

Geissler Companies, LLC

Whisper Rx Model 101

Report No. LGPD0048

Report Prepared By



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

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: November 23, 2011
Geissler Companies, LLC
Model: Whisper Rx

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2011	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.249:2011	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2011	ANSI C63.10:2009	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

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

Northwest EMC, Inc.
9349 W Broadway Ave.
Brooklyn Park, MN 55445

Phone: (763) 425-2281 Fax: (763) 424-3469

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

Approved By:

Tim O'Shea, Operations Manager



NVLAP Lab Code: 200881-0

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

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

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

FCC

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

NVLAP

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

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)

CAB

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

Australia/New Zealand

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



Accreditations and Authorizations

VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-3265, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634.*)

BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017).

GOST

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

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175*)

VIETNAM

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

SCOPE

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

<http://www.nwemc.com/accreditations/>



Northwest EMC Locations



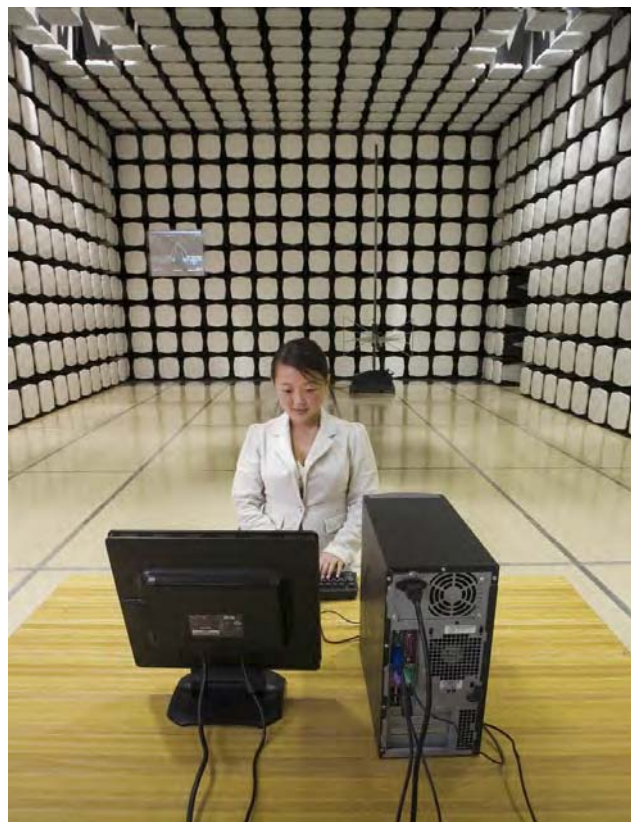
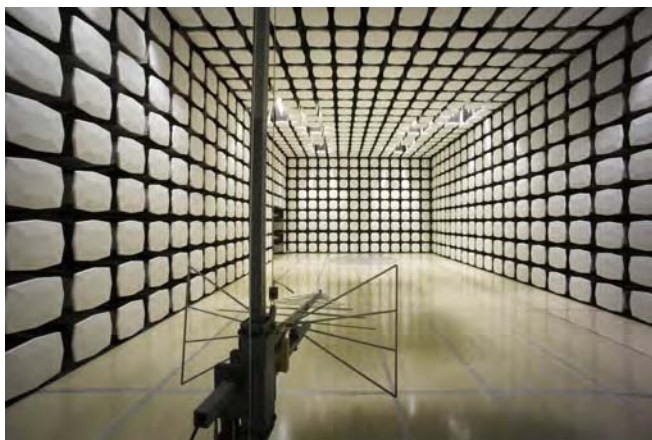
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
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California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
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Minnesota
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9349 W Broadway Ave.
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Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

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



Party Requesting the Test

Company Name:	Geissler Companies, LLC
Address:	15665 Medina Rd
City, State, Zip:	Minneapolis, MN 55447
Test Requested By:	Steve Lewis - Logic Product Development
Model:	Whisper Rx
First Date of Test:	November 22, 2011
Last Date of Test:	November 23, 2011
Receipt Date of Samples:	November 22, 2011
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

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

2.4 GHz transceiver used as part of a Veterinary Stethoscope system.

Testing Objective:

To demonstrate compliance to FCC 15.249 specifications

CONFIGURATION 2 LGPD0048**Software/Firmware Running during test**

Description	Version
Branch stethoscope_usb_rx_RF_Test_Realistic_TX_Duty_Cycle	None
Tag stethoscope_usb_rx_23Nov11_for_RF_Test	None

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Whisper Rx	Logic Product Development	101	1

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
DC Power Supply	EZ Digital Co	GP-4303D	0907005

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.8m	No	Whisper Rx Veterinary Stethoscope	DC Power Supply
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	11/22/2011	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	11/22/2011	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	11/23/2011	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

MODES OF OPERATION

Transmitting 1 Mbps, Low Ch 2.402 GHz, Mid Ch 2.440 GHz, High Ch 2.478 GHz (See Comments)

POWER SETTINGS INVESTIGATED

USB

CONFIGURATIONS INVESTIGATED

LGPD0048 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency	2400 MHz	Stop Frequency	2483.5 MHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	10/18/2011	12
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	12 mo

MEASUREMENT BANDWIDTHS

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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009).

