

Compliance Testing, LLC

Previously Flom Test Lab EMI, EMC, RF Testing Experts Since 1963 toll-free: (866) 311-3268 fax: (480) 926-3598

http://www.ComplianceTesting.com info@ComplianceTesting.com

| Date: | December 24, 2009 |
|-------------------------------------|--|
| Applicant: | Fender Musical Instruments Corp. 8860 E. Chaparral Road, Suite 100 Scottsdale, AZ 85250-2618 |
| Attention of: | Larry Clauss, Sr. Project Engineer - Compliance (480) 367-5203; FAX (480) 948-9155 Iclauss@fenderusa.com |
| Equipment: FCC ID: FCC Rules: | UHF WRLS BP XQWUHFBPPR601 Part 74H |

Gentlemen:

Enclosed please find your copy of the Engineering Test Report for which you are subject to the restrictions as listed on the attached summary.

Once a Telecommunication Certification Body (TCB) issues a Grant the Federal Communication Commission (FCC) has 30 days to review the application and request added information. It is your decision whether or not to market the equipment subject to a possible recall before the end of the 30 days.

If your equipment is still retained by us, it will be returned to you 30 days after approval is achieved. Our invoice for services has been directed to your Accounts Payable Department.

For any additional information please contact us.

Thank you.

Sincerely yours,

and

John Erhard: Engineering Manager

Compliance Testing 3356 N. San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (866) 311-3268 phone, (480) 926-3598 fax

p09c0010, d09c0013 Rev.1.0



Summary of Restrictions

- 1. All submissions to the FCC are subject to **their** Examiner's interpretation.
- 2. Please allow from 60 to 90 days before hearing from the FCC with regard to any submission.
- 3. The FCC can set aside any action; modify or set aside any action, within 30 days. (FCC Rule 1.108, 1.113).
- 4. Under Rule 2.803, if device is not type accepted/certificated then it must **not** be sold, leased, offered for sale, imported, shipped or distributed or advertised for sale.
- 5. FCC can revoke its certificates at any time if the equipment does not meet or **continue** to meet their Rules. (Rule Parts 2.927, 2.939).
- 6. FCC can request a sample at any time (2.936).



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Date:

December 24, 2009

Federal Communications Commission Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Equipment: FCC ID: FCC Rules: Fender Musical Instruments Corp. UHF WRLS BP XQWUHFBPPR601 Part 74H

Dear Gentleman:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Best regards,

had

John Erhard: Engineering Manager

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Test Report

for

Model: UHF WRLS BP

to

Federal Communications Commission

Rule Part(s)

Date of report: December 24, 2009

| On the Behalf of the Applicant: | Fender Musical Instruments Corp. |
|---------------------------------|--|
| At the Request of: | Fender Musical Instruments Corp. 8860 E. Chaparral Road, Suite 100 Scottsdale, AZ 85250-2618 |
| Attention of: | Larry Clauss, Sr. Project Engineer - Compliance (480) 367-5203; FAX (480) 948-9155 Iclauss@fenderusa.com |

John & and

John Erhard: Engineering Manager

Reviewed by:

Compliance Testing 3356 N. San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (866) 311-3268 phone, (480) 926-3598 fax



Test Report Revision history

| Revision | Date | Revised By | Reason for revision |
|----------|-------------------|------------|---------------------|
| 1.0 | December 24, 2009 | J Erhard | Original Document |
| | | | |
| | | | |
| | | | |



List of Exhibits

(FCC Certification (Transmitters) - Revised 9/28/98)

| Applicant: | Fender Musical Instruments Corp. |
|------------|----------------------------------|
| Applicant. | renuel musical instruments corp. |

FCC ID:

XQWUHFBPPR601

By Applicant:

- 1. Letter of Authorization
- 2. Confidentiality Request: 0.457 And 0.459
- 3. Identification Drawings, 2.1033(c)(11) Label Location of Label Compliance Statement Location of Compliance Statement
- 4. Photographs, 2.1033(c)(12)
- 5. Documentation: 2.1033(c)
 - (3) User Manual
 - (9) Tune Up Info
 - (10) Schematic Diagram
 - (10) Circuit Description Block Diagram Parts List Active Devices
- 6. MPE/SAR Report

By Compliance Testing:

A. Testimonial & Statement of Certification



The Applicant has been cautioned as to the following:

15.21 Information to the User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) **Special Accessories**.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.



