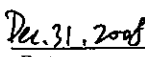
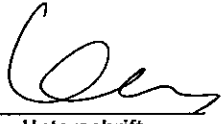
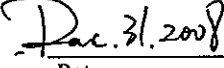
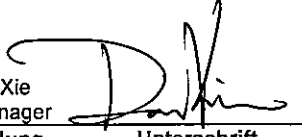


| | | | | | |
|--|---|--|---|--|----------------------------------|
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| Auftraggeber: <i>Client:</i> | | Sam Ash Music Corporation 262 Duffy Avenue Hicksville NY, 11801 Unite States | | | |
| Gegenstand der Prüfung: <i>Test item:</i> | | Wireless Microphone Transmitter | | | |
| Bezeichnung: <i>Identification:</i> | | CT7 | FCC ID: <i>FCC ID</i> | CCRCT7- | |
| Wareneingangs-Nr.: <i>Receipt No.:</i> | | 173040804 | Eingangsdatum: <i>Date of receipt:</i> | 28.10.2008 | |
| Prüfort: <i>Testing location:</i> | | TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650 P. R. China | | Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 74 | |
| Prüfgrundlage: <i>Test specification:</i> | | ANSI C63.4: 2003 FCC "Rules and Regulations", Part 74: 01, Oct., 1997 Subpart H, Section 74.861 | | | |
| Prüfergebnis: <i>Test Result:</i> | | Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i> | | | |
| Prüflaboratorium: <i>Testing Laboratory:</i> | | TÜV Rheinland (Guangdong) Ltd. | | | |
| geprüft / tested by: | | kontrolliert/ reviewed by: | | | |
|  |  |  |  | | |
| Dec. 31, 2008 <i>Datum</i> <i>Date</i> | Ken Kuang Project Engineer <i>Name/Stellung</i> <i>Name/Position</i> | Unterschrift <i>Signature</i> | Dec. 31, 2008 <i>Datum</i> <i>Date</i> | Liangdong Xie Project Manager <i>Name/Stellung</i> <i>Name/Position</i> | Unterschrift <i>Signature</i> |
| Sonstiges/ Other Aspects: | | | | | |
| Abkürzungen: | | Abbreviations: | | | |
| P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet | | P(ass) = passed F(all) = failed N/A = not applicable N/T = not tested | | | |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i> | | | | | |

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TEST SUMMARY

5.1 POWER OUTPUT MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(1)

RESULT: Pass

5.2 SPURIOUS RADIATION MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(6)(III)

RESULT: Pass

5.3 MODULATION CHARACTERISTICS MEASUREMENT

RESULT: Pass

5.4 OCCUPIED BANDWIDTH FOR FCC PART 74 PER SECTION 74.861(E)(3), 74.861(E)(5) AND 74.861(E)(6)

RESULT: Pass

5.5 FREQUENCY TOLERANCE FOR FCC PART 74 PER SECTION 74.861(E)(4)

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650

P. R. China

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Kind of Equipment | Type | Manufacturer | S/N | Calibrated until | Calibrated Interval |
|---|---------------------------------|--------------------------------|----------------|------------------|---------------------|
| EMI Test Receiver | ESCI-3 | Rohde & Schwarz | 100216 | 24.Nov.2009 | 1 year |
| Spectrum Analyzer | FSP30 | Rohde & Schwarz | 100286 | 27.Aug.2009 | 1 year |
| Trilog-Broadband Antenna | VULB9168 | SCHWARZBECK MESS-ELEKTRONIK | 210 | 08.May.2009 | 2 year |
| Double-Ridged Waveguide Horn Antenna | HF906 | Rohde & Schwarz | 100385 | 18.Jul.2009 | 2 year |
| Double-Ridged Waveguide Horn Antenna | HF906 | Rohde & Schwarz | 100407 | 08.May.2009 | 2 year |
| Pre-amplifier | AFS42- 00101800- 25-S-42 | MITEQ | 1101599 | 31.Jul.2009 | 2 year |
| Band Reject Filter | BRM50702 | Micro-Tronics | 023 | 15.Feb.2010 | 2 year |
| Standard Gain Horn Antenna | 3160-09 | EMCO | 21642 | N/A | 2 year |
| Standard Gain Horn Antenna | 3160-09 | EMCO | 21645 | N/A | 2 year |
| Communication Test Set | 8920A | HP | 3417A04 617 | 8-Jan-09 | 1 year |
| Pre-amplifier | AFS33- 18002650- 30-8P-44 | MITEQ | 1108282 | 31.Jul.2009 | 2 year |
| 3m Anechoic Chamber | N/A | Albatross Project GmbH | N/A | 16.Apr.2010 | 2 year |
| EMI Test Receiver | ESCS30 | Rohde & Schwarz | 100316 | 27.Mar.2009 | 1 year |
| Two-Line V-Network | ESH3-Z5 | Rohde & Schwarz | 100308 | 27.Mar.2009 | 1 year |
| Pulse Limiter | ESH3-Z2 | Rohde & Schwarz | 100701 | 01.Mar.2009 | 1 year |

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2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is ± 2.51 dB.

Uncertainty for radiated emissions measurements is ± 4.9 dB (30MHz-1GHz), ± 4.84 dB (>1GHz).

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845

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3 General Product Information

The submitted sample is a wireless microphone, which is a transmitter and operates within the frequency band of 642.375MHz to 645.750MHz

All the tests are performed at highest channel (645.750MHz) and lowest channel (642.375MHz).

3.1 Product Function and Intended Use

For details, refer to technical document and the user manual.