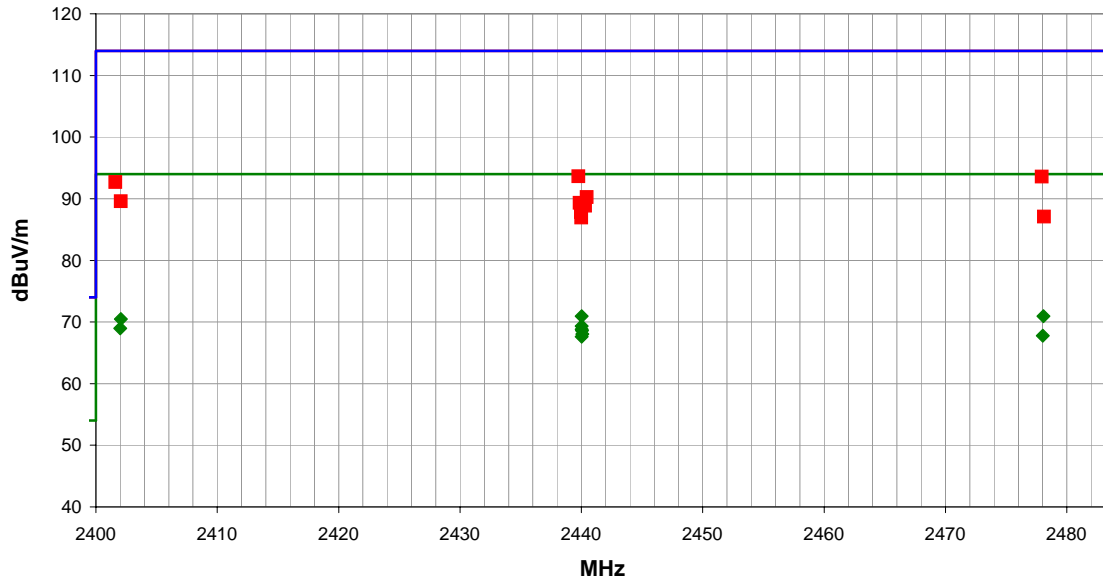
EMC

Field Strength of Fundamental

Work Order:	LGPD0048	Date:	11/22/11	<i>Trevor Buls</i> Tested by: Bryan Weller
Project:	None	Temperature:	23.34 °C	
Job Site:	MN05	Humidity:	20% RH	
Serial Number:	1	Barometric Pres.:	1027.1 mbar	
EUT:	Whisper Rx			
Configuration:	2			
Customer:	Logic Product Development			
Attendees:	None			
EUT Power:	USB			
Operating Mode:	Transmitting 1 Mbps, Low Ch 2.402 GHz, Mid Ch 2.440 GHz, High Ch 2.478 GHz (See Comments)			
Deviations:	None			
Comments:	Device was configured using a duty cycle closer to the normal usage.			

Test Specifications
FCC 15.249:2011Test Method
ANSI C63.10:2009

Run #	3	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2439.753	59.7	33.9	1.0	343.0	3.0	0.0	Vert	PK	0.0	93.6	114.0	-20.4	EUT Vertical, Mid channel
2477.949	59.4	34.2	1.0	345.0	3.0	0.0	Vert	PK	0.0	93.6	114.0	-20.4	EUT Vertical, High channel
2401.617	59.0	33.7	1.0	342.0	3.0	0.0	Vert	PK	0.0	92.7	114.0	-21.3	EUT Vertical, Low channel
2478.076	36.8	34.2	1.0	345.0	3.0	0.0	Vert	AV	0.0	71.0	94.0	-23.0	EUT Vertical, High channel
2440.033	37.0	33.9	1.0	343.0	3.0	0.0	Vert	AV	0.0	70.9	94.0	-23.1	EUT Vertical, Mid channel
2402.052	36.8	33.7	1.0	342.0	3.0	0.0	Vert	AV	0.0	70.5	94.0	-23.5	EUT Vertical, Low channel
2440.457	56.3	33.9	1.0	10.0	3.0	0.0	Horz	PK	0.0	90.2	114.0	-23.8	EUT Horizontal, Mid channel
2402.055	55.9	33.7	1.2	8.0	3.0	0.0	Horz	PK	0.0	89.6	114.0	-24.4	EUT Horizontal, Low channel
2440.021	35.4	33.9	1.0	10.0	3.0	0.0	Horz	AV	0.0	69.3	94.0	-24.7	EUT Horizontal, Mid channel
2439.853	55.4	33.9	1.0	356.0	3.0	0.0	Vert	PK	0.0	89.3	114.0	-24.7	EUT Horizontal, Mid channel
2402.012	35.3	33.7	1.2	8.0	3.0	0.0	Horz	AV	0.0	69.0	94.0	-25.0	EUT Horizontal, Low channel
2440.020	34.9	33.9	1.0	356.0	3.0	0.0	Vert	AV	0.0	68.8	94.0	-25.2	EUT Horizontal, Mid channel
2440.307	54.9	33.9	1.0	30.0	3.0	0.0	Horz	PK	0.0	88.8	114.0	-25.2	EUT on side, Mid Channel
2440.047	34.7	33.9	1.0	30.0	3.0	0.0	Horz	AV	0.0	68.6	94.0	-25.4	EUT on side, Mid Channel
2440.073	34.1	33.9	1.0	35.0	3.0	0.0	Vert	AV	0.0	68.0	94.0	-26.0	EUT on side, Mid Channel
2439.960	53.9	33.9	1.0	35.0	3.0	0.0	Vert	PK	0.0	87.8	114.0	-26.2	EUT on side, Mid Channel
2478.029	33.6	34.2	1.0	34.0	3.0	0.0	Horz	AV	0.0	67.8	94.0	-26.2	EUT Horizontal, High channel
2440.033	33.7	33.9	1.0	36.0	3.0	0.0	Horz	AV	0.0	67.6	94.0	-26.4	EUT Vertical, Mid channel
2478.127	52.9	34.2	1.0	34.0	3.0	0.0	Horz	PK	0.0	87.1	114.0	-26.9	EUT Horizontal, High channel
2440.000	53.0	33.9	1.0	36.0	3.0	0.0	Horz	PK	0.0	86.9	114.0	-27.1	EUT Vertical, Mid channel

EMC**Spurious Radiated Emissions**

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

MODES OF OPERATION

Transmitting 1 Mbps, Low Ch - 2402 MHz, Mid Ch - 2440 MHz, High Ch - 2478 MHz (See comments).