Testimonial and Statement of Certification

This is to Certify:

- 1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
- 2. **That** the technical data supplied with the application was taken under my direction and supervision.
- 3. **That** the data was obtained on representative units, randomly selected.
- 4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

John & and

John Erhard: Engineering Manager

Certifying Engineer:

Compliance Testing 3356 N. San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (866) 311-3268 phone, (480) 926-3598 fax

Table of Contents

| Rule | Description | Page |
|----------------|--|------|
| | | |
| | Test Report | 2 |
| 2.1033(c)(14) | Rule Summary | 3 |
| | Standard Test Conditions and Engineering Practices | 4 |
| 2.1033(c) | General Information Required | 5 |
| | Test Results Summary | 7 |
| 74.861(1)(ii) | Carrier Output Power (Conducted) | 8 |
| 74.861(6)(iii) | Conducted Spurious Emissions | 9 |
| 2.1053(a) | Field Strength of Spurious Radiation | 13 |
| 74.861(6) | Emission Masks (Occupied Bandwidth) | 16 |
| 2.1047(a) | Audio Frequency Response | 20 |
| 74.861(3) | Modulation Limiting | 21 |
| 74.861(4) | Frequency Stability | 24 |
| 74.861(5) | Necessary Bandwidth and Emission Bandwidth | 25 |
| | Test Equipment Utilized | 26 |



Required information per ISO 17025-2005, paragraph 5.10.2:

| a) | Test Report |
|---|--|
| b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044-A) | Compliance Testing 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225 |
| c) Report Number: | d09c0013 |
| d) Client: | Fender Musical Instruments Corp. 8860 E. Chaparral Road, Suite 100 Scottsdale, AZ 85250-2618 |
| e) Identification: EUT Description: | UHF WRLS BP UHF WRLS Belt-Pack Transmitter |
| f) EUT Condition: | Not required unless specified in individual tests. |
| g) Report Date: | December 24, 2009 |
| h, j, k): | As indicated in individual tests. |
| i) Sampling method: | No sampling procedure used. |
| I) Measurement Uncertainty: | In accordance with Compliance Testing internal quality manual. |
| m) Reviewed by: | |

John & alund

John Erhard: Engineering Manager

n) Results:

The results presented in this report relate only to the item tested.

o) Reproduction:

This report must not be reproduced, except in full, without written permission

Accessories used during testing:

| Type Quantity Manufacturer Model Serial | No. FCC ID |
|---|------------|
|---|------------|

from this laboratory.



Sub-part 2.1033(c)(14):

Test and Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts: Part 74H



Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI/C63.4-2009, with EIA/TIA 603 as the measurement guide, unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Measurement results, unless otherwise noted, are worst-case measurements.

<u>A2LA</u>

"A2LA has accredited Compliance Testing in Chandler, AZ for technical competence in the field of Electrical testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO 17025:2005 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Please refer to <u>www.a2la.org</u> for current scope of accreditation.

Certificate number: 2152.01



FCC OATS Reg. #933597

IC Reg. # 2044A-1



List of General Information Required for Certification

In Accordance with FCC Rules and Regulations, Volume II, Part 2 and to Part 74H

| <u>Sub-part 2.1033</u> (c)(1): | |
|--|--|
| Name and Address of Applicant: | Fender Musical Instruments Corp. 8860 E. Chaparral Road, Suite 100 Scottsdale, AZ 85250-2618 |
| Manufacturer: | Fender Musical Instruments Corp. 8860 E. Chaparral Road, Suite 100 Scottsdale, AZ 85250-2618 |
| (c)(2): FCC ID : | XQWUHFBPPR601 |
| Model Number: | UHF WRLS BP |
| (c)(3): Instruction Manual(s): | |
| Please see attache | ed exhibits |
| (c)(4): Type of Emission: | FM |
| (c)(5): Frequency Range, MHz: | 621.85 - 642.75 |
| (c)(6): Power Rating, Watts : Switchable | 0.020 Variable N/A |
| FCC Grant Note: | |
| (c)(7): Maximum Allowable Power | r, Watts : 250 mW |
| DUT Results: F | Passes <u>x</u> Fails |



Subpart 2.1033 (continued)

(c)(8): Voltages & currents in all elements in final RF stage, including final transistor or solid-state device:

| Collector Current, A | = | 0.01 |
|------------------------|---|------|
| Collector Voltage, Vdc | = | 5 |
| Supply Voltage, Vdc | = | 9 |

(c)(9): **Tune-Up Procedure**:

Please see attached exhibits

(c)(10): Circuit Diagram/Circuit Description:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

Please see attached exhibits

(c)(11): Label Information:

Please see attached exhibits

(c)(12): Photographs:

Please see attached exhibits

(c)(13): Digital Modulation Description:

____Attached Exhibits _x_N/A

(c)(14): Test and Measurement Data:

Follows



Test Results Summary

| Specification | Test Name | Pass, Fail, N/A | Comments |
|----------------|--|--------------------|---|
| 74.861(1)(ii) | Carrier Output Power (Conducted) | Pass | |
| 74.861(6)(iii) | Unwanted Emissions (Transmitter Conducted) | Pass | |
| 2.1046(a) | RF Power Output (Radiated) | Pass | |
| 2.1053(a) | Field Strength of Spurious Radiation | Pass | |
| 74.861(6) | Emission Masks (Occupied Bandwidth) | Pass | |
| 2.1047(a) | Audio Low Pass Filter | N/A | The EUT does not contain an audio low pass filter |
| 2.1047(a) | Audio Frequency Response | Pass | |
| 74.861(3) | Modulation Limiting | Pass | |
| 74.861(4) | Frequency Stability | Pass | |
| 74.861(5) | Necessary Bandwidth and Emission Bandwidth | Pass | |



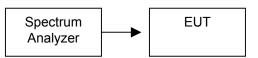
Name of Test: Specification: Test Equipment Utilized: Carrier Output Power (Conducted) 74.861(1)(ii) i00008, i00331

Engineer: J. Erhard Test Date: 12/18/2009

Measurement Procedure

The Equipment Under Test (EUT) was connected directly to a spectrum analyzer input with the RBW set at least 3X the occupied bandwidth of the signal being measured. The VBW was set to 3X the RBW. The peak readings were taken and the result was then compared to the limit.

Test Setup



Transmitter Peak Output Power

| Tuned Frequency MHz | Measured Value (dBm) | Measured Value (mW) | Specification Limit | Result |
|------------------------|-------------------------|------------------------|---------------------|--------|
| 621.85 | 12.9 | 19.5 | 250 mW | Pass |
| 628.15 | 13 | 20.0 | 250 mW | Pass |
| 642.75 | 12 | 15.8 | 250 mW | Pass |



Name of Test: Specification: Test Equipment Utilized:

Conducted Spurious Emissions 74.861(6)(iii) i00008, i00331

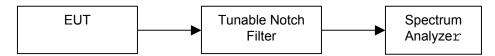
Engineer: J. Erhard Test Date: 12/20/2009

Test Procedure

The EUT was connected directly to a spectrum analyzer to verify that the EUT met the requirements for spurious emissions. The frequency range from 30 MHz to the 10th harmonic of the fundamental transmitter was observed. A tunable notch filter was utilized to ensure the fundamental transmitter frequency did not put the spectrum analyzer into compression causing erroneous measurements. The emissions limit from RSS-123 was utilized to ensure Industry Canada Compliance.

Only the worst case spurious for each frequency is recorded in the Conducted Spurious Emissions Summary Test Table.

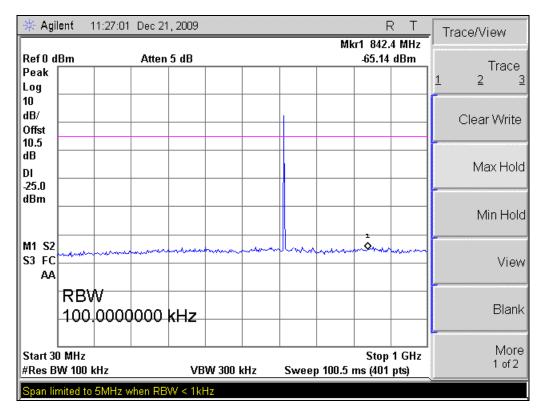
Test Setup



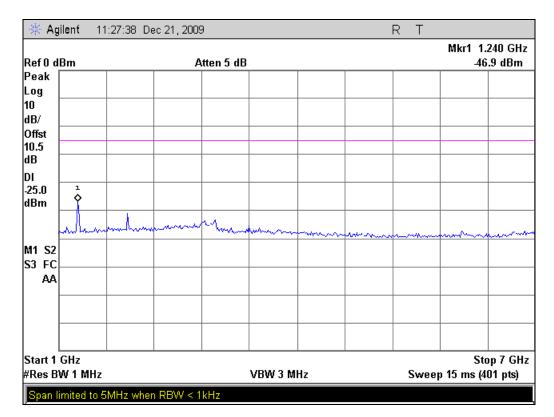
Conducted Spurious Emissions Summary Test Table

| Tuned Frequency (MHz) | Spurious Frequency (MHz) | Measured Spurious Level (dBm) | Limit (dBm) | Result |
|--------------------------|-----------------------------|----------------------------------|----------------|--------|
| 621.85 | 1240 | -46.9 | -25 | Pass |
| 628.15 | 1885 | -50.34 | -25 | Pass |
| 642.75 | 1930 | -52.96 | -25 | Pass |