3.2 Ratings and System Details

| | | |
|---------------------|---|--|
| Frequency range | : | 642.375MHz - 645.750MHz |
| RF output power | : | 10mW(e.r.p) |
| Channel bandwidth | : | 200 kHz |
| Type of antenna | : | Integral antenna |
| FCC ID: | | CCRCT7- |
| Power supply | : | DC 9V (Powered by Duracell MN1604 9-volt alkaline) |
| Frequency Response | : | 50Hz-15kHz |
| Frequency Stability | : | 0.0005% |
| Emission designator | : | 90K2F3E |
| Ports | : | Connected with external audio source or headset microphone |
| Protection Class | : | III |

Refer to the technical document for further information.

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3.3 Independent Operation Modes

The basic operation modes are:

- Transmitting without modulation
- Transmitting with modulation

For further information refer to User Manual

3.4 Submitted Documents

- Block Diagram
- Circuit Diagram
- Components List
- PCB layout
- FCC label
- User Manual
- Photo document

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

None

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Radiated Emission

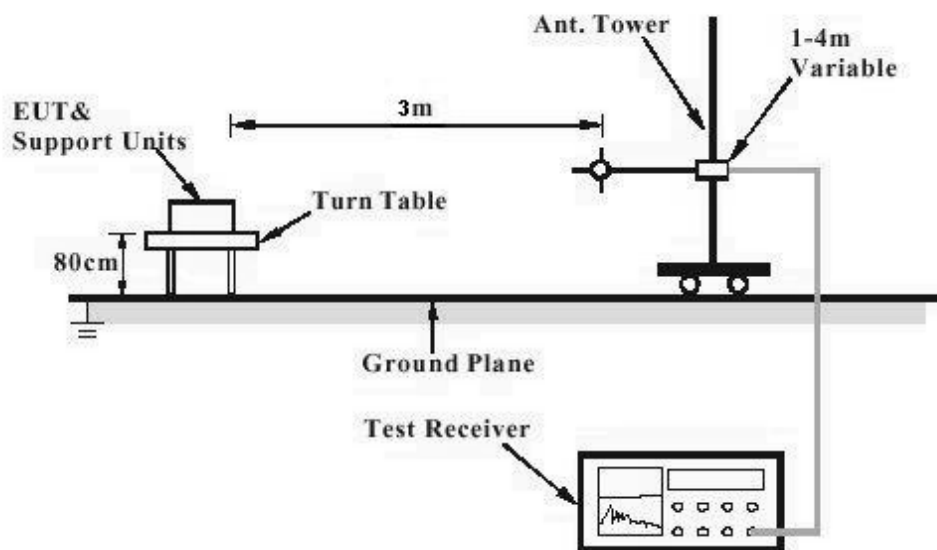


Diagram 2 of Measurement Equipment Configuration for Substitution Method

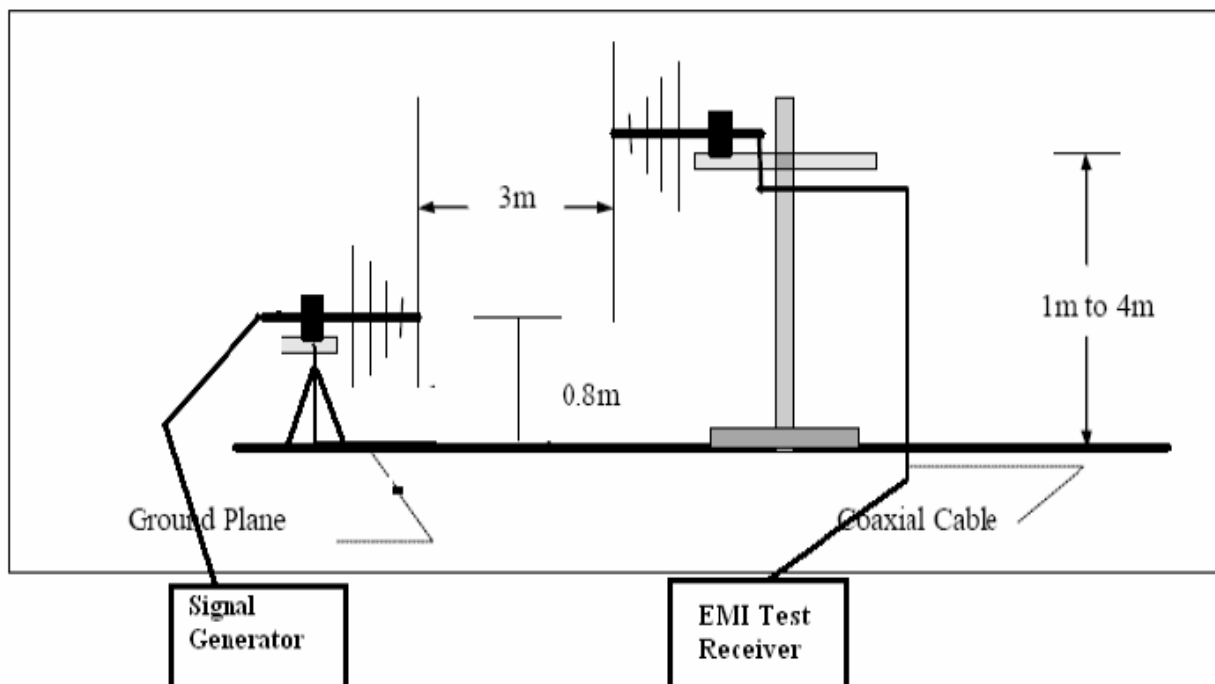


Diagram 3 of Measurement Equipment Configuration for Testing Modulation Characteristics measurement