POWER SETTINGS INVESTIGATED

USB

CONFIGURATIONS INVESTIGATED

LGPD0048 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	25 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 20 dB, 'SMA'	SM Electronics	SA6-20	REO	7/1/2011	12 mo
Low Pass Filter	Micro-Tronics	LPM50004	HGK	7/9/2010	24 mo
High Pass Filter	Micro-Tronics	HPM50111	HGQ	7/9/2010	24 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	4/15/2011	12 mo
Antenna, Horn	ETS	3160-09	AHG	NCR	0 mo
MN05 Cables	N/A	18-26GHz Standard Gain Horn Cable	EVD	4/15/2011	12 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	7/1/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	10/18/2011	12 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	7/1/2011	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	AVY	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	2/2/2011	12 mo
Antenna, Biconilog	ETS Lindgren	3142D	AXN	12/30/2009	24 mo
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	12 mo

MEASUREMENT BANDWIDTHS

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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

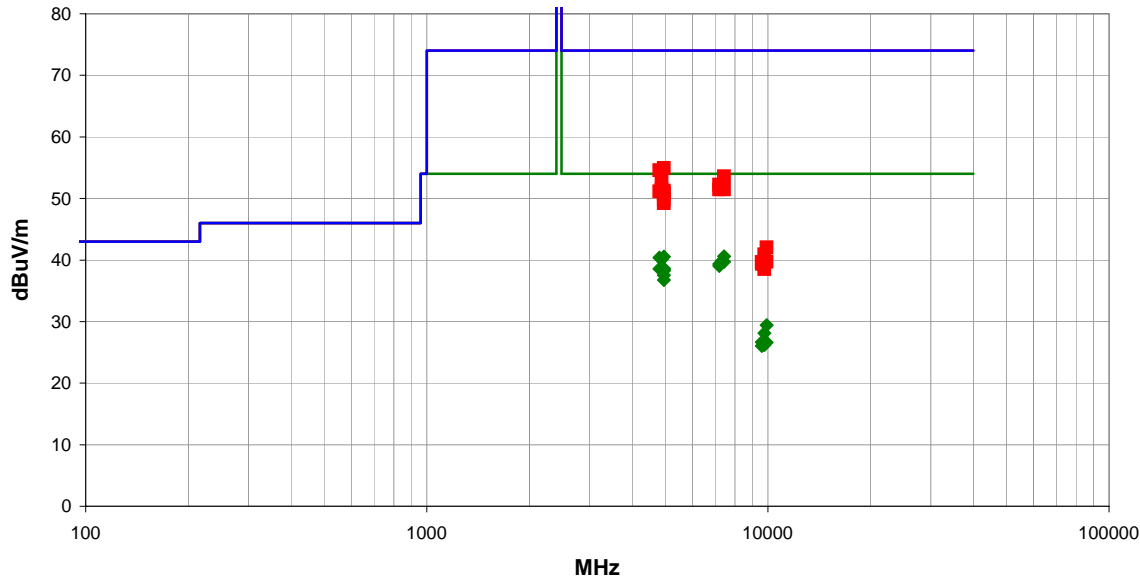
EMC

Spurious Radiated Emissions

Work Order:	LGPD0048	Date:	11/23/11	<i>Trevor Buls</i>
Project:	None	Temperature:	24.11 °C	
Job Site:	MN05	Humidity:	24.0 % RH	
Serial Number:	1	Barometric Pres.:	1019.1 mbar	Tested by: Trevor Buls
EUT:	Whisper Rx			
Configuration:	2			
Customer:	Logic Product Development			
Attendees:	None			
EUT Power:	USB			
Operating Mode:	Transmitting 1 Mbps, Low Ch - 2402 MHz, Mid Ch - 2440 MHz, High Ch - 2478 MHz (See comments).			
Deviations:	None			
Comments:	Device configured with Normal duty cycle.			