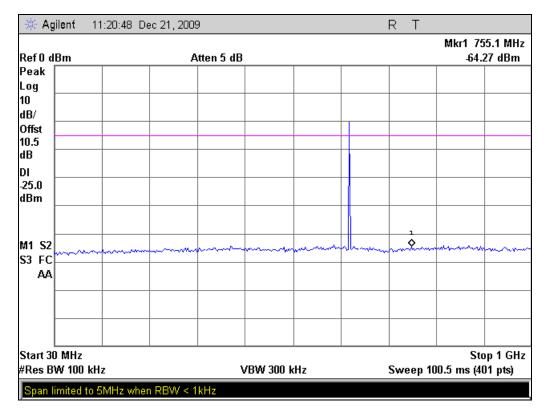




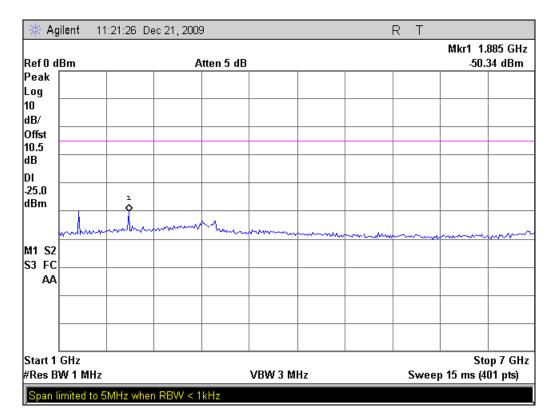
Conducted Spurious Emissions 621.85 MHz Plots



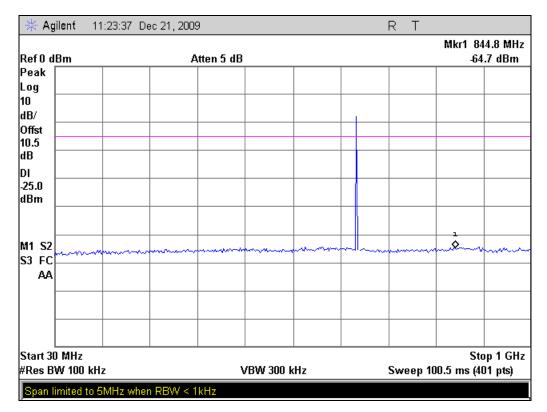




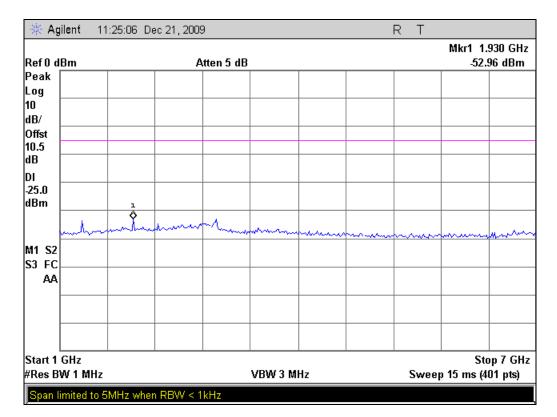
Conducted Spurious Emissions 628.15 MHz Plots







Conducted Spurious Emissions 642.75 MHz Plots





Field Strength of Spurious Radiation 2.1053(a) **E** i00008, i0003, 39, 42, 48, i00041, 1 i00049, i00103, i00348

Engineer: J. Erhard Test Date: 12/22/2009

Measurement Procedure

Definition:

Radiated spurious emissions are emissions from the equipment when transmitting into a non-radiating load on a frequency or frequencies, which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

Method of Measurement:

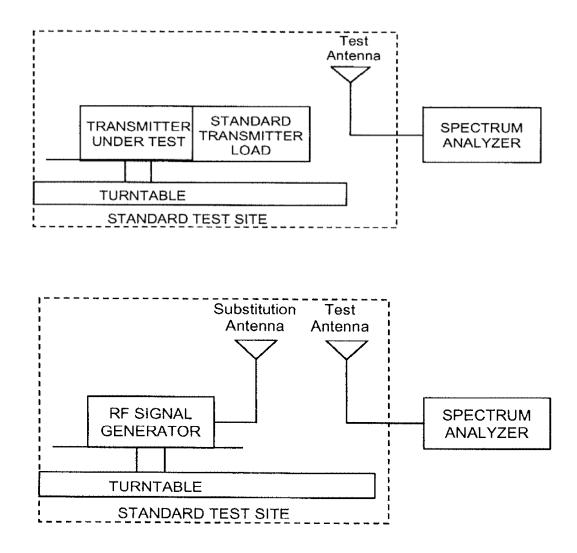
- A) Connect the equipment as illustrated
- B) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth 100 kHz (<1 GHZ), 1 MHZ (> 1GHz).
 - 2) Video Bandwidth ≥ 3 times Resolution Bandwidth, or 30 kHz
 - 3) Sweep Speed ≤2000 Hz/second
 - 4) Detector Mode = Mean or Average Power
- C) Place the transmitter to be tested on the turntable in the standard test site. The transmitter is transmitting into a non-radiating load that is placed on the turntable. The RF cable to this load should be of minimum length.
- D) For each spurious measurement the test antenna should be adjusted to the correct length for the frequency involved. This length may be determined from a calibration ruler supplied with the equipment. Measurements shall be made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier, except for the region close to the carrier equal to ± the test bandwidth (see section 1.3.4.4).
- E) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.
- F) Repeat step E) for each spurious frequency with the test antenna polarized vertically.
- G) Reconnect the equipment as illustrated.
- H) Keep the spectrum analyzer adjusted as in step B).
- I) Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.
- J) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
- K) Repeat step J) with both antennas vertically polarized for each spurious frequency.
- L) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps J) and K) by the power loss in the cable between the generator and the antenna and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna.
- M) The levels recorded in step L) are absolute levels of radiated spurious emissions in dBm. The radiated spurious emissions in dB can be calculated by the following:

Radiated spurious emissions dB = 10log₁₀(TX power in watts/0.001) – the levels in step I)

NOTE: It is permissible that other antennas provided can be referenced to a dipole.

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Substitution Method Test Setup



Radiated Output Power

| Measured Frequency (MHz) | Signal Generator Level (dBm) | Amplifier Gain (dB) | Cable Loss (dB) | Substitute Antenna Gain (dB) | Output Power ERP (dBm) |
|-----------------------------|------------------------------------|------------------------|--------------------|------------------------------------|---------------------------|
| 621.85 | -34.5 | 50.6 | 0.9 | 0 | 15.2 |
| 628.15 | -34.6 | 50.6 | 0.9 | 0 | 15.1 |
| 642.75 | -35.3 | 50.6 | 0.9 | 0 | 14.4 |



Test Results 621.85 MHz

| Emission Frequency (MHz) | Measured Level (dBm) | Correction Factor (dB) | Corrected Value (dBm) | Limit (dBm) | Result |
|--------------------------------|-------------------------|---------------------------|--------------------------|----------------|--------|
| 1243.7 | -61.2 | -3 | -64.2 | -25 | Pass |
| 1865.55 | -63.3 | 0.5 | -62.8 | -25 | Pass |
| 2487.4 | -73.1 | 4.7 | -68.4 | -25 | Pass |
| 3109.25 | -72.5 | 6.8 | -65.7 | -25 | Pass |

Test Results 628.15 MHz

| Emission Frequency (MHz) | Monitored Level (dBm) | Correction Factor (dB) | Corrected Value (dBm) | Limit (dBm) | Result |
|--------------------------------|--------------------------|---------------------------|--------------------------|----------------|--------|
| 1256.3 | -61.9 | -3 | -64.9 | -25 | Pass |
| 1884.45 | -64.9 | 0.5 | -64.4 | -25 | Pass |
| 2512.6 | -72.9 | 4.7 | -68.2 | -25 | Pass |
| 3140.75 | -73.1 | 6.8 | -66.3 | -25 | Pass |

Test Results 642.75 MHz

| Emission Frequency (MHz) | Monitored Level (dBm) | Correction Factor (dB) | Corrected Value (dBm) | Limit (dBm) | Result |
|--------------------------------|--------------------------|---------------------------|--------------------------|----------------|--------|
| 1285.5 | -62.9 | -3 | -65.9 | -25 | Pass |
| 1928.25 | -69.7 | 0.5 | -69.2 | -25 | Pass |
| 2571 | -75.7 | 4.7 | -71 | -25 | Pass |
| 3213.75 | -79.9 | 6.8 | -73.1 | -25 | Pass |



Name of Test: Specification: Test Equipment Utilized:

Emission Masks (Occupied Bandwidth) 74.861(6) i00008, i00331

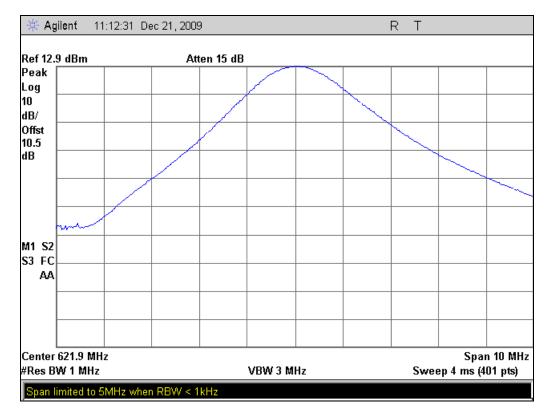
Engineer: J. Erhard Test Date: 12/20/2009

The EUT was connected directly to a spectrum analyzer to verify that it meets the required emissions mask. A reference level plot is provided to verify that the peak power was established prior to testing the mask. The signal was modulated with a 2.5 kHz tone set to achieve peak deviation.

Test Setup

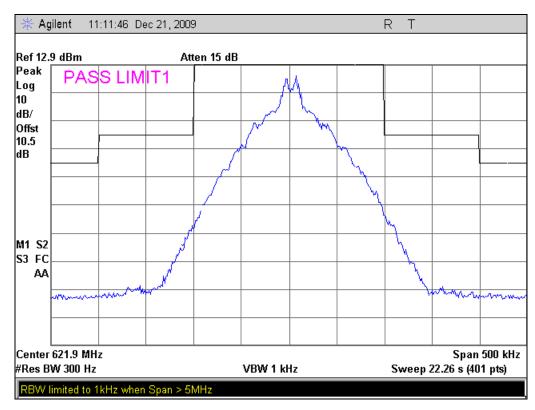




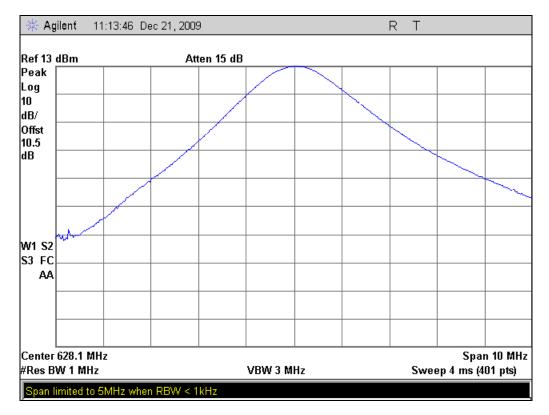


621.85 MHz Occupied Bandwidth Reference

621.85 MHz Occupied Bandwidth Mask

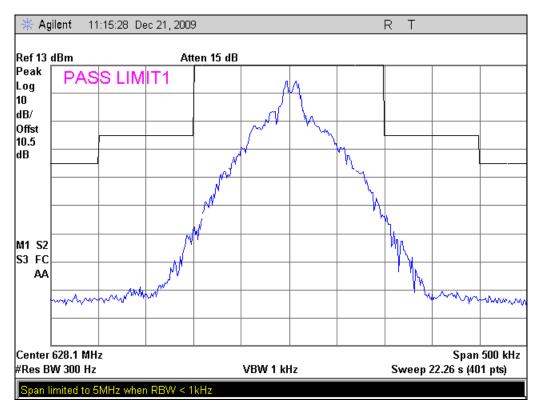






628.15 MHz Occupied Bandwidth Reference

628.15 MHz Occupied Bandwidth Mask

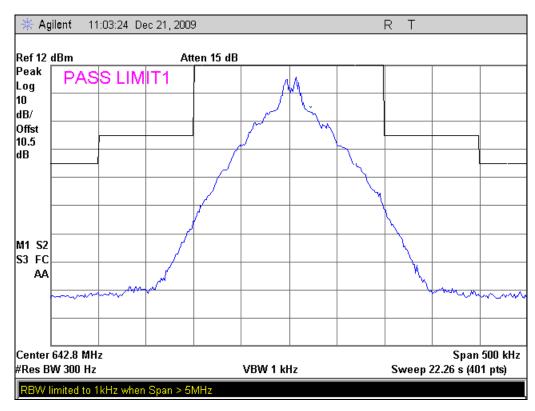






642.75 MHz Occupied Bandwidth Reference

642.75 MHz Occupied Bandwidth Mask





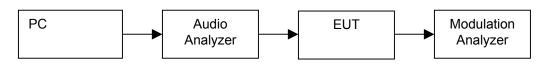
Name of Test: Specification: Test Equipment Utilized: Audio Frequency Response 2.1047(a) i00008, i00020, i00324