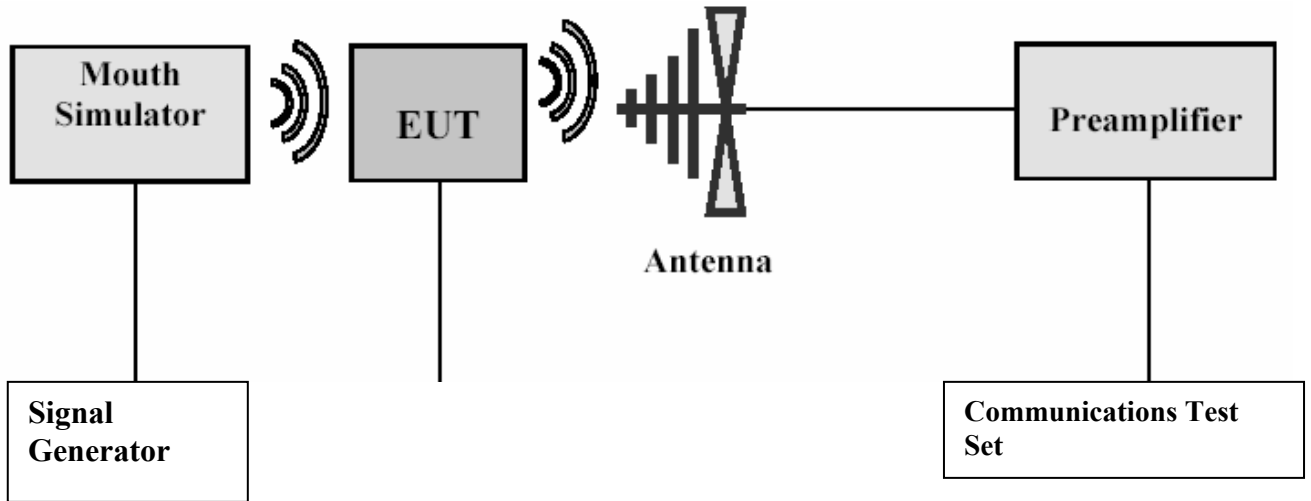
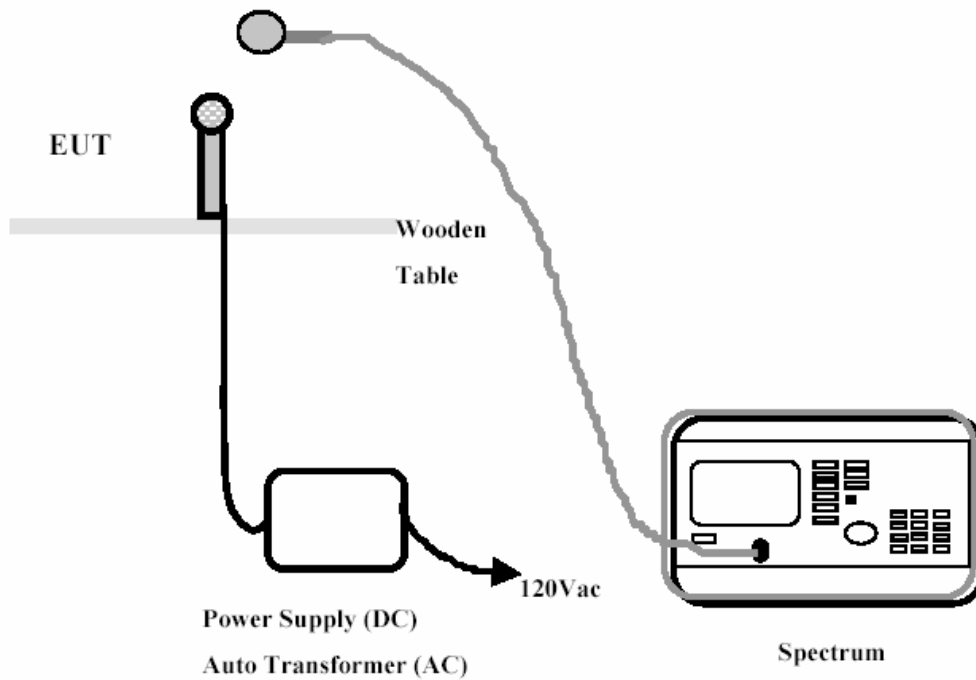
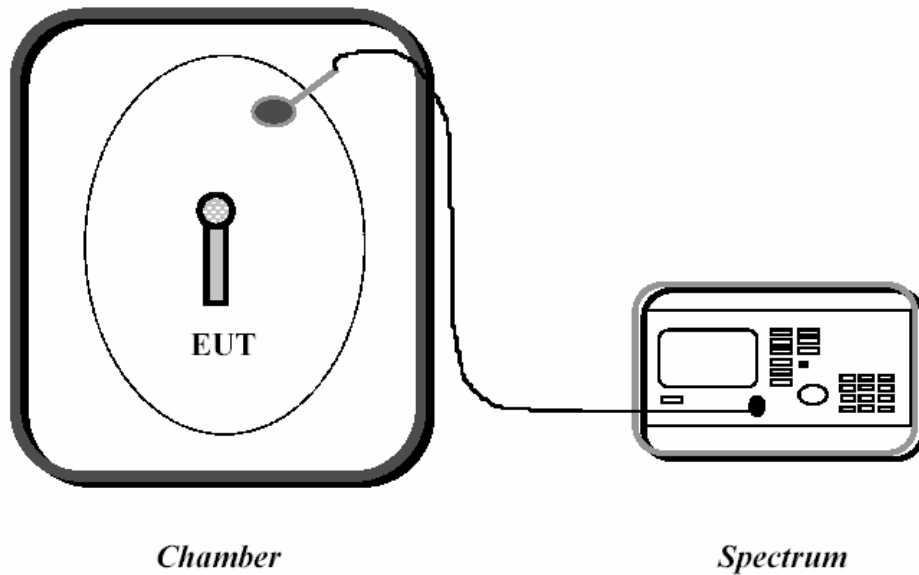


Diagram 4 of Measurement Equipment Configuration for Testing Frequency Tolerance



5 Test Results EMISSION

5.1 Power output measurement for FCC part 74 Per Section 74.861(e)(1)

RESULT:

Pass

| | | |
|--|---|--------------------------------------|
| Date of testing | : | 28.Nov.2008 |
| Test specification | : | FCC Part 2 Per Section 2.1046(a) |
| Limits | : | FCC Part 74 Per Section 74.861(e)(1) |
| Deviations from Standard Test procedures | : | None |
| Kind of test site | : | 3m Anechoic Chamber |
| Operation mode | : | Transmitting (unmodulated) |
| Temperature | : | 22°C |
| Humidity | : | 65% |

Measurement procedure:

1. The EUT was placed on an 80cm high turntable in the anechoic chamber.
2. For radiated power output of the EUT, the measuring antenna was raised and lowered to obtain a maximum reading on the spectrum analyzer with the test antenna polarized vertically and horizontally. The turntable was rotated 360 to further searching the maximum reading on the spectrum analyzer. Then the max value on spectrum was recorded.
3. The EUT was removed and be replaced with a substitute dipole antenna. The length of the antenna was adjusted to a half-wave of transmitting frequency measured. The centre of the dipole antenna was placed approximately at the same location as the centre place of the EUT in step 1 and 2.
4. The dipole antenna was connected to a signal generator with a coaxial cable.
5. The signal generator is tuned to the transmitting frequency with the substitute antenna polarized both vertically and horizontally, the output level of the signal generator output was then adjusted to get a maximum reading in the spectrum with the same value recorded in the step 2.
6. The input RF power in the dipole antenna was calculated from the coaxial cable loss and the signal generator output level obtained in step 5. This value was regarded as final result and recorded in following table 2.

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Note: While in Step 2, the EUT was placed in 3 orthogonal planes to find a maximum reading.

Table 2: Measurement Result of output power at lowest and highest channel

| Channel | Freq. (MHz) | Polarization (V/H) | Transmit power (dBm) | Transmit power (mW) | Limit (mW) |
|---------|----------------|-----------------------|-------------------------|------------------------|---------------|
| Lowest | 642.375 | V | 3.25 | 2.11 | 250 |
| | 642.375 | H | -0.129 | 0.97 | 250 |
| Highest | 645.750 | V | 7.69 | 5.87 | 250 |
| | 645.750 | H | 5.541 | 3.58 | 250 |

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz at frequency below 1GHz.

The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz at frequency above 1GHz.

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5.2 Spurious Radiation Measurement for FCC Part 74 Per Section 74.861(e)(6)(iii)

RESULT:

Pass

| | | |
|--|---|---|
| Date of testing | : | 28.Nov.2008 |
| Test specification | : | FCC Part 2 Per Section 2.1053(a) and 2.1057 |
| Limits | : | FCC Part 74 Per Section 74.861(e)(6)(iii) |
| Deviations from Standard Test procedures | : | None |
| Kind of test site | : | 3m Full-Anechoic Chamber |
| Operation mode | : | Transmitting (unmodulated) |
| Temperature | : | 22°C |
| Humidity | : | 65% |

Measurement procedure:

1. The EUT was turned on and placed on the top of a rotatable table 0.8 meters above the ground with 3-orthogonal XYZ direction and be kept close enough to the measurement receiving antenna (especially for the measurement frequency range above 1 GHz). The table was then rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was then recorded together with the suspected emission frequency points above-mentioned.

2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.

3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case that the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

4. The EUT was removed and be replaced with substitute antenna correspondent to the suspected frequency point mentioned in Step 3 (if necessary, characteristic frequency of the antenna is adjusted to a half-wave of the suspected frequency point). The substitute antenna was then connected to a signal generator with a coaxial cable and its center is placed approximately at the same location as the centre place of the EUT in Step 3.

5. The signal generator is tuned to the suspected frequency point mentioned in Step 3 with the substitute antenna polarized both vertically and horizontally, the output level of the signal generator output was then adjusted to get a maximum reading in the spectrum with the same value recorded in the step 3.

6. For each suspected frequency point, the input RF power in the substitute antenna was calculated from the coaxial cable loss, antenna factor and the signal generator output level obtained in step 5. This value was regarded as final result and recorded in following table 4, table 5 and table 6.

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To determine the Limit for Spurious Emissions the following method was used:

Maximum output power in watts:

Maximum output power in Watt: 0.00587W (see table 2)

The emission must be reduced by:

$$43+10*\text{Log}(0.00587) = 20.69 \text{ dB}$$

Therefore, the Emission Limit equals:

$$10*\text{Log}(0.00587*1000) - 20.69\text{dB} = -13\text{dBm}$$

While testing, the EUT was placed in 3 orthogonal planes and the maximum reading was recorded in the following tables.

Table 3: Spurious Emission: EUT operated at lowest channel

| Freq. (MHz) | Polarization (V/H) | Transmit power (dBm) | Limit (dBm) |
|----------------|-----------------------|-------------------------|----------------|
| 3211.750 | V | -21.9 | -13 |
| 3854.500 | V | -24.1 | -13 |
| 4496.500 | V | -25.9 | -13 |
| 5782.000 | V | -21.9 | -13 |
| 6424.000 | V | -22.9 | -13 |
| 2569.750 | H | -24.8 | -13 |
| 3211.750 | H | -24.1 | -13 |
| 5139.250 | H | -25.8 | -13 |
| 5782.000 | H | -22.5 | -13 |
| 6424.000 | H | -23.8 | -13 |
| *) | | | -13 |

Table 4: Spurious Emission: EUT operated at highest channel

| Freq. (MHz) | Polarization (V/H) | Transmit power (dBm) | Limit (dBm) |
|----------------|-----------------------|-------------------------|----------------|
| 2583.250 | V | -30.0 | -13 |
| 3229.000 | V | -20.4 | -13 |
| 5166.250 | V | -25.5 | |
| 6458.500 | V | -25.3 | -13 |
| 2582.500 | H | -31.1 | -13 |
| 3229.000 | H | -24.7 | -13 |
| *) | | | -13 |

*) Disturbances are far below the limit. Please refer to the Appendix 1 for the noise floor measured maximum among high and low receiving channels.