Test Specifications
FCC 15.249:2011Test Method
ANSI C63.10:2009

Run #	31	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7434.033	28.0	12.6	1.0	61.0	3.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	EUT Horizontal, High
4956.044	35.6	4.9	1.1	10.0	3.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	EUT Horizontal, High
4804.049	36.0	4.4	1.0	323.0	3.0	0.0	Horz	AV	0.0	40.4	54.0	-13.6	EUT Horizontal, Low
4880.072	35.4	4.7	1.1	325.0	3.0	0.0	Horz	AV	0.0	40.1	54.0	-13.9	EUT Horizontal, Mid
7320.267	27.7	12.1	1.0	68.0	3.0	0.0	Horz	AV	0.0	39.8	54.0	-14.2	EUT Horizontal, Mid
7320.050	27.6	12.1	1.0	30.0	3.0	0.0	Vert	AV	0.0	39.7	54.0	-14.3	EUT Horizontal, Mid
7434.067	27.1	12.6	1.0	41.0	3.0	0.0	Vert	AV	0.0	39.7	54.0	-14.3	EUT Horizontal, High
7206.050	27.8	11.6	1.0	10.0	3.0	0.0	Vert	AV	0.0	39.4	54.0	-14.6	EUT Horizontal, Low
7204.267	27.5	11.6	3.6	339.0	3.0	0.0	Horz	AV	0.0	39.1	54.0	-14.9	EUT Horizontal, Low
4880.022	34.0	4.7	1.1	14.0	3.0	0.0	Vert	AV	0.0	38.7	54.0	-15.3	EUT Horizontal, Mid
4956.086	33.7	4.9	1.3	26.0	3.0	0.0	Vert	AV	0.0	38.6	54.0	-15.4	EUT on Side, High
4804.116	34.2	4.4	1.0	19.0	3.0	0.0	Vert	AV	0.0	38.6	54.0	-15.4	EUT Horizontal, Low
4956.027	33.5	4.9	1.0	41.0	3.0	0.0	Horz	AV	0.0	38.4	54.0	-15.6	EUT Vertical, High
4956.027	33.3	4.9	1.0	324.0	3.0	0.0	Horz	AV	0.0	38.2	54.0	-15.8	EUT on Side, High
4956.036	32.6	4.9	1.0	39.0	3.0	0.0	Vert	AV	0.0	37.5	54.0	-16.5	EUT Horizontal, High
4956.061	31.8	4.9	1.0	359.0	3.0	0.0	Vert	AV	0.0	36.7	54.0	-17.3	EUT Vertical, High
4955.802	50.0	4.9	1.1	10.0	3.0	0.0	Horz	PK	0.0	54.9	74.0	-19.1	EUT Horizontal, High
4804.324	50.2	4.4	1.0	323.0	3.0	0.0	Horz	PK	0.0	54.6	74.0	-19.4	EUT Horizontal, Low
7433.667	41.0	12.6	1.0	61.0	3.0	0.0	Horz	PK	0.0	53.6	74.0	-20.4	EUT Horizontal, High
4879.938	48.7	4.7	1.1	325.0	3.0	0.0	Horz	PK	0.0	53.4	74.0	-20.6	EUT Horizontal, Mid

CONDUCTED EMISSIONS

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

MODES OF OPERATION

Transmitting high channel, 2.478 GHz.
Transmitting low channel, 2.042 GHz.
Transmitting mid channel, 2.448 GHz.

POWER SETTINGS INVESTIGATED

5V USB - EUT; 60Hz/110VAC - Laptop

CONFIGURATIONS INVESTIGATED

3 - LGPD0048 - 3

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
ISN adapter	Teseq	N/A	NIMF	12/8/2010	24 mo
ISN adapter	Teseq	N/A	NIMD	12/8/2010	24 mo
ISN	Teseq	T8000	NIM	12/8/2010	24 mo
LISN	Solar	9252-50-R-24-BNC	LIQ	3/9/2011	12 mo
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	7/5/2011	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	5/18/2011	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	6/28/2010	24 mo
Receiver	Rohde & Schwarz	ESCI	ARG	3/22/2011	12 mo

MEASUREMENT BANDWIDTHS

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

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

MEASUREMENT UNCERTAINTY

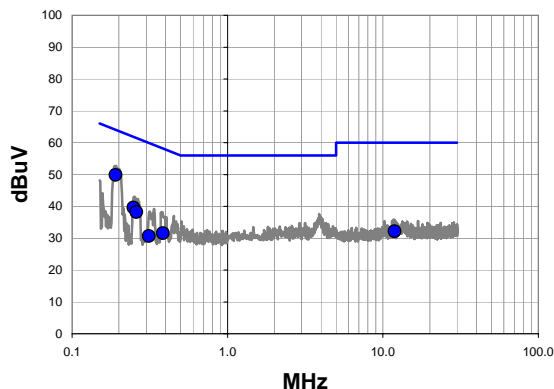
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/-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

TEST DESCRIPTION

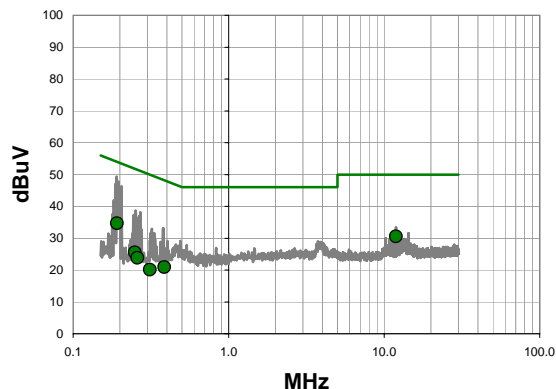
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to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

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:	Whisper Rx						
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting mid channel, 2.448 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications		Test Method					
FCC 15.207:2011		ANSI C63.10:2009					
Run #	1	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

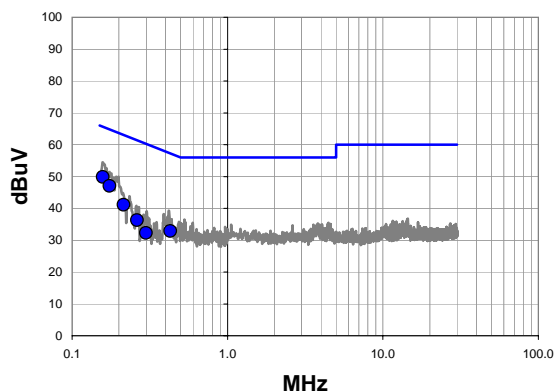
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	29.6	20.2	49.8	64.0	-14.2
0.249	19.4	20.2	39.6	61.8	-22.2
0.259	18.0	20.2	38.2	61.5	-23.3
0.385	11.4	20.2	31.6	58.2	-26.6
11.894	11.3	20.9	32.2	60.0	-27.8
0.312	10.5	20.2	30.7	59.9	-29.2

