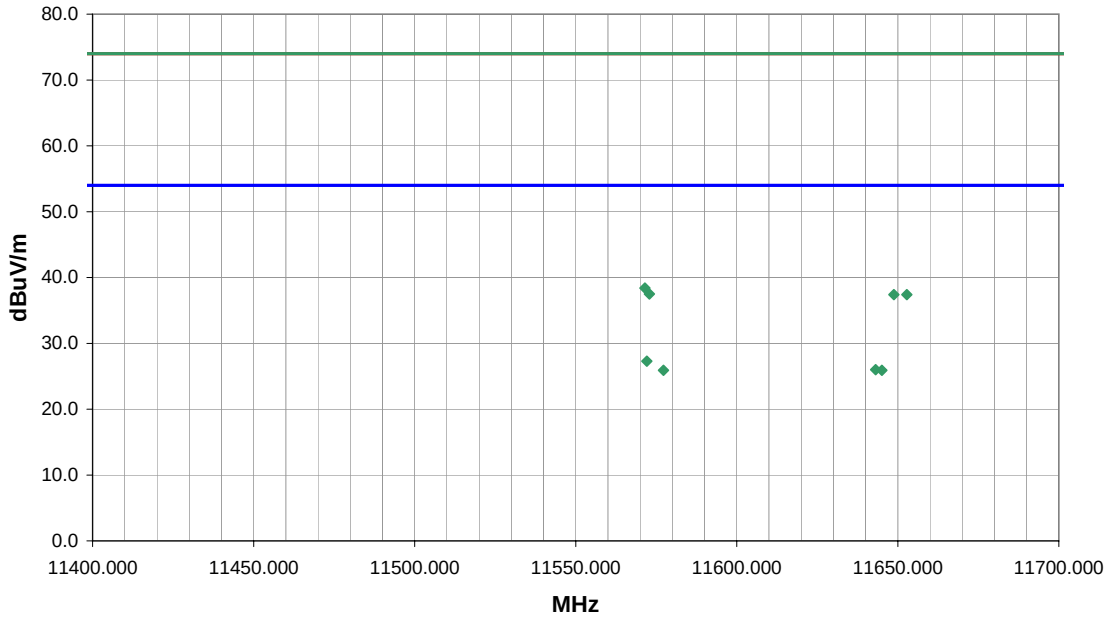
Chan 149, 5745 MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
Configuration #	1
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
11572.070	37.6	-10.3	228.0	1.0	0.0	0.0	H-Horn	AV	0.0	27.3	54.0	-26.7	
11643.100	36.2	-10.2	0.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.0	54.0	-28.0	
11577.270	36.2	-10.3	179.0	2.2	0.0	0.0	V-Horn	AV	0.0	25.9	54.0	-28.1	
11645.050	36.1	-10.2	296.0	1.0	0.0	0.0	H-Horn	AV	0.0	25.9	54.0	-28.1	
11571.470	48.7	-10.3	228.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.4	74.0	-35.6	
11572.880	47.8	-10.3	179.0	2.2	0.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	
11648.780	47.6	-10.2	0.0	1.0	0.0	0.0	V-Horn	PK	0.0	37.4	74.0	-36.6	
11652.830	47.6	-10.2	296.0	1.0	0.0	0.0	H-Horn	PK	0.0	37.4	74.0	-36.6	

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2009.8.29

EUT:	Rad-87			Work Order:	MASI0063
Serial Number:	R02384			Date:	10/05/10
Customer:	Masimo Corporation			Temperature:	22C
Attendees:	None			Humidity:	49%
Project:	None			Barometric Pres.:	1010MB
Tested by:	Jaemi Suh	Power:	120VAC/60Hz	Job Site:	OC11

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

Ant 1, Chan 149, 5745 MHz, Speed 6 Mbps.

EUT OPERATING MODES

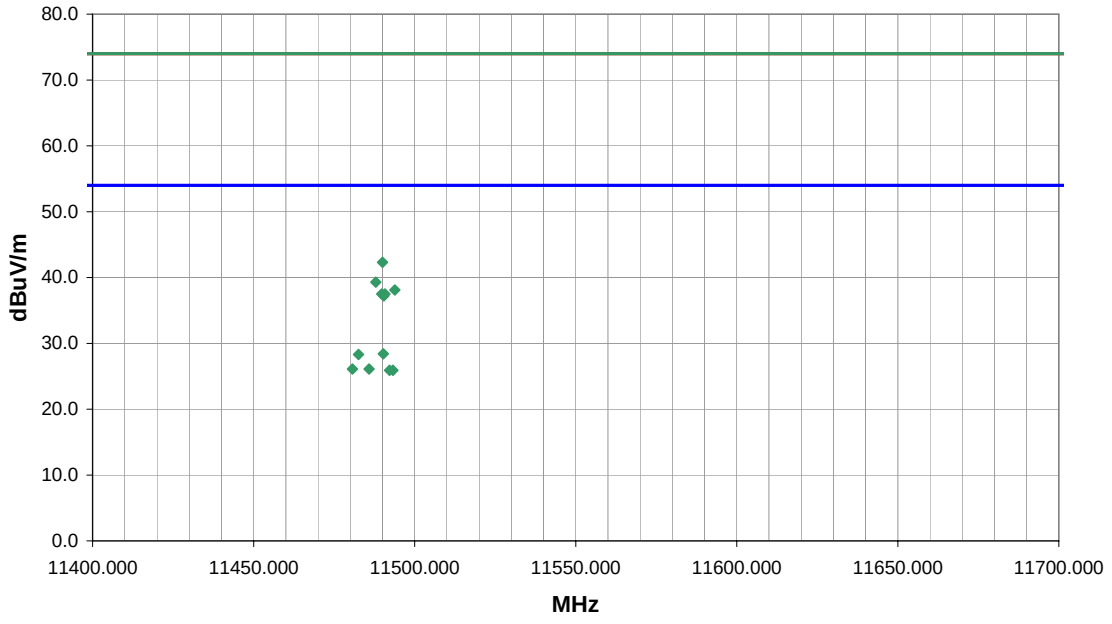
Chan 149, 5745 MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
Configuration #	1
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
11490.280	38.9	-10.5	118.0	1.8	0.0	0.0	H-Horn	AV	0.0	28.4	54.0	-25.6	6 Mbps
11482.580	38.8	-10.5	156.0	1.0	0.0	0.0	V-Horn	AV	0.0	28.3	54.0	-25.7	54 Mbps
11485.830	36.6	-10.5	229.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.1	54.0	-27.9	54 Mbps
11480.670	36.6	-10.5	324.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.1	54.0	-27.9	6 Mbps
11492.200	36.4	-10.5	360.0	1.0	0.0	0.0	V-Horn	AV	0.0	25.9	54.0	-28.1	36 Mbps
11493.220	36.4	-10.5	194.0	1.0	0.0	0.0	H-Horn	AV	0.0	25.9	54.0	-28.1	36 Mbps
11490.030	52.8	-10.5	118.0	1.8	0.0	0.0	H-Horn	PK	0.0	42.3	74.0	-31.7	6 Mbps
11487.920	49.8	-10.5	156.0	1.0	0.0	0.0	V-Horn	PK	0.0	39.3	74.0	-34.7	54 Mbps
11493.830	48.6	-10.5	194.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.1	74.0	-35.9	36 Mbps
11490.770	48.0	-10.5	360.0	1.0	0.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	36 Mbps
11489.780	48.0	-10.5	324.0	1.0	0.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	6 Mbps
11490.430	47.7	-10.5	229.0	1.0	0.0	0.0	H-Horn	PK	0.0	37.2	74.0	-36.8	54 Mbps

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2009.8.29

EUT:	Rad-87			Work Order:	MASI0063
Serial Number:	R02384			Date:	10/05/10
Customer:	Masimo Corporation			Temperature:	22C
Attendees:	None			Humidity:	49%
Project:	None			Barometric Pres.:	1010MB
Tested by:	Jaemi Suh	Power:	120VAC/60Hz	Job Site:	OC06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

TEST PARAMETERS			
Antenna Height(s) (m)		Test Distance (m)	3

COMMENTS

Ant 2, Chan (149, 157, 165), Speed 6 Mbps.