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5.3 Modulation Characteristics measurement

RESULT:

Pass

| | | |
|--|---|--|
| Date of testing | : | 24.Dec.2008 |
| Test specification | : | FCC Part 2 Per Section 2.1047(a) and (b) |
| Limits | : | FCC Part 2 Per Section 2.1047(a) and (b) |
| Deviations from Standard Test procedures | : | None |
| Operation mode | : | Transmitting |
| Temperature | : | 22°C |
| Humidity | : | 65% |

Measurement procedure:

Audio frequency response:

- 1) Configure the EUT as shown in diagram 3.
- 2) Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
- 3) Vary the Audio frequency from 200 Hz to 20 kHz and record the frequency deviation

Modulation limit:

- 1). Configure the EUT as shown in diagram 3, adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB) and vary the input level from -30db to +20dB. Record the frequency deviation obtained as a function of the input level.
- 2). Repeat step 1 with input frequency changing to 500Hz, 800Hz, 1kHz, 3kHz, 5kHz, 8kHz, 10kHz and 15kHz in sequence.

Refer to appendix for curves.

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5.4 Occupied Bandwidth for FCC Part 74 Per Section 74.861(e)(3), 74.861(e)(5) and 74.861(e)(6)

RESULT:

Pass

| | | |
|---|---|--|
| Date of testing | : | 15.Dec.2008 |
| Test specification | : | FCC Part 2 Per Section 2.1049(c)1 |
| Limits | : | FCC Part 74 Per Section 74.861(e)(3), 74.861(e)(5) and 74.861(e)(6) |
| Deviations from Standard Test procedures | : | None |
| Operation mode | : | Transmitting (modulated) |
| Temperature | : | 22°C |
| Humidity | : | 65% |

Measurement procedure:

1. Connect the EUT as diagram 3 in Section 4.5.
2. Plot the unmodulated chart shows on spectrum.
3. According to the result of Modulation Characteristics, set the output of the signal generator to 200Hz, 500Hz, 1 kHz, 5 kHz, 10 kHz, 15 kHz increase the amplitude of the signal, until maximum modulation is shown on the spectrum analyzer.
4. The Occupied Bandwidth was measured in appendix of this report

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Table 5: Maximum Deviation

| | |
|----------|---------|
| Reading: | 35.1kHz |
| Limit: | ± 75kHz |

Table 6: Operation Bandwidth (Bn)

| Parameter: | M | D |
|---|---------|---------|
| Reading | 10kHz | 35.1kHz |
| Bn: | 90.2kHz | |
| Limit: | 200kHz | |
| Emission Designator: | 90K2F3E | |
| Bn=2M+2D*K Bn: operation bandwidth M: Max. Modulation Frequency D: Peak Frequency Deviation K=1 | | |

Refer for appendix for measurements.

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5.5 Frequency tolerance for FCC Part 74 Per Section 74.861(e)(4)

RESULT:

Pass

| | | |
|--|---|---|
| Date of testing | : | 18.Dec.2008 |
| Test specification | : | FCC Part 2 Per Section 2.1055 |
| Limits | : | FCC Part 74 Per Section 74.861(e)(4) |
| Deviations from Standard Test procedures | : | None |
| Test procedure | : | Procedure specified in ANSI C63.4 were followed |
| Operation mode | : | Transmitting (unmodulated) |
| Temperature | : | -30°C to 50°C |
| Humidity | : | 65% |

Measurement procedure:

A. Frequency stability versus environmental temperature

1. Setup the configuration as diagram 4 in section 4.5 for frequency measured inside an environment chamber and install new battery in the EUT.
2. Turn on EUT and set spectrum analyzer center frequency to the EUT operating frequency. Set spectrum analyzer Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1 kHz and Frequency Span to 50kHz. Record this frequency as reference frequency.
3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

B. Frequency stability versus input voltage

1. Setup the configuration as diagram 4 for frequencies measurement at temperature range from 15°C to 25°C. Otherwise, an environment chamber set for a temperature of 20°C shall be used.
2. Set spectrum analyzer center frequency to the EUT operating frequency. Set spectrum analyzer Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1 kHz. Record this frequency as reference frequency.
3. Set the supply voltage to the nominal voltage of the EUT.
4. Turn the EUT on and measure the EUT operating frequency
5. Repeat step 4 with decreased supply voltage, record all measured frequencies on each voltage step.
6. Stop the test until the lowest voltage specified by the manufacturer is reached or the EUT case to emission radio signal.

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Table 7: the measurement of Frequency tolerance (temperature)

| Test condition | Power supply (VDC) | Low Frequency (MHz) (642.375) | High Frequency (MHz) (645.750) |
|----------------------------|-----------------------|---------------------------------------|--|
| -30°C | 9 | 642.371600 | 645.749800 |
| -20°C | 9 | 642.372900 | 645.751100 |
| -10°C | 9 | 642.373900 | 645.752900 |
| 0°C | 9 | 642.373500 | 645.753100 |
| 10°C | 9 | 642.373600 | 645.750600 |
| 20°C | 9 | 642.373600 | 645.751600 |
| 30°C | 9 | 642.371000 | 645.747600 |
| 40°C | 9 | 642.371000 | 645.747800 |
| 50°C | 9 | 642.371450 | 645.746570 |
| Frequency Error: | | 0.004 | 0.00343 |
| Frequency tolerance: | | 0.0005% | 0.0005% |
| Frequency Tolerance Limit: | | 0.0050% | |