Average Data - vs - Average Limit

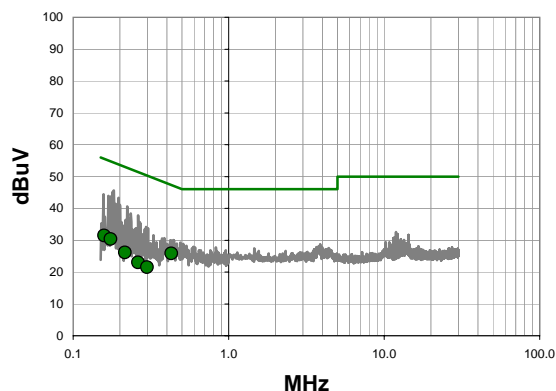
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	14.5	20.2	34.7	54.0	-19.3
11.894	9.7	20.9	30.6	50.0	-19.4
0.249	5.3	20.2	25.5	51.8	-26.3
0.385	0.7	20.2	20.9	48.2	-27.3
0.259	3.6	20.2	23.8	51.5	-27.7
0.312	-0.1	20.2	20.1	49.9	-29.8

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:	Whisper Rx						
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting mid channel, 2.448 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications		Test Method					
FCC 15.207:2011		ANSI C63.10:2009					
Run #	2	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

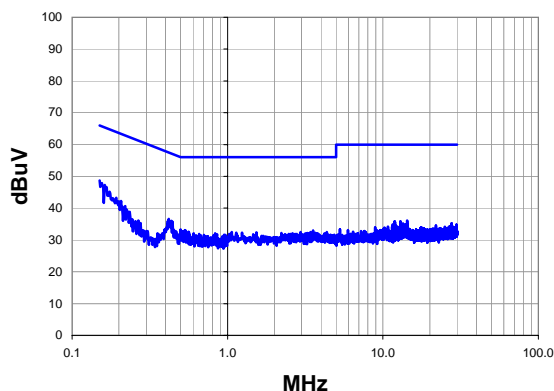
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.158	29.6	20.2	49.8	65.6	-15.8
0.174	26.8	20.2	47.0	64.8	-17.8
0.215	20.9	20.2	41.1	63.0	-21.9
0.429	12.7	20.2	32.9	57.3	-24.4
0.262	16.1	20.2	36.3	61.4	-25.1
0.299	12.1	20.2	32.3	60.3	-28.0

Average Data - vs - Average Limit

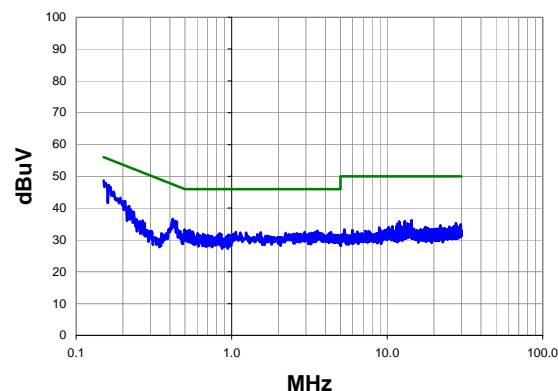
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.429	5.6	20.2	25.8	47.3	-21.5
0.158	11.3	20.2	31.5	55.6	-24.1
0.174	10.2	20.2	30.4	54.8	-24.4
0.215	5.9	20.2	26.1	53.0	-26.9
0.262	2.8	20.2	23.0	51.4	-28.4
0.299	1.3	20.2	21.5	50.3	-28.8

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:		Whisper Rx					
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting low channel, 2.042 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications		Test Method					
FCC 15.207:2011		ANSI C63.10:2009					
Run #	3	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

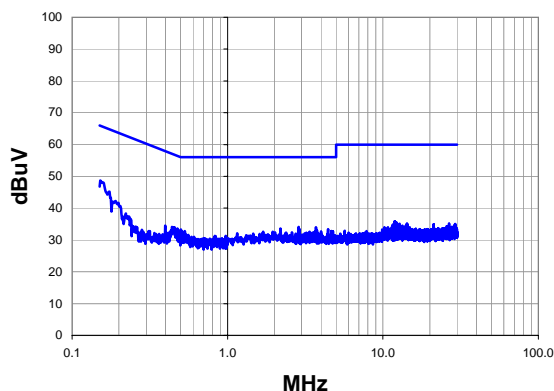
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.5	20.2	48.7	66.0	-17.3
0.162	27.1	20.2	47.3	65.4	-18.1
0.419	16.4	20.2	36.6	57.5	-20.9
0.444	15.5	20.2	35.7	57.0	-21.3
0.220	20.4	20.2	40.6	62.8	-22.2
0.499	13.1	20.2	33.3	56.0	-22.7
0.534	12.9	20.2	33.1	56.0	-22.9
0.225	19.3	20.2	39.5	62.6	-23.1
3.552	12.5	20.4	32.9	56.0	-23.1
0.561	12.4	20.2	32.6	56.0	-23.4
2.952	12.2	20.3	32.5	56.0	-23.5
0.235	18.6	20.2	38.8	62.3	-23.5
1.064	12.3	20.2	32.5	56.0	-23.5
4.352	12.0	20.5	32.5	56.0	-23.5
3.424	12.1	20.3	32.4	56.0	-23.6
1.536	12.1	20.3	32.4	56.0	-23.6
0.550	12.1	20.2	32.3	56.0	-23.7
2.224	11.9	20.3	32.2	56.0	-23.8
3.168	11.8	20.3	32.1	56.0	-23.9
0.606	11.9	20.2	32.1	56.0	-23.9