EUT OPERATING MODES

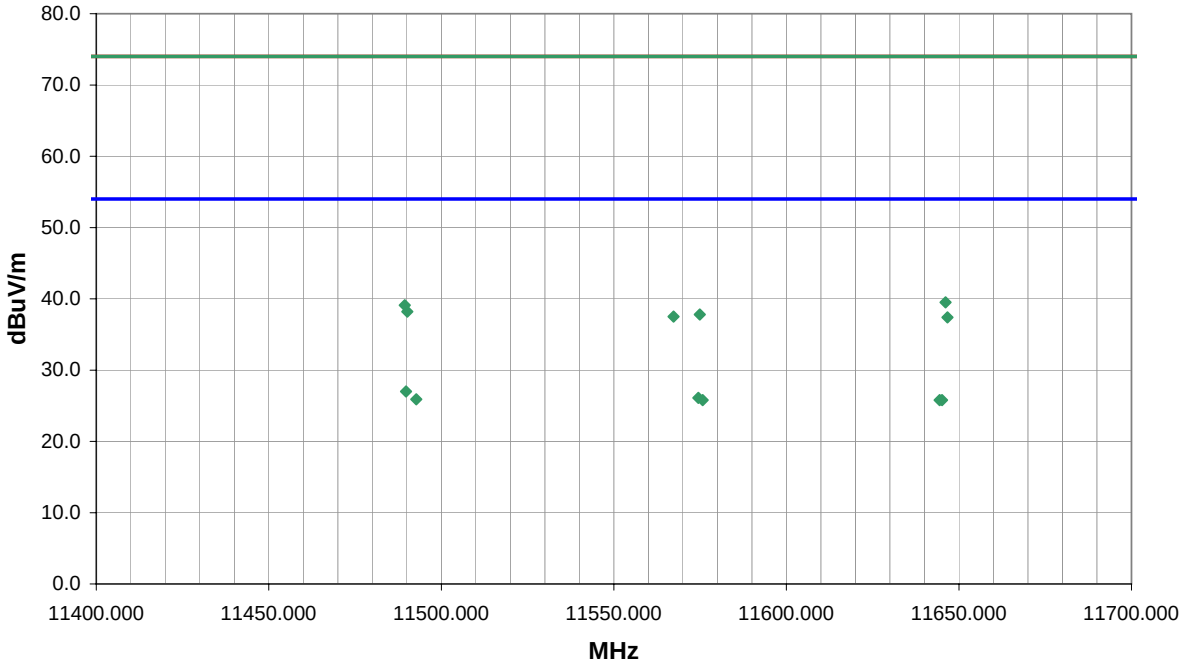
Transmitting

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13
Configuration #	1
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)
11489.780	37.5	-10.5	161.0	1.9	3.0	0.0	V-Horn	AV	0.0	27.0	54.0	-27.0
11574.490	36.4	-10.3	196.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.1	54.0	-27.9
11492.740	36.4	-10.5	334.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.9	54.0	-28.1
11644.420	36.0	-10.2	243.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.8	54.0	-28.2
11645.110	36.0	-10.2	143.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.8	54.0	-28.2
11575.750	36.1	-10.3	30.0	2.2	3.0	0.0	V-Horn	AV	0.0	25.8	54.0	-28.2
11646.120	49.7	-10.2	243.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.5	74.0	-34.5
11489.400	49.6	-10.5	161.0	1.9	3.0	0.0	V-Horn	PK	0.0	39.1	74.0	-34.9
11490.120	48.7	-10.5	334.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.2	74.0	-35.8
11574.900	48.1	-10.3	30.0	2.2	3.0	0.0	V-Horn	PK	0.0	37.8	74.0	-36.2
11567.280	47.8	-10.3	196.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.5	74.0	-36.5
11646.700	47.6	-10.2	143.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.4	74.0	-36.6

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2009.8.29

EUT:	Rad-87			Work Order:	MASI0063
Serial Number:	R02384			Date:	10/05/10
Customer:	Masimo Corporation			Temperature:	22C
Attendees:	None			Humidity:	49%
Project:	None			Barometric Pres.:	1010MB
Tested by:	Jaemi Suh	Power:	120VAC/60Hz	Job Site:	OC06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

Ant 1, Chan 149, 157, 165. Speed 6 Mbps

EUT OPERATING MODES

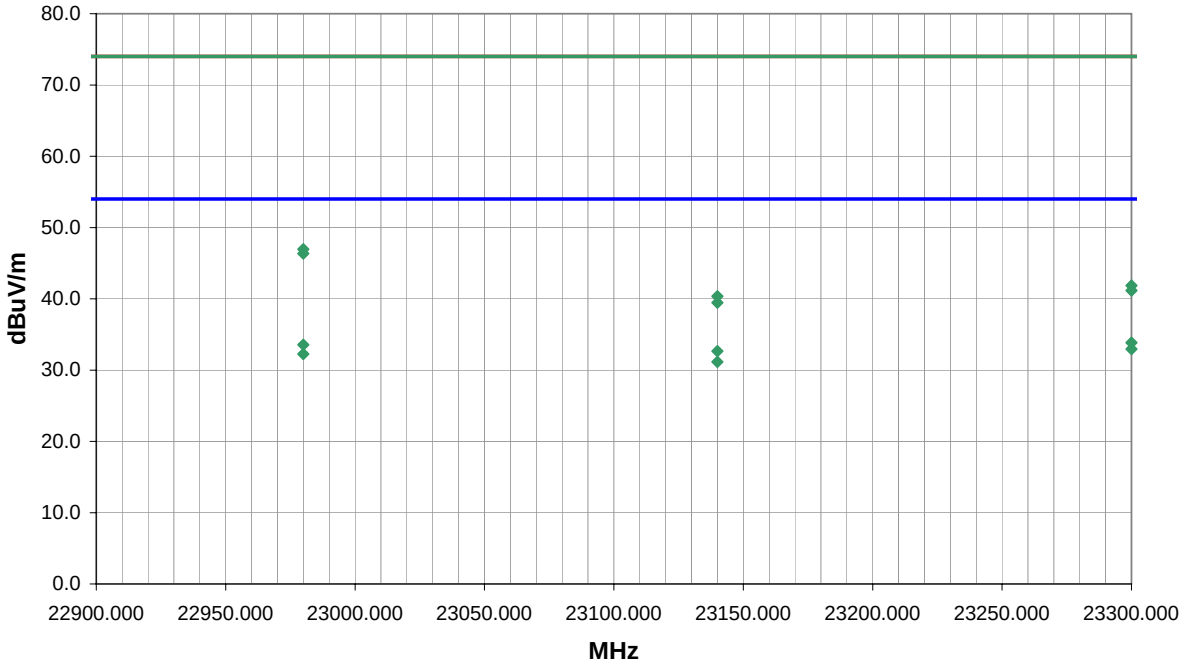
Transmit Mode.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14
Configuration #	1
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)
23300.000	43.8	-0.4	0.0	1.0	1.0	0.0	-High Horr	AV	-9.5	33.9	54.0	-20.1
22980.000	43.4	-0.3	0.0	1.0	1.0	0.0	-High Horr	AV	-9.5	33.6	54.0	-20.4
23300.000	42.9	-0.4	0.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	33.0	54.0	-21.0
23140.000	42.6	-0.4	0.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	32.7	54.0	-21.3
22980.000	42.1	-0.3	0.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	32.3	54.0	-21.7
23140.000	41.1	-0.4	0.0	1.0	1.0	0.0	-High Horr	AV	-9.5	31.2	54.0	-22.8
22980.000	56.8	-0.3	0.0	1.0	1.0	0.0	-High Horr	PK	-9.5	47.0	74.0	-27.0
22980.000	56.2	-0.3	0.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	46.4	74.0	-27.6
23300.000	51.8	-0.4	0.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	41.9	74.0	-32.1
23300.000	51.1	-0.4	0.0	1.0	1.0	0.0	-High Horr	PK	-9.5	41.2	74.0	-32.8
23140.000	50.3	-0.4	0.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	40.4	74.0	-33.6
23140.000	49.4	-0.4	0.0	1.0	1.0	0.0	-High Horr	PK	-9.5	39.5	74.0	-34.5

