FCC PART 15 SUBPART B, C & E
TEST REPORT

For
GENERAL FLOOR MONITOR
Model: RDS-7

Prepared for

MASIMO CORPORATION
40 PARKER
IRVINE, CA 92618

Prepared by: ____

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DATE: MAY 14, 2013

	REPORT	APPENDICES					TOTAL
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GENERAL REPORT SUMMARY

This electromagnetic emission report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form except in full, without the written permission of Compatible Electronics.

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

Device Tested:	General Floor Monitor Model: RDS-7 S/N: 2000000015
Product Description:	The EUT is a multi-functional docking station for a Pulse CO-Oximeter and measures parameters for a SEDline module (EEG). The EUT provides a power supply and recharging station for the Radical 7 and RAD7CA. The EUT provides a multi-parameter display monitor that operates with a secondary display to monitor patient physiological parameters from both Masimo monitoring equipment and third-party monitoring equipment. The EUT is intended for use on adult, pediatric, infant, and neonatal patients in hospitals or hospital-type environments.
Modifications:	The EUT was modified in order to comply with specifications. Please see the list of modifications in Appendix B.
Manufacturer:	Masimo Corporation 40 Parker Irvine, CA 92618
Test Dates:	February, 4-27, March 1-5, 2013, February 17, 2014, & April 15, 2014.
Test Specifications:	EMI requirements ANSI C63.4 and C63.10 CFR Title 47, Part 15 Subpart B sections 15.107, 15.109 Subpart C Sections 15.205, 15.209, 15.247 and Subpart E Section 15.407

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	Complies with the **Class A** limits of CFR Title 47, Part 15 Subpart B
2	Spurious Radiated RF Emissions, 30 MHz – 1000 MHz	Complies with the **Class A** limits of CFR Title 47, Part 15 Subpart B
3	Spurious Radiated RF Emissions, 10 kHz – 30MHz and 1GHz - 25GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209 and section 15.247 (d)
4	Fundamental and Emissions Produced by the Intentional Radiator in non-restricted bands, 10kHz – 25GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (d)
5	Emissions produced by the intentional radiator in restricted bands, 10kHz – 25GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209 and section 15.247 (d)
6	DTS Bandwidth	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247
7	Peak Power Output	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 and Subpart E section 15.407(a)(1)
8	RF Conducted Antenna Test	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 Subpart E section 15.407(b)(1)
9	Power Spectral Density from the Intentional Radiator to the Antenna	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 Subpart E section 15.407(a)(5)

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the General Floor Monitor Model: RDS-7. The EMI measurements were performed according to the measurement procedure described in ANSI C63.10. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT (equipment under test) hereafter, are within the specification limits defined by the Code of Federal Regulations Title 47, Part 15 Subpart B and Subpart C sections 15.205, 15.209, 15.247 and Subpart E section 15.407.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 20621 Pascal Way Lake Forest, California 92630.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Masimo Corporation

Michael Clark	Engineer

Compatible Electronics, Inc.

Joey Madlangbayan	Test Engineer
Matt Harrison	Test Technician
Jeff Klinger	Director of EMC

2.4 Date Test Sample was Received

The test sample was received on February 4, 2013.

2.5 Disposition of the Test Sample

The test sample remains at Compatible Electronics as of the date of this test report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
NVLAP	National Voluntary Laboratory Accreditation Program
CFR	Code of Federal Regulations
PCB	Printed Circuit Board
TX	Transmit
RX	Receive

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
KDB 558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
KDB 789033	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2009	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10: 2009	American National Standard for Testing Unlicensed Wireless Devices

4. DESCRIPTION OF TEST CONFIGURATION

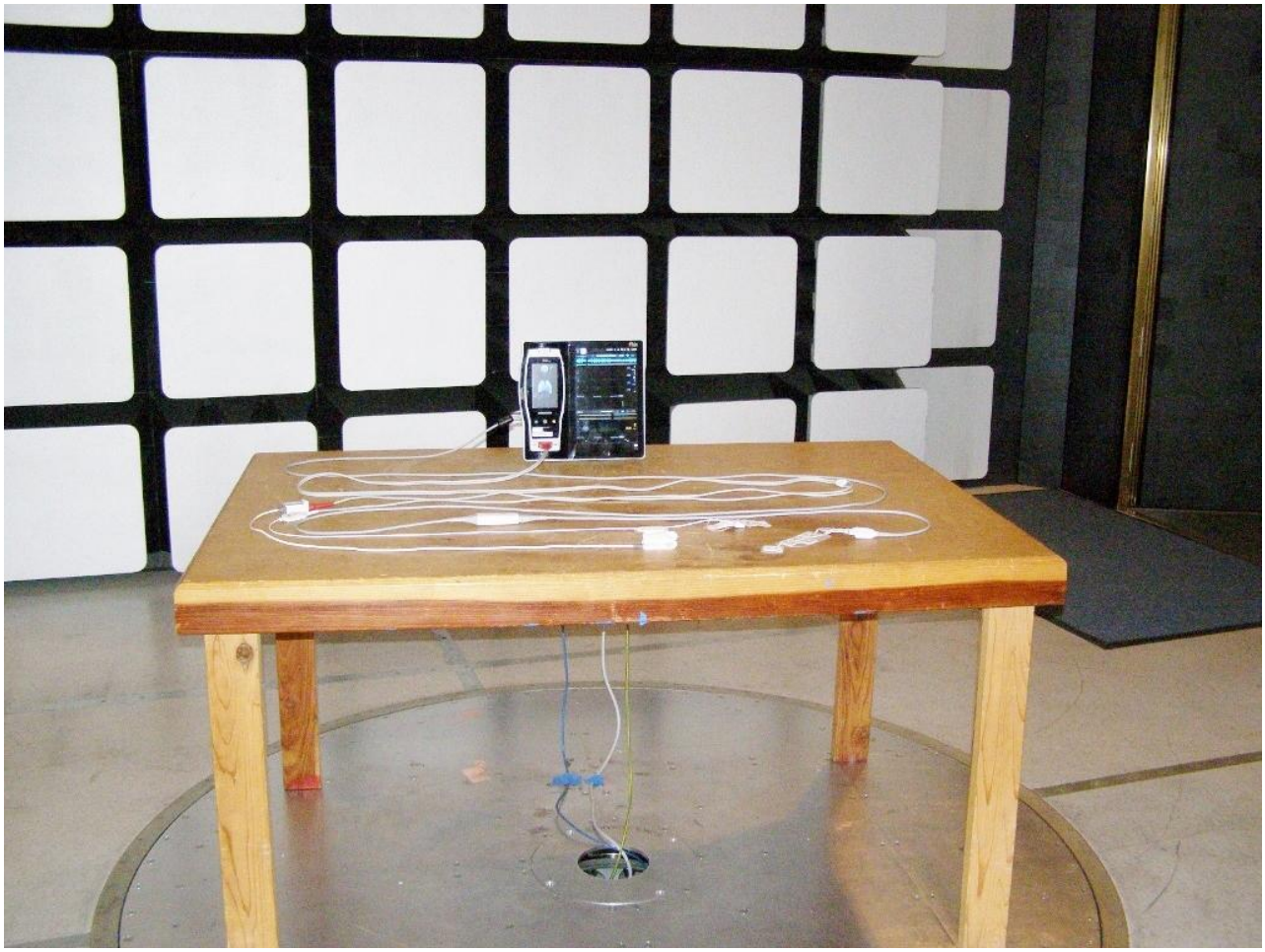
4.1 Description of Test Configuration - EMI

The EUT was set up in a tabletop configuration. The EUT was continuously running an internal program that monitored SEDline sensor and displayed the values from the handheld Medical Pulse CO-Oximeter. The Handheld Medical Pulse CO-Oximeter was connected to the Rainbow Patient Sensor and Respiration Rate Sensor via Dual Channel RAM Cable II. The EUT was connected to the remote computer via the Ethernet port. The rear RS232 and Nurse Call ports were terminated with cables. The USB ports were terminated with USB memory sticks. A program was used to control frequency and data rates.

The AC mains supply voltage varied between 85% and 115% of the nominal rated supply voltage resulting in no variation of amplitude or frequency

The cables were moved to maximize the emissions. The final conducted and radiated data was taken in the above described configuration. All initial investigations were performed with the EMI Receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix D.

4.1.1 Photograph of Test Configuration - EMI



4.2 Cable Construction and Termination

Cable 1

This is a 4.7 meter, braid shielded, round SEDline cable that connects the EUT to the EEG Sensor. The cable has a 9 pin plastic proprietary connector at the EUT end as well at the Sensor end. The shield of the cable was grounded to the chassis via the connector.

Cable 2

This is a 4 meter, braid shielded, round cable that connects the EUT to the SPO2 pulse and Acoustic Sensor. There is a 20 pin metallic dual-inline connector at the EUT end of the cable and the cable is hardwired at the SPO2 pulse and Acoustic Sensor end. The shield of the cable was grounded to the chassis via the connectors. The cable was bundled to a length of 1 meter.

Cables 3-6

These are 70-centimeter, unshielded round cables that connect to the EUT's rear RS232 ports with terminating loopback connectors at each end. The cables have a plastic RJ-45 connector at each end. There is a ferrite clamp at the EUT end of each of the cables. The cables were bundled to a length of 35-centimeters.

Cable 7

This is a 4.6-meter, foil shielded, round Nurse call cable that connects to the EUT and left unterminated. The cable has a ½ inch phone connector at the EUT end and there is a metallic XLR connector at the other end. The shield of the cable was grounded to the chassis via the connector. The cable was bundled to length of 40-centimeters.

Cable 8

This is a 7.5-meter, unshielded round Ethernet cable that connects the EUT to the Remote Computer. There is a plastic RJ-45 connector at both ends of the cable.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

#	EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID:
EUT	GENERAL FLOOR MONITOR	MASIMO CORPORATION	RDS-7	2000000015	VKF-RDS7
1	MEDICAL PULSE-OXIMETER	MASIMO CORPORATION	RAD7CA	1000002212	N/A
2	COMPUTER	HEWLETT PACKARD	6515B	NONE	N/A
3	SPEAKER/DIAPHRAM	LITMAN	7R	NONE	N/A
4	DUAL CHANNEL RAM HUB CABLE II	MASIMO	DUAL RAM HUB CABLE	NONE	N/A
5	EEG SENSOR	MASIMO	0299	NONE	N/A
6	RESPIRATION RATE (ACOUSTIC) SENSOR	MASIMO	RAS-125	NONE	N/A
7	SPO2 PULSE OPTICAL OXIMETER TESTER	PRONK TECHNOLOGIES	OX-1 OXSIM	OX3138	N/A
8	USB STICK	TRANSCEND	TS-RDP5K	596537 7998	N/A
9	USB STICK	MAXELL	503202	NONE	N/A

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Computer	Compatible Electronics	s5250t	MXV94400D8	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100219	9/26/2012	9/26/2013
EMI Receiver	Rohde & Schwarz	ESIB40	100219	9/19/2013	9/19/2014
Antenna, Loop	Com Power	AL-130	17085	01/29/2013	01/29/2015
Antenna, CombiLog	Com Power	AC-220	25857	05/25/2012	05/25/2013
Antenna, Horn 1-18GHz	Com Power	AH-118	071225	07/03/2012	07/03/2014
Antenna, Horn 18-26GHz	Com Power	AH-826	081033	N.C.R.	N.C.R.
Antenna, Horn 18-26GHz	Com Power	AH-640	091010	N.C.R.	N.C.R.
Pre-Amp, 1-18GHz	Com Power	PAM-118	443013	03/12/2012	03/12/2014
Pre-Amp, 1-18GHz	Com Power	PAM-118	443013	4/8/2013	4/8/2014
Pre-Amp, 1-18GHz	Com Power	PAM-118	443011	06/11/2012	06/11/2013
Pre-Amp, 1-18GHz	Com Power	PAM-118	443011	4/8/2013	4/8/2014
Pre-Amp, 18-40GHz	Com Power	PA-840	181289	06/13/2012	06/13/2013
Pre-Amp, 18-40GHz	Com Power	PA-840	181289	6/7/2013	6/7/2014
High Pass Filter	AMTI Microwave Circuits	H3G020G4	481230	06/07/2012	06/07/2013
LISN	Com Power	LI 215	12088	3/05/2012	3/05/2014
LISN	Com Power	LI 215	12087	3/05/2012	3/05/2014

5.2.1 EMI Test Equipment (Continued)

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Mast, Antenna Positioner	Sunol Science Corporation	TWR 95-4	020808-3	N/A	N/A
Antenna Mast	Sunol Science Corporation	TWR 95-4	020808-3	N/A	N/A
Turntable	Sunol Science Corporation	FM 2001	N/A	N/A	N/A
Mast and Turntable Controller	Sunol Science Corporation	SC104V	020808-1	N/A	N/A
Conducted Emissions Test Software	Compatible Electronics	SR21	N/A	N/A	N/A
Peak Power Sensor	Boonton Electronics	57318	3723	6/26/2012	6/26/2013
Power Measuring Analyzer	Boonton Electronics	4500A-01	1282	6/26/2012	6/26/2013

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 by 0.8 meter high non-conductive table, which was placed on the ground plane.

The EUT was grounded via the AC power cord.

6.3 Facility Environmental Characteristics

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

7. CHARACTERISTICS OF THE TRANSMITTER

7.1 Transmitter Power

Transmit power is herein defined as the power delivered to a 50 ohm load at the RF output of the EUT.

PEAK Power	Channel
15.68 dBm	802.11a CH 48 (5240MHz)
19.97 dBm	802.11b CH 6 (2437MHz)
20.08 dBm	802.11g CH 6 (2437MHz)

7.2 Channel Number and Frequencies

802.11a (UNII band 1)(OFDM)	802.11b (DSSS) & 802.11g (OFDM)	
CH 36 – 5180MHz	CH 1 – 2412MHz	CH 7 – 2442MHz
	CH 2 – 2417MHz	CH 8 – 2447MHz
CH 40 – 5200 MHZ	CH 3 – 2422MHz	CH 9 – 2452MHz
	CH 4 – 2427MHz	CH 10 – 2457MHz
CH 44 – 5220MHz	CH 5 – 2432MHz	CH 11 – 2462MHz
	CH 6 – 2437MHz	
CH 48 – 5240MHz		

7.3 Antenna

Only one antenna transmits at any given time. These antennas are an off the shelf antenna assembly that connects to the RF board via U.FL connectors and have a maximum gain of 2.5dBi in the 2.4GHz band and 5.0 dBi in the 5GHz band. The antennas are not accessible by the user.

8. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

8.1 RF Emissions

8.1.1 Conducted Emissions Test

The EMI receiver was used as a measuring meter. A quasi-peak and/or average reading was taken only where indicated in the data sheets. The LISN output was measured using the EMI receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding, and grounding of the EUT. The EUT received its power through the LISN, which was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI 63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the computer software.

Test Results:

The EUT complies with the limits of CFR Title 47 Part 15 Subpart B section 15.107 and Subpart C section 15.207.

8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI receiver was used as a measuring meter. The receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the receiver records the highest measured reading over all the sweeps. Preamplifiers were used to increase the sensitivity of the instrument. There were two Microwave Preamplifiers used for frequencies above 1 GHz, and one Microwave Preamplifier was used for frequencies above 18 GHz.

The quasi-peak detector was used for frequencies below 1GHz and the average detector was used for frequencies above 1 GHz.

A linear average was used for fundamental and fundamental harmonic emissions.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE (MHz)	TRANSDUCER	EFFECTIVE MEASUREMENT BANDWIDTH
0.009 to 0.150	Active Loop Antenna	200 Hz
0.150 to 30	Active Loop Antenna	9 kHz
30 to 1000	Combilog Antenna	100 kHz
1000 to 40000	Horn Antenna	1 MHz

The TDK FAC-3 shielded test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with ANSI 63.10, ANSI C63.4, EN 50147-2, and CISPR 22. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters in both vertical and horizontal polarizations (for E field radiated field strength).

The spurious emissions coming from the digital device circuitry verses the actual transmitter circuitry was explored separately. The presences of signals coming from the digital device circuitry in comparison to the transmitter circuitry were verified by turning the transmitter off. In case when a signal coming from both circuits of the same frequency were suspected, the measurement bandwidth was reduced temporarily and verification was made that the digital device emission did not add or subtract to the measured signal from the EUT circuitry. This ensured that the signals from the digital device circuitry did not hide any emissions from the EUT.

Test Results:

The EUT complies with the limits of CFR Title 47 Part 15 Subpart B 15.109 (Class A) and Subpart C sections 15.205, 15.209, 15.247 and Subpart E 15.407 (b)(1), (b)(6), and (b)(7).

8.1.3 6 dB Bandwidth

The 6 dB Bandwidth was measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247. Please see the data sheets located in Appendix E.

8.1.4 Peak Output Power

The Peak Output Power was measured using the Power Measuring Analyzer. The peak output power was measured using a direct connection from the RF output of the EUT.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247. The maximum peak output power is less than 1 w. Please see the data sheets located in Appendix E.

8.1.5 Emissions in Non-Restricted Frequency Bands (in 100kHz Bandwidth)

The Emissions in Non-Restricted Frequency Bands (in 100kHz Bandwidth) measurements were performed using the EMI Receiver directly connected to the EUT. A reference level was established by setting the instrument center frequency to DTS channel center frequency. The span was set to $\geq$ 1.5 times the DTS bandwidth. The RBW was 100 kHz and VBW = 3 times RBW. A peak detector was used with a sweep time set to auto. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the level and 20dB below that was the reference level. For Emission Level Measurement the center frequency and span were set to encompass the frequency range to be measured. RBW was set to 100 kHz and VBW = 3 times RBW. A peak detector was used with a sweep time set to auto. The number of measurement points were greater than span/RBW. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the maximum amplitude level. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with Part 15, Subpart C, Section 15.247.

8.1.6 RF Band Edges

The RF band edges were taken at the edges of the ISM spectrum (2400 MHz when the EUT was on the low channel as well as when the EUT was on the high channel) using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3 meter test distance. The radiated emissions test procedure as describe in section 8.1 of this test report was used to maximize the emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247. Please see the data sheets located in Appendix E.

8.1.7 Spectral Density Test

The spectrum density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth 3 kHz, and the video bandwidth was 10 kHz. The highest 1.5 MHz of the signal was used as the frequency span with the sweep rate being auto couple.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247.

8.1.8 Emission Bandwidth - 26 dB Bandwidth for UNII Devices

The 26 dB Bandwidth was measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was approximately 1% of the emission bandwidth and the video bandwidth was > RBW. A peak detector was used with the max hold function of the receiver. Sweep time was set to auto couple and the trace was allowed to stabilize. The measurement at 26 dB down from the peak of the emission was compared to the RBW setting of the analyzer. The RBW was readjusted and the measurement repeated until the RBW/VWB was approximately 1%.

Test Results:

The 26dB Bandwidth is 27.49498998 MHz for Channel 36, 26.45290581 MHz for Channel 40, and 23.32665331 MHz for Channel 48.

8.1.9 Peak Output Power for UNII Devices

The Peak Output Power was measured using the Power Measuring Analyzer. The peak output power was measured using a direct connection from the RF output of the EUT.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart E section 15.407 (a)(1). Please see the data sheets located in Appendix E.

8.1.10 Power Spectral Density for UNII Devices

The Peak Power Spectral Density was measured using the EMI Receiver. The Peak Power Spectral Density was measured using a direct connection from the RF output of the EUT. The span was set to encompass the entire 26-dB emission Bandwidth. RBW was 1MHz and VBW was >= 3MHz. Sweep time was set to auto and the number of points in sweep >- 2 Span / RBW. RMS Detector and the trace average was at least 100 traces in power averaging (RMS) mode. The peak search function on the instrument was used to find the peak of the spectrum. The result is the PPSD.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart E section 15.407 (a)(1). Please see the data sheets located in Appendix E.

8.1.11 Peak Excursion for UNII Devices

The Peak Excursion was measured using a direct connection from the RF output of the EUT to the EMI Receiver. The span was set to view the entire emission bandwidth. The RBW was set to 1MHz and the VBW was >= 3MHz. A peak detector was used with the max hold function of the EMI Receiver. The trace was allowed to maximize and the peak search function of the EMI receiver was used to find the peak of the spectrum. We computed the ratio of the maximum of the peak-max-hold spectrum to the PPSD that was determined by using section 8.1.8 of this test report.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart E section 15.407 (a)(6). Please see the data sheets located in Appendix E.

8.1.12 RF Band Edges

The RF band edges were taken at the edges of the frequency band (5150 MHZ when the EUT was on the low channel and 5350 when the EUT was on the high channel) using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3 meter test distance. The radiated emissions test procedure as described in section 8.1.2 of this test report was used to maximize the emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart E section 15.407(b)(1) and (b)(7). The RF power at the restricted bands closest to the band edges at 5150 MHz and 5350 MHz meet the limits of section 15.407 (b)(1) and (b)(7) Please see the data sheets located in Appendix E.

9. TEST PROCEDURE DEVIATIONS

There were no deviations from the test procedures.

10. CONCLUSIONS

The General Floor Monitor Model: RDS-7 meets all of the Class A specification limits defined in the Code of Federal Regulations Title 47, Part 15 Subpart B 15.107, 15.109 and Subpart C sections 15.205, 15.207, 15.209, 15.247 and Subpart E section 15.407.

APPENDIX A

LABORATORY ACCREDITATIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS

NVLAP LAB CODES 200063-0, 200528-0, 200527-0

For US, Canada, Australia/New Zealand, Taiwan and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025 an ISO 9002 equivalent. Please follow the link to the NIST site for each of our facilities NVLAP certificate and scope of accreditation.

NVLAP listing links

Agoura Division - http://ts.nist.gov/Standards/scopes/2000630.htm
Brea Division - http://ts.nist.gov/Standards/scopes/2005280.htm
Silverado/Lake Forest Division - http://ts.nist.gov/Standards/scopes/2005270.htm

ANSI listing

CETCB https://www.ansica.org/wwwversion2/outside/ALLdirectoryDetails.asp?menuID=1&prgID=3&orgID=123&status=4

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).

We are also certified/listed for IT products by the following country/agency:

VCCI Listing, from VCCI site

Enter "Compatible" in search form http://www.vcci.or.jp/vcci_e/activity/registration/setsubi.html

FCC Listing, from FCC OET site

FCC test lab search https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm

Industry Canada Industrie Canada

Compatible Electronics (Site # 2154C-1 & 2154C-5) IC listing can be found at:
http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The following modifications were made to the EUT during the test in order to comply with FCC Part 15 Subpart C limits. The modifications were made in such a way that they could be reproduced during manufacturing.