Peak Data - vs - Average Limit

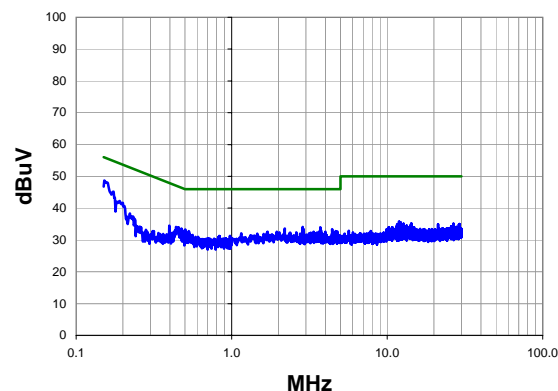
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.5	20.2	48.7	56.0	-7.3
0.162	27.1	20.2	47.3	55.4	-8.1
0.419	16.4	20.2	36.6	47.5	-10.9
0.444	15.5	20.2	35.7	47.0	-11.3
0.220	20.4	20.2	40.6	52.8	-12.2
0.499	13.1	20.2	33.3	46.0	-12.7
0.534	12.9	20.2	33.1	46.0	-12.9
0.225	19.3	20.2	39.5	52.6	-13.1
3.552	12.5	20.4	32.9	46.0	-13.1
0.561	12.4	20.2	32.6	46.0	-13.4
2.952	12.2	20.3	32.5	46.0	-13.5
0.235	18.6	20.2	38.8	52.3	-13.5
1.064	12.3	20.2	32.5	46.0	-13.5
4.352	12.0	20.5	32.5	46.0	-13.5
3.424	12.1	20.3	32.4	46.0	-13.6
1.536	12.1	20.3	32.4	46.0	-13.6
0.550	12.1	20.2	32.3	46.0	-13.7
2.224	11.9	20.3	32.2	46.0	-13.8
3.168	11.8	20.3	32.1	46.0	-13.9
0.606	11.9	20.2	32.1	46.0	-13.9

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:	Whisper Rx						
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting low channel, 2.042 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications			Test Method				
FCC 15.207:2011			ANSI C63.10:2009				
Run #	4	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

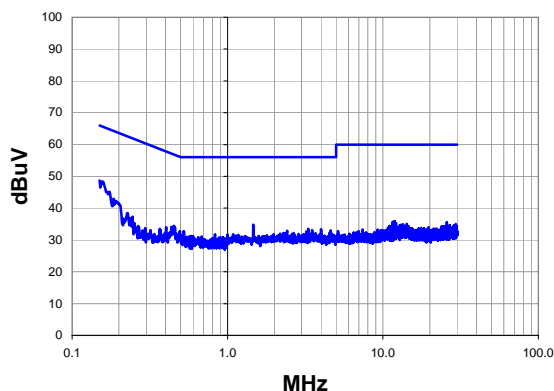
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.5	20.2	48.7	65.9	-17.2
0.191	22.1	20.2	42.3	64.0	-21.7
2.864	13.8	20.3	34.1	56.0	-21.9
3.712	13.6	20.4	34.0	56.0	-22.0
2.192	13.3	20.3	33.6	56.0	-22.4
2.904	13.1	20.3	33.4	56.0	-22.6
4.432	12.9	20.5	33.4	56.0	-22.6
0.502	13.1	20.2	33.3	56.0	-22.7
0.439	13.9	20.2	34.1	57.1	-23.0
0.531	12.6	20.2	32.8	56.0	-23.2
4.656	12.3	20.5	32.8	56.0	-23.2
0.509	12.5	20.2	32.7	56.0	-23.3
4.768	12.2	20.5	32.7	56.0	-23.3
3.656	12.3	20.4	32.7	56.0	-23.3
0.487	12.7	20.2	32.9	56.2	-23.3
0.397	14.3	20.2	34.5	57.9	-23.4
1.696	12.3	20.3	32.6	56.0	-23.4
4.000	12.1	20.5	32.6	56.0	-23.4
3.368	12.2	20.3	32.5	56.0	-23.5
2.600	12.1	20.3	32.4	56.0	-23.6

Peak Data - vs - Average Limit

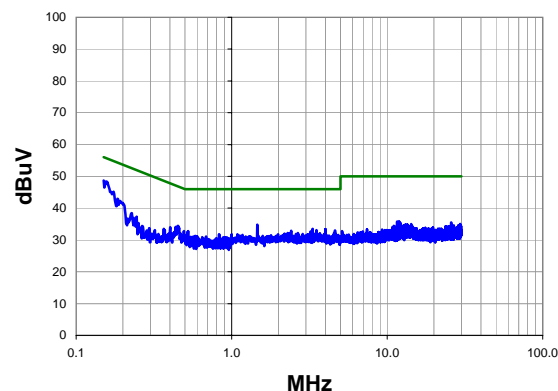
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.5	20.2	48.7	55.9	-7.2
0.191	22.1	20.2	42.3	54.0	-11.7
2.864	13.8	20.3	34.1	46.0	-11.9
3.712	13.6	20.4	34.0	46.0	-12.0
2.192	13.3	20.3	33.6	46.0	-12.4
2.904	13.1	20.3	33.4	46.0	-12.6
4.432	12.9	20.5	33.4	46.0	-12.6
0.502	13.1	20.2	33.3	46.0	-12.7
0.439	13.9	20.2	34.1	47.1	-13.0
0.531	12.6	20.2	32.8	46.0	-13.2
4.656	12.3	20.5	32.8	46.0	-13.2
0.509	12.5	20.2	32.7	46.0	-13.3
4.768	12.2	20.5	32.7	46.0	-13.3
3.656	12.3	20.4	32.7	46.0	-13.3
0.487	12.7	20.2	32.9	46.2	-13.3
0.397	14.3	20.2	34.5	47.9	-13.4
1.696	12.3	20.3	32.6	46.0	-13.4
4.000	12.1	20.5	32.6	46.0	-13.4
3.368	12.2	20.3	32.5	46.0	-13.5
2.600	12.1	20.3	32.4	46.0	-13.6

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:	Whisper Rx						
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting high channel, 2.478 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications		Test Method					
FCC 15.207:2011		ANSI C63.10:2009					
Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