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
Radio: 5.8GHz, Channel: 161 , Data rate: 6 , antenna port: 1
Radio: 5.8GHz, Channel: 153 , Data rate: 6 , antenna port: 1
Radio: 5.8GHz, Channel: 149 , Data rate: 6 , antenna port: 1
Radio: 2.4GHz, Channel: 11 , Data rate: 1 , antenna port: 1
Radio: 2.4GHz, Channel: 6 , Data rate: 1 , antenna port: 1
Radio: 2.4GHz, Channel: 1 , Data rate: 1 , antenna port: 1

POWER SETTINGS INVESTIGATED
120VAC/60Hz

CONFIGURATIONS INVESTIGATED
MASI0063-1

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-24-BNC	LIB	5/5/2010	12 mo
Attenuator	Pasternack	6N10W-20	AWC	1/27/2010	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/8/2010	13 mo
OC06 Cables	N/A	Telecom Cables	OCP	3/8/2010	13 mo
OC06 Cables	N/A	CE Cables	OCM	3/8/2010	13 mo
Receiver	Rohde & Schwarz	ESCI	ARF	3/30/2010	12 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

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

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

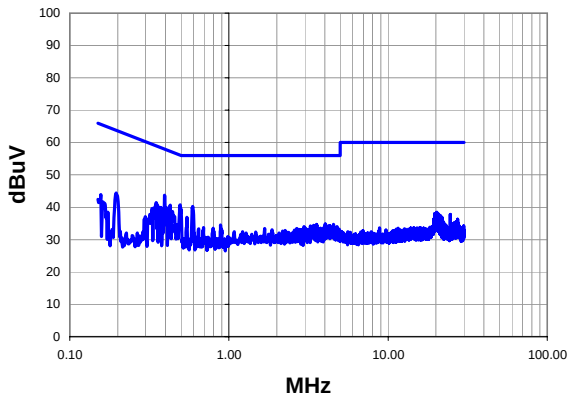
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 1 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

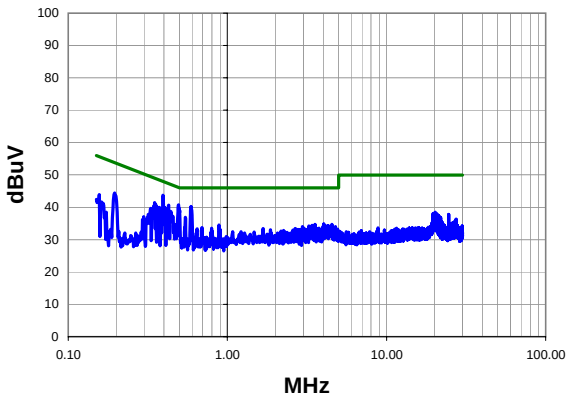
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	1	**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)
0.393	23.6	20.1	43.7	58.0	-14.3
0.493	20.7	20.1	40.8	56.1	-15.3
0.592	20.2	20.1	40.3	56.0	-15.7
0.427	20.6	20.1	40.7	57.3	-16.6
0.349	21.3	20.1	41.4	59.0	-17.6
0.407	19.7	20.1	39.8	57.7	-17.9
0.356	20.7	20.1	40.8	58.8	-18.0
0.431	18.9	20.1	39.0	57.2	-18.2
0.442	18.6	20.1	38.7	57.0	-18.3
0.361	20.0	20.1	40.1	58.7	-18.6
0.383	19.1	20.1	39.2	58.2	-19.0
0.544	16.8	20.1	36.9	56.0	-19.1
0.196	24.3	20.1	44.4	63.8	-19.4
0.330	19.6	20.1	39.7	59.4	-19.7
0.417	16.8	20.1	36.9	57.5	-20.6
4.032	14.5	20.3	34.8	56.0	-21.2
3.544	14.5	20.2	34.7	56.0	-21.3
4.544	14.4	20.3	34.7	56.0	-21.3
20.200	16.9	21.6	38.5	60.0	-21.5
0.886	14.4	20.1	34.5	56.0	-21.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.393	23.6	20.1	43.7	48.0	-4.3
0.493	20.7	20.1	40.8	46.1	-5.3
0.592	20.2	20.1	40.3	46.0	-5.7
0.427	20.6	20.1	40.7	47.3	-6.6
0.349	21.3	20.1	41.4	49.0	-7.6
0.407	19.7	20.1	39.8	47.7	-7.9
0.356	20.7	20.1	40.8	48.8	-8.0
0.431	18.9	20.1	39.0	47.2	-8.2
0.442	18.6	20.1	38.7	47.0	-8.3
0.361	20.0	20.1	40.1	48.7	-8.6
0.383	19.1	20.1	39.2	48.2	-9.0
0.544	16.8	20.1	36.9	46.0	-9.1
0.196	24.3	20.1	44.4	53.8	-9.4
0.330	19.6	20.1	39.7	49.4	-9.7
0.417	16.8	20.1	36.9	47.5	-10.6
4.032	14.5	20.3	34.8	46.0	-11.2
3.544	14.5	20.2	34.7	46.0	-11.3
4.544	14.4	20.3	34.7	46.0	-11.3
20.200	16.9	21.6	38.5	50.0	-11.5
0.886	14.4	20.1	34.5	46.0	-11.5

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

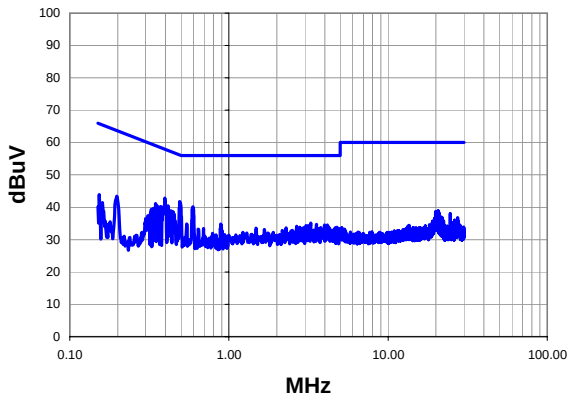
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 1 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