1) The transmit power was reduced in 802.11g mode by changing an internal software control code from 90 to 60.
2) The transmit power was reduced in 802.11a mode by changing an internal software control code from 90 to 50.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST	GENERAL FLOOR MONITOR Model: RDS-7 S/N: 2000000015

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

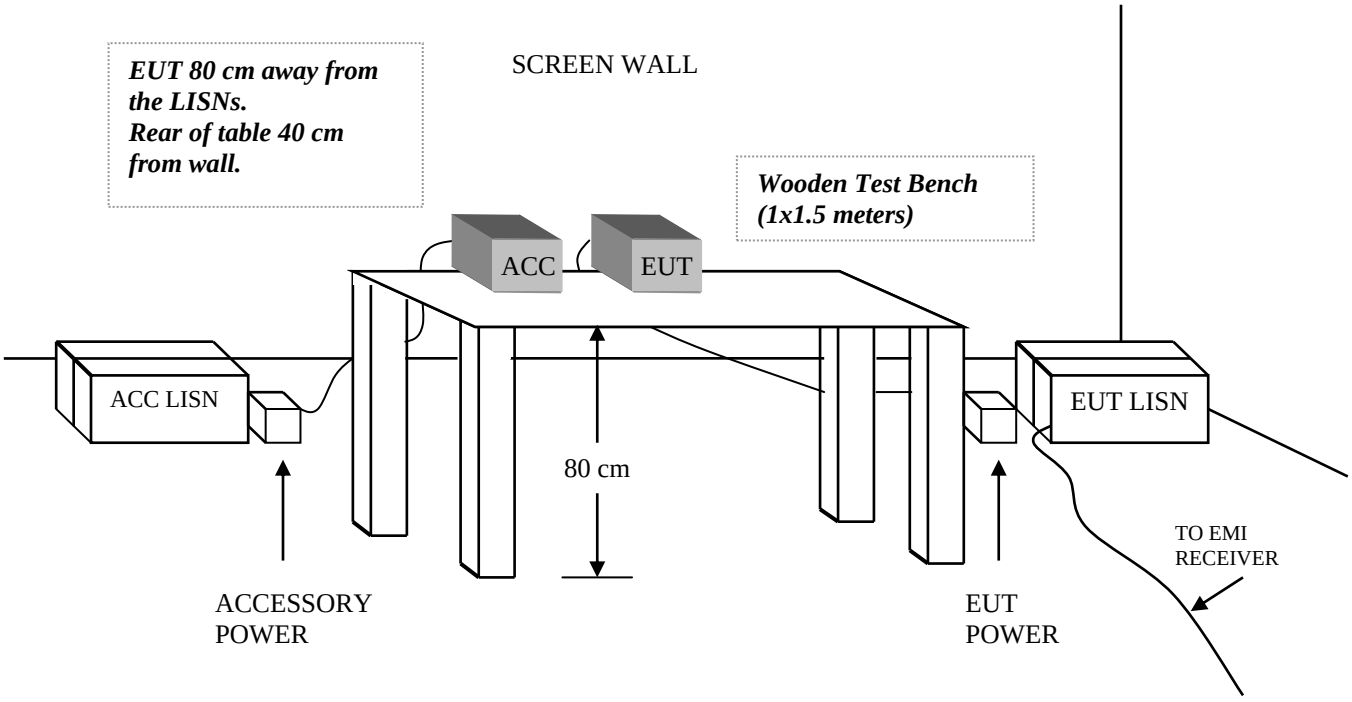


FIGURE 2: PLOT MAP & LAYOUT OF TEST SITE BELOW 1GHz

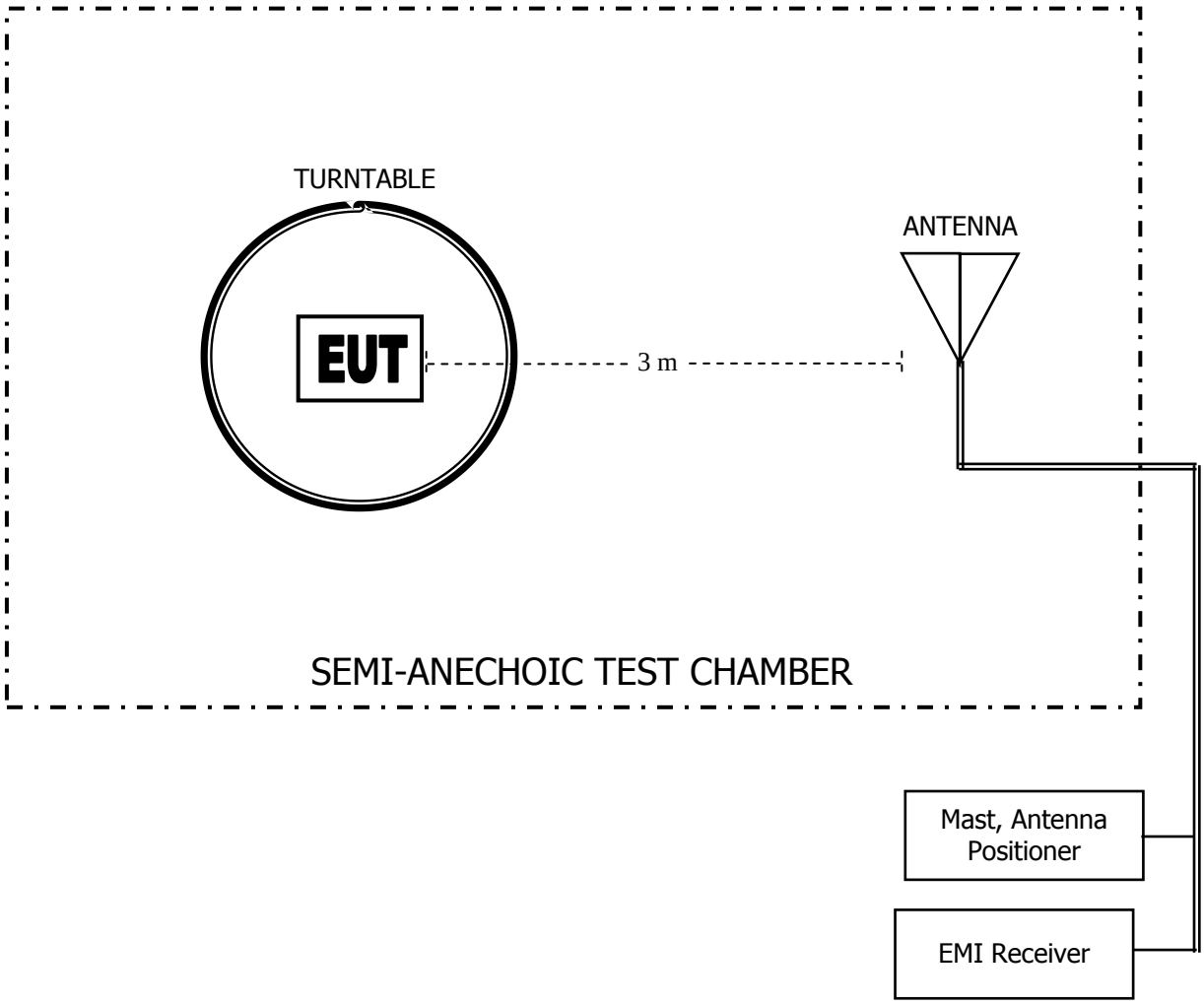
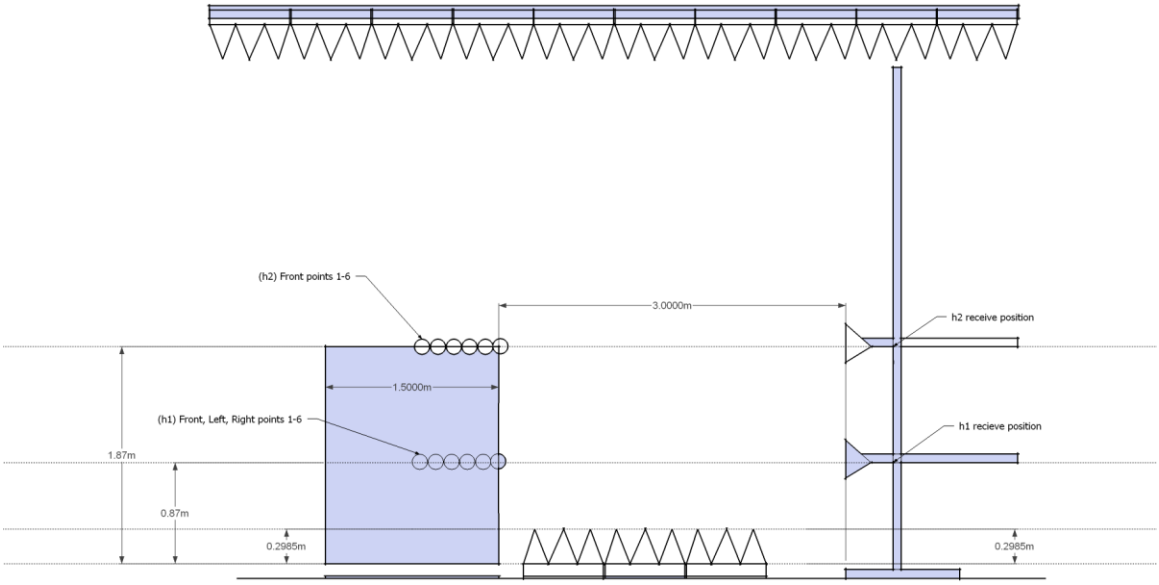


FIGURE 3: PLOT MAP & LAYOUT OF TEST SITE ABOVE 1 GHz



COM-POWER AL-130

LOOP ANTENNA

S/N: 17085

CALIBRATION DUE: JANUARY 29, 2015

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)	FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-40.70	10.80	**0.8**	-40.91	10.59
0.01	-40.50	11.00	**0.9**	-40.80	10.70
0.02	-40.70	10.80	**1.0**	-40.81	10.69
0.03	-40.10	11.40	**2.0**	-40.51	10.99
0.04	-40.50	11.00	**3.0**	-40.54	10.96
0.05	-41.10	10.40	**4.0**	-40.44	11.06
0.06	-41.00	10.50	**5.0**	-40.32	11.18
0.07	-41.10	10.40	**6.0**	-40.69	10.81
0.08	-41.10	10.40	**7.0**	-40.37	11.13
0.09	-41.20	10.30	**8.0**	-39.99	11.51
0.1	-41.20	10.30	**9.0**	-40.00	11.50
0.2	-41.40	10.10	**10.0**	-40.08	11.42
0.3	-41.30	10.20	**15.0**	-42.36	9.14
0.4	-41.20	10.30	**20.0**	-38.75	12.75
0.5	-41.40	10.10	**25.0**	-40.70	10.80
0.6	-41.40	10.10	**30.0**	-41.09	10.41
0.7	-41.20	10.30			

COM-POWER AC-220

LAB R - COMBILOG ANTENNA

S/N: 25857

CALIBRATION DUE: May 25, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	17.8	**160**	8.3
35	18.4	**180**	9.4
40	19.2	**200**	9.0
45	17.2	**250**	12.0
50	17.2	**300**	13.4
60	13.5	**400**	15.0
70	8.9	**500**	17.3
80	6.0	**600**	17.8
90	7.1	**700**	20.0
100	8.0	**800**	20.5
120	9.2	**900**	20.8
140	7.5	**1000**	22.4

COM-POWER AH-118

HORN ANTENNA

S/N: 071225

CALIBRATION DUE: JULY 3, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	26.3	**9500**	40.8
1500	27.7	**10000**	41.0
2000	31.6	**10500**	41.7
2500	32.0	**11000**	42.4
3000	32.5	**11500**	42.4
3500	33.8	**12000**	42.6
4000	33.7	**12500**	42.0
4500	34.8	**13000**	43.8
5000	35.8	**13500**	44.2
5500	36.2	**14000**	42.9
6000	37.3	**14500**	43.3
6500	37.4	**15000**	44.7
7000	38.7	**15500**	45.1
7500	39.4	**16000**	44.0
8000	37.7	**16500**	44.2
8500	39.4	**17000**	46.9
9000	39.9	**17500**	47.6
		18000	47.9

COM-POWER PAM-118

1-18GHz - PREAMPLIFIER

S/N: 443013

CALIBRATION DUE: MARCH 12, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
0500	27.20	**9500**	26.30
1000	26.20	**10000**	26.70
1500	27.00	**10500**	26.60
2000	26.90	**11000**	26.20
2500	26.80	**11500**	25.90
3000	26.90	**12000**	25.60
3500	26.90	**12500**	25.50
4000	27.10	**13000**	25.30
4500	26.70	**13500**	25.00
5000	26.40	**14000**	25.30
5500	26.00	**14500**	25.50
6000	25.70	**15000**	25.50
6500	25.30	**15500**	25.70
7000	25.10	**16000**	26.10
7500	25.00	**16500**	26.10
8000	25.20	**17000**	25.70
8500	25.50	**17500**	25.30
		18000	25.90

COM-POWER PAM-118

1-18GHz - PREAMPLIFIER

S/N: 443013

CALIBRATION DUE: APRIL 8, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
500	26.32	**5500**	25.55
1000	24.72	**6000**	25.54
1100	25.89	**6500**	24.57
1200	25.41	**7000**	23.51
1300	26.28	**7500**	23.59
1400	25.94	**8000**	23.32
1500	25.59	**8500**	22.76
1600	26.95	**9000**	23.15
1700	25.52	**9500**	24.41
1800	25.75	**10000**	25.71
1900	26.00	**11000**	26.07
2000	25.38	**12000**	26.17
2500	26.06	**13000**	24.72
3000	26.24	**14000**	23.19
3500	25.82	**15000**	25.42
4000	26.04	**16000**	25.07
4500	25.96	**17000**	24.24
5000	26.02	**18000**	24.92

COM-POWER PAM-118

1-18GHz - PREAMPLIFIER

S/N: 443011

CALIBRATION DUE: JUNE 11, 2013

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
0.500	27.61	**7.000**	23.72
1.000	26.44	**7.500**	23.80
1.500	27.28	**8.000**	24.28
2.000	27.20	**8.500**	24.29
2.500	27.26	**9.500**	26.07
3.000	27.30	**10.000**	25.91
3.500	26.93	**11.000**	25.93
4.000	27.44	**12.000**	26.47
4.500	26.89	**13.000**	25.32
5.000	26.47	**14.000**	24.93
5.500	26.20	**15.000**	25.71
6.000	25.64	**16.000**	24.96
6.500	25.18	**17.000**	23.8
		18.000	26.27

COM-POWER PAM-118

1-18GHz - PREAMPLIFIER

S/N: 443011

CALIBRATION DUE: April 8, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
0.500	27.01	**7.000**	23.96
1.000	25.68	**7.500**	24.28
1.500	26.55	**8.000**	24.33
2.000	26.16	**8.500**	24.42
2.500	27.21	**9.500**	25.89
3.000	26.46	**10.000**	27.73
3.500	26.52	**11.000**	28.36
4.000	27.67	**12.000**	27.21
4.500	26.32	**13.000**	27.69
5.000	26.90	**14.000**	25.94
5.500	26.72	**15.000**	24.27
6.000	26.48	**16.000**	27.22
6.500	27.12	**17.000**	26.12
		18.000	25.96

COM-POWER PA-840

18-40 GHz PREAMPLIFIER

S/N: 181289

CALIBRATION DUE: JUNE 13, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
18000	30.33	**31500**	29.12
19000	29.21	**32000**	28.84
20000	29.33	**32500**	28.04
21000	31.35	**33000**	28.72
22000	30.81	**33500**	28.09
23000	28.37	**34000**	27.91
24000	28.77	**34500**	27.87
25000	29.14	**35000**	27.82
26000	31.88	**35500**	27.70
26500	31.08	**36000**	25.38
27000	31.47	**36500**	27.82
27500	30.73	**37000**	27.45
28000	29.87	**37500**	27.62
28500	30.02	**38000**	28.40
29000	29.78	**38500**	29.00
29500	29.81	**39000**	30.33
30000	28.82	**39500**	31.43
30500	28.56	**39999**	29.61
31000	29.78		

COM-POWER PA-840

18-40 GHz PREAMPLIFIER

S/N: 181289

CALIBRATION DUE: JUNE 13, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
18000	31.92	**31500**	29.17
19000	30.68	**32000**	29.09
20000	31.83	**32500**	29.61
21000	32.75	**33000**	29.96
22000	31.82	**33500**	28.6
23000	30.83	**34000**	28.71
24000	30.81	**34500**	28.23
25000	31.85	**35000**	28.47
26000	32.82	**35500**	28.78
26500	33.14	**36000**	27.68
27000	33.23	**36500**	27.73
27500	32.94	**37000**	27.61
28000	32.43	**37500**	28.24
28500	31.24	**38000**	28.45
29000	31.26	**38500**	28.92
29500	30.61	**39000**	30.31
30000	30.40	**39500**	31.6
30500	30.06	**40000**	30.78
31000	29.03		

FRONT VIEW

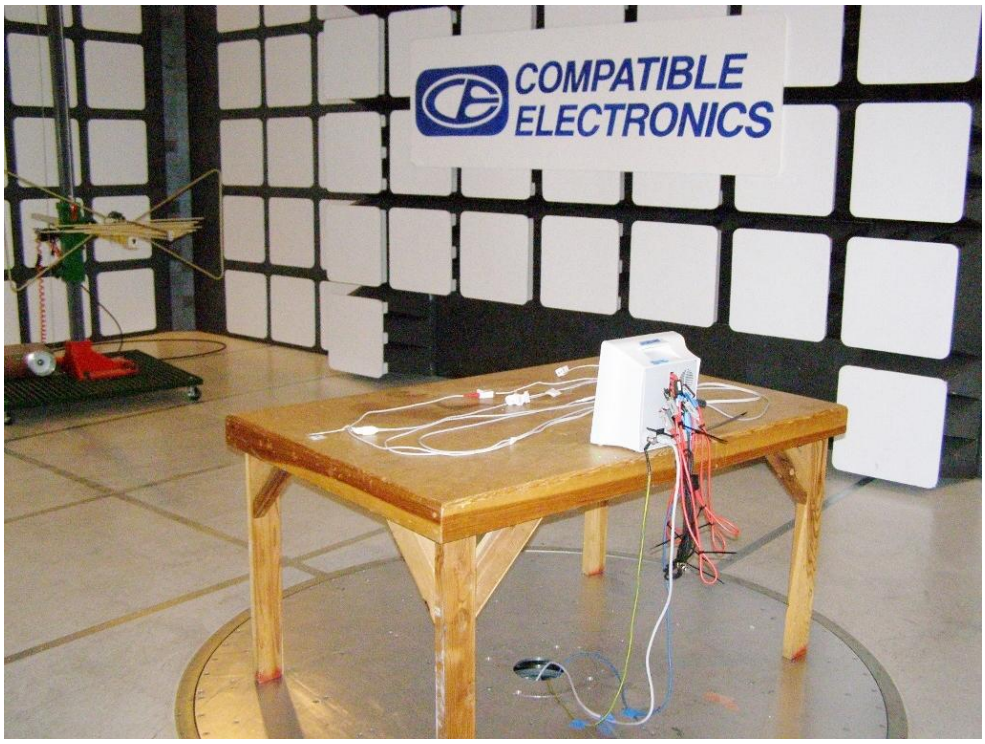
MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B & C - CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B & C - CONDUCTED EMISSIONS

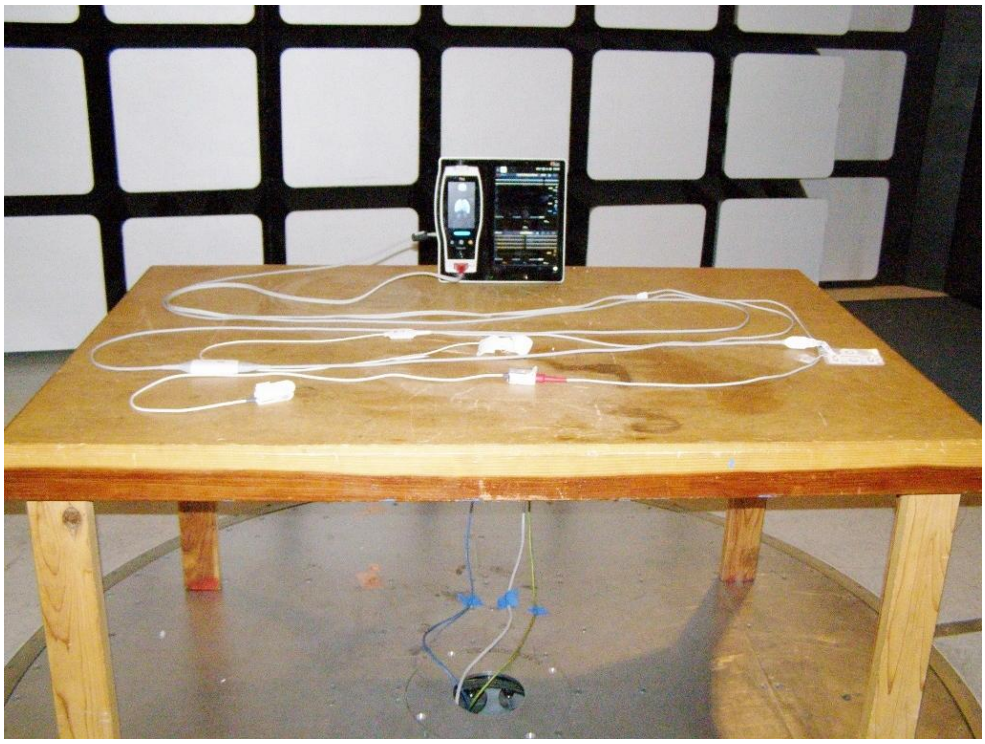
PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B & C - RADIATED EMISSIONS - BELOW 1GHz

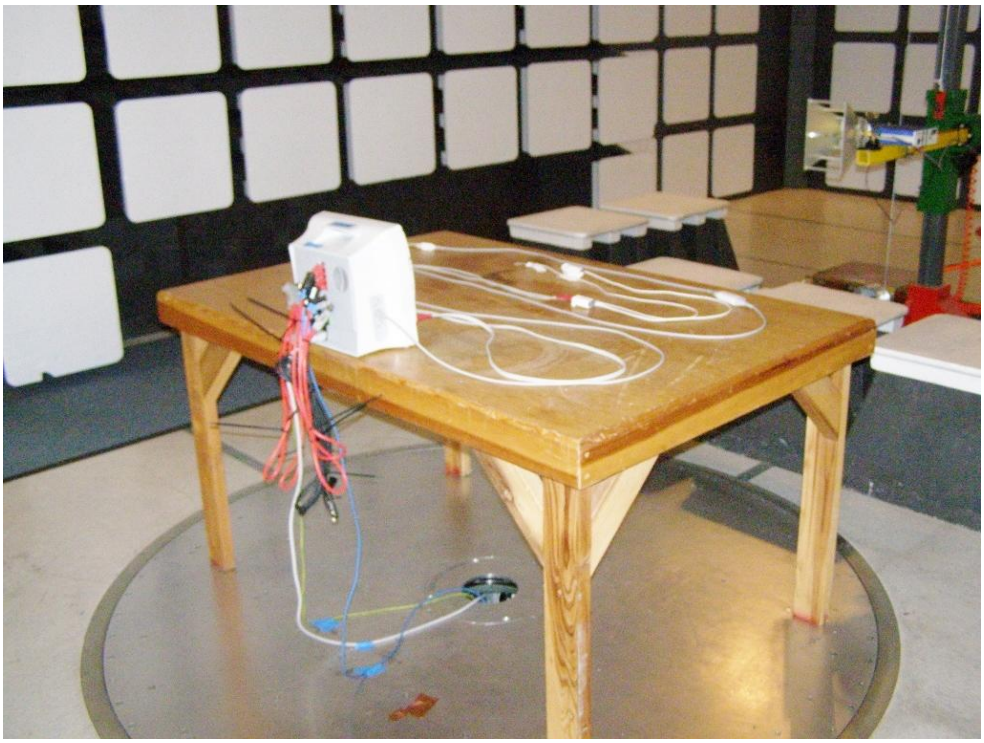
PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B & C - RADIATED EMISSIONS - BELOW 1GHz

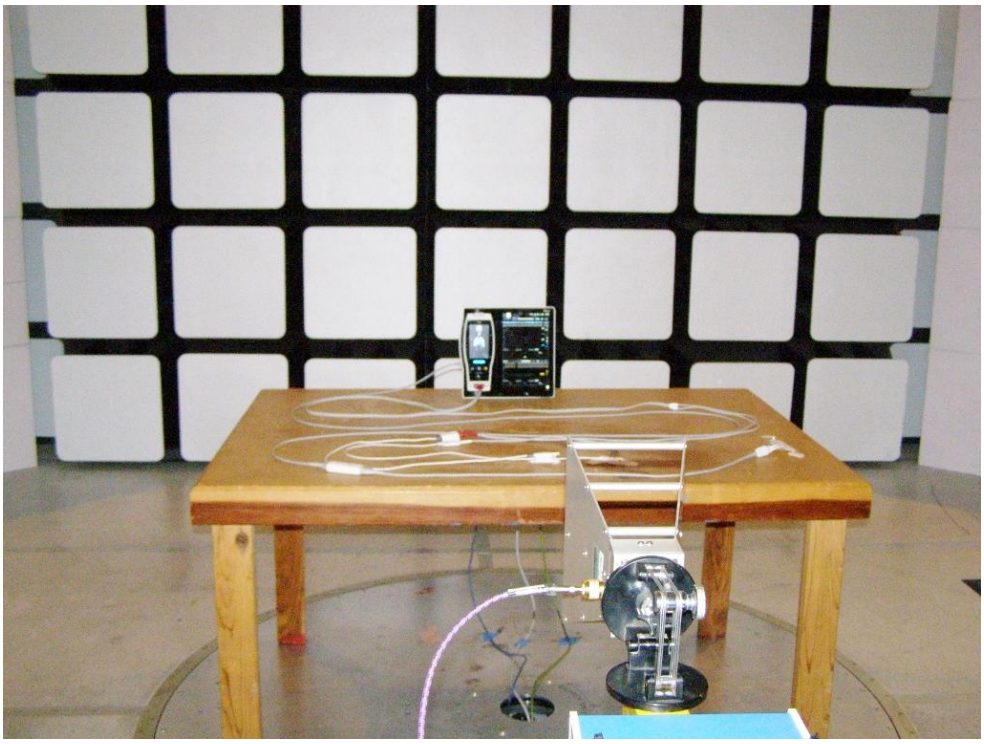
PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B, C & E - RADIATED EMISSIONS - ABOVE 1GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