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Table 8: the measurement of Frequency tolerance (supply voltage)

| Temperature (°C) | Power supply (VDC) | Low Frequency (MHz) (642.375) | High Frequency (MHz) (645.750) |
|----------------------------|-----------------------|---------------------------------------|--|
| 25 | 9.0V | 642.374000 | 645.750100 |
| 25 | 8.5V | 642.374000 | 645.750000 |
| 25 | 8.0V | 642.374000 | 645.749900 |
| 25 | 7.5V | 642.373600 | 645.749900 |
| 25 | 7.0V | 642.373500 | 645.749800 |
| 25 | 6.5V | 642.373500 | 645.749400 |
| 25 | 6.0V | 642.373500 | 645.749500 |
| 25 | 5.5V | 642.373400 | 645.749500 |
| 25 | 5.0V | 642.373600 | 645.749400 |
| 25 | 4.5V | 642.373600 | 645.749600 |
| 25 | 4.0V | 642.373700 | 645.749600 |
| 25 | 3.5V | 642.373700 | 645.749900 |
| 25 | 3.0V | No signal | No signal |
| Frequency Error: | | 0.0016 | 0.0006 |
| Frequency tolerance: | | 0.0002% | 0.0001% |
| Frequency Tolerance Limit: | | 0.0050% | |

The equipment remains on channel when the power source was reduced below the lower extreme test voltage limit until zero. The EUT ceases to function at voltage DC 3.0V.

6 Photographs of the Test Set-Up

Photograph 1: Set-up for Radiation Measurement Below 1GHz



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Photograph 2: Set-up for Radiation Measurement above 1GHz



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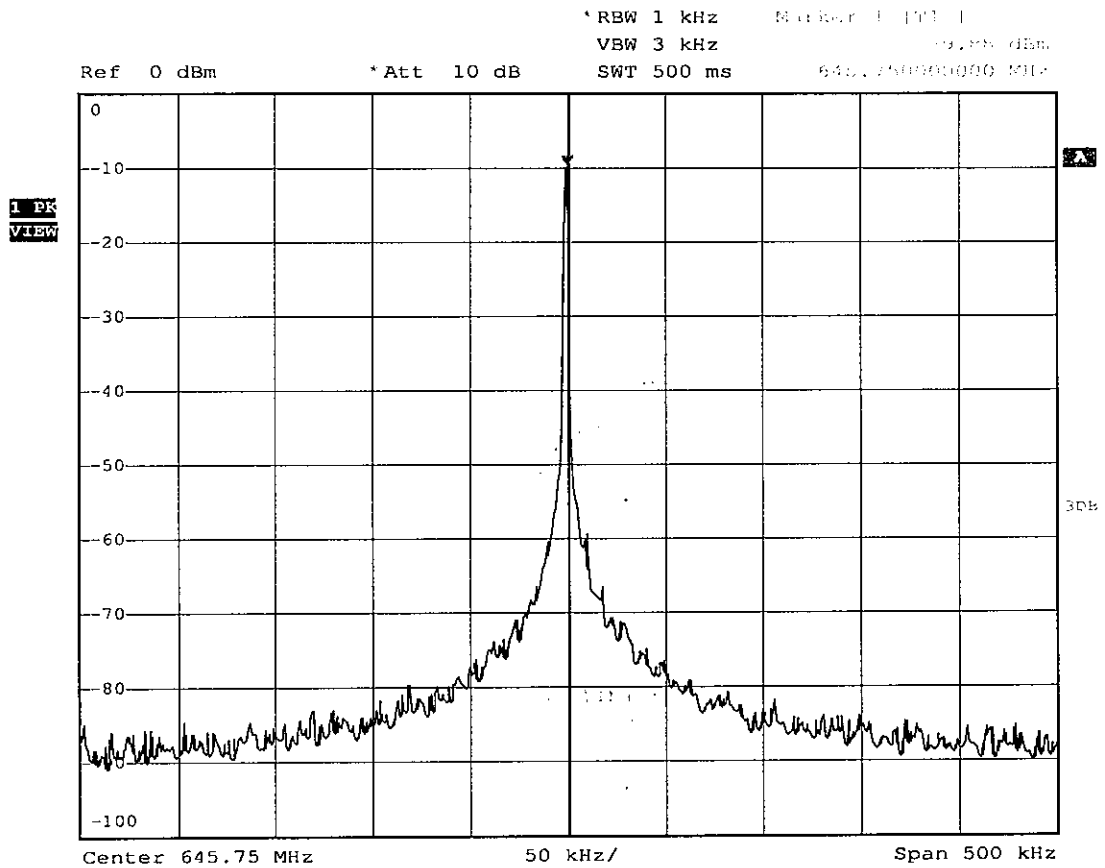
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Occupied Bandwidth:

High channel

Unmodulation RF output



down 3dB

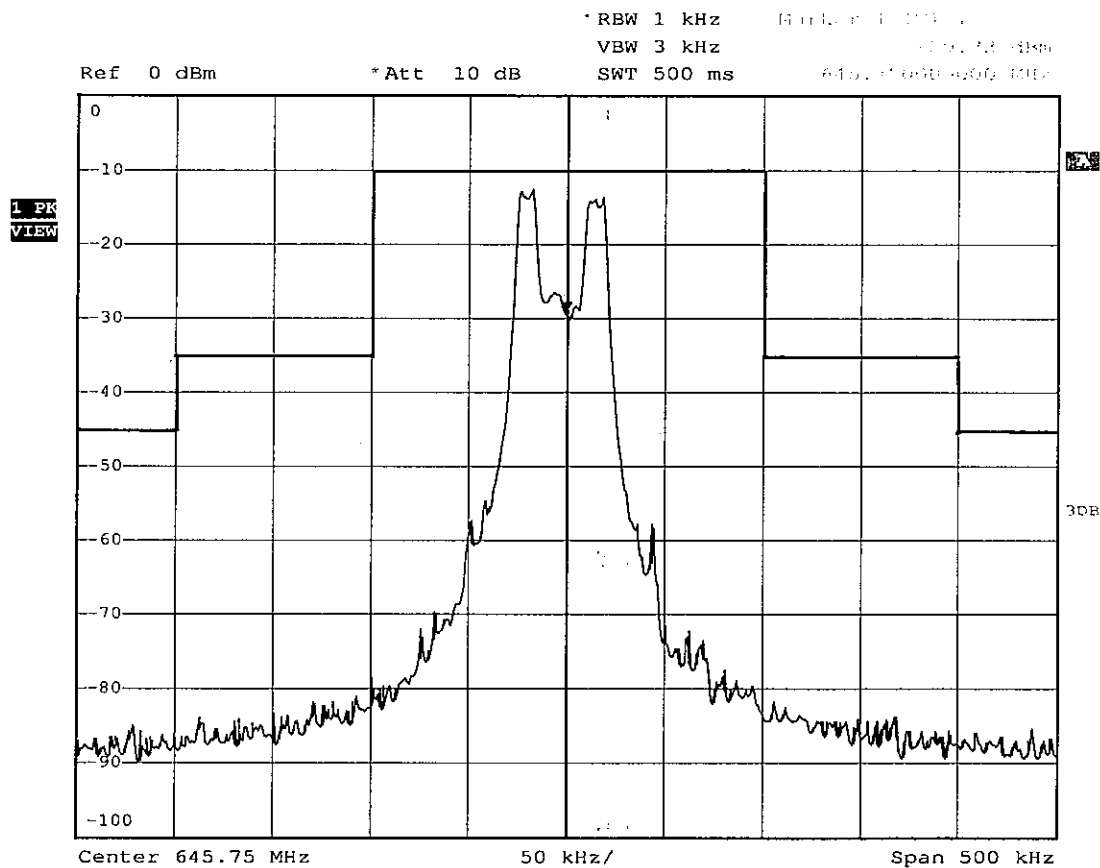
Date: 12.DEC.2008 01:07:16

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Input Audio signal: 200Hz



down 3dB

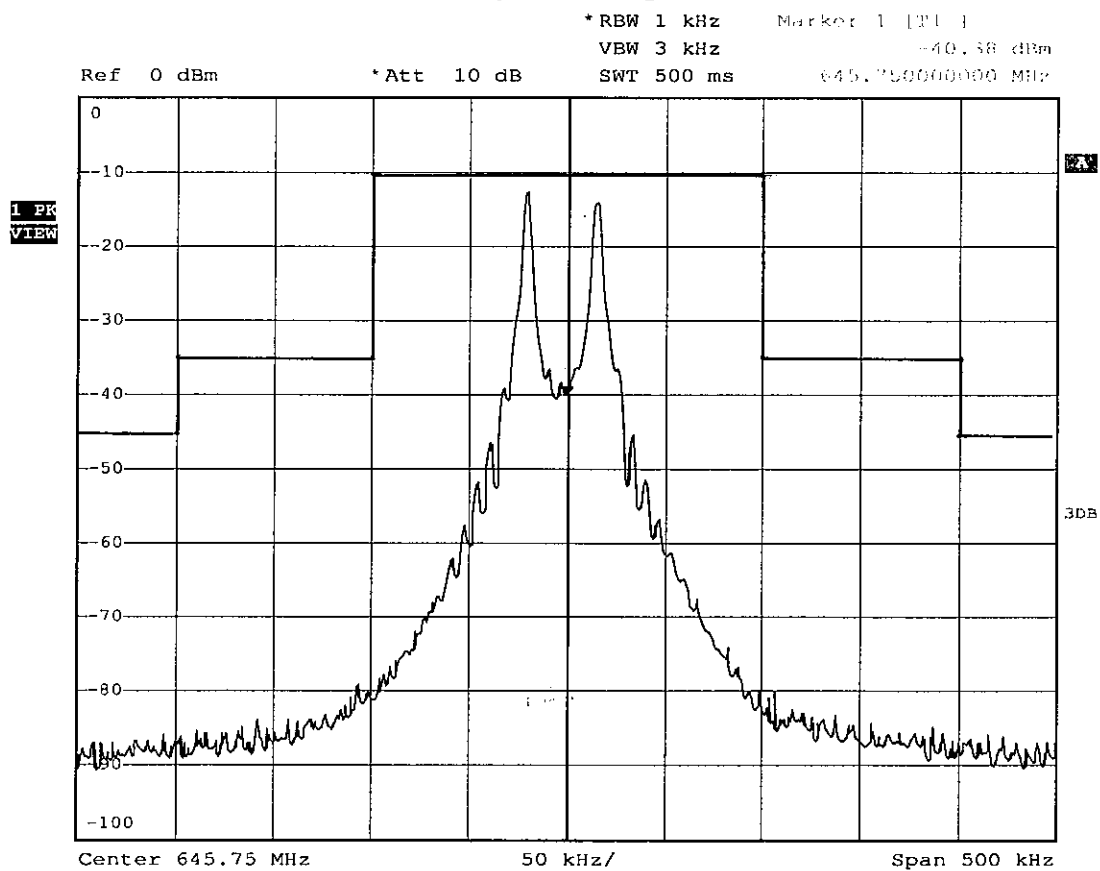
Date: 12.DEC.2008 01:18:27

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Input Audio signal: 500Hz