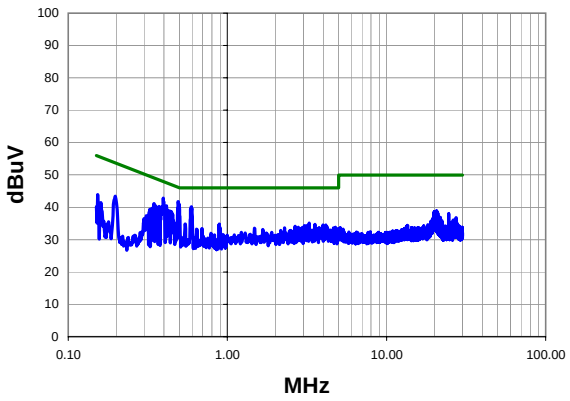
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	2	**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)
0.490	21.6	20.1	41.7	56.2	-14.5
0.395	22.7	20.1	42.8	58.0	-15.2
0.594	20.1	20.1	40.2	56.0	-15.8
0.415	20.4	20.1	40.5	57.5	-17.0
0.346	21.0	20.1	41.1	59.1	-18.0
0.373	20.2	20.1	40.3	58.4	-18.1
0.419	19.2	20.1	39.3	57.5	-18.2
0.434	18.8	20.1	38.9	57.2	-18.3
0.444	18.6	20.1	38.7	57.0	-18.3
0.354	20.4	20.1	40.5	58.9	-18.4
0.449	18.2	20.1	38.3	56.9	-18.6
0.364	19.8	20.1	39.9	58.6	-18.7
0.361	19.5	20.1	39.6	58.7	-19.1
0.351	19.7	20.1	39.8	58.9	-19.1
0.335	19.6	20.1	39.7	59.3	-19.6
0.325	19.3	20.1	39.4	59.6	-20.2
0.198	23.3	20.1	43.4	63.7	-20.3
0.342	18.7	20.1	38.8	59.2	-20.4
3.264	14.9	20.2	35.1	56.0	-20.9
0.458	15.7	20.1	35.8	56.7	-20.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.490	21.6	20.1	41.7	46.2	-4.5
0.395	22.7	20.1	42.8	48.0	-5.2
0.594	20.1	20.1	40.2	46.0	-5.8
0.415	20.4	20.1	40.5	47.5	-7.0
0.346	21.0	20.1	41.1	49.1	-8.0
0.373	20.2	20.1	40.3	48.4	-8.1
0.419	19.2	20.1	39.3	47.5	-8.2
0.434	18.8	20.1	38.9	47.2	-8.3
0.444	18.6	20.1	38.7	47.0	-8.3
0.354	20.4	20.1	40.5	48.9	-8.4
0.449	18.2	20.1	38.3	46.9	-8.6
0.364	19.8	20.1	39.9	48.6	-8.7
0.361	19.5	20.1	39.6	48.7	-9.1
0.351	19.7	20.1	39.8	48.9	-9.1
0.335	19.6	20.1	39.7	49.3	-9.6
0.325	19.3	20.1	39.4	49.6	-10.2
0.198	23.3	20.1	43.4	53.7	-10.3
0.342	18.7	20.1	38.8	49.2	-10.4
3.264	14.9	20.2	35.1	46.0	-10.9
0.458	15.7	20.1	35.8	46.7	-10.9

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

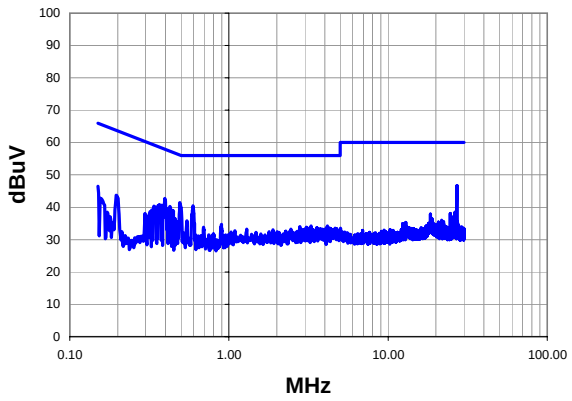
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 6 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

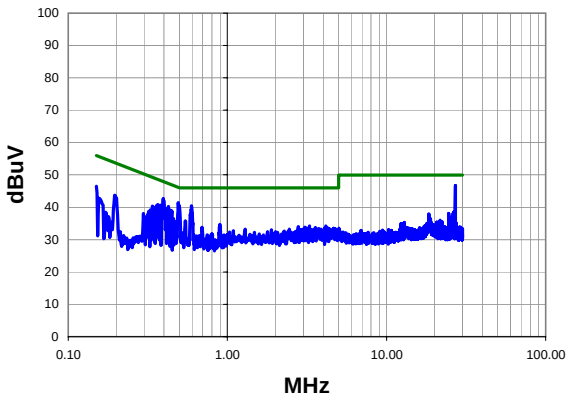
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	3	**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)
27.050	25.1	21.6	46.7	60.0	-13.3
0.492	21.3	20.1	41.4	56.1	-14.7
0.395	22.6	20.1	42.7	58.0	-15.3
0.595	20.4	20.1	40.5	56.0	-15.5
0.398	22.0	20.1	42.1	57.9	-15.8
0.425	20.2	20.1	40.3	57.3	-17.0
0.380	20.6	20.1	40.7	58.3	-17.6
0.366	20.8	20.1	40.9	58.6	-17.7
0.419	19.5	20.1	39.6	57.5	-17.9
0.439	19.0	20.1	39.1	57.1	-18.0
0.448	18.8	20.1	38.9	56.9	-18.0
0.414	19.4	20.1	39.5	57.6	-18.1
0.359	20.5	20.1	40.6	58.7	-18.1
0.442	18.5	20.1	38.6	57.0	-18.4
0.410	19.0	20.1	39.1	57.6	-18.5
0.434	18.3	20.1	38.4	57.2	-18.8
0.339	20.3	20.1	40.4	59.2	-18.8
0.354	19.8	20.1	39.9	58.9	-19.0
0.150	26.4	20.1	46.5	66.0	-19.5
0.196	23.6	20.1	43.7	63.8	-20.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
27.050	25.1	21.6	46.7	50.0	-3.3
0.492	21.3	20.1	41.4	46.1	-4.7
0.395	22.6	20.1	42.7	48.0	-5.3
0.595	20.4	20.1	40.5	46.0	-5.5
0.398	22.0	20.1	42.1	47.9	-5.8
0.425	20.2	20.1	40.3	47.3	-7.0
0.380	20.6	20.1	40.7	48.3	-7.6
0.366	20.8	20.1	40.9	48.6	-7.7
0.419	19.5	20.1	39.6	47.5	-7.9
0.439	19.0	20.1	39.1	47.1	-8.0
0.448	18.8	20.1	38.9	46.9	-8.0
0.414	19.4	20.1	39.5	47.6	-8.1
0.359	20.5	20.1	40.6	48.7	-8.1
0.442	18.5	20.1	38.6	47.0	-8.4
0.410	19.0	20.1	39.1	47.6	-8.5
0.434	18.3	20.1	38.4	47.2	-8.8
0.339	20.3	20.1	40.4	49.2	-8.8
0.354	19.8	20.1	39.9	48.9	-9.0
0.150	26.4	20.1	46.5	56.0	-9.5
0.196	23.6	20.1	43.7	53.8	-10.1

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

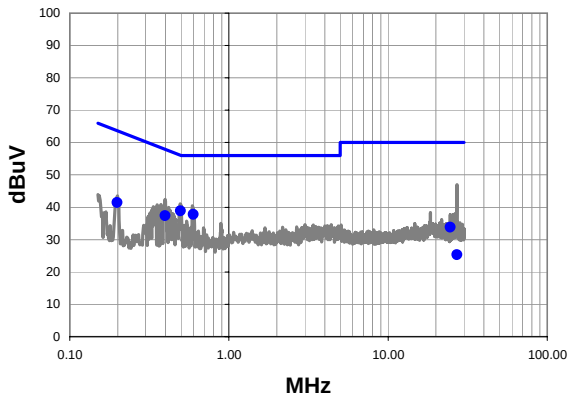
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 6 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

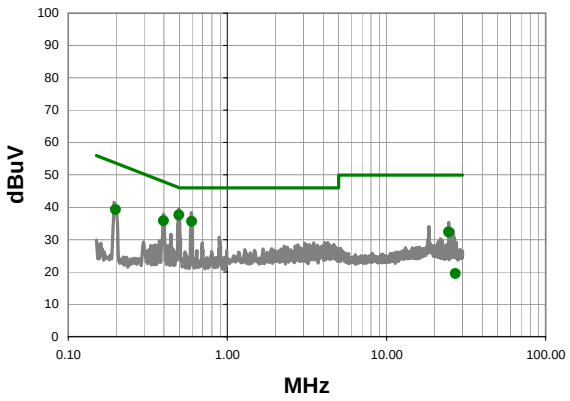
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

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

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.497	18.8	20.1	38.9	56.0	-17.1
0.598	17.7	20.1	37.8	56.0	-18.2
0.397	17.3	20.1	37.4	57.9	-20.5
0.198	21.3	20.1	41.4	63.7	-22.3
24.576	12.2	21.6	33.8	60.0	-26.2
27.052	3.7	21.6	25.3	60.0	-34.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.497	17.5	20.1	37.6	46.0	-8.4
0.598	15.5	20.1	35.6	46.0	-10.4
0.397	15.7	20.1	35.8	47.9	-12.1
0.198	19.2	20.1	39.3	53.7	-14.4
24.576	10.7	21.6	32.3	50.0	-17.7
27.052	-2.1	21.6	19.5	50.0	-30.5