MASIMO CORPORATION
GENERAL FLOOR MONITOR
Model: RDS-7
FCC SUBPART B, C & E - RADIATED EMISSIONS - ABOVE 1GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

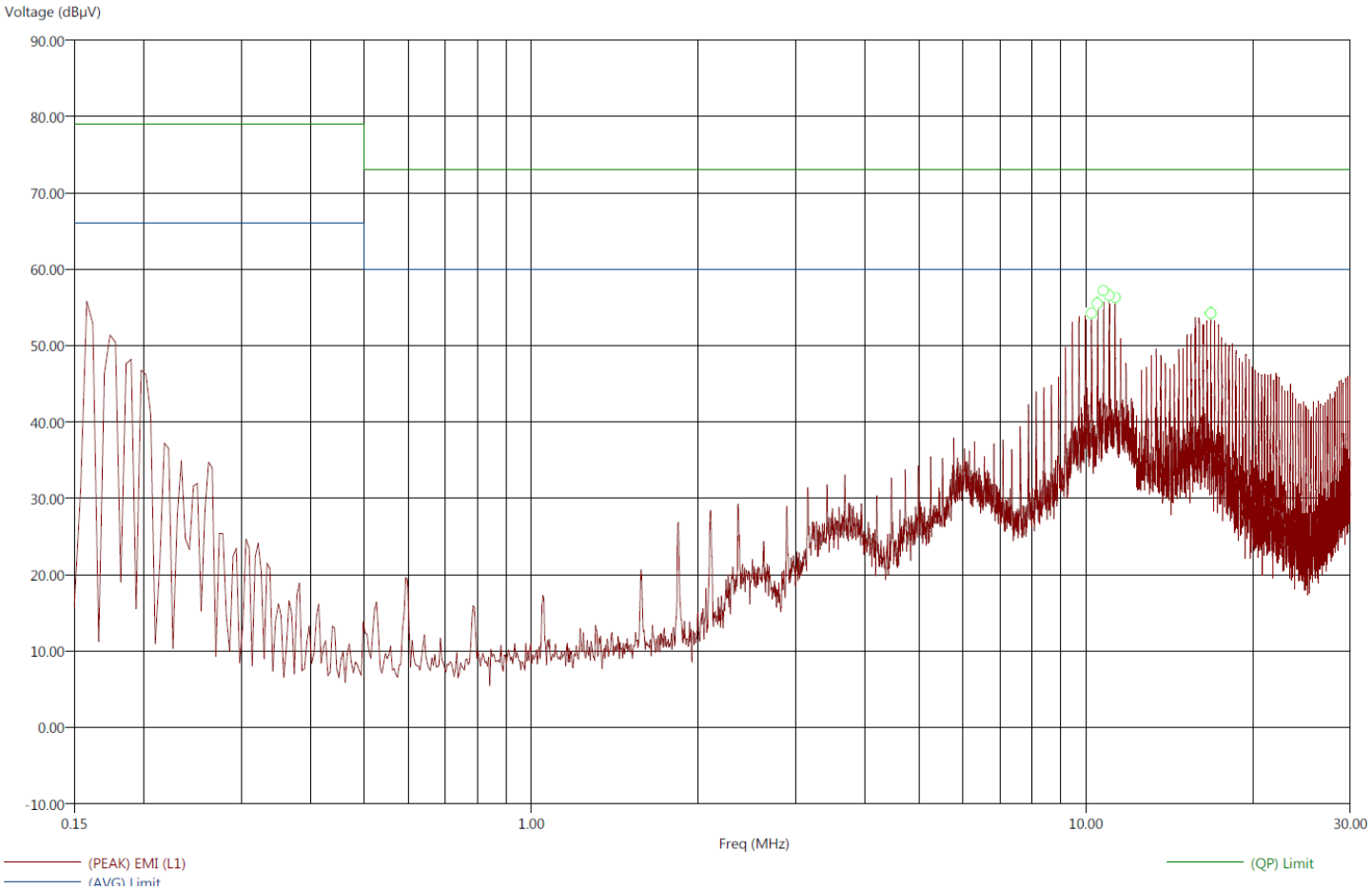
DATA SHEETS

CONDUCTED EMISSIONS
AC MAINS

Title: FCC 15.107 Class A
File: Conducted Pre-Line_a.set
Operator: Matt Harrison
EUT Type: RDS7.
EUT Condition: Tx, 802.11a mode, Ch. 36.
Comments: Connected to Patient Cables, Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground.
Temp: 70f
Hum: 37%
120V 60Hz

4/14/2014 1:59:25 PM
Sequence: Preliminary Scan

Compatible Electronics, Inc. FAC-3 (Lab P)



Title: FCC 15.107 Class A 4/14/2014 2:03:34 PM
File: Conducted Final-Line_a.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS7.
EUT Condition: Tx, 802.11a mode, Ch. 36.
Comments: Connected to Patient Cables, Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground.
Temp: 70f
Hum: 37%
120V 60Hz

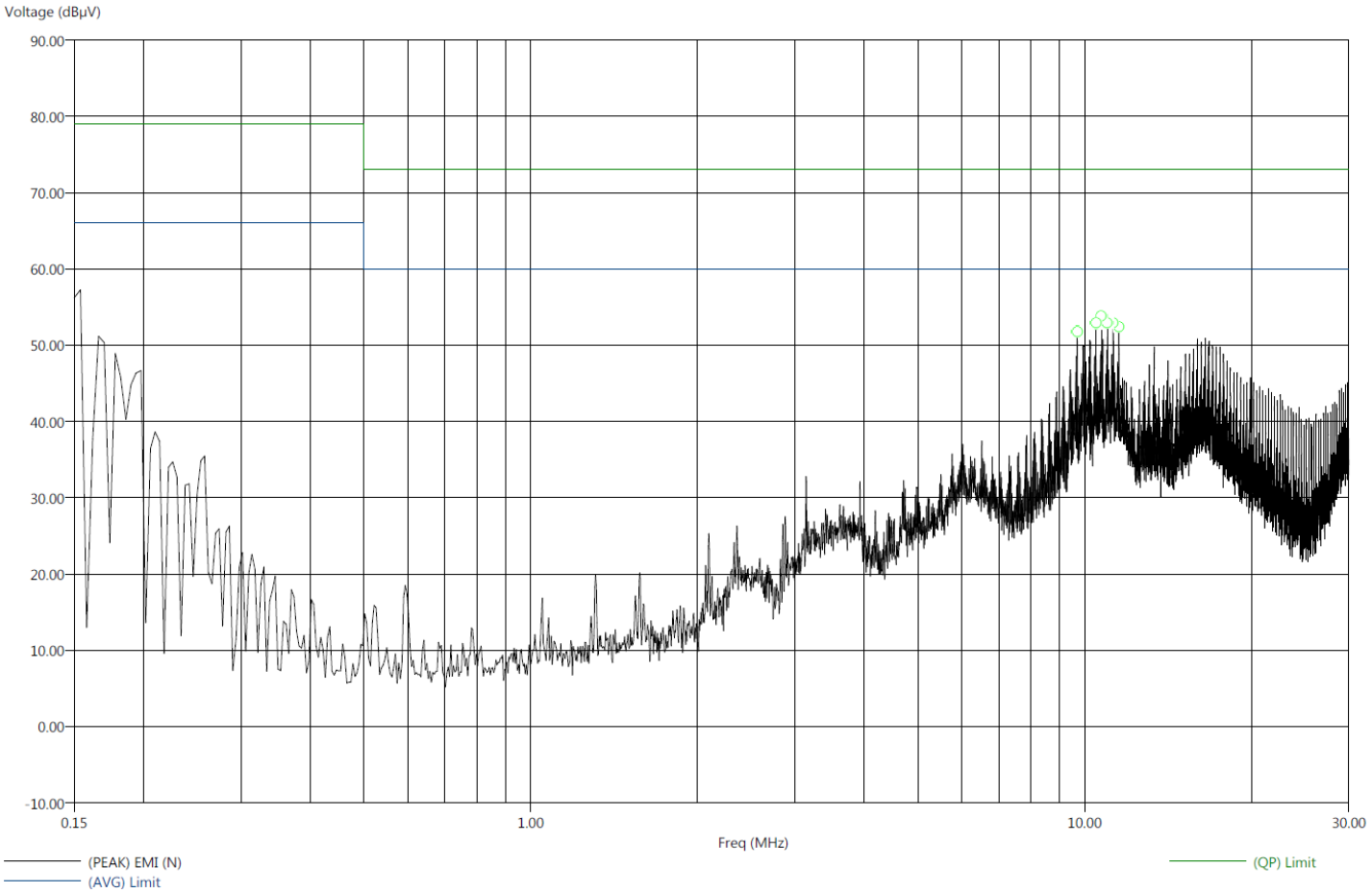
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin AVL(dB)	(QP) Margin QPL(dB)	(AVG) EMI (dBµV)	(QP) EMI (dBµV)	(PEAK) EMI (dBµV)	(AVG) Limit (dBµV)	(QP) Limit (dBµV)	Transducer (dB)	Cable (dB)
10.24	-18.56	-27.74	41.44	45.26	48.83	60.00	73.00	0.06	0.69
10.50	-26.76	-38.17	33.24	34.83	43.30	60.00	73.00	0.06	0.68
10.77	-30.10	-38.06	29.90	34.94	41.93	60.00	73.00	0.07	0.67
11.03	-29.52	-36.66	30.48	36.34	43.79	60.00	73.00	0.08	0.66
11.29	-26.48	-34.75	33.52	38.25	43.58	60.00	73.00	0.08	0.65
16.81	-19.84	-30.93	40.16	42.07	46.04	60.00	73.00	0.21	0.48

Title: FCC 15.107 Class A
File: Conducted Pre-Neutral_a.set
Operator: Matt Harrison
EUT Type: RDS7.
EUT Condition: Tx, 802.11a mode, Ch. 36.
Comments: Connected to Patient Cables, Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground.
Temp: 70f
Hum: 37%
120V 60Hz

4/14/2014 2:12:07 PM
Sequence: Preliminary Scan

Compatible Electronics, Inc. FAC-3 (Lab P)



Title: FCC 15.107 Class A
File: Conducted Final-Neutral_a.set
Operator: Matt Harrison
EUT Type: RDS7.
EUT Condition: Tx, 802.11a mode, Ch. 36.
Comments: Connected to Patient Cables, Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground.
Temp: 70f
Hum: 37%
120V 60Hz

4/14/2014 2:14:57 PM
Sequence: Final Measurements

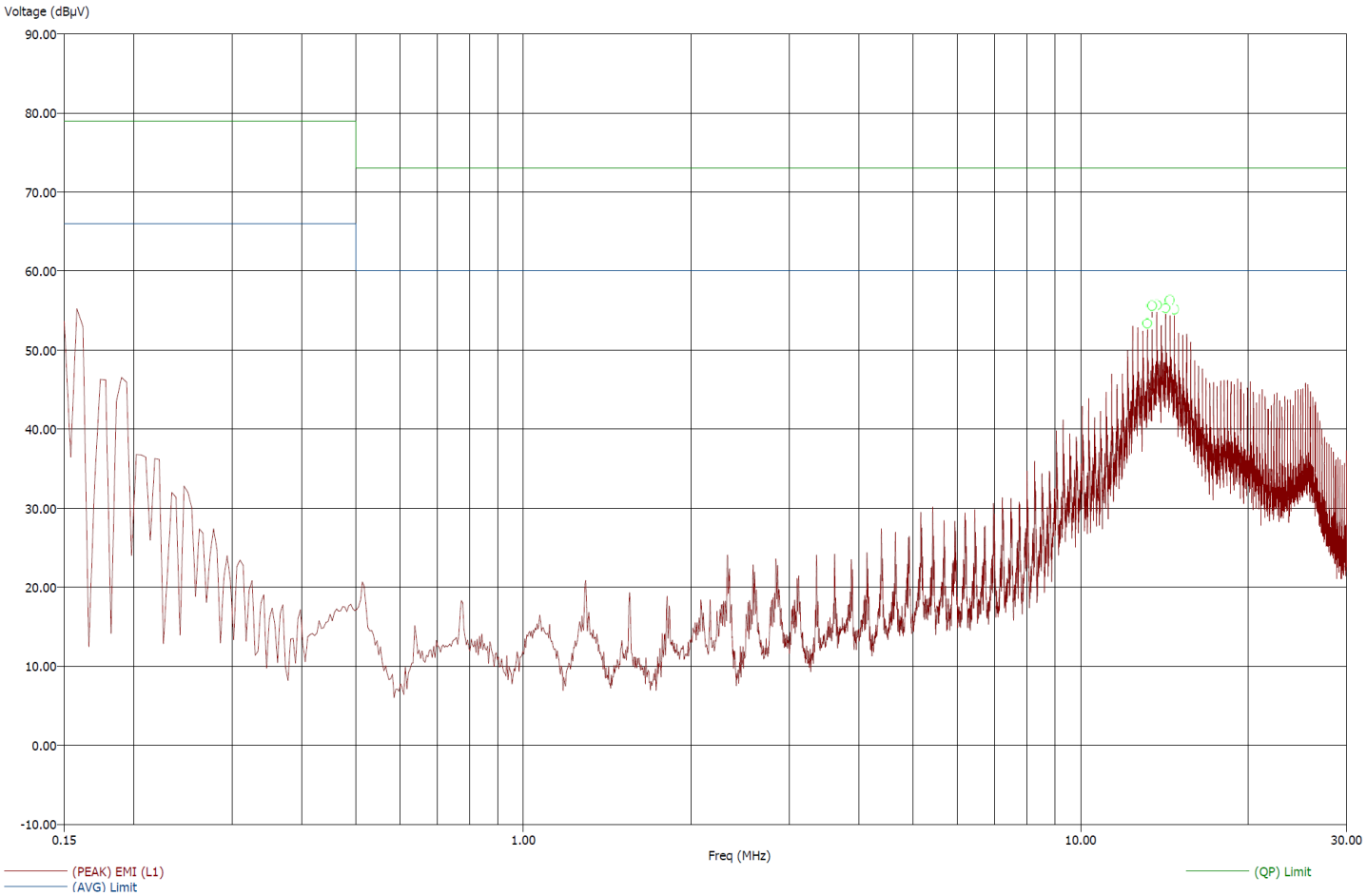
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin AVL(dB)	(QP) Margin QPL(dB)	(AVG) EMI (dBµV)	(QP) EMI (dBµV)	(PEAK) EMI (dBµV)	(AVG) Limit (dBµV)	(QP) Limit (dBµV)	Transducer (dB)	Cable (dB)
9.69	-13.80	-24.24	46.20	48.76	51.21	60.00	73.00	0.03	0.68
10.48	-9.69	-21.96	50.31	51.04	53.10	60.00	73.00	0.04	0.68
10.74	-8.43	-20.27	51.57	52.73	54.48	60.00	73.00	0.04	0.67
11.00	-12.44	-24.86	47.56	48.14	51.67	60.00	73.00	0.05	0.66
11.27	-19.32	-31.10	40.68	41.90	47.74	60.00	73.00	0.05	0.65
11.53	-26.01	-35.59	33.99	37.41	44.89	60.00	73.00	0.06	0.64

Title: FCC 15.107 Class A
File: Conducted Pre-Line_6.set
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Tx, 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

2/25/2013 7:53:57 PM
Sequence: Preliminary Scan

Compatible Electronics, Inc. FAC-3 (Lab P)



Title: FCC 15.107 Class A
File: Conducted Final-Line_6.set
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Tx, 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

2/25/2013 7:56:21 PM
Sequence: Final Measurements

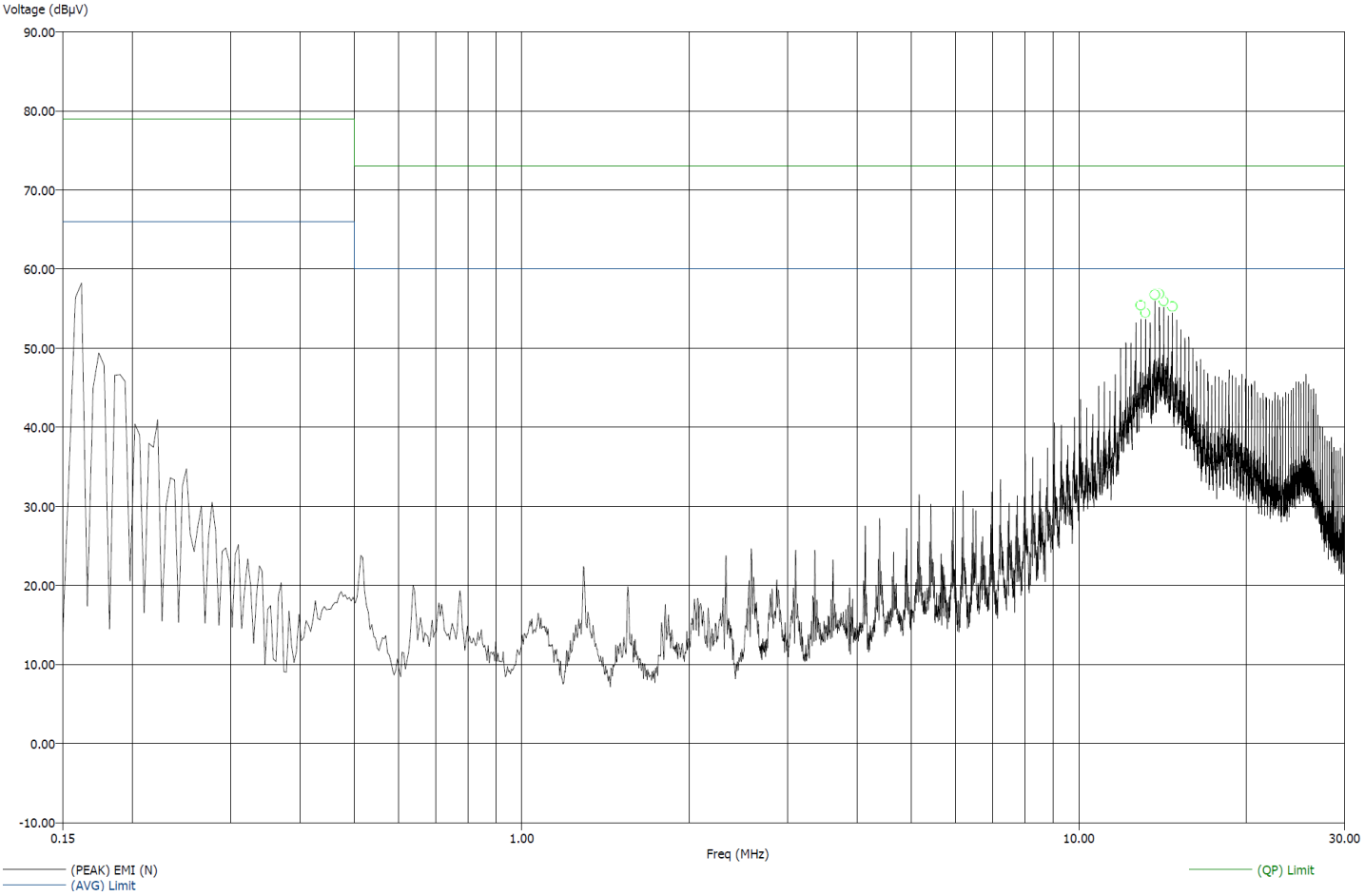
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin AVL(dB)	(QP) Margin QPL(dB)	(AVG) EMI (dBµV)	(QP) EMI (dBµV)	(PEAK) EMI (dBµV)	(AVG) Limit (dBµV)	(QP) Limit (dBµV)	Transducer (dB)	Cable (dB)
13.17	-9.89	-16.91	50.11	56.09	58.78	60.00	73.00	0.03	0.32
13.43	-4.42	-15.22	55.58	57.78	60.09	60.00	73.00	0.02	0.33
13.69	-0.77	-12.84	59.23	60.16	61.61	60.00	73.00	0.02	0.34
14.21	-16.93	-20.85	43.07	52.15	56.98	60.00	73.00	0.02	0.35
14.46	-27.51	-27.71	32.49	45.29	53.75	60.00	73.00	0.02	0.36
14.72	-25.23	-26.34	34.77	46.66	53.49	60.00	73.00	0.02	0.37

Title: FCC 15.107 Class A
File: Conducted Pre-Neutral_6.set
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Tx, 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

2/25/2013 7:43:55 PM
Sequence: Preliminary Scan

Compatible Electronics, Inc. FAC-3 (Lab P)



Title: FCC 15.107 Class A
File: Conducted Final-Neutral_6.set
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Tx, 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

2/25/2013 7:47:26 PM
Sequence: Final Measurements

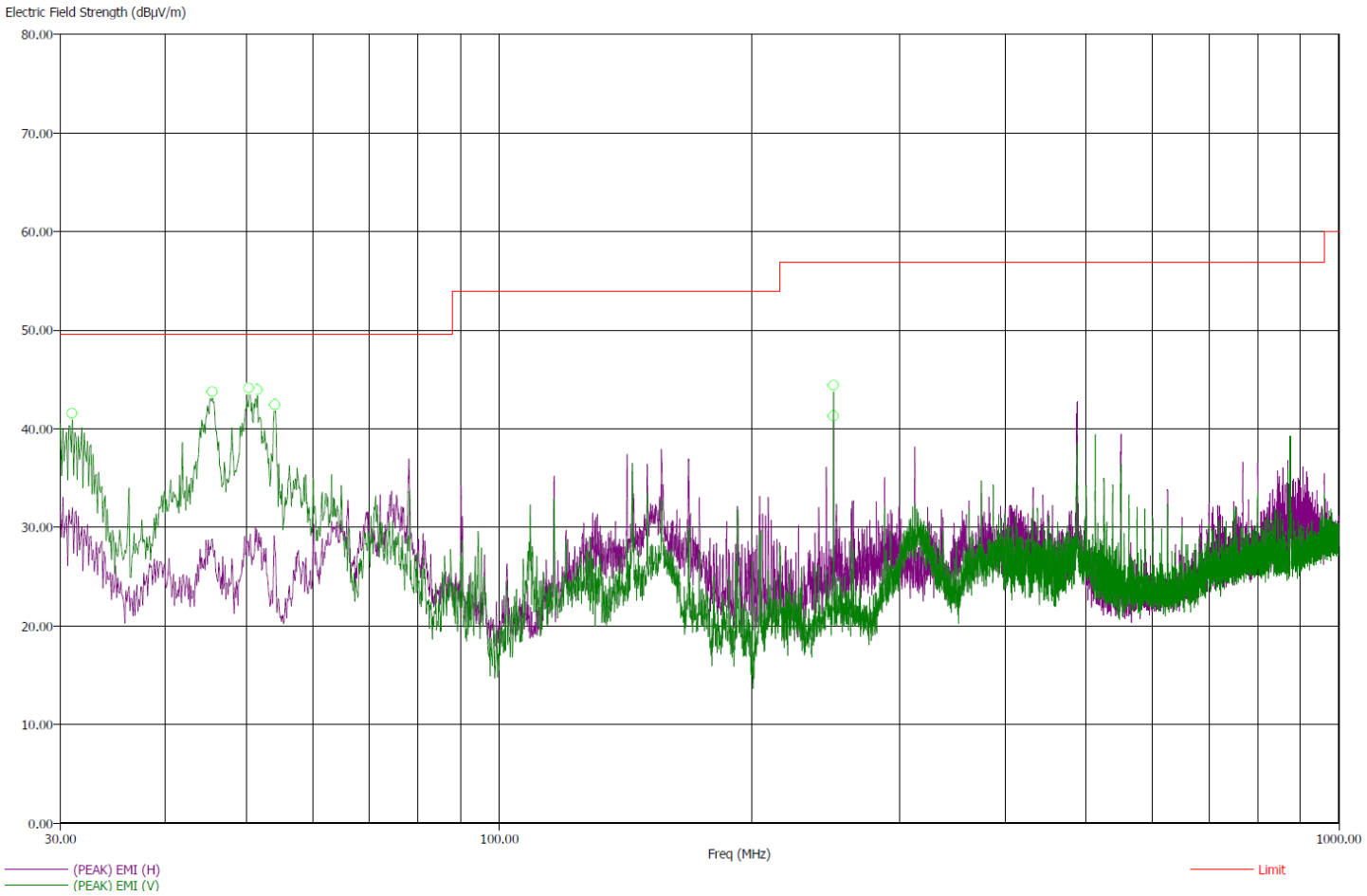
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin AVL(dB)	(QP) Margin QPL(dB)	(AVG) EMI (dBµV)	(QP) EMI (dBµV)	(PEAK) EMI (dBµV)	(AVG) Limit (dBµV)	(QP) Limit (dBµV)	Transducer (dB)	Cable (dB)
12.92	-6.89	-19.68	53.11	53.32	55.45	60.00	73.00	0.12	0.31
13.17	-5.83	-18.39	54.17	54.61	55.47	60.00	73.00	0.12	0.32
13.69	-10.09	-22.67	49.91	50.33	53.54	60.00	73.00	0.12	0.34
13.95	-11.96	-23.96	48.04	49.04	52.99	60.00	73.00	0.12	0.34
14.21	-4.43	-17.10	55.57	55.90	56.82	60.00	73.00	0.12	0.35
14.73	-10.25	-21.52	49.75	51.48	52.85	60.00	73.00	0.12	0.37