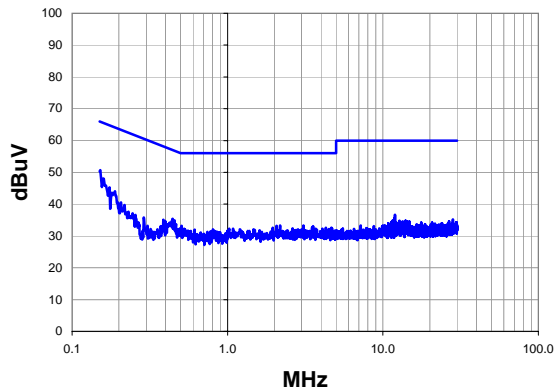
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.5	20.2	48.7	66.0	-17.3
1.464	14.6	20.2	34.8	56.0	-21.2
3.312	13.2	20.3	33.5	56.0	-22.5
0.449	14.2	20.2	34.4	56.9	-22.5
4.008	12.9	20.5	33.4	56.0	-22.6
3.504	12.7	20.4	33.1	56.0	-22.9
4.616	12.5	20.5	33.0	56.0	-23.0
2.416	12.6	20.3	32.9	56.0	-23.1
0.524	12.6	20.2	32.8	56.0	-23.2
3.216	12.4	20.3	32.7	56.0	-23.3
0.493	12.6	20.2	32.8	56.1	-23.3
2.664	11.9	20.3	32.2	56.0	-23.8
0.403	13.8	20.2	34.0	57.8	-23.8
11.890	15.0	20.9	35.9	60.0	-24.1
0.227	18.2	20.2	38.4	62.6	-24.2
1.088	11.6	20.2	31.8	56.0	-24.2
0.832	11.6	20.2	31.8	56.0	-24.2
11.590	14.9	20.8	35.7	60.0	-24.3
25.740	13.5	22.0	35.5	60.0	-24.5
11.950	14.6	20.9	35.5	60.0	-24.5

Peak Data - vs - Average Limit

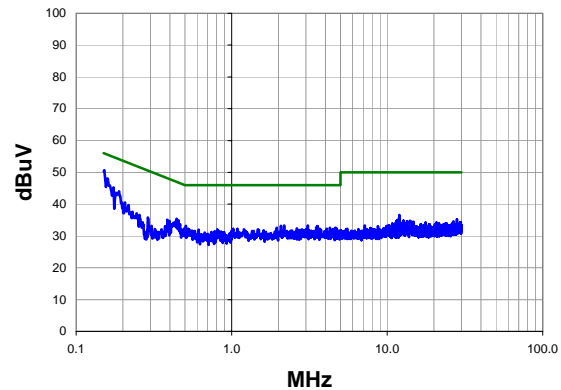
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.5	20.2	48.7	56.0	-7.3
1.464	14.6	20.2	34.8	46.0	-11.2
3.312	13.2	20.3	33.5	46.0	-12.5
0.449	14.2	20.2	34.4	46.9	-12.5
4.008	12.9	20.5	33.4	46.0	-12.6
3.504	12.7	20.4	33.1	46.0	-12.9
4.616	12.5	20.5	33.0	46.0	-13.0
2.416	12.6	20.3	32.9	46.0	-13.1
0.524	12.6	20.2	32.8	46.0	-13.2
3.216	12.4	20.3	32.7	46.0	-13.3
0.493	12.6	20.2	32.8	46.1	-13.3
2.664	11.9	20.3	32.2	46.0	-13.8
0.403	13.8	20.2	34.0	47.8	-13.8
11.890	15.0	20.9	35.9	50.0	-14.1
0.227	18.2	20.2	38.4	52.6	-14.2
1.088	11.6	20.2	31.8	46.0	-14.2
0.832	11.6	20.2	31.8	46.0	-14.2
11.590	14.9	20.8	35.7	50.0	-14.3
25.740	13.5	22.0	35.5	50.0	-14.5
11.950	14.6	20.9	35.5	50.0	-14.5

Work Order:	LGPD0048	Date:	11/22/11	<i>Bryan Welles</i>			
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:		Whisper Rx					
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting high channel, 2.478 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications				Test Method			
FCC 15.207:2011				ANSI C63.10:2009			
Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

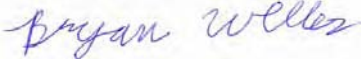


Peak Data - vs - Quasi Peak Limit

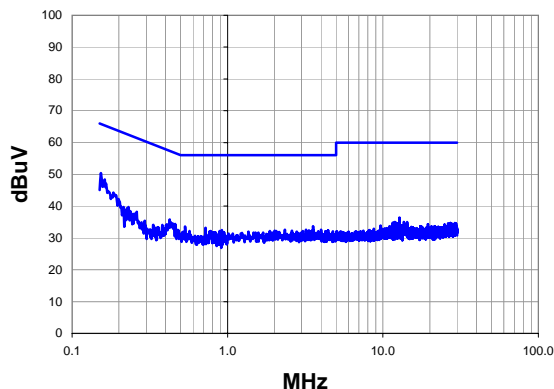
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	30.5	20.2	50.7	65.9	-15.2
0.189	23.9	20.2	44.1	64.1	-20.0
0.442	15.2	20.2	35.4	57.0	-21.6
3.088	13.0	20.3	33.3	56.0	-22.7
2.176	13.0	20.3	33.3	56.0	-22.7
2.072	12.9	20.3	33.2	56.0	-22.8
0.507	13.0	20.2	33.2	56.0	-22.8
0.206	20.3	20.2	40.5	63.4	-22.9
3.560	12.7	20.4	33.1	56.0	-22.9
0.386	14.9	20.2	35.1	58.1	-23.0
0.398	14.5	20.2	34.7	57.9	-23.2
3.496	12.3	20.3	32.6	56.0	-23.4
1.952	12.3	20.3	32.6	56.0	-23.4
4.648	12.1	20.5	32.6	56.0	-23.4
4.288	12.1	20.5	32.6	56.0	-23.4
11.950	15.7	20.9	36.6	60.0	-23.4
2.624	12.1	20.3	32.4	56.0	-23.6
1.088	12.1	20.2	32.3	56.0	-23.7
3.688	11.9	20.4	32.3	56.0	-23.7
4.496	11.7	20.5	32.2	56.0	-23.8