Engineer: J Erhard Test Date: 12/21/2009

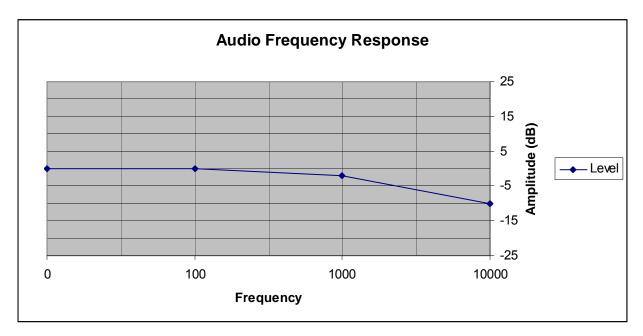
Measurement Procedure

- A) The EUT and test equipment were set up as shown below.
- B) The audio signal generator was connected to the audio input circuit/microphone of the EUT.
- C) The audio signal input was adjusted to obtain 20% modulation at 1 kHz, and this point was taken as the 0 dB reference level.
- D) With input levels held constant and below limiting at all frequencies, the audio signal generator was varied from 100 Hz to 50 kHz.
- E) The response in dB relative to 1 kHz was measured, using the HP 8901A Modulation Meter.

Transmitter Test Set-Up



Measurement Results

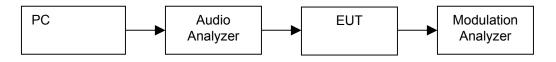


Engineer: J Erhard Test Date: 12/21/2009

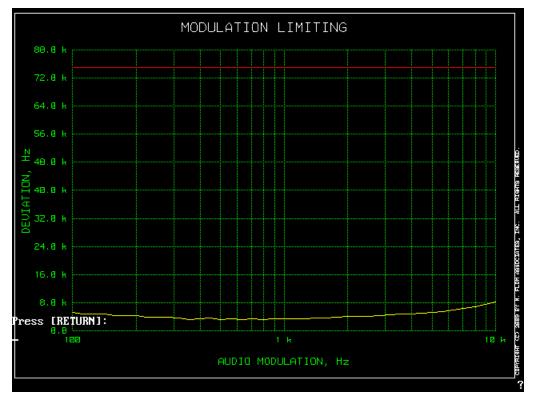
Measurement Procedure

- A) The signal generator was connected to the input of the EUT as shown below.
- B) The modulation response was measured for each of three frequencies (one of which was the frequency of maximum response), and the input voltage was varied and was observed on an HP 8901A Modulation Analyzer.
- C) The input level was varied from 30% modulation (±1.5 kHz deviation) to at least 20 dB higher than the saturation point.
- D) Measurements were performed for both negative and positive modulation and the respective results were recorded.

Transmitter Test Set-Up

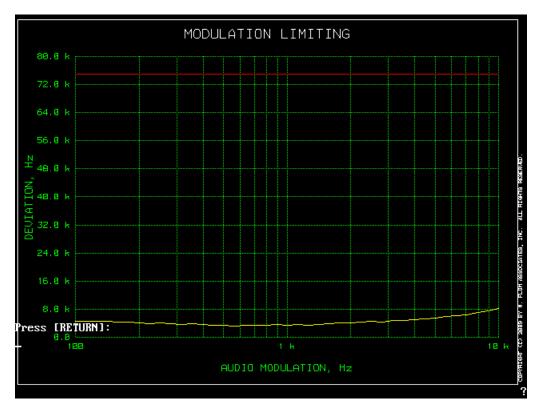




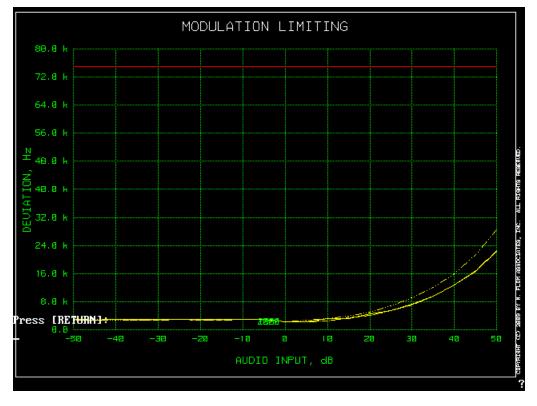


Modulation Limiting Swept Frequency Positive Peaks

Modulation Limiting Swept Frequency Negative Peaks







Modulation Limiting Swept Amplitude Positive Peaks

Modulation Limiting Swept Amplitude Negative Peaks





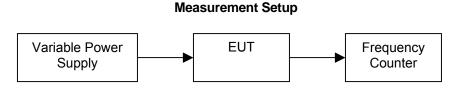
Name of Test: Specification: Test Equipment Utilized:

Frequency Stability 74.861(4) i00008, i00019, i00027, i00319

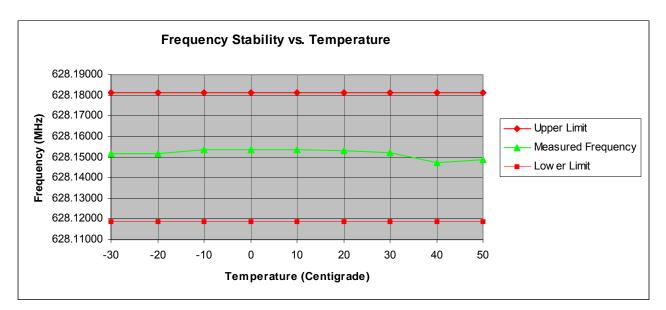
Engineer: J Erhard Test Date: 12/22/2009

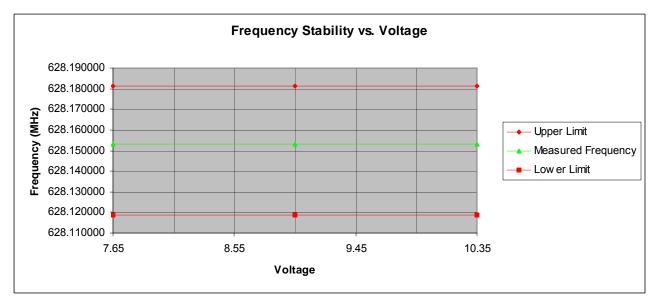
Measurement Procedure

The EUT was placed in a temperature chamber at $25\pm5^{\circ}$ C and connected directly to a frequency counter and variable power supply. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value and the RF output was measured.



Measurement Results





Compliance Testing 3356 N. San Marcos Place, Suite 107 Chandler, Arizona 85225-7176 (866) 311-3268 phone, (480) 926-3598 fax



Name of Test: Specification: Necessary Bandwidth and Emission Bandwidth 74.861(5) Engineer: J Erhard

Modulation = 91K0F3ENecessary Bandwidth Calculation:Maximum Modulation (M), kHz =15Maximum Deviation (D), kHz =30.5Constant Factor (K) =1Formula(2xM)+(2xDxK)Necessary Bandwidth (B_N), kHz =91.0



| Description | MFG | Model Number | FTL Asset | Last Cal | Cal Due Date |
|----------------------|--------------|--------------------|-------------------|------------|--------------|
| | | | Number | Date | |
| Power Supply | Kenwood | PR18-3A | i00008 | NCR | NCR |
| Frequency Counter | HP | 5334B | i00019 | 1/9/2009 | 1/9/2010 |
| Modulation Analyzer | HP | 8901A | i00020 | 2/5/2009 | 2/5/2010 |
| Temperature Chamber | Tenney | Tenney Jr. | i00027 | 12/8/2009 | 12/8/2010 |
| Monopole Antenna Set | Ailtech | DM-105A-T1, T2, T3 | i0003, 39, 42, 48 | Verify | Verify |
| Amplifier | Amp Research | 50W1000A | i00041 | Verify | Verify |
| Spectrum Analyzer | HP | 8566B | i00049 | 10/09/2009 | 10/09/2010 |
| Horn Antenna | EMCO | 3115 | i00103 | 11/25/2008 | 11/25/2010 |
| Function Generator | HP | 33120A | i00118 | Verify | Verify |
| Dipole Antenna | Ailtech | DM-105A-T3 | i00142 | Verify | Verify |
| Voltmeter | Fluke | 87 III | i00319 | 6/08/09 | 6/8/2010 |
| Audio Analyzer | HP | 8903A | i00324 | 11/04/09 | 11/04/2010 |
| Spectrum Analyzer | Agilent | E4407B | i00331 | 11/03/09 | 11/03/2010 |
| Signal Generator | Agilent | E4438C | i00348 | NCR | NCR |
| Bi Log Antenna | Schaffner | CBL 6111D | i00349 | 6/26/2009 | 6/26/2010 |
| Power Supply | HP | 6654A | i00350 | NCR | NCR |
| Tunable Notch Filter | Eagle | TNF-240MFMF | i00364 | NCR | NCR |

Test Equipment Utilized

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

END OF TEST REPORT