RADIATED SPURIOUS EMISSIONS
DIGITAL CIRCUITRY ONLY

Title: FCC 15.109 2/25/2013 8:10:05 PM
File: Radiated Pre-Scan 30-1000Mhz_Radio_2.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

Compatible Electronics, Inc. FAC-3 (Lab P)



Title: FCC 15.109 2/25/2013 8:34:03 PM
File: Radiated Final 30-1000Mhz_Radio_2.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: 802.11b, Channel 1, 11 Mbps, TxPwr 90.
Comments: Connected to Patient Cables (W/#31 mat. Ferrite @ Side Patient Cable), Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f Hum: 22%
120V 60Hz

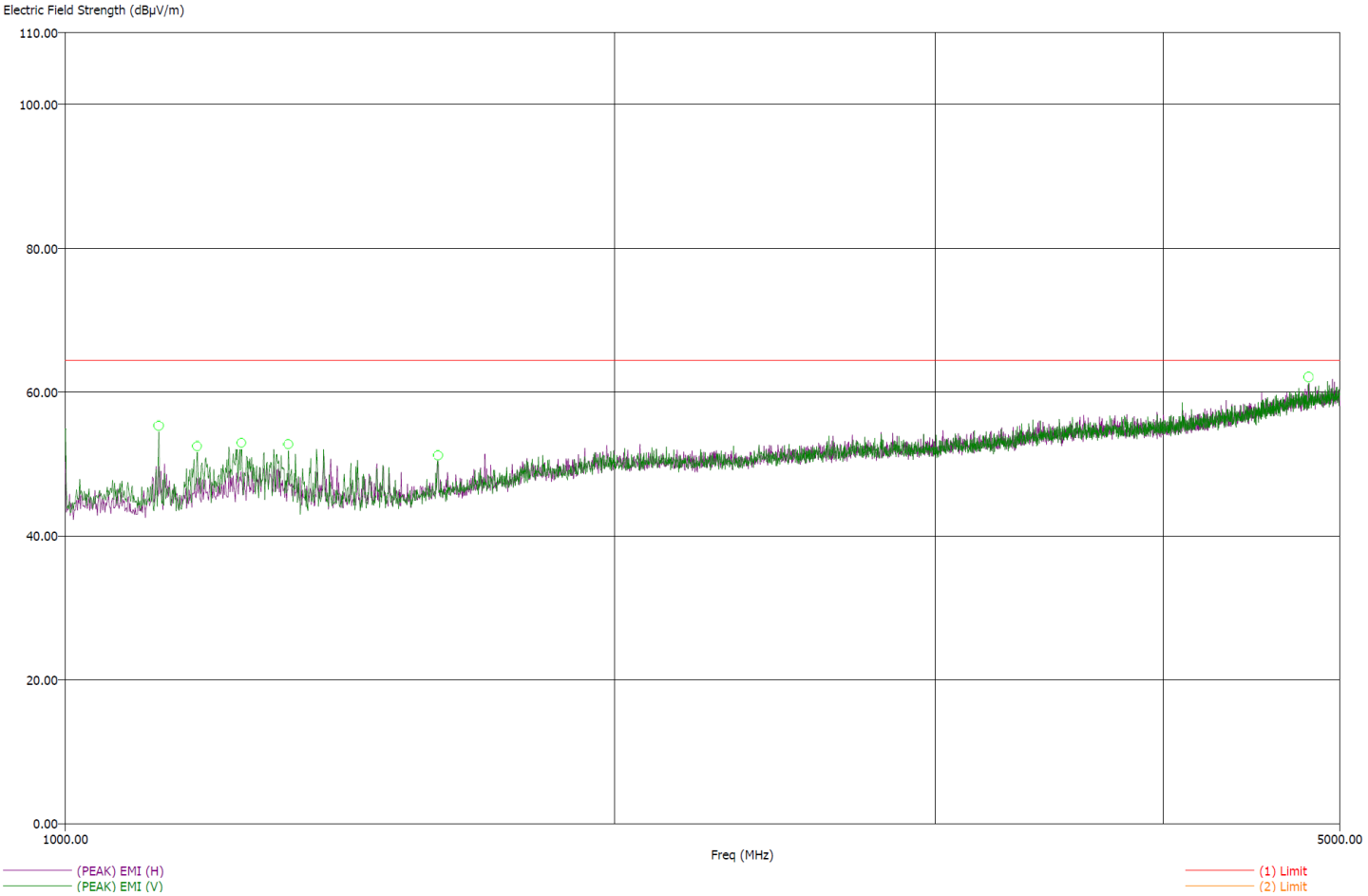
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(QP) Margin (dB)	(QP) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable(dB)
31.00	-8.78	40.76	42.63	49.54	V	1.50	101.47	17.93	0.51
45.50	-8.11	41.43	45.67	49.54	V	20.00	108.64	17.20	0.60
50.30	-8.91	40.63	45.38	49.54	V	350.75	104.05	17.05	0.60
51.50	-8.93	40.61	45.04	49.54	V	327.75	107.00	16.64	0.62
54.00	-11.37	38.17	46.93	49.54	V	123.00	108.17	15.64	0.64
250.00	-10.19	46.71	47.70	56.90	H	132.00	109.88	12.00	1.80
250.00	-11.23	45.67	46.54	56.90	V	202.00	105.94	12.00	1.80

RADIATED SPURIOUS EMISSIONS
TRANSMITTER 802.11a

Title: FCC 15.407 3/4/2013 2:16:34 PM
File: Radiated Pre-scan 1-5GHz_a_1.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx a Mode, Channel 36.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)



There were no Transmitter spurious emissions other than Harmonics found below 1 GHz or Above 4806.22MHz.

Title: FCC 15.407 3/4/2013 2:25:05 PM
File: Radiated Final 1-5GHz_a_1.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx a Mode, Channel 36.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)

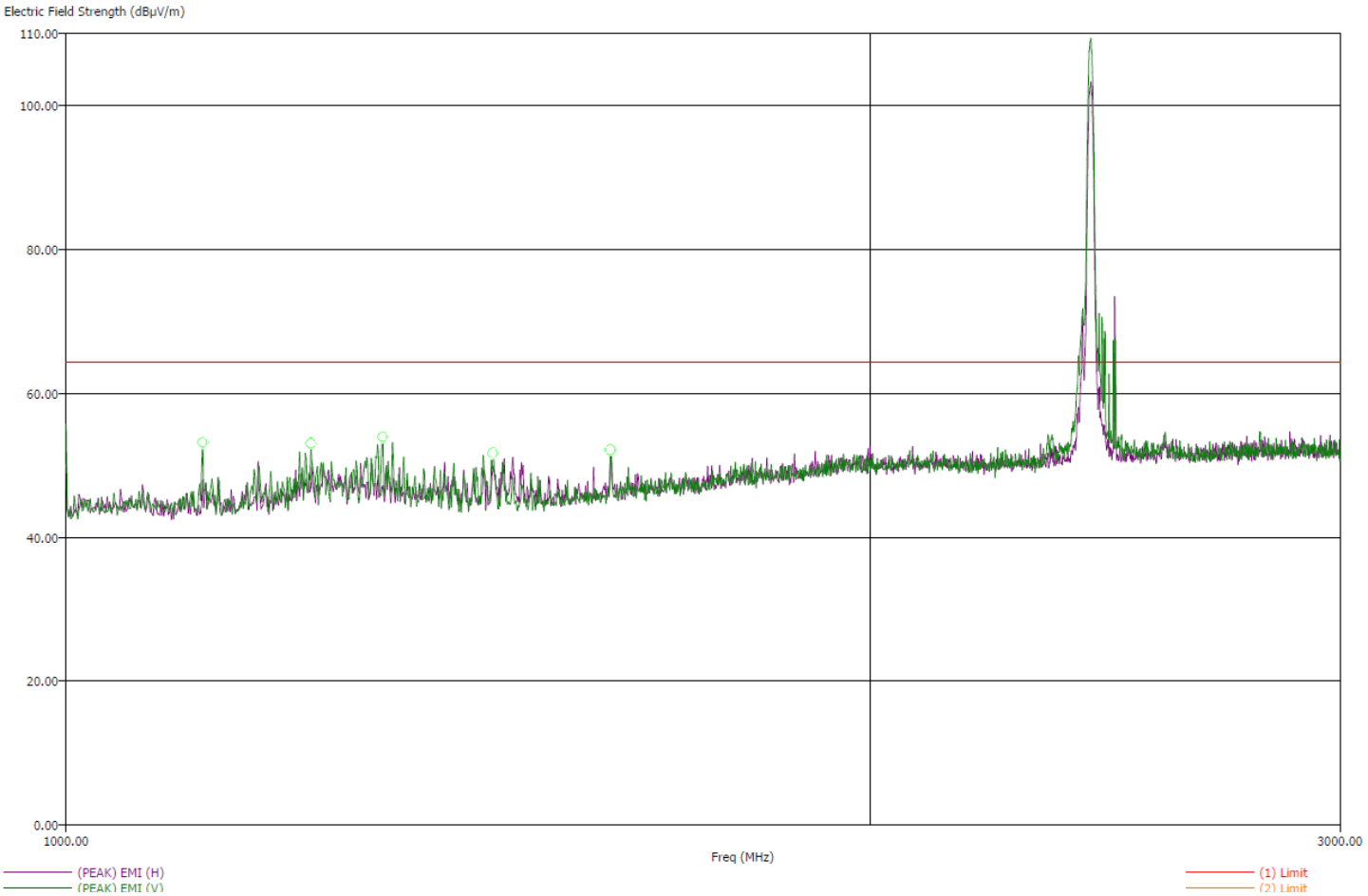
Freq (MHz)	(AVG) Margin (dB)	(AVG) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)
1124.95	-10.78	52.74	57.30	63.52	V	171.50	101.52	26.71	4.58
1180.50	-27.70	35.82	54.99	63.52	V	278.25	101.52	26.87	4.74
1248.70	-25.99	37.53	56.00	63.52	V	274.25	101.52	27.07	4.90
1324.82	-29.18	34.34	48.25	63.52	V	360.25	101.52	27.27	5.03
1600.34	-17.35	46.17	57.88	63.52	H	285.25	101.52	28.58	5.40
4806.22	-15.11	48.41	61.66	63.52	V	124.25	101.52	35.42	10.03

There were no Transmitter spurious emissions other than Harmonics found below 1 GHz or Above 4806.22MHz.

RADIATED SPURIOUS EMISSIONS
TRANSMITTER 802.11b

Title: FCC 15.209 3/1/2013 2:15:05 PM
File: Radiated Pre-scan 1-3GHz_b.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx b Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable
(W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)



There were no transmitter emissions found below 1 GHz

Title: FCC 15.209 3/1/2013 2:30:43 PM
File: Radiated Final 1-3GHz_b.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx b Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable
(W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

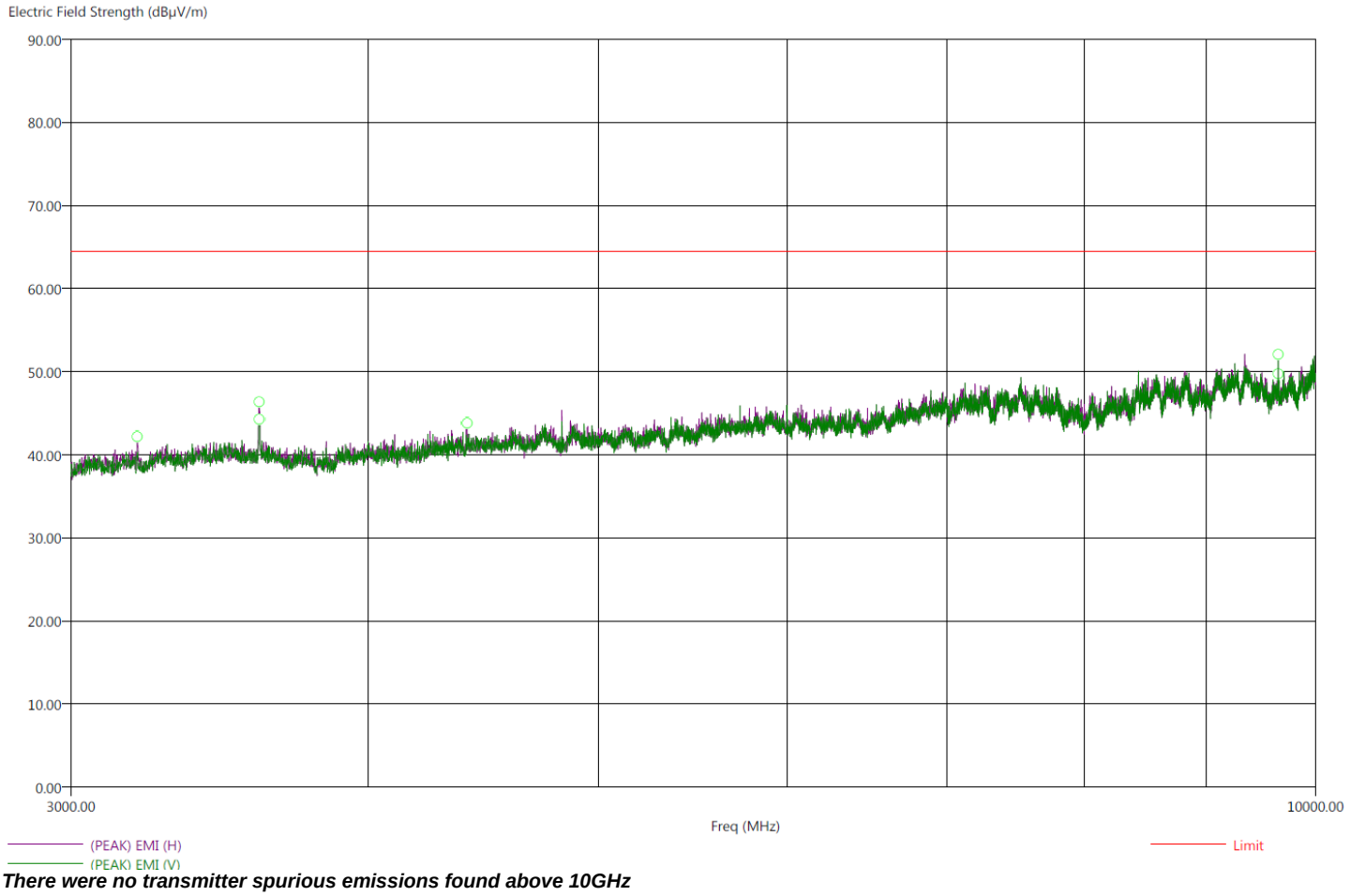
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin (dB)	(AVG) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)
1124.93	-14.24	49.28	54.92	63.52	V	183.25	101.52	26.71	4.58
1235.51	-25.99	37.53	55.94	63.52	V	243.50	101.52	27.03	4.87
1312.82	-25.92	37.60	56.15	63.52	V	244.00	101.52	27.24	5.01
1444.89	-28.51	35.01	50.35	63.52	V	360.00	101.52	27.57	5.19
1599.73	-19.51	44.01	55.37	63.52	V	306.50	101.52	28.57	5.40

There were no transmitter spurious emissions found below 1 GHz

Title: FCC 15.209 2/27/2013 9:11:26 PM
File: Radiated Pre-scan 3-18GHz_b.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx b Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22%
120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)



There were no transmitter spurious emissions found above 10GHz

Title: FCC 15.209 2/27/2013 9:39:40 PM
File: Radiated Final 3-18GHz_b.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx b Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22%
120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)

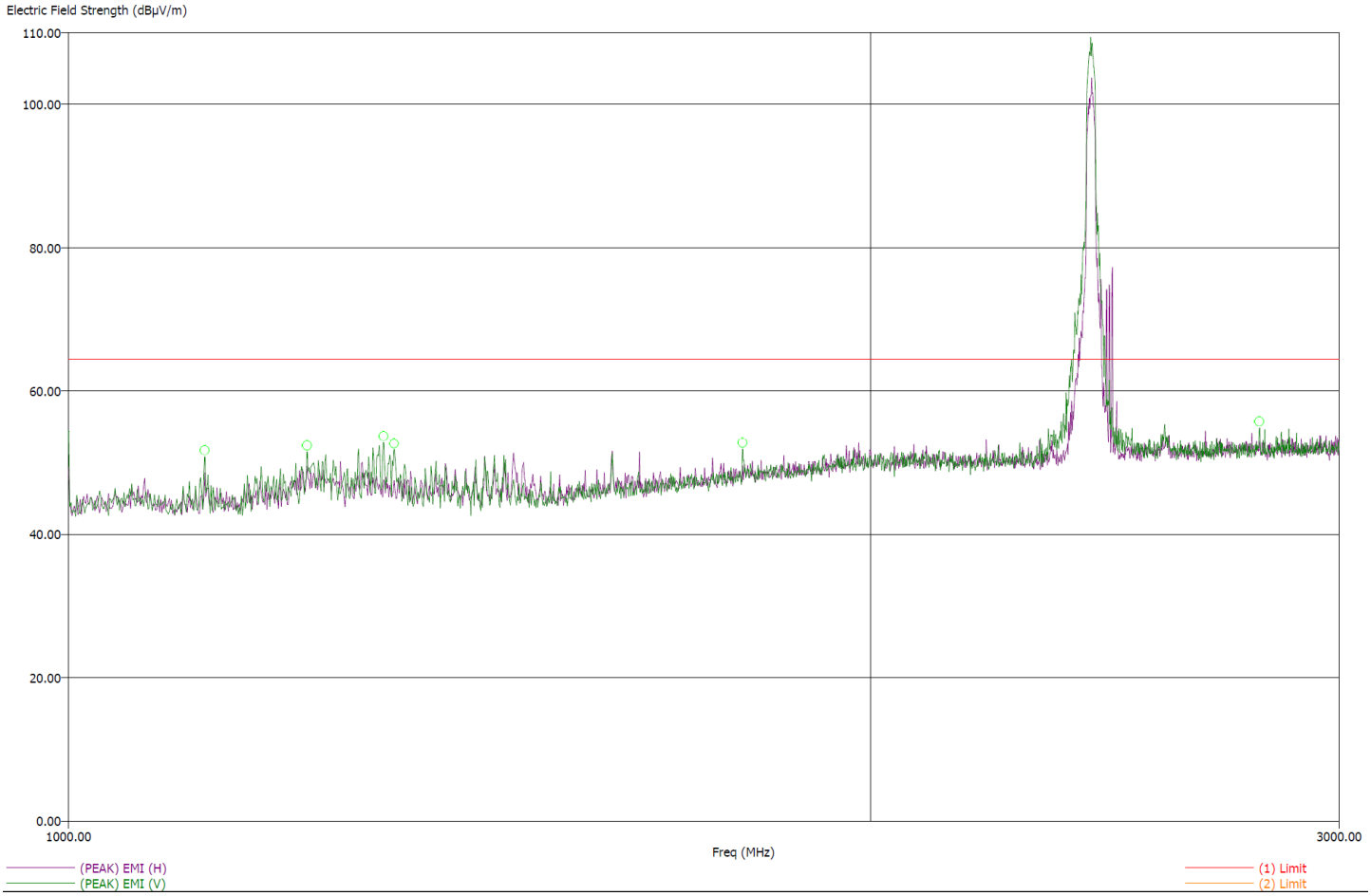
Freq (MHz)	(AVG) Margin (dB)	(AVG) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)	Preamp (dB)	High Pass Filter (dB)
3199.00	-30.14	33.38	45.66	63.52	H	65.75	139.64	33.04	8.33	54.05	0.53
3599.00	-24.98	38.54	48.90	63.52	H	64.75	105.17	33.78	8.95	53.98	0.32
3601.00	-27.37	36.15	47.13	63.52	V	38.00	101.70	33.78	8.95	53.98	0.32
4401.00	-29.85	33.67	46.40	63.52	H	81.00	101.94	34.59	9.95	53.77	0.48
9648.00	-26.67	36.85	50.07	63.52	H	220.00	101.00	40.86	16.36	52.45	0.07
9648.00	-15.53	47.99	54.90	63.52	V	225.00	171.47	40.86	16.34	52.44	0.07

There were no transmitter spurious emissions found above 10GHz

RADIATED SPURIOUS EMISSIONS
TRANSMITTER 802.11g

Title: FCC 15.209 3/1/2013 2:48:26 PM
File: Radiated Pre-scan 1-3GHz_g.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx g Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)



There were no transmitter spurious emissions found below 1 GHz

Title: FCC 15.209 3/1/2013 2:53:42 PM
File: Radiated Final 1-3GHz_g.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS7.
EUT Condition: Running, Tx g Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22% 120V 60Hz
Test Distance= 1m.