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

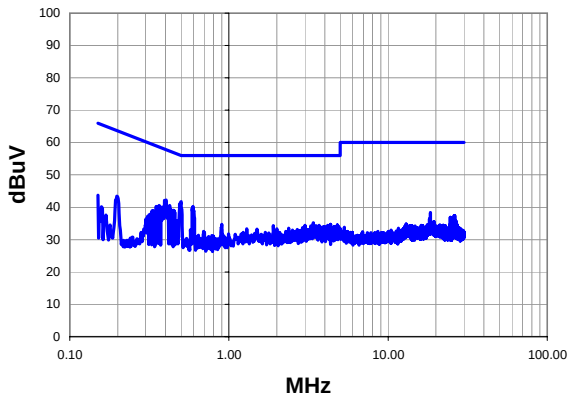
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 11 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

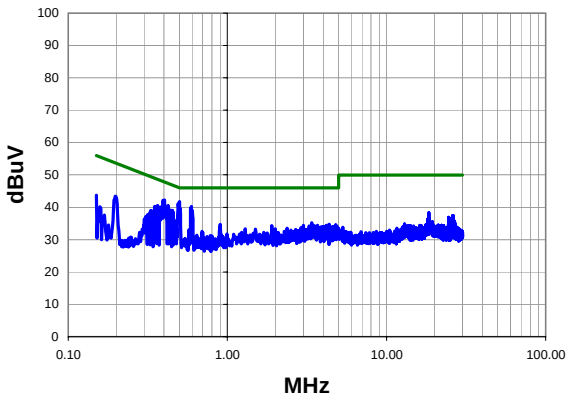
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	5	**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)
0.500	21.6	20.1	41.7	56.0	-14.3
0.403	22.1	20.1	42.2	57.8	-15.6
0.594	20.2	20.1	40.3	56.0	-15.7
0.393	22.0	20.1	42.1	58.0	-15.9
0.424	20.5	20.1	40.6	57.4	-16.8
0.449	19.0	20.1	39.1	56.9	-17.8
0.432	19.1	20.1	39.2	57.2	-18.0
0.364	20.5	20.1	40.6	58.6	-18.0
0.381	20.0	20.1	40.1	58.3	-18.2
0.456	18.4	20.1	38.5	56.8	-18.3
0.376	19.9	20.1	40.0	58.4	-18.4
0.354	20.1	20.1	40.2	58.9	-18.7
0.349	20.2	20.1	40.3	59.0	-18.7
0.442	18.1	20.1	38.2	57.0	-18.8
0.357	19.3	20.1	39.4	58.8	-19.4
0.198	23.3	20.1	43.4	63.7	-20.3
0.335	18.8	20.1	38.9	59.3	-20.4
0.330	18.9	20.1	39.0	59.4	-20.4
0.470	15.7	20.1	35.8	56.5	-20.7
3.384	15.0	20.2	35.2	56.0	-20.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.500	21.6	20.1	41.7	46.0	-4.3
0.403	22.1	20.1	42.2	47.8	-5.6
0.594	20.2	20.1	40.3	46.0	-5.7
0.393	22.0	20.1	42.1	48.0	-5.9
0.424	20.5	20.1	40.6	47.4	-6.8
0.449	19.0	20.1	39.1	46.9	-7.8
0.432	19.1	20.1	39.2	47.2	-8.0
0.364	20.5	20.1	40.6	48.6	-8.0
0.381	20.0	20.1	40.1	48.3	-8.2
0.456	18.4	20.1	38.5	46.8	-8.3
0.376	19.9	20.1	40.0	48.4	-8.4
0.354	20.1	20.1	40.2	48.9	-8.7
0.349	20.2	20.1	40.3	49.0	-8.7
0.442	18.1	20.1	38.2	47.0	-8.8
0.357	19.3	20.1	39.4	48.8	-9.4
0.198	23.3	20.1	43.4	53.7	-10.3
0.335	18.8	20.1	38.9	49.3	-10.4
0.330	18.9	20.1	39.0	49.4	-10.4
0.470	15.7	20.1	35.8	46.5	-10.7
3.384	15.0	20.2	35.2	46.0	-10.8

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

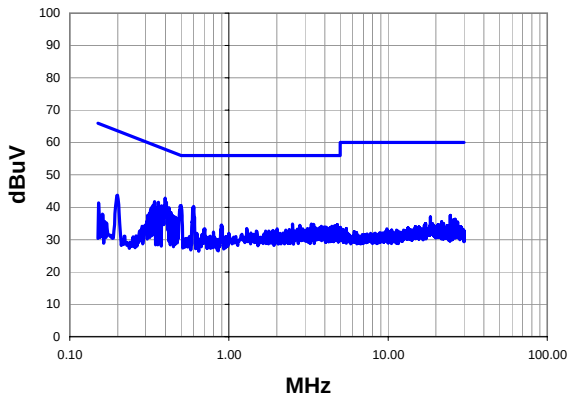
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 2.4GHz, Channel: 11 , Data rate: 1 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

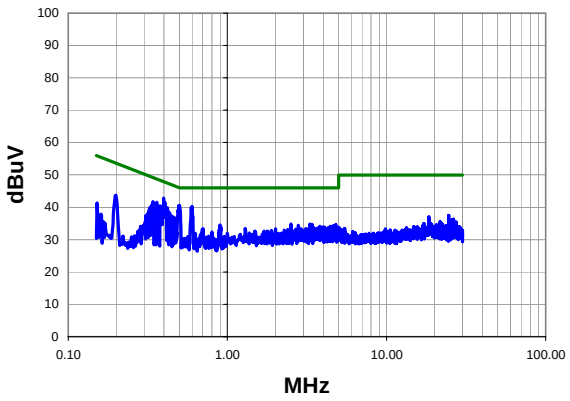
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	6	**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)
0.398	22.7	20.1	42.8	57.9	-15.1
0.500	20.5	20.1	40.6	56.0	-15.4
0.601	20.2	20.1	40.3	56.0	-15.7
0.405	21.4	20.1	41.5	57.8	-16.3
0.361	21.4	20.1	41.5	58.7	-17.2
0.340	21.6	20.1	41.7	59.2	-17.5
0.420	19.8	20.1	39.9	57.4	-17.5
0.378	20.4	20.1	40.5	58.3	-17.8
0.434	18.2	20.1	38.3	57.2	-18.9
0.373	19.4	20.1	39.5	58.4	-18.9
0.417	18.4	20.1	38.5	57.5	-19.0
0.354	19.7	20.1	39.8	58.9	-19.1
0.325	19.8	20.1	39.9	59.6	-19.7
0.453	17.0	20.1	37.1	56.8	-19.7
0.463	16.8	20.1	36.9	56.6	-19.7
0.199	23.6	20.1	43.7	63.6	-19.9
0.466	16.2	20.1	36.3	56.6	-20.3
2.512	14.7	20.2	34.9	56.0	-21.1
3.296	14.6	20.2	34.8	56.0	-21.2
3.408	14.5	20.2	34.7	56.0	-21.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.398	22.7	20.1	42.8	47.9	-5.1
0.500	20.5	20.1	40.6	46.0	-5.4
0.601	20.2	20.1	40.3	46.0	-5.7
0.405	21.4	20.1	41.5	47.8	-6.3
0.361	21.4	20.1	41.5	48.7	-7.2
0.340	21.6	20.1	41.7	49.2	-7.5
0.420	19.8	20.1	39.9	47.4	-7.5
0.378	20.4	20.1	40.5	48.3	-7.8
0.434	18.2	20.1	38.3	47.2	-8.9
0.373	19.4	20.1	39.5	48.4	-8.9
0.417	18.4	20.1	38.5	47.5	-9.0
0.354	19.7	20.1	39.8	48.9	-9.1
0.325	19.8	20.1	39.9	49.6	-9.7
0.453	17.0	20.1	37.1	46.8	-9.7
0.463	16.8	20.1	36.9	46.6	-9.7
0.199	23.6	20.1	43.7	53.6	-9.9
0.466	16.2	20.1	36.3	46.6	-10.3
2.512	14.7	20.2	34.9	46.0	-11.1
3.296	14.6	20.2	34.8	46.0	-11.2
3.408	14.5	20.2	34.7	46.0	-11.3