Peak Data - vs - Average Limit

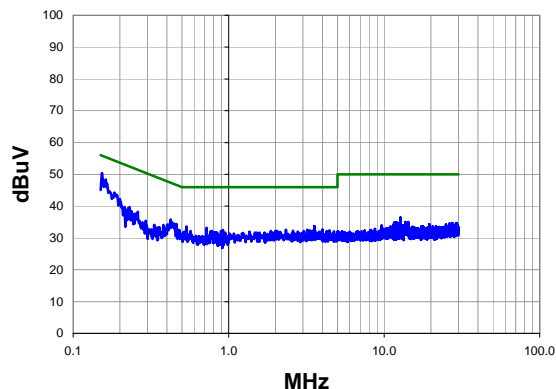
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	30.5	20.2	50.7	55.9	-5.2
0.189	23.9	20.2	44.1	54.1	-10.0
0.442	15.2	20.2	35.4	47.0	-11.6
3.088	13.0	20.3	33.3	46.0	-12.7
2.176	13.0	20.3	33.3	46.0	-12.7
2.072	12.9	20.3	33.2	46.0	-12.8
0.507	13.0	20.2	33.2	46.0	-12.8
0.206	20.3	20.2	40.5	53.4	-12.9
3.560	12.7	20.4	33.1	46.0	-12.9
0.386	14.9	20.2	35.1	48.1	-13.0
0.398	14.5	20.2	34.7	47.9	-13.2
3.496	12.3	20.3	32.6	46.0	-13.4
1.952	12.3	20.3	32.6	46.0	-13.4
4.648	12.1	20.5	32.6	46.0	-13.4
4.288	12.1	20.5	32.6	46.0	-13.4
11.950	15.7	20.9	36.6	50.0	-13.4
2.624	12.1	20.3	32.4	46.0	-13.6
1.088	12.1	20.2	32.3	46.0	-13.7
3.688	11.9	20.4	32.3	46.0	-13.7
4.496	11.7	20.5	32.2	46.0	-13.8

Work Order:	lgpd0048	Date:	11/22/11				
Project:	None	Temperature:	23.32 °C				
Job Site:	MN03	Humidity:	21.95% RH				
Serial Number:	1	Barometric Pres.:	1018 mbar				
EUT:		Whisper Rx					
Configuration:	3 - LGPD0048 - 3						
Customer:	Logic Product Development						
Attendees:	None						
EUT Power:	5V USB						
Operating Mode:	Transmitting high channel, 2.478 GHz.						
Deviations:	None						
Comments:	Test was run on AC from the laptop.						
Test Specifications		Test Method					
FCC 15.207:2011		ANSI C63.10:2009					
Run #	7	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	30.2	20.2	50.4	65.8	-15.4
0.424	15.6	20.2	35.8	57.4	-21.6
0.461	14.2	20.2	34.4	56.7	-22.3
3.560	13.3	20.4	33.7	56.0	-22.3
0.534	13.4	20.2	33.6	56.0	-22.4
0.230	19.5	20.2	39.7	62.5	-22.8
0.721	13.0	20.2	33.2	56.0	-22.8
0.261	18.0	20.2	38.2	61.4	-23.2
3.200	12.3	20.3	32.6	56.0	-23.4
2.336	12.3	20.3	32.6	56.0	-23.4
4.008	12.1	20.5	32.6	56.0	-23.4
0.918	12.3	20.2	32.5	56.0	-23.5
3.336	12.1	20.3	32.4	56.0	-23.6
12.750	15.5	20.9	36.4	60.0	-23.6
4.440	11.9	20.5	32.4	56.0	-23.6
2.592	12.0	20.3	32.3	56.0	-23.7
3.048	11.9	20.3	32.2	56.0	-23.8
0.570	12.0	20.2	32.2	56.0	-23.8
0.777	12.0	20.2	32.2	56.0	-23.8
0.891	12.0	20.2	32.2	56.0	-23.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	30.2	20.2	50.4	55.8	-5.4
0.424	15.6	20.2	35.8	47.4	-11.6
0.461	14.2	20.2	34.4	46.7	-12.3
3.560	13.3	20.4	33.7	46.0	-12.3
0.534	13.4	20.2	33.6	46.0	-12.4
0.230	19.5	20.2	39.7	52.5	-12.8
0.721	13.0	20.2	33.2	46.0	-12.8
0.261	18.0	20.2	38.2	51.4	-13.2
3.200	12.3	20.3	32.6	46.0	-13.4
2.336	12.3	20.3	32.6	46.0	-13.4
4.008	12.1	20.5	32.6	46.0	-13.4
0.918	12.3	20.2	32.5	46.0	-13.5
3.336	12.1	20.3	32.4	46.0	-13.6
12.750	15.5	20.9	36.4	50.0	-13.6
4.440	11.9	20.5	32.4	46.0	-13.6
2.592	12.0	20.3	32.3	46.0	-13.7
3.048	11.9	20.3	32.2	46.0	-13.8
0.570	12.0	20.2	32.2	46.0	-13.8
0.777	12.0	20.2	32.2	46.0	-13.8
0.891	12.0	20.2	32.2	46.0	-13.8