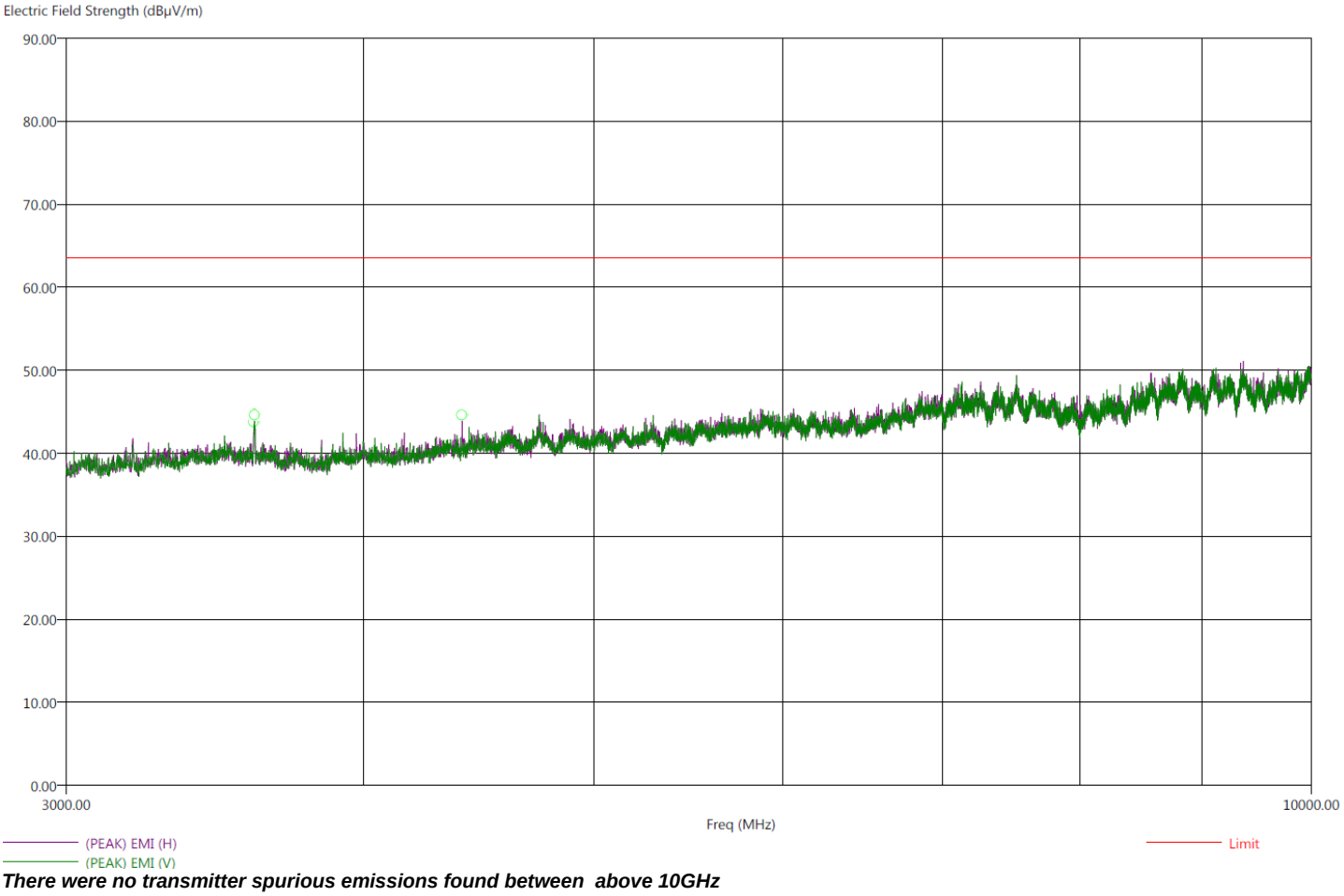
Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin (dB)	(AVG) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)
1124.98	-14.28	49.24	54.66	63.52	V	185.50	101.52	26.71	4.58
1228.93	-29.74	33.78	46.81	63.52	V	360.00	101.52	27.01	4.86
1313.44	-26.27	37.25	55.24	63.52	V	269.25	101.52	27.24	5.01
1325.13	-26.00	37.52	55.55	63.52	V	270.00	101.52	27.27	5.03
1790.88	-25.20	38.32	52.67	63.52	V	122.25	101.52	30.10	5.59
2799.43	-17.51	46.01	57.86	63.52	V	0.00	101.52	32.31	7.34

There were no transmitter spurious emissions found below 1 GHz

Title: FCC 15.209 3/1/2013 12:36:26 PM
File: Radiated Pre-scan 3-18GHz_g.set Sequence: Preliminary Scan
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx g Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22%
120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)



There were no transmitter spurious emissions found between above 10GHz

Title: FCC 15.209 3/1/2013 1:28:35 PM
File: Radiated Final 3-18GHz_g.set Sequence: Final Measurements
Operator: Matt Harrison
EUT Type: RDS-7.
EUT Condition: Running Continuous, Tx g Mode, Channel 1.
Comments: Connected to Patient Cables , Ethernet Cables (W/#31 Mat Ferrites, Terminated), Laptop (Remote), Audio Cable (W/#31 mat. Ferrite), Memory Sticks (x2), and Ground. With 2-TDK ferrites on Power Cable(Internal).
Temp: 81f
Hum: 22%
120V 60Hz
Test Distance= 1m.

Compatible Electronics, Inc. FAC-3 (Lab P)

Freq (MHz)	(AVG) Margin (dB)	(AVG) EMI (dBµV/m)	(PEAK) EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)	Preamp (dB)	Filter (dB)
3598.00	-28.66	34.86	49.15	63.52	H	56.75	118.94	33.78	8.95	53.98	0.32
3600.00	-28.61	34.91	46.08	63.52	V	43.75	130.11	33.78	8.95	53.98	0.32
4400.00	-30.85	32.67	32.67	63.52	H	35.25	181.41	34.59	9.95	53.77	0.48

There were no transmitter spurious emissions found above 10GHz

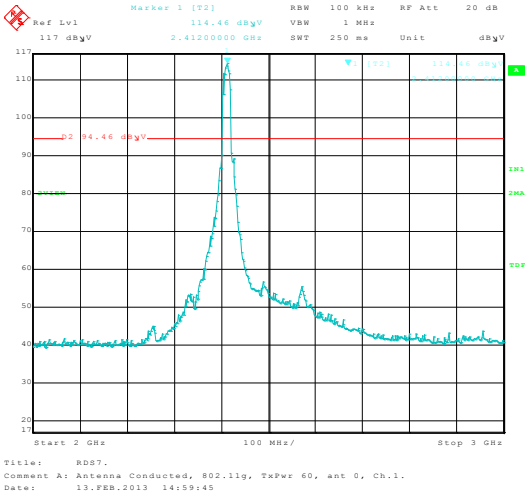
EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

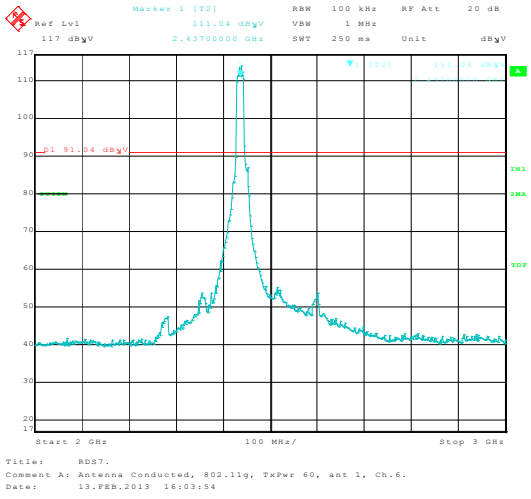
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

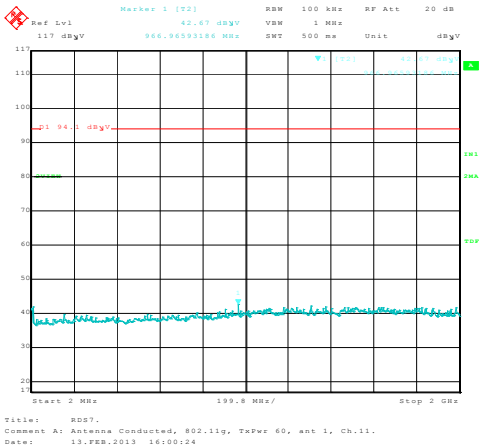
Date: 2/13/2013
Lab: P
Tested By: Matt Harrison

Freq. (MHz)	Level (dBuV)	Measurement Type	Limit (dBuV)	Margin	Peak / QP / Avg	Comments
7950	51.42	Conducted	94.46	-43.04	Peak	802.11g, Ant 0, Ch 1
7832	49.83	Conducted	91.04	-41.21	Peak	802.11g, Ant 1, Ch 6
7950	48.77	Conducted	94.10	-45.33	Peak	802.11g, Ant 1, Ch 11

Reference Level Measurement







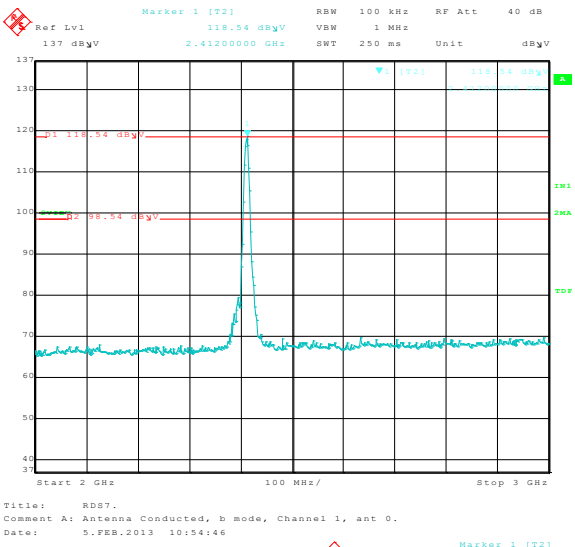
EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

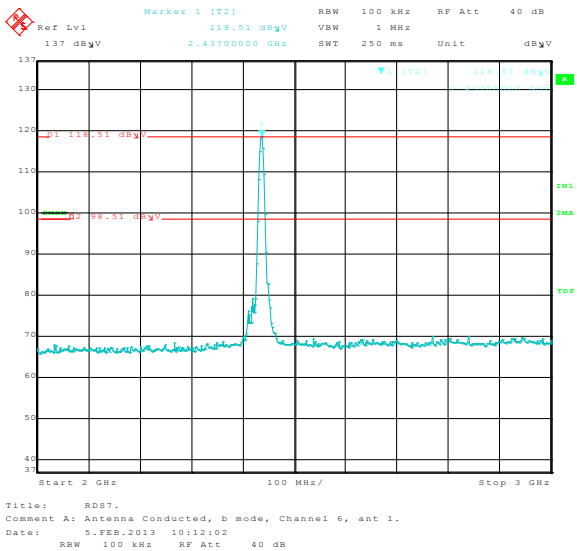
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

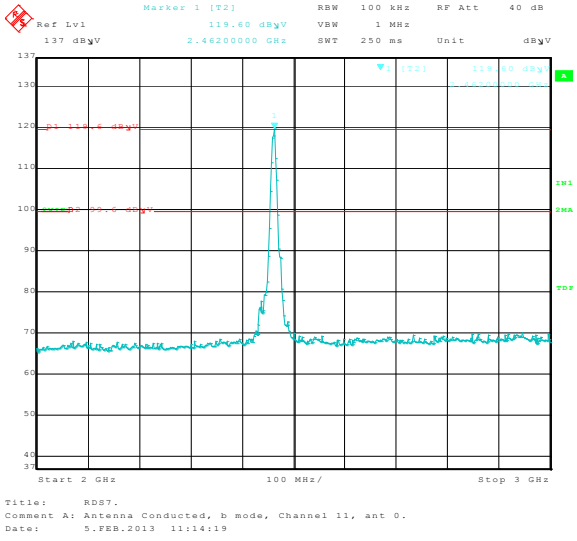
Date: 2/13/2013
Lab: P
Tested By: Matt Harrison

Freq. (MHz)	Level (dBuV)	Measurement Type	Limit (dBuV)	Margin	Peak / QP / Avg	Comments
6955.91	78.23	Conducted	98.54	-20.31	Peak	802.11b, Ant 0, Ch 1
6661.32	77.59	Conducted	98.51	-20.92	Peak	802.11b, Ant 1, Ch 6
6661.32	78.52	Conducted	99.60	-21.08	Peak	802.11b, Ant 0, Ch 11

Reference Level Measurement







FUNDAMENTAL POWER OUTPUT (CONDUCTED)

802.11a antenna 0

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
5180MHz (36)	14.62	16.98	-2.36	Peak	AVG: 6.78, PWR: 50, 6Mbps
5200MHz (40)	13.07	16.98	-3.91	Peak	AVG: 7.41, PWR: 50, 6Mbps
5240MHz (48)	15.67	16.98	-1.31	Peak	AVG: 7.92, PWR: 50, 18Mbps

802.11a antenna 1

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
5180MHz (36)	15.50	16.98	-1.48	Peak	AVG: 7.55, PWR: 50, 6Mbps
5200MHz (40)	14.98	16.98	-2.00	Peak	AVG: 7.60, PWR: 50, 6Mbps
5240MHz (48)	15.68	16.98	-1.30	Peak	AVG: 7.58, PWR: 50, 18Mbps

802.11b antenna 0

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
2412MHz (1)	19.27	30.00	-10.73	Peak	AVG 16.56; TxPwr 90, Mbps=11
2437MHz (6)	19.60	30.00	-10.40	Peak	AVG 17.06; TxPwr 90, Mbps=11
2462MHz (11)	19.43	30.00	-10.57	Peak	AVG 17.21; TxPwr 90, Mbps=11

802.11b antenna 1

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
2412MHz (1)	19.29	30.00	-10.71	Peak	AVG 16.42; TxPwr 90, Mbps=1
2437MHz (6)	19.97	30.00	-10.03	Peak	AVG 17.55; TxPwr 90, Mbps=1
2462MHz (11)	19.48	30.00	-10.52	Peak	AVG 17.17; TxPwr 90, Mbps=1

802.11g antenna 0

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
2412MHz (1)	19.78	30.00	-10.22	Peak	AVG 12.61; TxPwr 60, Mbps=48
2437MHz (6)	20.08	30.00	-9.92	Peak	AVG 13.72; TxPwr 60, Mbps=36
2462MHz (11)	19.99	30.00	-10.01	Peak	AVG 12.27; TxPwr 60, Mbps=54

802.11g antenna 1

Conducted Power Output

Channel	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
2412MHz (1)	19.76	30.00	-10.24	Peak	AVG 13.67; TxPwr 60, Mbps=48
2437MHz (6)	20.03	30.00	-9.97	Peak	AVG 12.97; TxPwr 60, Mbps=36
2462MHz (11)	19.90	30.00	-10.10	Peak	AVG 12.12; TxPwr 60, Mbps=54

HARMONICS 802.11a

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/5/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10360	58.48	V	97.76	-39.28	Peak	1.00	230	
10360		V	77.76	--	Avg			
15540		V	--	--	Peak			No Emissions Found
15540		V	--	--	Avg			
20720		V	--	--	Peak			No Emissions Found
20720		V	--	--	Avg			
25900		V	--	--	Peak			No Emissions Found
25900		V	--	--	Avg			
31080		V	--	--	Peak			No Emissions Found
31080		V	--	--	Avg			
36260		V	--	--	Peak			No Emissions Found
36260		V	--	--	Avg			

Test distance
1 meter

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/4/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10360	62.08	H	97.76	-35.68	Peak	1.00	170	
10360		H	77.76	--	Avg			
15540		H	--	--	Peak			No Emissions Found
15540		H	--	--	Avg			
20720		H	--	--	Peak			No Emissions Found
20720		H	--	--	Avg			
25900		H	--	--	Peak			No Emissions Found
25900		H	--	--	Avg			
31080		H	--	--	Peak			No Emissions Found
31080		H	--	--	Avg			
36260		H	--	--	Peak			No Emissions Found
36260		H	--	--	Avg			

Test distance
1 meter

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/17/2014
Lab: P
Tested By: Matt Harrison

Channel 40 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10400	58.26	V	97.76	-39.50	Peak	1.01	193	
10400	42.45	V	77.76	-35.31	Avg	1.01	193	
15600		V	--	--	Peak			No Emissions Found
15600		V	--	--	Avg			
20800		V	--	--	Peak			No Emissions Found
20800		V	--	--	Avg			
26000		V	--	--	Peak			No Emissions Found
26000		V	--	--	Avg			
31200		V	--	--	Peak			No Emissions Found
31200		V	--	--	Avg			
36400		V	--	--	Peak			No Emissions Found
36400		V	--	--	Avg			

Test distance
1 meter

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/7/2014
Lab: P
Tested By: Matt Harrison

Channel 40 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10400	58.52	H	97.76	-39.24	Peak			
10400	43.17	H	77.76	-34.59	Avg	1	169	
15600		H	--	--	Peak			No Emissions Found
15600		H	--	--	Avg			
20800		H	--	--	Peak			No Emissions Found
20800		H	--	--	Avg			
26000		H	--	--	Peak			No Emissions Found
26000		H	--	--	Avg			
31200		H	--	--	Peak			No Emissions Found
31200		H	--	--	Avg			
36400		H	--	--	Peak			No Emissions Found
36400		H	--	--	Avg			

Test distance
1 meter

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/5/2013
Lab: P
Tested By: Matt Harrison

Channel 48 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10480	62.82	V	97.76	-34.94	Peak	1.00	218	
10480		V	77.76	--	Avg			
15720		V	--	--	Peak			No Emissions Found
15720		V	--	--	Avg			
20960		V	--	--	Peak			No Emissions Found
20960		V	--	--	Avg			
26200		V	--	--	Peak			No Emissions Found
26200		V	--	--	Avg			
31440		V	--	--	Peak			No Emissions Found
31440		V	--	--	Avg			
36680		V	--	--	Peak			No Emissions Found
36680		V	--	--	Avg			

Test distance
1 meter

FCC 15.407

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/5/2013
Lab: P
Tested By: Matt Harrison

Channel 48 - 802.11 a Mode.

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
10480	61.48	H	97.76	-36.28	Peak	1.00	167	
10480		H	77.76	--	Avg			
15720		H	--	--	Peak			No Emissions Found
15720		H	--	--	Avg			
20960		H	--	--	Peak			No Emissions Found
20960		H	--	--	Avg			
26200		H	--	--	Peak			No Emissions Found
26200		H	--	--	Avg			
31440		H	--	--	Peak			No Emissions Found
31440		H	--	--	Avg			
36680		H	--	--	Peak			No Emissions Found
36680		H	--	--	Avg			

Test distance
1 meter

HARMONICS 802.11b

FCC 15.247

Masimo

GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab:
P
Tested By: Matt Harrison

Channel 1 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	43.18	V	83.52	-40.34	Peak	1.00	215	In Restricted Band
4824		V	63.52	--	Avg			
7236	48.44	V	83.52	-35.08	Peak	1.00	190	
7236		V	63.52	--	Avg			
9648	54.90	V	83.52	-28.62	Peak	1.70	225	
9648		V	63.52	--	Avg	1.70	225	
12060		V	--	--	Peak			No Emissions Found
12060		V	--	--	Avg			
14472		V	--	--	Peak			No Emissions Found
14472		V	--	--	Avg			
16884		V	--	--	Peak			No Emissions Found
16884		V	--	--	Avg			
19296		V	--	--	Peak			No Emissions Found
19296		V	--	--	Avg			
21708		V	--	--	Peak			No Emissions Found
21708		V	--	--	Avg			
24120		V	--	--	Peak			No Emissions Found
24120		V	--	--	Avg			

Test distance
1 meter

FCC 15.247

Masimo

GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab:
P
Tested By: Matt Harrison

Channel 1 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.47	H	83.52	-41.05	Peak	1	158	In Restricted Band
4824		H	63.52	--	Avg			
7236	49.83	H	83.52	-33.69	Peak	1	180	
7236		H	63.52	--	Avg			
9648	50.07	H	83.52	-33.45	Peak	1	220	
9648		H	63.52	--	Avg			
12060		H	--	--	Peak			No Emissions Found
12060		H	--	--	Avg			
14472		H	--	--	Peak			No Emissions Found
14472		H	--	--	Avg			
16884		H	--	--	Peak			No Emissions Found
16884		H	--	--	Avg			
19296		H	--	--	Peak			No Emissions Found
19296		H	--	--	Avg			
21708		H	--	--	Peak			No Emissions Found
21708		H	--	--	Avg			
24120		H	--	--	Peak			No Emissions Found
24120		H	--	--	Avg			

Test distance
1 meter

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab: P
Tested By: Matt Harrison

Channel 6 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	47.17	V	83.52	-36.35	Peak	1.11	190	
4874		V	63.52	--	Avg			In Restricted Band
7311	49.34	V	83.52	-34.18	Peak	1.00	235	
7311		V	63.52	--	Avg			In Restricted Band
9748	49.91	V	83.52	-33.61	Peak	1.00	215	
9748		V	63.52	--	Avg			
12185		V	--	--	Peak			No Emissions Found
12185		V	--	--	Avg			
14622		V	--	--	Peak			No Emissions Found
14622		V	--	--	Avg			
17059		V	--	--	Peak			No Emissions Found
17059		V	--	--	Avg			
19496		V	--	--	Peak			No Emissions Found
19496		V	--	--	Avg			
21933		V	--	--	Peak			No Emissions Found
21933		V	--	--	Avg			
24370		V	--	--	Peak			No Emissions Found
24370		V	--	--	Avg			

Test distance
1 meter

FCC 15.247

Masimo

GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab:
P
Tested By: Matt Harrison

Channel 6 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.67	H	83.52	-37.85	Peak	1.10	192	In Restricted Band
4874		H	63.52	--	Avg			
7311	50.25	H	83.52	-33.27	Peak	1.00	180	In Restricted Band
7311		H	63.52	--	Avg			
9748	47.82	H	83.52	-35.70	Peak	1.00	45	
9748		H	63.52	--	Avg			
12185		H	--	--	Peak			No Emissions Found
12185		H	--	--	Avg			
14622		H	--	--	Peak			No Emissions Found
14622		H	--	--	Avg			
17059		H	--	--	Peak			No Emissions Found
17059		H	--	--	Avg			
19496		H	--	--	Peak			No Emissions Found
19496		H	--	--	Avg			
21933		H	--	--	Peak			No Emissions Found
21933		H	--	--	Avg			
24370		H	--	--	Peak			No Emissions Found
24370		H	--	--	Avg			

Test distance
1 meter

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab: P
Tested By: Matt Harrison

Channel 11 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	45.24	V	83.52	-38.28	Peak	1.00	140	In Restricted Band
4924		V	63.52	--	Avg			
7386	50.63	V	83.52	-32.89	Peak	1.00	140	In Restricted Band
7386		V	63.52	--	Avg			
9848	50.47	V	83.52	-33.05	Peak	1.00	210	
9848		V	63.52	--	Avg			
12310		V	--	--	Peak			No Emissions Found
12310		V	--	--	Avg			
14772		V	--	--	Peak			No Emissions Found
14772		V	--	--	Avg			
17234		V	--	--	Peak			No Emissions Found
17234		V	--	--	Avg			
19696		V	--	--	Peak			No Emissions Found
19696		V	--	--	Avg			
22158		V	--	--	Peak			No Emissions Found
22158		V	--	--	Avg			
24620		V	--	--	Peak			No Emissions Found
24620		V	--	--	Avg			

Test distance
1 Meter

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/26/2013
Lab: P
Tested By: Matt Harrison

Channel 11 - 802.11 b Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	44.68	H	83.52	-38.84	Peak	1.00	230	In Restricted Band
4924		H	63.52	--	Avg			
7386	53.59	H	83.52	-29.93	Peak	1.00	180	In Restricted Band
7386		H	63.52	--	Avg			
9848		H	--	--	Peak			No Emissions Found
9848		H	--	--	Avg			
12310		H	--	--	Peak			No Emissions Found
12310		H	--	--	Avg			
14772		H	--	--	Peak			No Emissions Found
14772		H	--	--	Avg			
17234		H	--	--	Peak			No Emissions Found
17234		H	--	--	Avg			
19696		H	--	--	Peak			No Emissions Found
19696		H	--	--	Avg			
22158		H	--	--	Peak			No Emissions Found
22158		H	--	--	Avg			
24620		H	--	--	Peak			No Emissions Found
24620		H	--	--	Avg			

Test Distance
1 Meter

HARMONICS EMISSIONS 802.11g

FCC 15.247
Masimo

GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/1/2013
Lab:
P
Tested By: Matt Harrison

Channel 1 - 802.11g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Heigh t (m)	Table Angle (deg)	Comments
4824		V	--	--	Peak			No Emission Found
4824		V	--	--	Avg			
7236	46.05	V	83.52	-37.47	Peak	1.00	146	
7236		V	63.52	--	Avg			
9648		V	--	--	Peak			No Emission Found
9648		V	--	--	Avg			
12060		V	--	--	Peak			No Emission Found
12060		V	--	--	Avg			
14472		V	--	--	Peak			No Emission Found
14472		V	--	--	Avg			
16884		V	--	--	Peak			No Emission Found
16884		V	--	--	Avg			
19296		V	--	--	Peak			No Emission Found
19296		V	--	--	Avg			
21708		V	--	--	Peak			No Emission Found
21708		V	--	--	Avg			
24120		V	--	--	Peak			No Emission Found
24120		V	--	--	Avg			