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

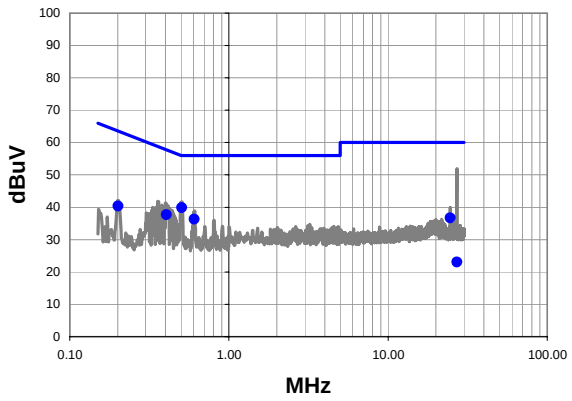
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 149 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

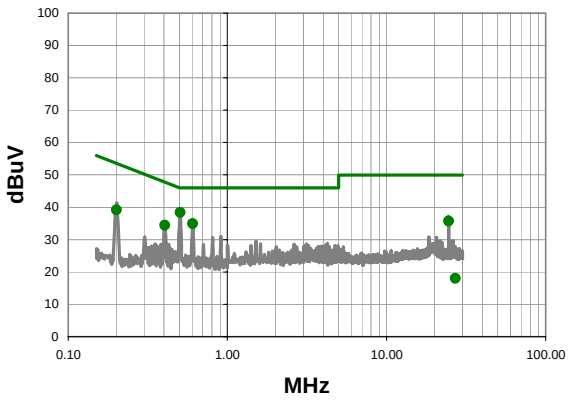
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

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

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.505	19.8	20.1	39.9	56.0	-16.1
0.606	16.2	20.1	36.3	56.0	-19.7
0.405	17.6	20.1	37.7	57.8	-20.1
0.201	20.3	20.1	40.4	63.6	-23.2
24.576	15.1	21.6	36.7	60.0	-23.3
27.052	1.4	21.6	23.0	60.0	-37.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.505	18.3	20.1	38.4	46.0	-7.6
0.606	14.8	20.1	34.9	46.0	-11.1
0.405	14.3	20.1	34.4	47.8	-13.4
24.576	14.1	21.6	35.7	50.0	-14.3
0.201	19.1	20.1	39.2	53.6	-14.4
27.052	-3.6	21.6	18.0	50.0	-32.0

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AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

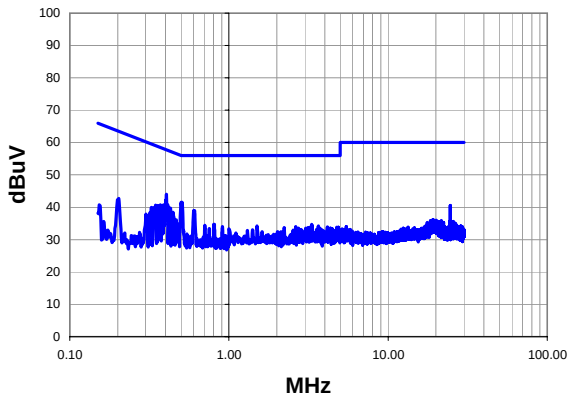
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 149 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

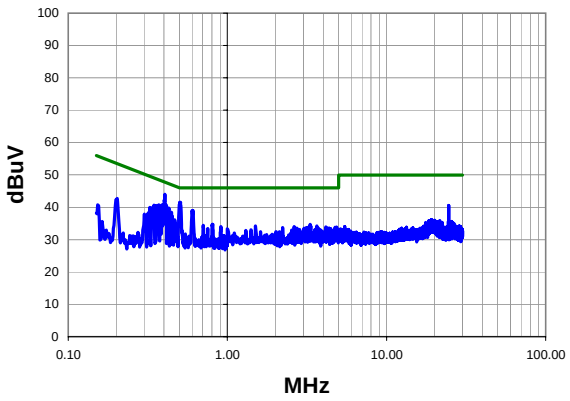
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	12	**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)
0.405	23.9	20.1	44.0	57.8	-13.8
0.502	21.4	20.1	41.5	56.0	-14.5
0.412	20.7	20.1	40.8	57.6	-16.8
0.599	18.9	20.1	39.0	56.0	-17.0
0.388	20.7	20.1	40.8	58.1	-17.3
0.429	19.7	20.1	39.8	57.3	-17.5
0.371	20.7	20.1	40.8	58.5	-17.7
0.357	20.5	20.1	40.6	58.8	-18.2
0.381	19.8	20.1	39.9	58.3	-18.4
0.346	20.6	20.1	40.7	59.1	-18.4
0.444	18.4	20.1	38.5	57.0	-18.5
0.395	19.2	20.1	39.3	58.0	-18.7
0.391	19.2	20.1	39.3	58.0	-18.7
24.580	19.0	21.6	40.6	60.0	-19.4
0.449	17.3	20.1	37.4	56.9	-19.5
0.325	19.9	20.1	40.0	59.6	-19.6
0.466	16.0	20.1	36.1	56.6	-20.5
0.203	22.6	20.1	42.7	63.5	-20.8
0.470	15.2	20.1	35.3	56.5	-21.2
0.803	14.6	20.1	34.7	56.0	-21.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.405	23.9	20.1	44.0	47.8	-3.8
0.502	21.4	20.1	41.5	46.0	-4.5
0.412	20.7	20.1	40.8	47.6	-6.8
0.599	18.9	20.1	39.0	46.0	-7.0
0.388	20.7	20.1	40.8	48.1	-7.3
0.429	19.7	20.1	39.8	47.3	-7.5
0.371	20.7	20.1	40.8	48.5	-7.7
0.357	20.5	20.1	40.6	48.8	-8.2
0.381	19.8	20.1	39.9	48.3	-8.4
0.346	20.6	20.1	40.7	49.1	-8.4
0.444	18.4	20.1	38.5	47.0	-8.5
0.395	19.2	20.1	39.3	48.0	-8.7
0.391	19.2	20.1	39.3	48.0	-8.7
24.580	19.0	21.6	40.6	50.0	-9.4
0.449	17.3	20.1	37.4	46.9	-9.5
0.325	19.9	20.1	40.0	49.6	-9.6
0.466	16.0	20.1	36.1	46.6	-10.5
0.203	22.6	20.1	42.7	53.5	-10.8
0.470	15.2	20.1	35.3	46.5	-11.2
0.803	14.6	20.1	34.7	46.0	-11.3

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

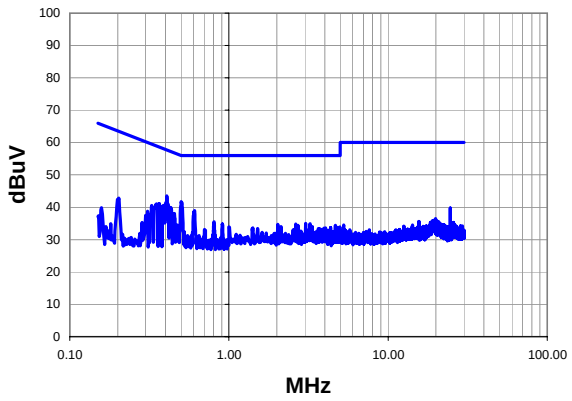
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 153 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