Test Distance
1 Meter

FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7-

Date: 3/1/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11 g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824		H	--	--	Peak			No Emission Found
4824		H	--	--	Avg			
7236	51.69	H	83.52	-31.83	Peak	1.7	346	
7236		H	63.52	--	Avg			
9648		H	--	--	Peak			No Emission Found
9648		H	--	--	Avg			
12060		H	--	--	Peak			No Emission Found
12060		H	--	--	Avg			
				--				
14472		H	--		Peak			No Emission Found
14472		H	--	--	Avg			
				--				
16884		H	--		Peak			No Emission Found
16884		H	--	--	Avg			
				--				
19296		H	--		Peak			No Emission Found
19296		H	--	--	Avg			
21708		H	--	--	Peak			No Emission Found
21708		H	--	--	Avg			
24120		H	--	--	Peak			No Emission Found
24120		H	--	--	Avg			

Test distance
1 meter

FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/1/2013
Lab: P
Tested By: Matt Harrison

Channel 6 - 802.11 g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	43.73	V	83.52	-39.79	Peak	1.00	221	
4874		V	63.52	--	Avg			In Restricted Band
7311	50.26	V	83.52	-33.26	Peak	1.65	135	
7311		V	63.52	--	Avg			In Restricted Band
9748		V	--	--	Peak			No Emission Found
9748		V	--	--	Avg			No Emission Found
12185		V	--	--	Peak			No Emission Found
12185		V	--	--	Avg			In Restricted Band
14622		V	--	--	Peak			No Emission Found
14622		V	--	--	Avg			In Restricted Band
17059		V	--	--	Peak			No Emission Found
17059		V	--	--	Avg			No Emission Found
19496		V	--	--	Peak			No Emission Found
19496		V	--	--	Avg			In Restricted Band
21933		V	--	--	Peak			No Emission Found
21933		V	--	--	Avg			No Emission Found
24370		V	--	--	Peak			No Emission Found
24370		V	--	--	Avg			No Emission Found

Test distance
1 meter

FCC 15.247
Masimo

GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/1/2013
Lab:
P
Tested By: Matt Harrison

Channel 6 - 802.11 g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.02	H	83.52	-38.50	Peak	1	162	
4874		H	63.52	--	Avg			In Restricted Band
7311	52.11	H	83.52	-31.41	Peak	1	62	
7311		H	63.52	--	Avg			In Restricted Band
9748		H	--	--	Peak			No Emission Found
9748		H	--	--	Avg			No Emission Found
12185		H	--	--	Peak			No Emission Found
12185		H	--	--	Avg			In Restricted Band
14622		H	--	--	Peak			No Emission Found
14622		H	--	--	Avg			In Restricted Band
17059		H	--	--	Peak			No Emission Found
17059		H	--	--	Avg			No Emission Found
19496		H	--	--	Peak			No Emission Found
19496		H	--	--	Avg			In Restricted Band
21933		H	--	--	Peak			No Emission Found
21933		H	--	--	Avg			No Emission Found
24370		H	--	--	Peak			No Emission Found
24370		H	--	--	Avg			No Emission Found

Test distance
1 meter

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/1/2013
Lab: P
Tested By: Matt Harrison

Channel 11 - 802.11 g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924		V		--	Peak			No Emission Found
4924		V		--	Avg			
7386	49.66	V	83.52	-53.86	Peak	1	170	
7386		V	63.52	--	Avg			
9848	51.89	V	83.52	-51.63	Peak	1	210	
9848		V	63.52	--	Avg			
12310		V		--	Peak			No Emission Found
12310		V		--	Avg			
14772		V		--	Peak			No Emission Found
14772		V		--	Avg			
17234		V		--	Peak			No Emission Found
17234		V		--	Avg			
19696		V		--	Peak			No Emission Found
19696		V		--	Avg			
22158		V		--	Peak			No Emission Found
22158		V		--	Avg			
24620		V		--	Peak			No Emission Found
24620		V		--	Avg			

Test distance
1 meter

FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 3/1/2013
Lab: P
Tested By: Matt Harrison

Channel 11 - 802.11 g Mode

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBuV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924		H	--	--	Peak			No Emission Found
4924		H	--	--	Avg			
7386	49.84	H	83.52	-33.68	Peak	1	188	
7386		H	63.52	--	Avg			
9848	52.65	H	83.52	-30.87	Peak	1	320	
9848		H	63.52	--	Avg			
12310		H	--	--	Peak			No Emission Found
12310		H	--	--	Avg			
14772		H	--	--	Peak			No Emission Found
14772		H	--	--	Avg			
17234		H	--	--	Peak			No Emission Found
17234		H	--	--	Avg			
19696		H	--	--	Peak			No Emission Found
19696		H	--	--	Avg			
22158		H	--	--	Peak			No Emission Found
22158		H	--	--	Avg			
24620		H	--	--	Peak			No Emission Found
24620		H	--	--	Avg			

Test distance
1 meter

6dB BANDWIDTHS

DATA SHEETS

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/5/2013
Lab: P
Tested By: Matt Harrison

802.11b Antenna 0

6dB Bandwidth

Channel	BW (kHz)	Minimum (kHz)	Margin (kHz)	Comments
2412MHz (1)	7334.66	500.00	-6834.66	
2437MHz (6)	7995.99	500.00	-7495.99	
2462MHz (11)	8056.11	500.00	-7556.11	

802.11b Antenna 1

6dB Bandwidth

Channel	BW (kHz)	Minimum (kHz)	Margin (kHz)	Comments
2412MHz (1)	7875.75	500.00	-7375.75	
2437MHz (6)	7875.57	500.00	-7375.57	
2462MHz (11)	7394.78	500.00	-6894.78	

802.11g Antenna 0

6dB Bandwidth

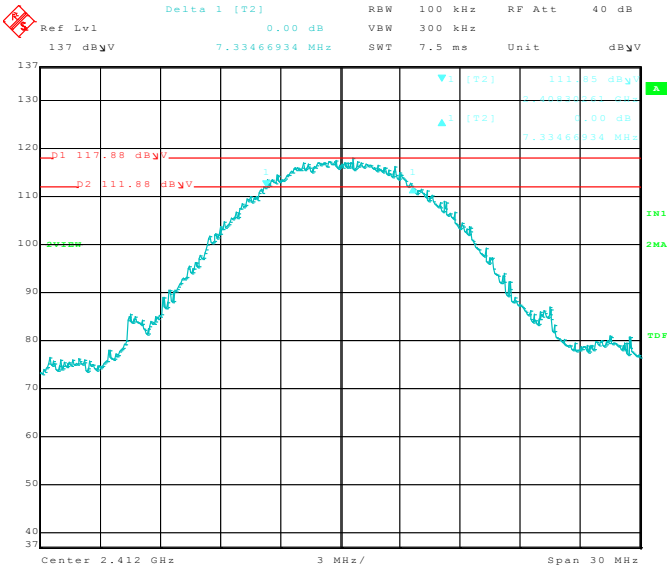
Channel	BW (kHz)	Minimum (kHz)	Margin (kHz)	Comments
2412MHz (1)	15270.54	500.00	-14770.54	
2437MHz (6)	15270.54	500.00	-14770.54	
2462MHz (11)	15270.54	500.00	-14770.54	

802.11g Antenna 1

6dB Bandwidth

Channel	BW (kHz)	Minimum (kHz)	Margin (kHz)	Comments
2412MHz (1)	15390.78	500.00	-14890.78	
2437MHz (6)	15270.54	500.00	-14770.54	
2462MHz (11)	15571.14	500.00	-15071.14	

6dB Bandwidth 802.11b Antenna 0



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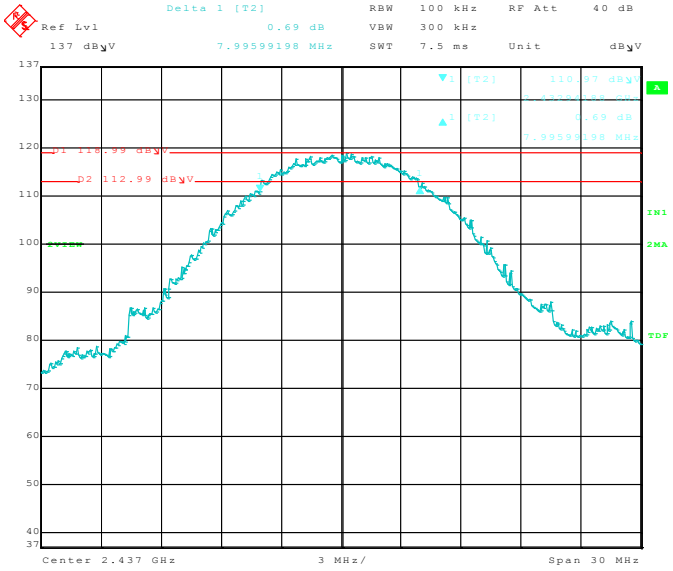
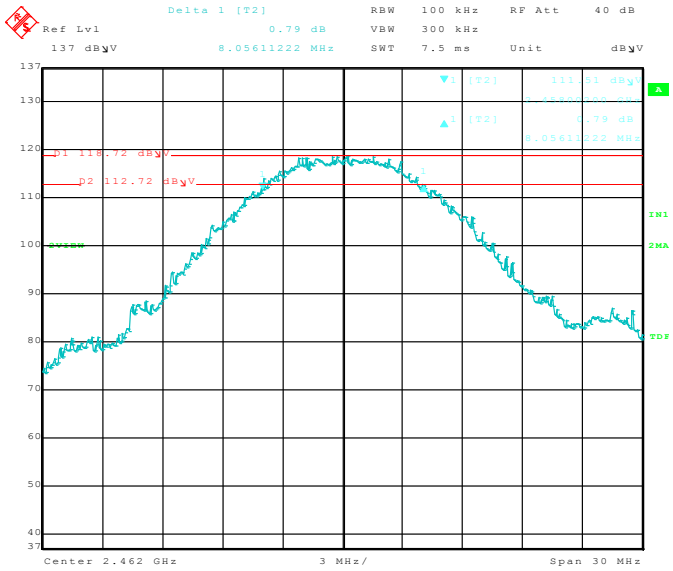
Comment A: 6dB Bandwidth, b mode, Channel 1, ant 0.
Date: 4.FEB.2013 14:38:08

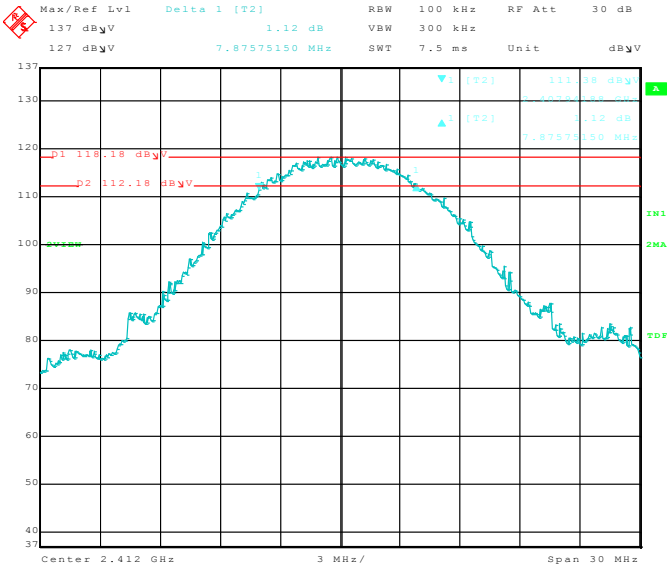


Title: RDS7
Comment A: 6dB Bandwidth, b mode, Channel 6, ant 0.
Date: 4.FEB.2013 14:40:50

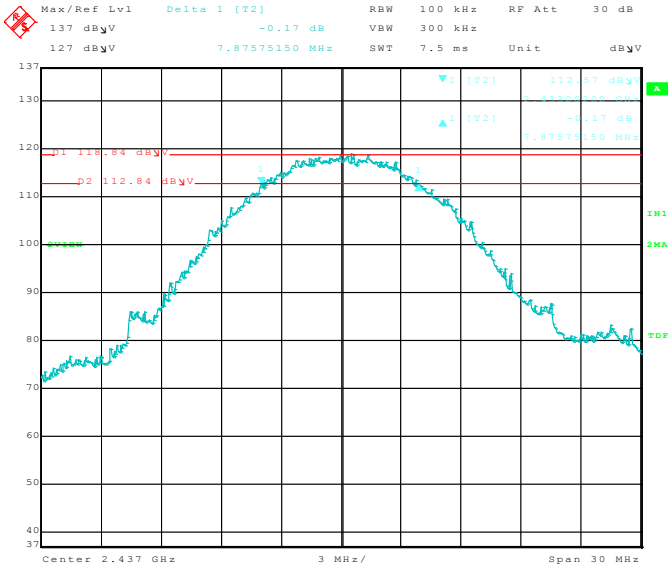


Title: RDS7
Comment A: 6dB Bandwidth, b mode, Channel 11, ant 0.
Date: 4.FEB.2013 14:54:32

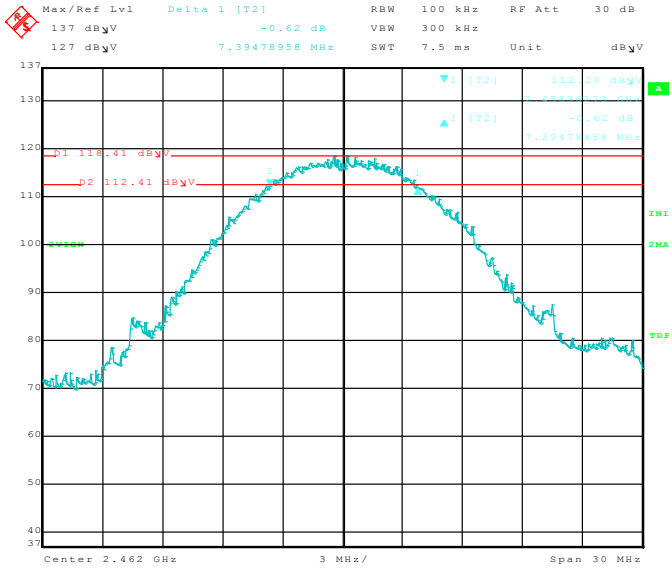
6dB Bandwidth 802.11b Antenna 1



Title: RDS7
Comment A: 6dB Bandwidth, b mode, Channel 1, ant 1.
Date: 4.FEB.2013 13:02:21

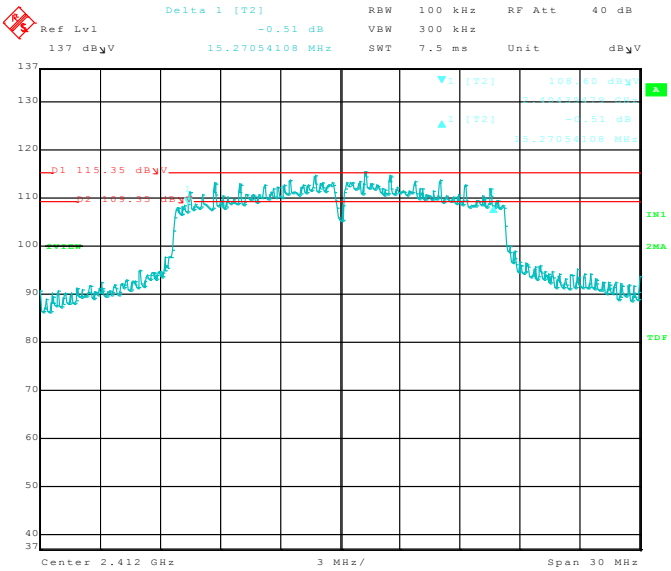


Title: RDS7
Comment A: 6dB Bandwidth, b mode, Channel 6, ant 1.
Date: 4.FEB.2013 13:07:08

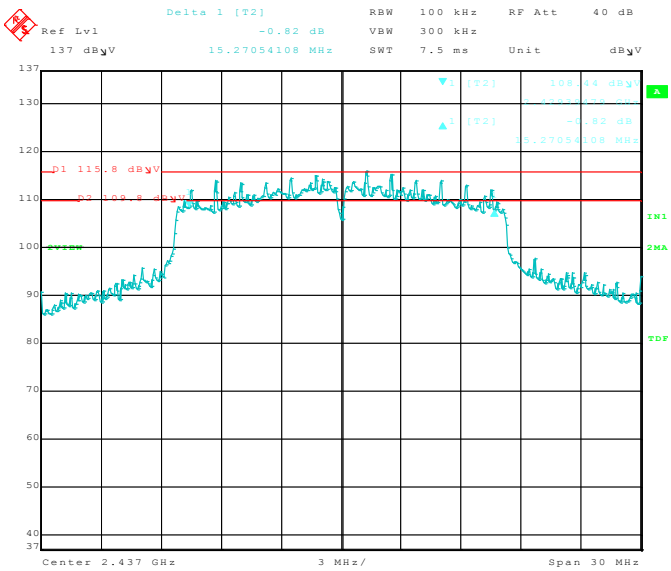


Title: RDS7
Comment A: 6dB Bandwidth, b mode, Channel 11, ant 1.
Date: 4.FEB.2013 13:24:51

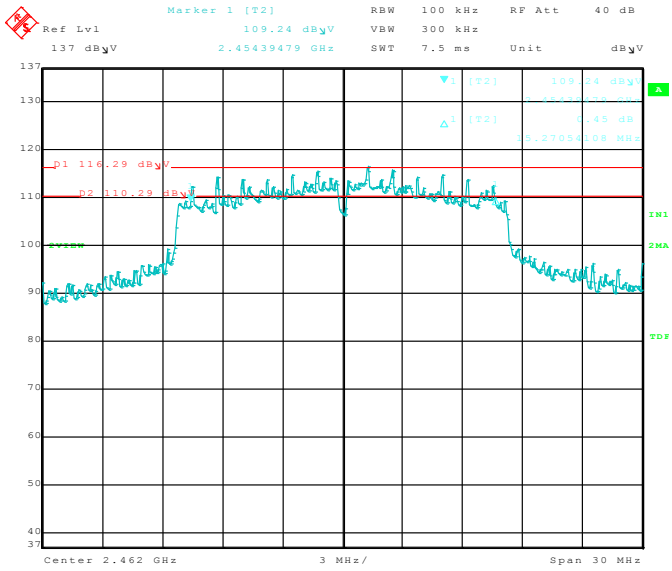
6dB Bandwidth 802.11g Antenna 0



Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 1, ant 0.
Date: 4.FEB.2013 15:13:36

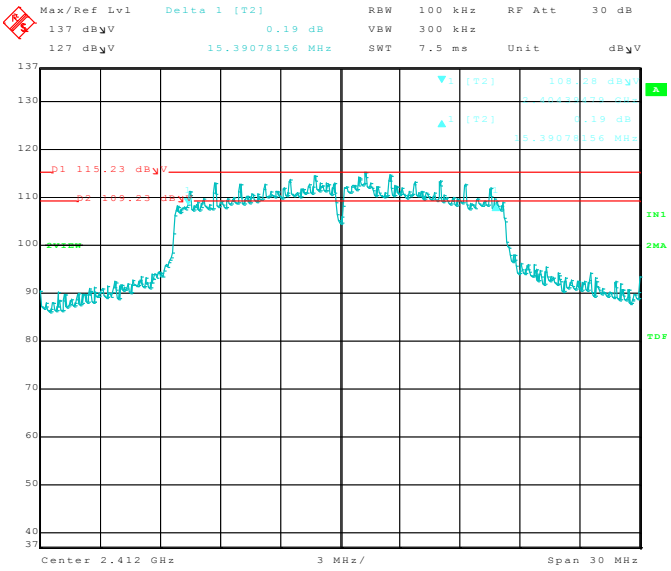


Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 6, ant 0.
Date: 4.FEB.2013 15:09:12

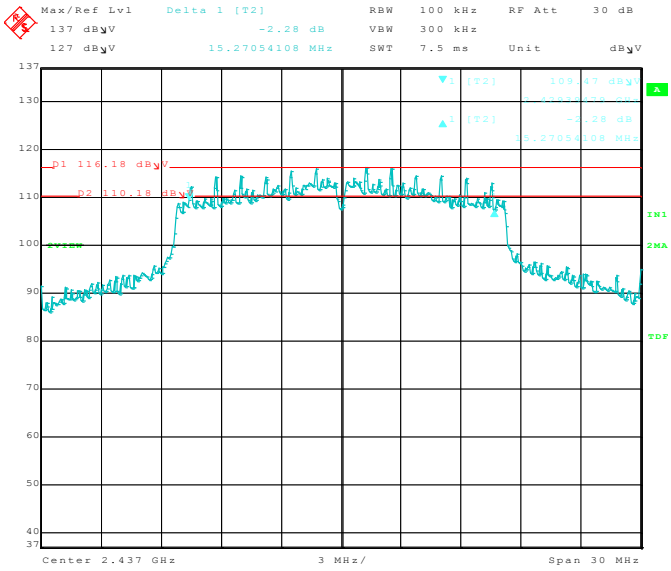


Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 11, ant 0.
Date: 4.FEB.2013 15:24:45

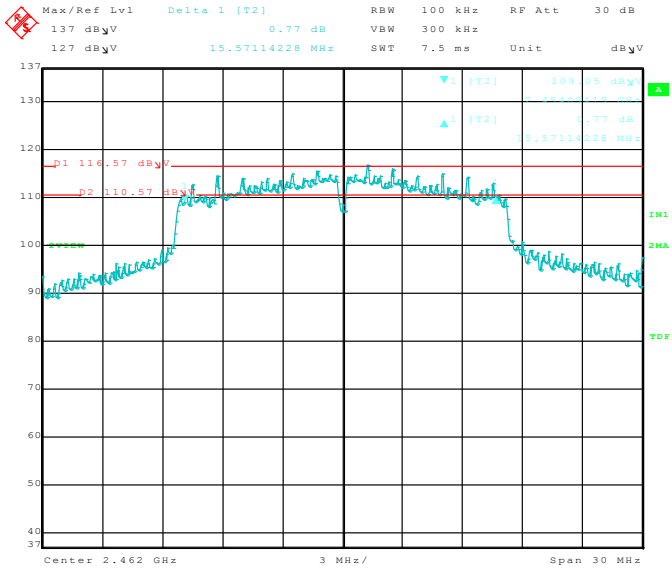
6dB Bandwidth 802.11g Antenna 1



Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 1, ant 1.
Date: 4.FEB.2013 13:35:14



Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 6, ant 1.
Date: 4.FEB.2013 13:32:19



Title: RDS7
Comment A: 6dB Bandwidth, g mode, Channel 11, ant 1.
Date: 4.FEB.2013 13:28:22

BAND EDGE (802.11a)

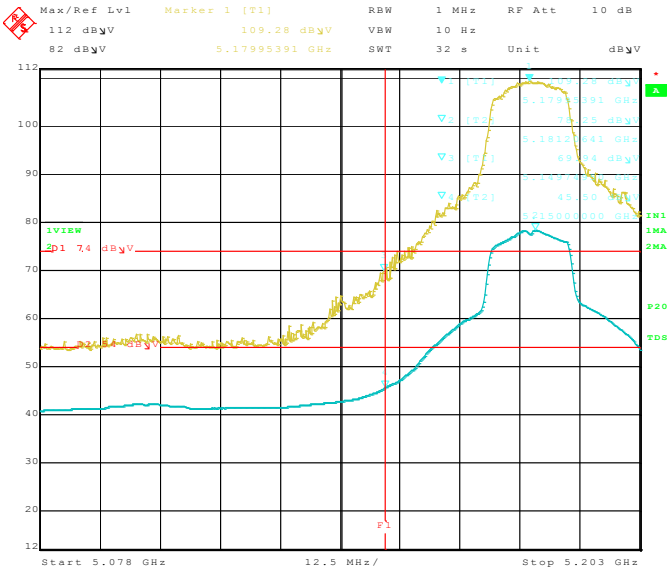
FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a, Ant0, TxPwr 50

Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

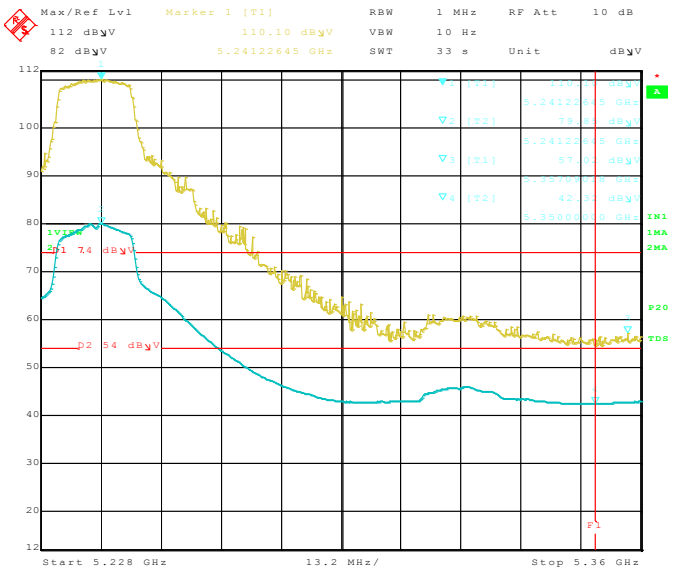
Channel 36 - 802.11 a Mode - Band Edge
Channel 48 - 802.11 a Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180		V	--	--	Peak	1.00	244	Fundamental of Channel 36
5180		V	--	--	Avg	1.00	244	
5149	69.94	V	73.98	-4.04	Peak	1.00	244	No Marker Delta
5150	45.50	V	53.98	-8.48	Avg	1.00	244	Method Used
5240		V	--	--	Peak	1.00	244	Fundamental of Channel 48
5240		V	--	--	Avg	1.00	244	
5350	57.02	V	73.98	-16.96	Peak	1.00	244	No Marker Delta
5350	42.32	V	53.98	-11.66	Avg	1.00	244	Method Used

Test Distance
3 Meters



Title: RDS7
Comment A: Lower Band Edge, 802.11a, Ant 1, TxPwr 50, Ch. 36, Vertical.
Date: 7.FEB.2013 14:13:01



Title: RDS7
Comment A: Upper Band Edge, 802.11a, Ant 0, TxPwr 50, Ch. 36, Vertical.
Date: 7.FEB.2013 14:48:54

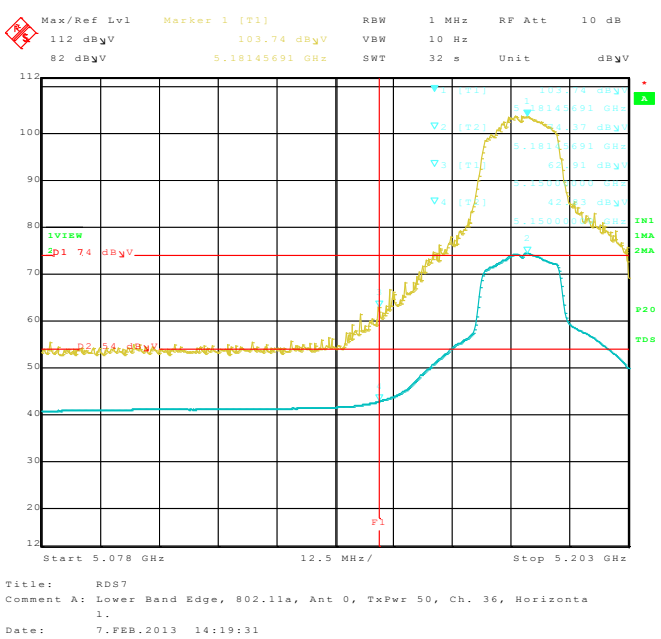
FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a, Ant0, TxPwr 50

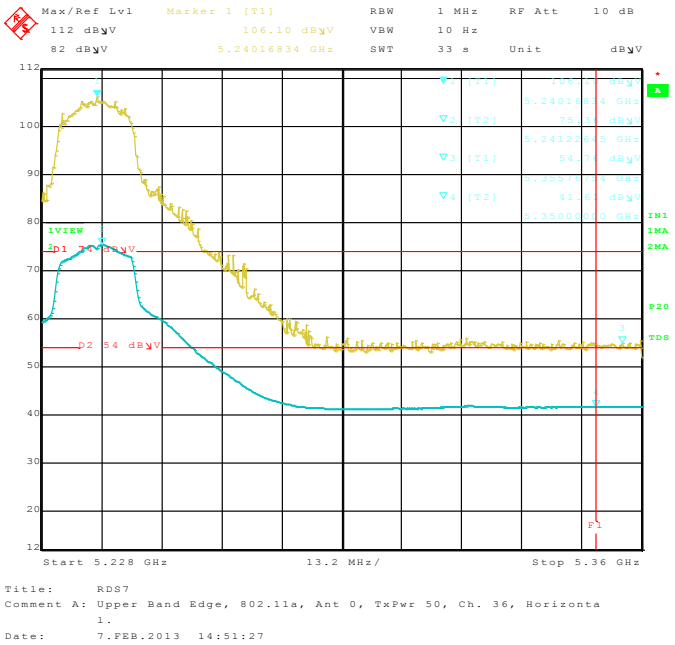
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11 a Mode - Band Edge
Channel 48 - 802.11 a Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180		H	--	--	Peak	1.00	150	Fundamental of Channel 36
5180		H	--	--	Avg	1.00	150	@ 3 meters
5150	62.91	H	73.98	-11.07	Peak	1.00	150	No Marker Delta
5150	42.83	H	53.98	-11.15	Avg	1.00	150	Method Used
5240		H	--	--	Peak	1.00	150	Fundamental of Channel 48
5240		H	--	--	Avg	1.00	150	@ 3 meters
5350	54.76	H	73.98	-19.22	Peak	1.00	150	No Marker Delta
5350	41.61	H	53.98	-12.37	Avg	1.00	150	Method Used

Test Distance
3 Meters





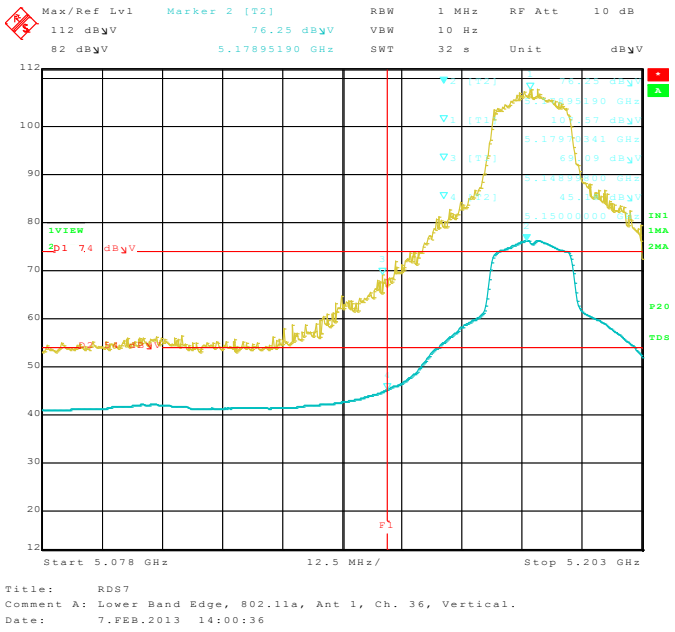
FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a, Ant1, TxPwr 50

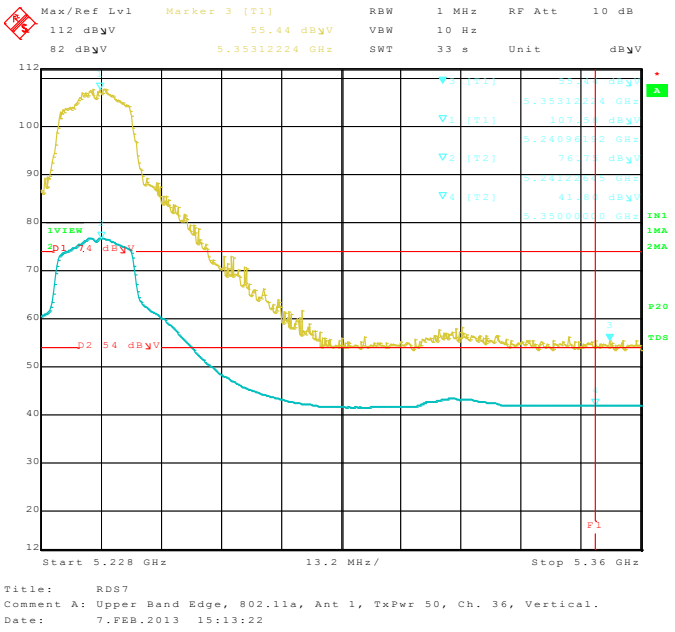
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11 a Mode - Band Edge
Channel 48 - 802.11 a Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180		V	--	--	Peak	1.00	213	Fundamental of Channel 36
5180		V	--	--	Avg	1.00	213	
5148	69.09	V	73.98	-4.89	Peak	1.00	213	No Marker Delta
5150	45.18	V	53.98	-8.80	Avg	1.00	213	Method Used
5240		V	--	--	Peak	1.00	215	Fundamental of Channel 11
5240		V	--	--	Avg	1.00	215	
5353	55.44	V	73.98	-18.54	Peak	1.00	215	No Marker Delta
5350	41.80	V	53.98	-12.18	Avg	1.00	215	Method Used

Test Distance
3 Meters





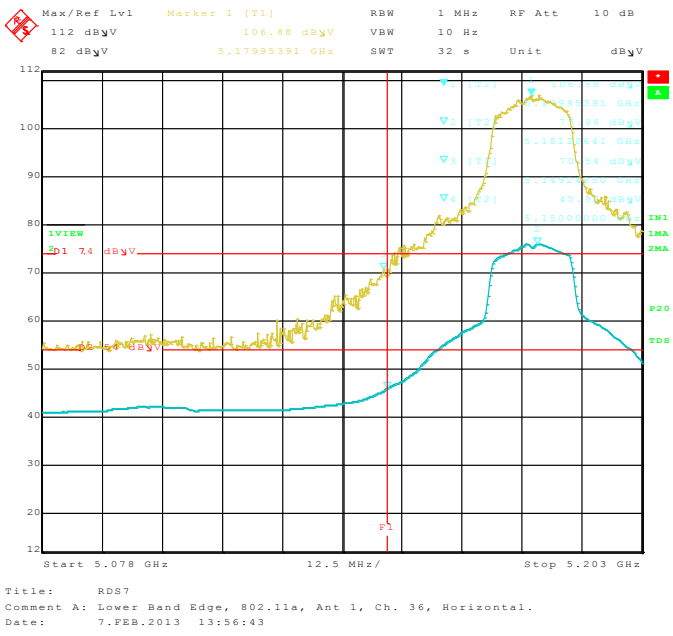
FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a, TxPwr 50

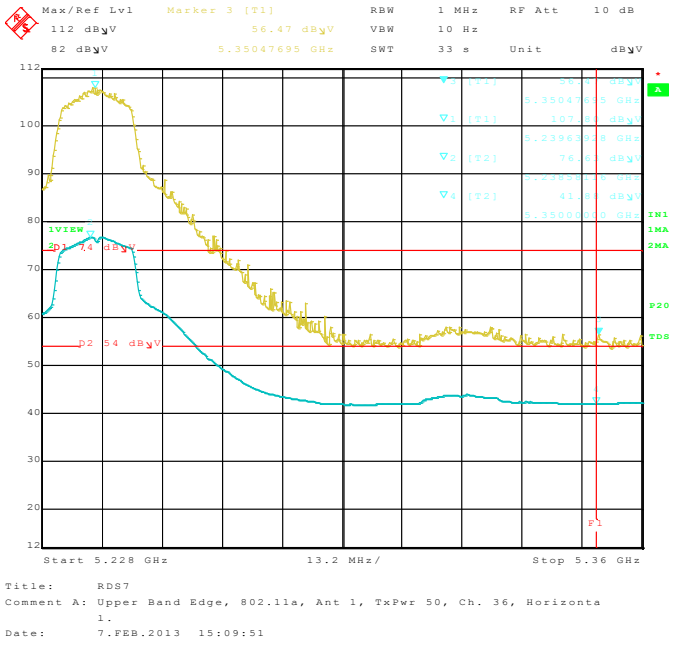
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11 a Mode - Band Edge
Channel 48 - 802.11 a Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180		H	--	--	Peak	1.47	196	Fundamental of Channel 36
5180		H	--	--	Avg	1.47	196	
5149	70.54	H	73.98	-3.44	Peak	1.47	196	No Marker Delta
5150	45.92	H	53.98	-8.06	Avg	1.47	196	Method Used
5240		H	--	--	Peak	1.35	164	Fundamental of Channel 48
5240		H	--	--	Avg	1.35	164	
5350	56.47	H	73.98	-17.51	Peak	1.35	164	No Marker Delta
5350	41.88	H	53.98	-12.10	Avg	1.35	164	Method Used

Test Distance
3 Meters





BAND EDGE (802.11b)

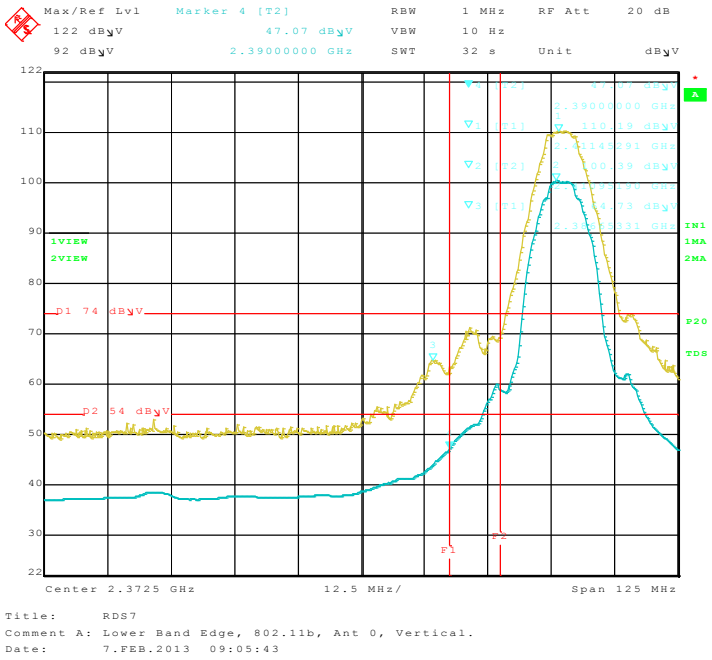
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11b

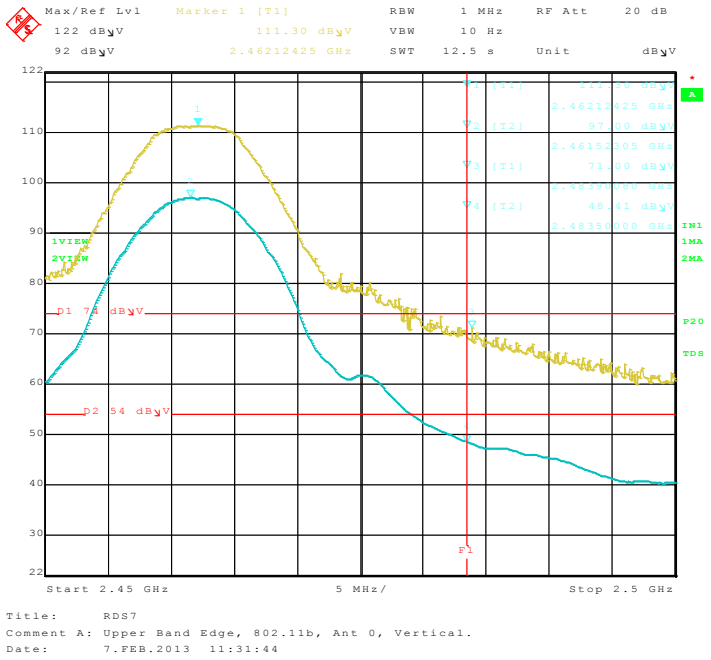
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11 b Mode - Band Edge
Channel 11 - 802.11 b Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		V	--	--	Peak	1.20	290	Fundamental of Channel 1
2412		V	--	--	Avg	1.20	290	
2389	64.73	V	73.98	-9.25	Peak	1.20	290	No Marker Delta
2390	47.07	V	53.98	-6.91	Avg	1.20	290	Method Used
2462		V	--	--	Peak	1.00	292	Fundamental of Channel 11
2462		V	--	--	Avg	1.00	292	
2488	71.00	V	73.98	-2.98	Peak	1.00	292	No Marker Delta
2483.5	48.41	V	53.98	-5.57	Avg	1.00	292	Method Used

Test Distance
3 Meters





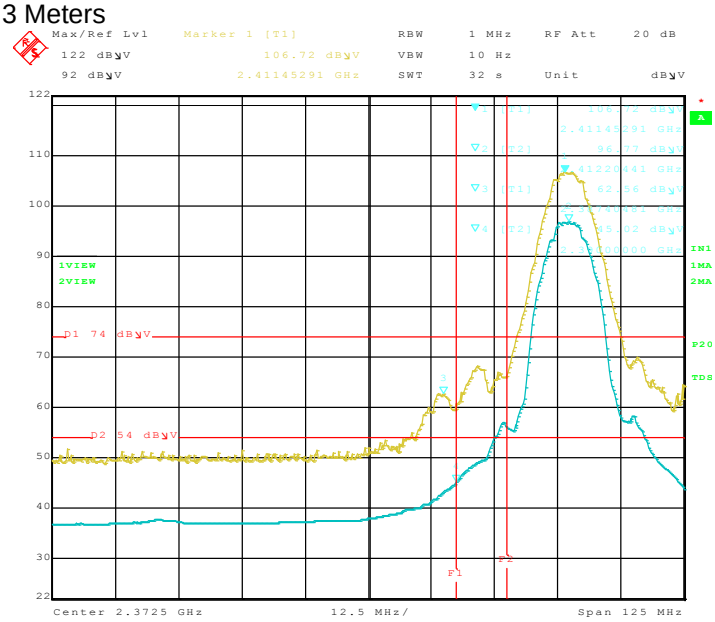
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11b

Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

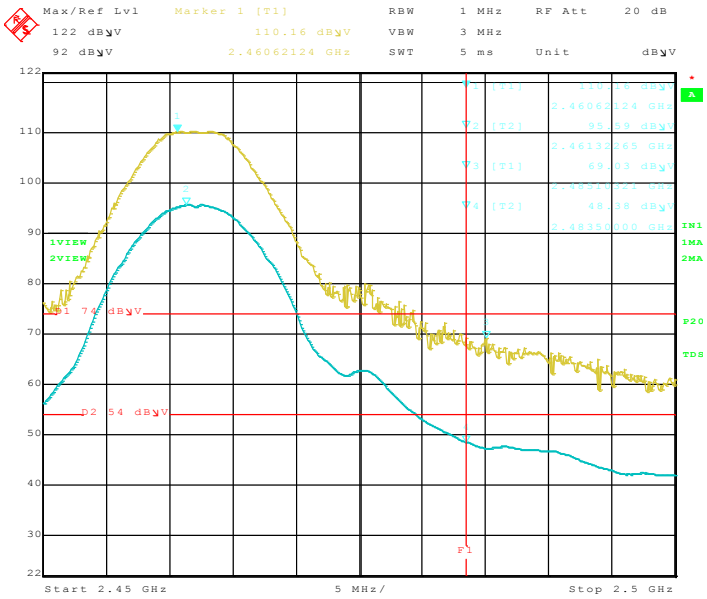
Channel 1 - 802.11 b Mode - Band Edge
Channel 11 - 802.11 b Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		H	--	--	Peak	1.07	206	Fundamental of Channel 1
2412		H	--	--	Avg	1.07	206	
2386	62.56	H	73.98	-11.42	Peak	1.07	206	No Marker Delta
2390	45.02	H	53.98	-8.96	Avg	1.07	206	Method Used
2462		H	--	--	Peak	1.00	165	Fundamental of Channel 11
2462		H	--	--	Avg	1.00	165	
2485	69.03	H	73.98	-4.95	Peak	1.00	165	No Marker Delta
2483.5	48.38	H	53.98	-5.60	Avg	1.00	165	Method Used

Test Distance
3 Meters



Title: RDS7
Comment A: Lower Band Edge, 802.11b, Ant 0, Horizontal.
Date: 7.FEB.2013 08:56:19



Title: RDS7
Comment A: Upper Band Edge, 802.11b, Ant 0, Horizontal.
Date: 7.FEB.2013 11:40:25

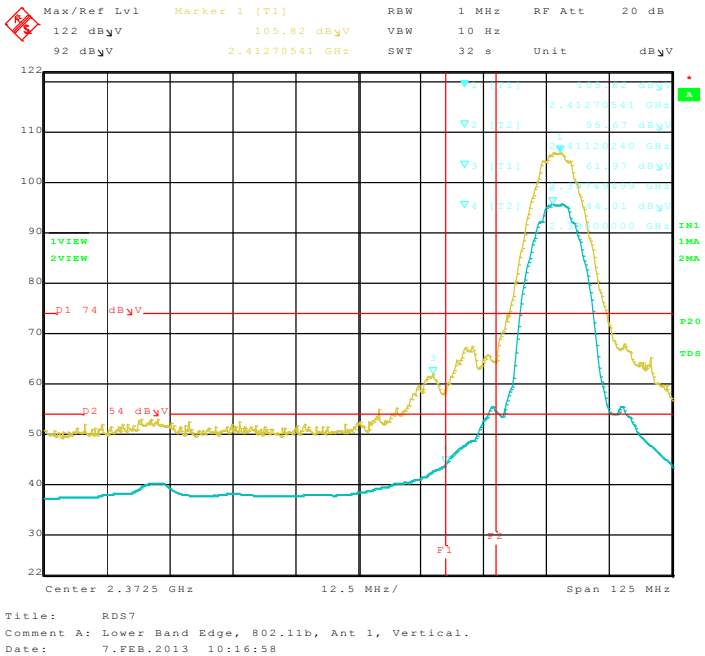
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11b

Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

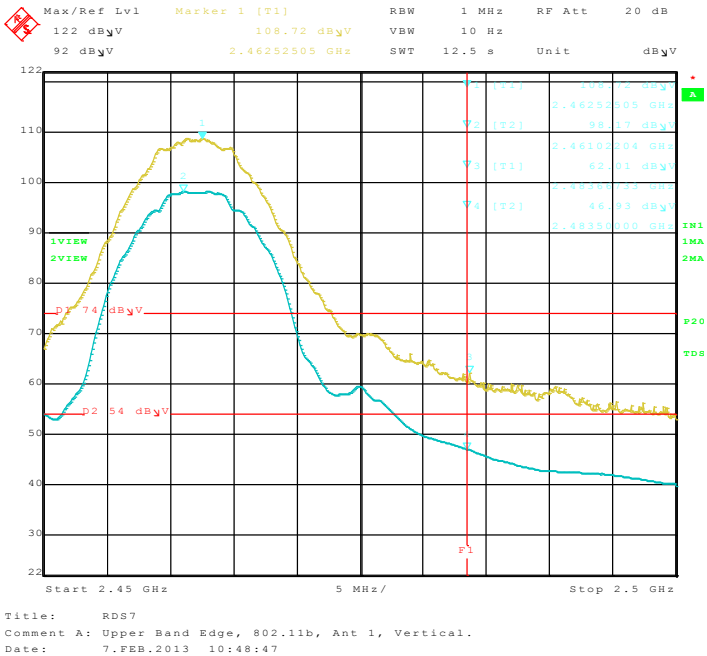
Channel 1 - 802.11 b Mode - Band Edge
Channel 11 - 802.11 b Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		V	--	--	Peak	1.55	215	Fundamental of Channel 1
2412		V	--	--	Avg	1.55	215	
2387	61.97	V	73.98	-12.01	Peak	1.55	215	No Marker Delta
2390	44.01	V	53.98	-9.97	Avg	1.55	215	Method Used
2462		V	--	--	Peak	1.50	174	Fundamental of Channel 11
2462		V	--	--	Avg	1.50	174	
2483.6	62.01	V	73.98	-11.97	Peak	1.50	174	No Marker Delta
2483.5	46.93	V	53.98	-7.05	Avg	1.50	174	Method Used

Test Distance
3 Meters



Title: RDS7
Comment A: Lower Band Edge, 802.11b, Ant 1, Vertical.
Date: 7.FEB.2013 10:16:58



Title: RDS7
Comment A: Upper Band Edge, 802.11b, Ant 1, Vertical.
Date: 7.FEB.2013 10:48:47

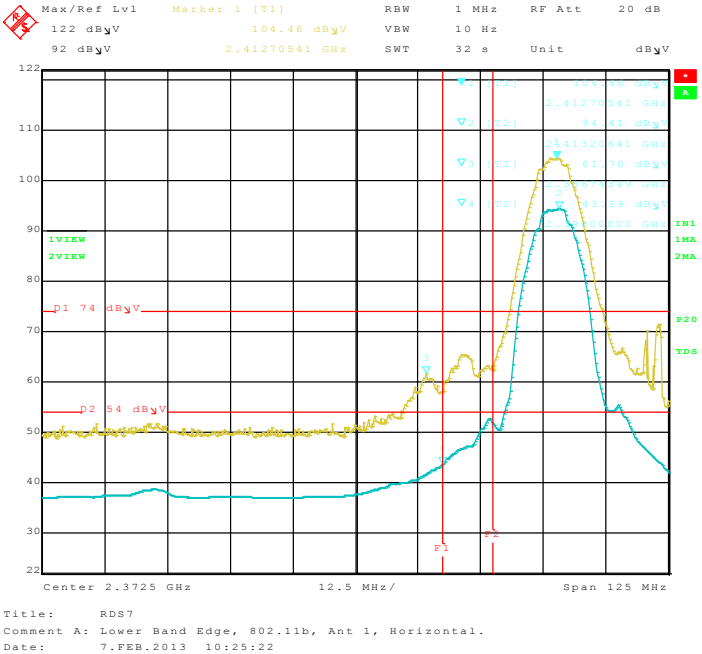
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11b

Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

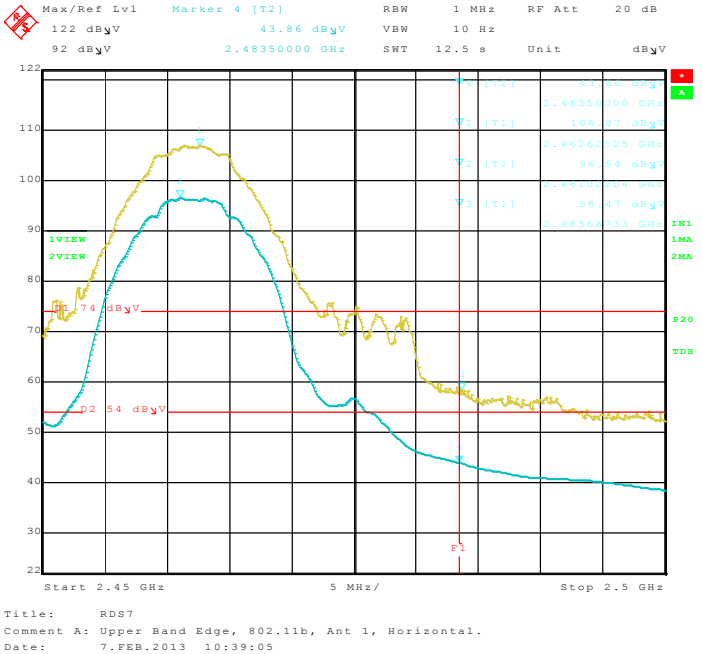
Channel 1 - 802.11 b Mode, Band Edge
Channel 11 - 802.11 b Mode, Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		H	--	--	Peak	1.20	318	Fundamental of Channel 1
2412		H	--	--	Avg	1.20	318	
2386	61.70	H	73.98	-12.28	Peak	1.20	318	No Marker Delta
2390	43.59	H	53.98	-10.39	Avg	1.20	318	Method Used
2462		H	--	--	Peak	1.00	277	Fundamental of Channel 11
2462		H	--	--	Avg	1.00	277	
2483.6	58.47	H	73.98	-15.51	Peak	1.00	277	No Marker Delta
2483.5	43.86	H	53.98	-10.12	Avg	1.00	277	Method Used

Test Distance
3 Meters



Title: RDS7
Comment A: Lower Band Edge, 802.11b, Ant 1, Horizontal.
Date: 7.FEB.2013 10:25:22



Title: RDS7
Comment A: Upper Band Edge, 802.11b, Ant 1, Horizontal.
Date: 7.FEB.2013 10:39:05

BAND EDGE (802.11g)

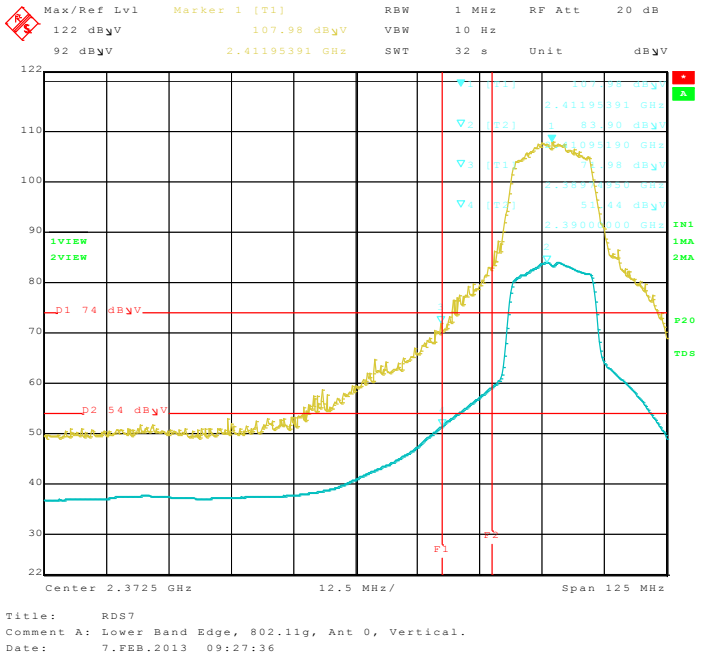
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11g, , Tx Pwr 60

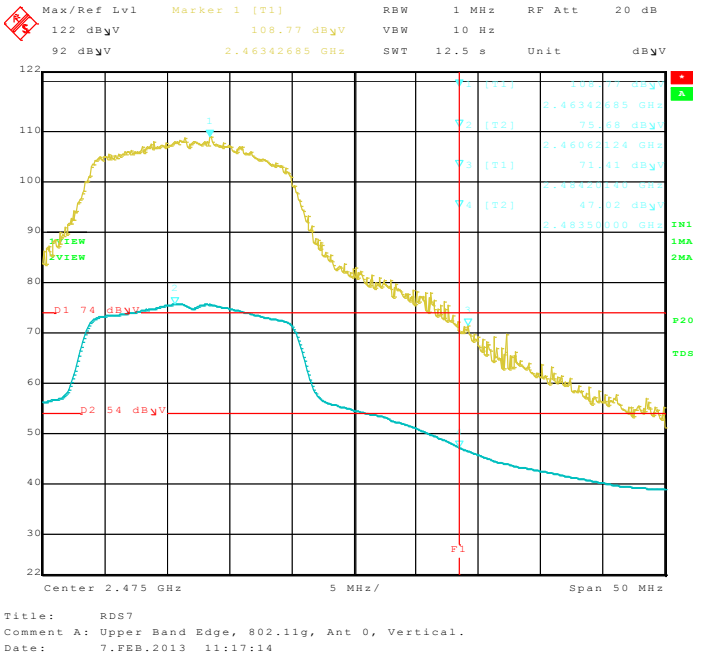
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11 g Mode - Band Edge
Channel 11 - 802.11 g Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		V	--	--	Peak	1.20	289	Fundamental of Channel 1
2412		V	--	--	Avg	1.20	289	
2389	71.98	V	73.98	-2.00	Peak	1.20	289	No Marker Delta
2390	51.44	V	53.98	-2.54	Avg	1.20	289	Method Used
2462		V	--	--	Peak	1.00	292	Fundamental of Channel 11
2462		V	--	--	Avg	1.00	292	
2484	71.41	V	73.98	-2.57	Peak	1.00	292	No Marker Delta
2483.5	47.02	V	53.98	-6.96	Avg	1.00	292	Method Used

Test Distance
3 Meters





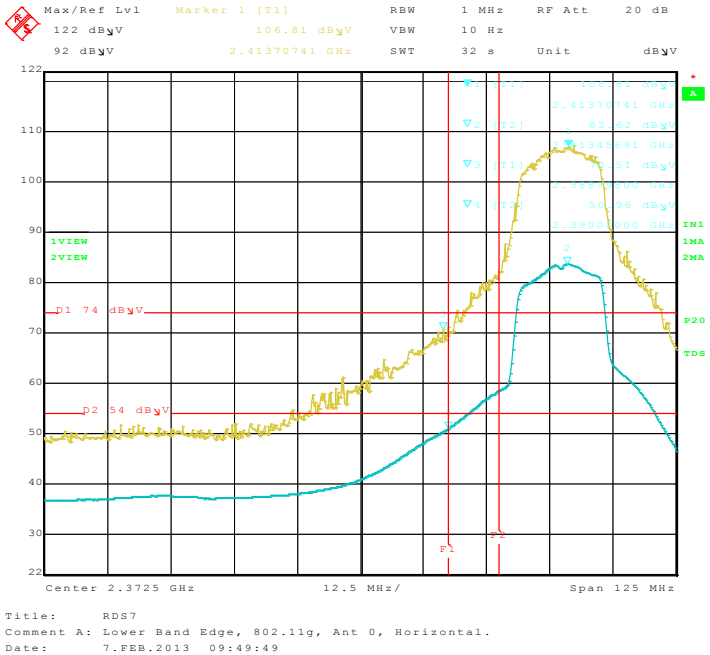
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11g, Tx Pwr 60

Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

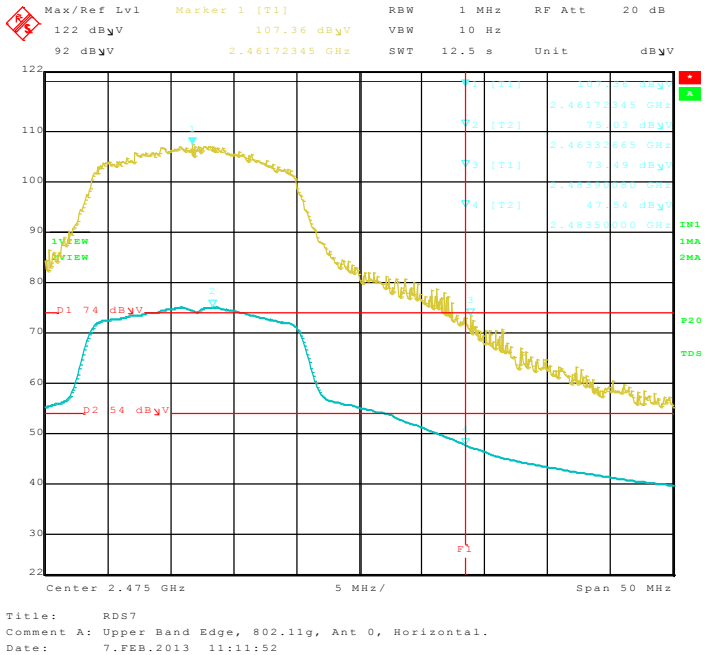
Channel 1 - 802.11 g Mode - Band Edge
Channel 11 - 802.11 g Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		H	--	--	Peak	1.03	155	Fundamental of Channel 1
2412		H	--	--	Avg	1.03	155	
2389	70.51	H	73.98	-3.47	Peak	1.03	155	No Marker Delta
2390	50.96	H	53.98	-3.02	Avg	1.03	155	Method Used
2462		H	--	--	Peak	1.20	272	Fundamental of Channel 11
2462		H	--	--	Avg	1.20	272	
2483.9	73.49	H	73.98	-0.49	Peak	1.20	272	No Marker Delta
2483.5	47.54	H	53.98	-6.44	Avg	1.20	272	Method Used

Test Distance
3 Meters



Title: RDS7
Comment A: Lower Band Edge, 802.11g, Ant 0, Horizontal.
Date: 7.FEB.2013 09:49:49



Title: RDS7
Comment A: Upper Band Edge, 802.11g, Ant 0, Horizontal.
Date: 7.FEB.2013 11:11:52

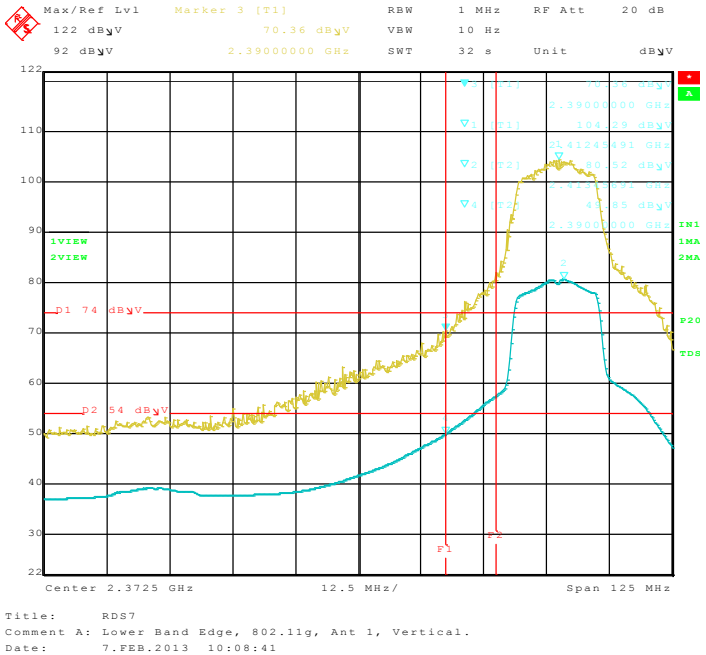
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11g, Tx Pwr 60

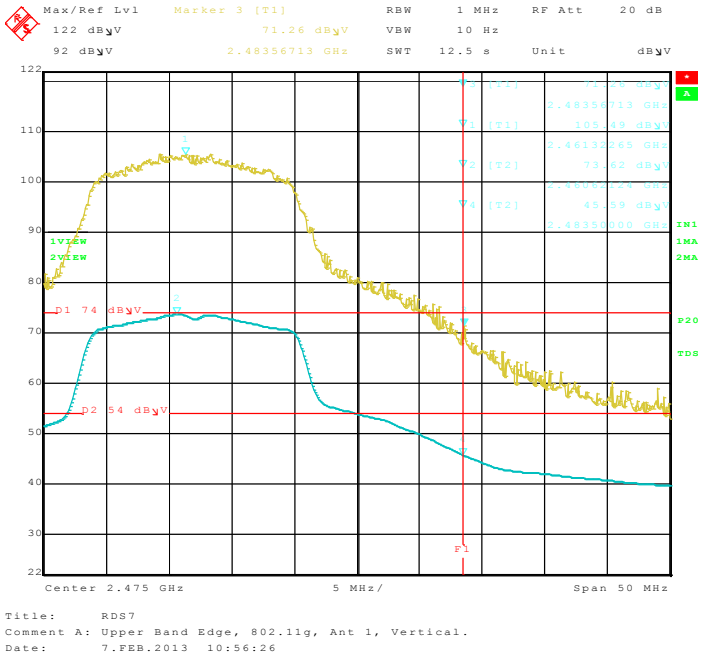
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11 g Mode - Band Edge
Channel 11 - 802.11 g Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		V	--	--	Peak	1.50	215	Fundamental of Channel 1
2412		V	--	--	Avg	1.50	215	
2390	70.36	V	73.98	-3.62	Peak	1.50	215	No Marker Delta
2390	49.85	V	53.98	-4.13	Avg	1.50	215	Method Used
2462		V	--	--	Peak	1.00	170	Fundamental of Channel 11
2462		V	--	--	Avg	1.00	170	
2483.5	71.26	V	73.98	-2.72	Peak	1.00	170	No Marker Delta
2483.5	45.59	V	53.98	-8.39	Avg	1.00	170	Method Used

Test Distance
3 Meters





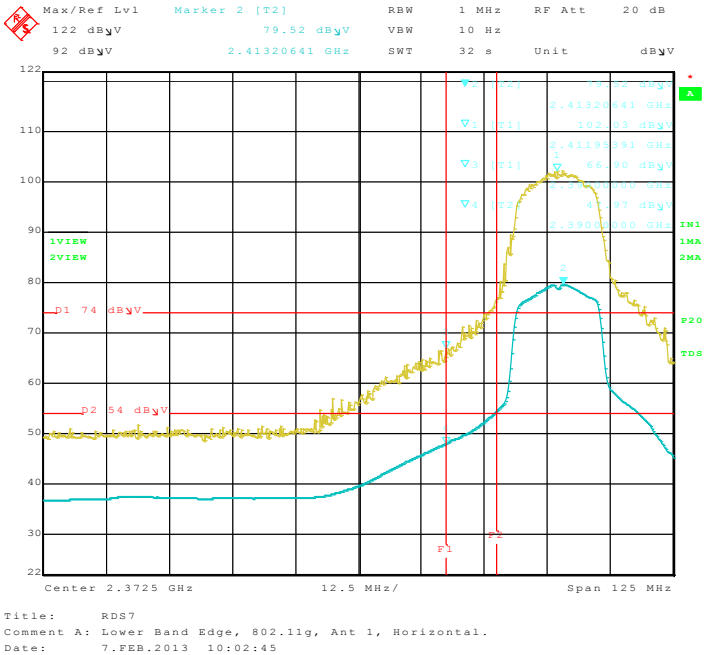
FCC 15.247
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11g, Tx Pwr 60

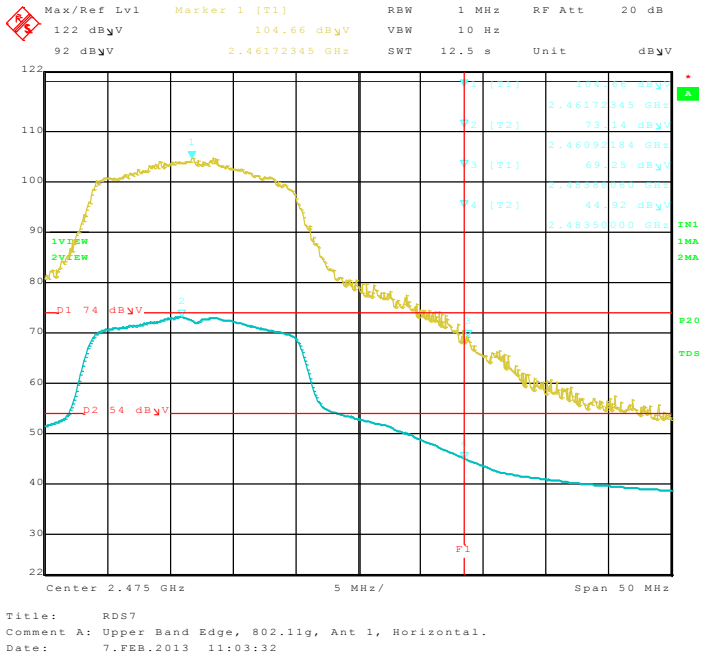
Date: 2/7/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11 g Mode - Band Edge
Channel 11 - 802.11 g Mode - Band Edge

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412		H	--	--	Peak	1.00	225	Fundamental of Channel 1
2412		H	--	--	Avg	1.00	225	
2390	66.90	H	73.98	-7.08	Peak	1.00	225	No Marker Delta
2390	47.97	H	53.98	-6.01	Avg	1.00	225	Method Used
2462		H	--	--	Peak	1.08	274	Fundamental of Channel 11
2462		H	--	--	Avg	1.08	274	
2483.8	69.25	H	73.98	-4.73	Peak	1.08	274	No Marker Delta
2483.5	44.92	H	53.98	-9.06	Avg	1.08	274	Method Used

Test Distance
3 Meters





POWER SPECTRAL DENSITY (802.11a)

FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a

Date: 2/20/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11a, Mode, Ant 0 - Power Spectral Density
Channel 40 - 802.11a, Mode, Ant 0 - Power Spectral Density
Channel 48 - 802.11a, Mode, Ant 0 - Power Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
5178.73	0.38	4.00	-3.62	RMS	txpwr 50
5201.18	-0.47	4.00	-4.47	RMS	txpwr 50
5238.70	-0.75	4.00	-4.75	RMS	txpwr 50

FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a, Ant1

Date: 2/20/2013
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11a, Mode, Ant 1 - Power Spectral Density
Channel 40 - 802.11a, Mode, Ant 1 - Power Spectral Density
Channel 48 - 802.11a, Mode, Ant 1 - Power Spectral Density

Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
5181.26	0.21	4.00	-3.79	RMS	TxPwr 50
5200.42	0.03	4.00	-3.97	RMS	TxPwr 50
5241.26	0.21	4.00	-3.79	RMS	TxPwr 50

PEAK EXCURSION (802.11a)

FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a

Date: 4/15/2014
Lab: R
Tested By: Matt Harrison

Channel 36 - 802.11a, Mode, Ant 0 – Peak Excursion
Channel 40 - 802.11a, Mode, Ant 0 - Peak Excursion
Channel 48 - 802.11a, Mode, Ant 0 - Peak Excursion

Freq. (MHz)	Peak Level (dBm)	PSD (dBm)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Comments
5180.00	6.60	0.38	6.22	13.00	-6.78	txpwr 50
5200.00	6.82	-0.47	7.29	13.00	-5.71	txpwr 50
5240.00	5.43	-0.75	6.18	13.00	-6.82	txpwr 50

FCC 15.407
Masimo
GENERAL FLOOR MONITOR
Model: RDS-7
Mode: 802.11a

Date: 4/15/2014
Lab: P
Tested By: Matt Harrison

Channel 36 - 802.11a, Mode, Ant 1 - Peak Excursion
Channel 40 - 802.11a, Mode, Ant 1 - Peak Excursion
Channel 48 - 802.11a, Mode, Ant 1 - Peak Excursion

Freq. (MHz)	Peak Level (dBm)	PSD (dBm)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Comments
5180.00	6.76	0.21	6.55	13.00	-6.45	txpwr 50
5200.00	6.98	0.03	6.95	13.00	-6.05	txpwr 50
5240.00	6.38	0.21	6.17	13.00	-6.83	txpwr 50

POWER SPECTRAL DENSITY (802.11b)

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/4/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11b, Mode, Ant 0 - Power Spectral Density
Channel 6 - 802.11b, Mode, Ant 0 - Power Spectral Density
Channel 11 - 802.11b, Mode, Ant 0 - Power Spectral Density

Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
2410.88	-3.48	8.00	-11.48	Peak	
2435.88	-2.22	8.00	-10.22	Peak	
2460.88	-3.12	8.00	-11.12	Peak	

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/4/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11b, Mode, Ant 1 - Power Spectral Density
Channel 6 - 802.11b, Mode, Ant 1 - Power Spectral Density
Channel 11 - 802.11b, Mode, Ant 1 - Power Spectral Density

Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
2411.24	-4.07	8.00	-12.07	Peak	
2436.06	-3.36	8.00	-11.36	Peak	
2463.65	-2.70	8.00	-10.70	Peak	

POWER SPECTRAL DENSITY (802.11g)

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/13/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11g, Mode, Ant 0 - Power Spectral Density
Channel 6 - 802.11g, Mode, Ant 0 - Power Spectral Density
Channel 11 - 802.11g, Mode, Ant 0 - Power Spectral Density

Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
2410.70	-5.92	8.00	-13.92	Peak	TxPwr 60
2438.89	-9.00	8.00	-17.00	Peak	TxPwr 60
2462.63	-7.62	8.00	-15.62	Peak	TxPwr 60

FCC 15.247

Masimo
GENERAL FLOOR MONITOR
Model: RDS-7

Date: 2/13/2013
Lab: P
Tested By: Matt Harrison

Channel 1 - 802.11g, Mode, Ant 1 - Power Spectral Density
Channel 6 - 802.11g, Mode, Ant 1 - Power Spectral Density
Channel 11 - 802.11g, Mode, Ant 1 - Power Spectral Density

Spectral Density

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Peak / QP / Avg	Comments
2413.59	-8.93	8.00	-16.93	Peak	TxPwr 60
2439.49	-8.71	8.00	-16.71	Peak	TxPwr 60
2460.70	-8.10	8.00	-16.10	Peak	TxPwr 60