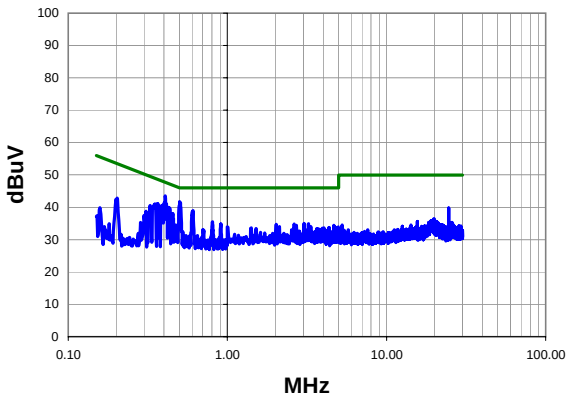
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	13	**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)
0.407	23.4	20.1	43.5	57.7	-14.2
0.502	21.6	20.1	41.7	56.0	-14.3
0.398	20.8	20.1	40.9	57.9	-17.0
0.607	18.9	20.1	39.0	56.0	-17.0
0.424	19.9	20.1	40.0	57.4	-17.4
0.434	19.7	20.1	39.8	57.2	-17.4
0.366	21.0	20.1	41.1	58.6	-17.5
0.386	20.5	20.1	40.6	58.1	-17.5
0.351	20.9	20.1	41.0	58.9	-17.9
0.374	20.1	20.1	40.2	58.4	-18.2
0.454	18.0	20.1	38.1	56.8	-18.7
0.327	20.5	20.1	40.6	59.5	-18.9
24.580	18.2	21.6	39.8	60.0	-20.2
0.806	15.4	20.1	35.5	56.0	-20.5
0.203	22.7	20.1	42.8	63.5	-20.7
3.032	14.8	20.2	35.0	56.0	-21.0
3.232	14.7	20.2	34.9	56.0	-21.1
0.910	14.7	20.1	34.8	56.0	-21.2
2.632	14.6	20.2	34.8	56.0	-21.2
0.308	18.7	20.1	38.8	60.0	-21.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.407	23.4	20.1	43.5	47.7	-4.2
0.502	21.6	20.1	41.7	46.0	-4.3
0.398	20.8	20.1	40.9	47.9	-7.0
0.607	18.9	20.1	39.0	46.0	-7.0
0.424	19.9	20.1	40.0	47.4	-7.4
0.434	19.7	20.1	39.8	47.2	-7.4
0.366	21.0	20.1	41.1	48.6	-7.5
0.386	20.5	20.1	40.6	48.1	-7.5
0.351	20.9	20.1	41.0	48.9	-7.9
0.374	20.1	20.1	40.2	48.4	-8.2
0.454	18.0	20.1	38.1	46.8	-8.7
0.327	20.5	20.1	40.6	49.5	-8.9
24.580	18.2	21.6	39.8	50.0	-10.2
0.806	15.4	20.1	35.5	46.0	-10.5
0.203	22.7	20.1	42.8	53.5	-10.7
3.032	14.8	20.2	35.0	46.0	-11.0
3.232	14.7	20.2	34.9	46.0	-11.1
0.910	14.7	20.1	34.8	46.0	-11.2
2.632	14.6	20.2	34.8	46.0	-11.2
0.308	18.7	20.1	38.8	50.0	-11.2

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

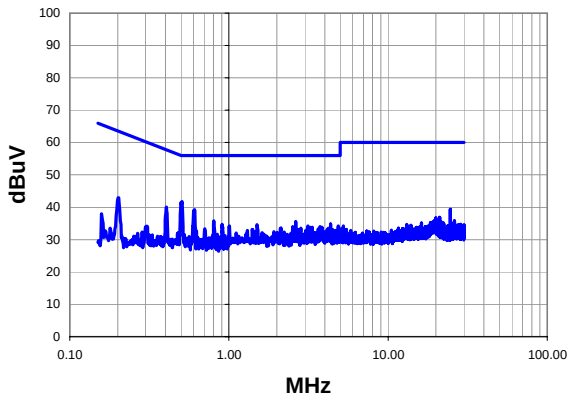
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 153 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

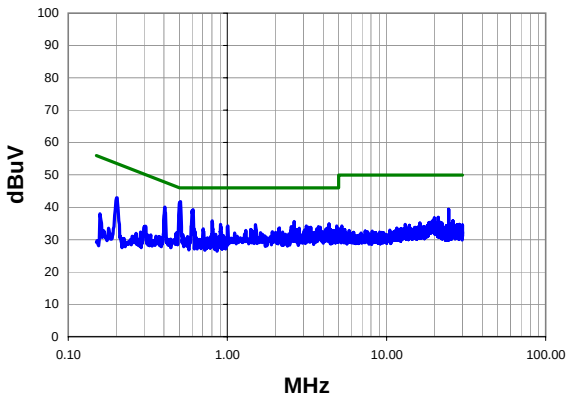
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	14	**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)
0.507	21.6	20.1	41.7	56.0	-14.3
0.607	19.2	20.1	39.3	56.0	-16.7
0.405	20.0	20.1	40.1	57.8	-17.7
0.803	15.7	20.1	35.8	56.0	-20.2
2.632	15.4	20.2	35.6	56.0	-20.4
24.580	17.8	21.6	39.4	60.0	-20.6
0.201	22.8	20.1	42.9	63.6	-20.7
4.352	14.5	20.3	34.8	56.0	-21.2
0.905	14.6	20.1	34.7	56.0	-21.3
1.504	14.5	20.1	34.6	56.0	-21.4
1.008	14.1	20.1	34.2	56.0	-21.8
3.136	14.0	20.2	34.2	56.0	-21.8
4.856	13.9	20.3	34.2	56.0	-21.8
2.520	13.9	20.2	34.1	56.0	-21.9
3.744	13.8	20.2	34.0	56.0	-22.0
3.848	13.6	20.3	33.9	56.0	-22.1
3.240	13.6	20.2	33.8	56.0	-22.2
3.344	13.6	20.2	33.8	56.0	-22.2
2.120	13.5	20.1	33.6	56.0	-22.4
2.832	13.3	20.2	33.5	56.0	-22.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.507	21.6	20.1	41.7	46.0	-4.3
0.607	19.2	20.1	39.3	46.0	-6.7
0.405	20.0	20.1	40.1	47.8	-7.7
0.803	15.7	20.1	35.8	46.0	-10.2
2.632	15.4	20.2	35.6	46.0	-10.4
24.580	17.8	21.6	39.4	50.0	-10.6
0.201	22.8	20.1	42.9	53.6	-10.7
4.352	14.5	20.3	34.8	46.0	-11.2
0.905	14.6	20.1	34.7	46.0	-11.3
1.504	14.5	20.1	34.6	46.0	-11.4
1.008	14.1	20.1	34.2	46.0	-11.8
3.136	14.0	20.2	34.2	46.0	-11.8
4.856	13.9	20.3	34.2	46.0	-11.8
2.520	13.9	20.2	34.1	46.0	-11.9
3.744	13.8	20.2	34.0	46.0	-12.0
3.848	13.6	20.3	33.9	46.0	-12.1
3.240	13.6	20.2	33.8	46.0	-12.2
3.344	13.6	20.2	33.8	46.0	-12.2
2.120	13.5	20.1	33.6	46.0	-12.4
2.832	13.3	20.2	33.5	46.0	-12.5

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

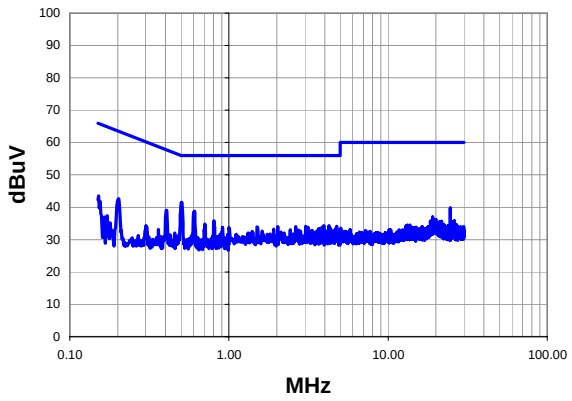
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 161 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

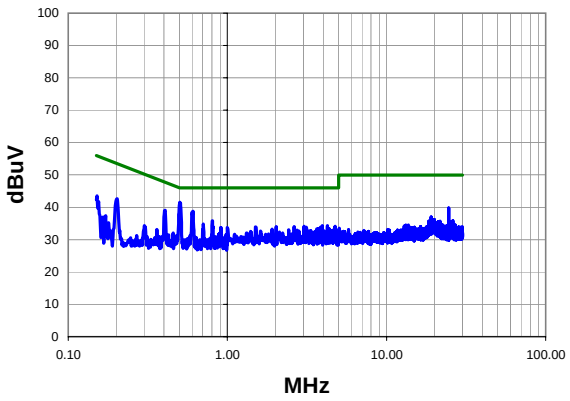
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	15	**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)
0.504	21.4	20.1	41.5	56.0	-14.5
0.607	18.7	20.1	38.8	56.0	-17.2
0.407	19.0	20.1	39.1	57.7	-18.6
24.580	18.2	21.6	39.8	60.0	-20.2
0.804	15.7	20.1	35.8	56.0	-20.2
0.203	22.5	20.1	42.6	63.5	-20.9
0.706	14.7	20.1	34.8	56.0	-21.2
4.248	14.0	20.3	34.3	56.0	-21.7
3.944	14.0	20.3	34.3	56.0	-21.7
3.032	13.9	20.2	34.1	56.0	-21.9
4.760	13.8	20.3	34.1	56.0	-21.9
2.024	13.9	20.1	34.0	56.0	-22.0
2.624	13.8	20.2	34.0	56.0	-22.0
1.504	13.8	20.1	33.9	56.0	-22.1
3.840	13.6	20.3	33.9	56.0	-22.1
3.136	13.6	20.2	33.8	56.0	-22.2
0.910	13.6	20.1	33.7	56.0	-22.3
1.000	13.6	20.1	33.7	56.0	-22.3
4.728	13.4	20.3	33.7	56.0	-22.3
0.152	23.4	20.1	43.5	65.9	-22.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.504	21.4	20.1	41.5	46.0	-4.5
0.607	18.7	20.1	38.8	46.0	-7.2
0.407	19.0	20.1	39.1	47.7	-8.6
24.580	18.2	21.6	39.8	50.0	-10.2
0.804	15.7	20.1	35.8	46.0	-10.2
0.203	22.5	20.1	42.6	53.5	-10.9
0.706	14.7	20.1	34.8	46.0	-11.2
4.248	14.0	20.3	34.3	46.0	-11.7
3.944	14.0	20.3	34.3	46.0	-11.7
3.032	13.9	20.2	34.1	46.0	-11.9
4.760	13.8	20.3	34.1	46.0	-11.9
2.024	13.9	20.1	34.0	46.0	-12.0
2.624	13.8	20.2	34.0	46.0	-12.0
1.504	13.8	20.1	33.9	46.0	-12.1
3.840	13.6	20.3	33.9	46.0	-12.1
3.136	13.6	20.2	33.8	46.0	-12.2
0.910	13.6	20.1	33.7	46.0	-12.3
1.000	13.6	20.1	33.7	46.0	-12.3
4.728	13.4	20.3	33.7	46.0	-12.3
0.152	23.4	20.1	43.5	55.9	-12.4

NORTHWEST

EMC

AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2010.04.06
Version 2010.3.17

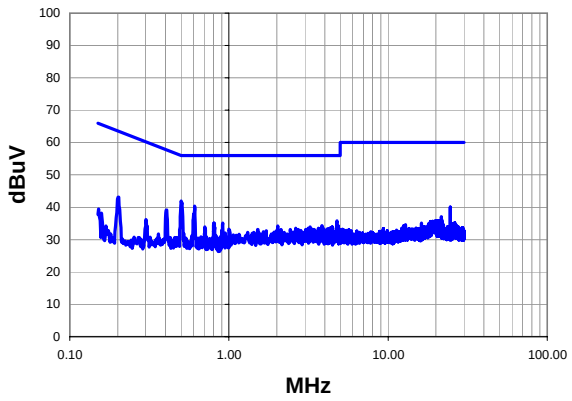
Work Order:	MASI0063	**Date:**	08/27/10		
Project:	None	**Temperature:**	22C		
Job Site:	OC06	**Humidity:**	49		
Serial Number:	R02384	**Barometric Pres.:**	1010MB	**Tested by:**	Marty Martin

EUT:	Rad-87
Configuration:	MASI0063-1
Customer:	Masimo Corporation
Attendees:	None
EUT Power:	120VAC/60Hz
Operating Mode:	Radio: 5.8GHz, Channel: 161 , Data rate: 6 , antenna port: 1
Deviations:	None
Comments:	Transmit Mode.

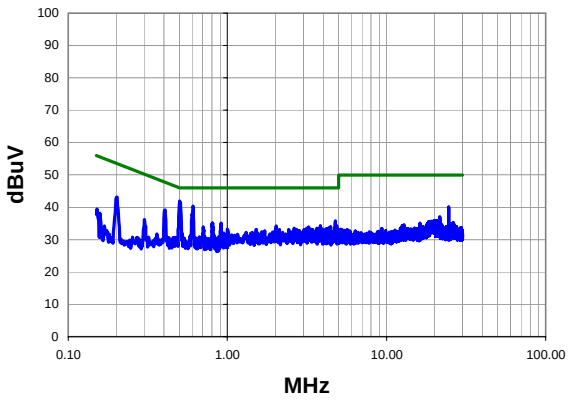
Test Specifications	**Test Method**
FCC 15.207:2010	ANSI C63.10:2009

Run #	16	**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)
0.502	21.8	20.1	41.9	56.0	-14.1
0.609	20.3	20.1	40.4	56.0	-15.6
0.407	19.1	20.1	39.2	57.7	-18.5
24.580	18.5	21.6	40.1	60.0	-19.9
4.768	15.5	20.3	35.8	56.0	-20.2
0.201	23.0	20.1	43.1	63.6	-20.5
0.803	15.0	20.1	35.1	56.0	-20.9
0.913	15.0	20.1	35.1	56.0	-20.9
3.848	14.1	20.3	34.4	56.0	-21.6
2.024	14.1	20.1	34.2	56.0	-21.8
4.864	13.9	20.3	34.2	56.0	-21.8
0.704	13.8	20.1	33.9	56.0	-22.1
3.240	13.7	20.2	33.9	56.0	-22.1
4.456	13.6	20.3	33.9	56.0	-22.1
4.360	13.4	20.3	33.7	56.0	-22.3
2.632	13.3	20.2	33.5	56.0	-22.5
3.144	13.3	20.2	33.5	56.0	-22.5
3.648	13.3	20.2	33.5	56.0	-22.5
4.256	13.1	20.3	33.4	56.0	-22.6
3.744	13.1	20.2	33.3	56.0	-22.7

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.502	21.8	20.1	41.9	46.0	-4.1
0.609	20.3	20.1	40.4	46.0	-5.6
0.407	19.1	20.1	39.2	47.7	-8.5
24.580	18.5	21.6	40.1	50.0	-9.9
4.768	15.5	20.3	35.8	46.0	-10.2
0.201	23.0	20.1	43.1	53.6	-10.5
0.803	15.0	20.1	35.1	46.0	-10.9
0.913	15.0	20.1	35.1	46.0	-10.9
3.848	14.1	20.3	34.4	46.0	-11.6
2.024	14.1	20.1	34.2	46.0	-11.8
4.864	13.9	20.3	34.2	46.0	-11.8
0.704	13.8	20.1	33.9	46.0	-12.1
3.240	13.7	20.2	33.9	46.0	-12.1
4.456	13.6	20.3	33.9	46.0	-12.1
4.360	13.4	20.3	33.7	46.0	-12.3
2.632	13.3	20.2	33.5	46.0	-12.5
3.144	13.3	20.2	33.5	46.0	-12.5
3.648	13.3	20.2	33.5	46.0	-12.5
4.256	13.1	20.3	33.4	46.0	-12.6
3.744	13.1	20.2	33.3	46.0	-12.7