down 3dB

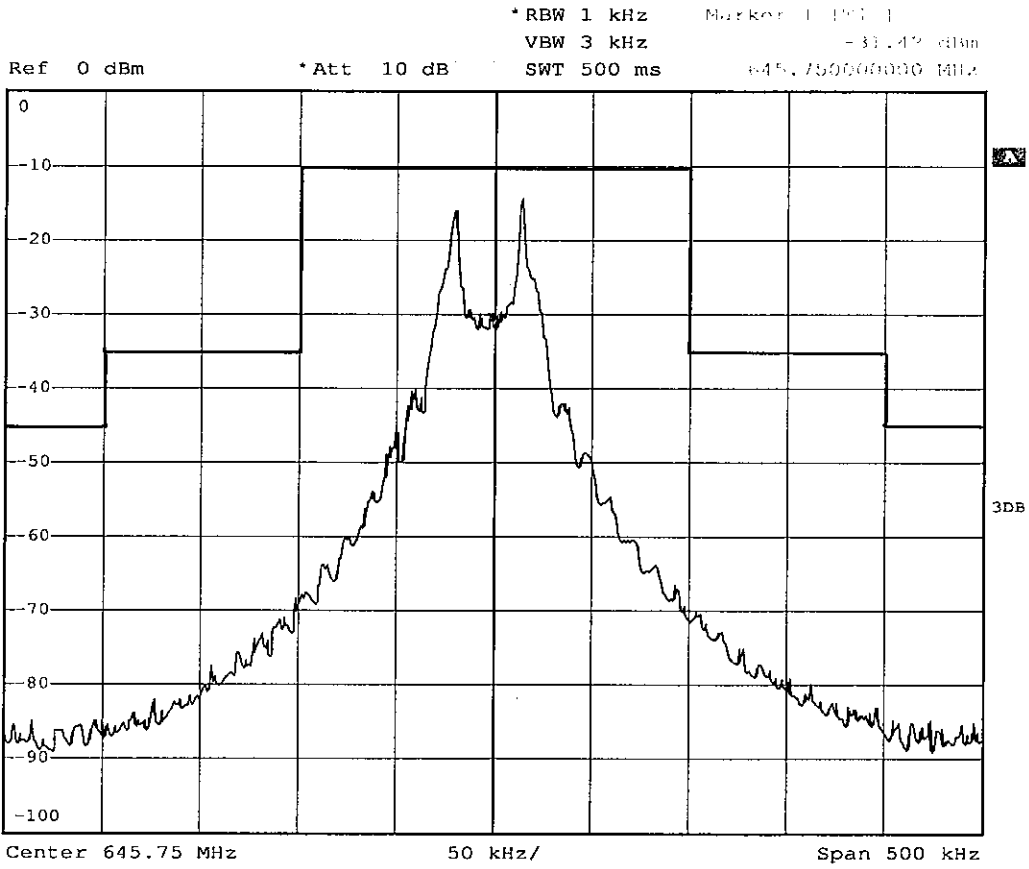
Date: 12.DEC.2008 01:16:36

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Input Audio signal: 1 kHz



down 3dB

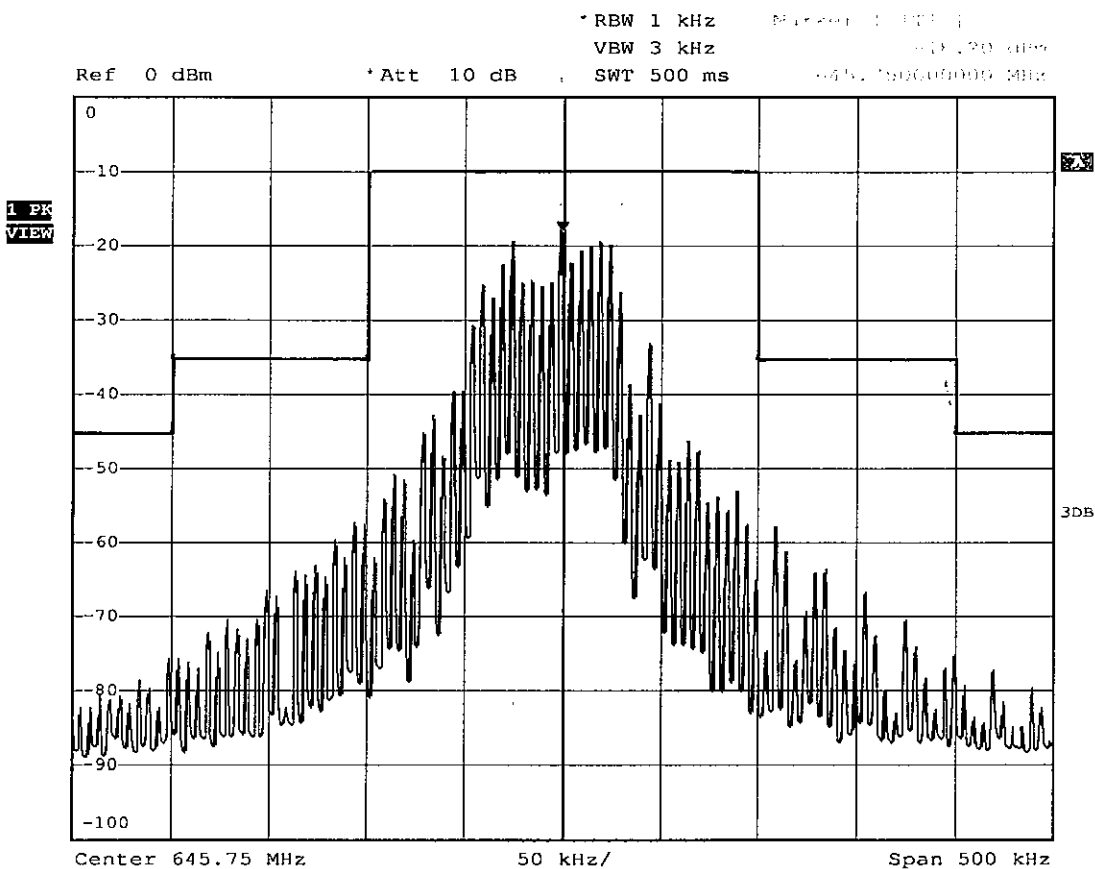
Date: 12.DEC.2008 01:12:56

Prüfbericht - Nr.:
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Input Audio signal: 5 kHz



down 3dB

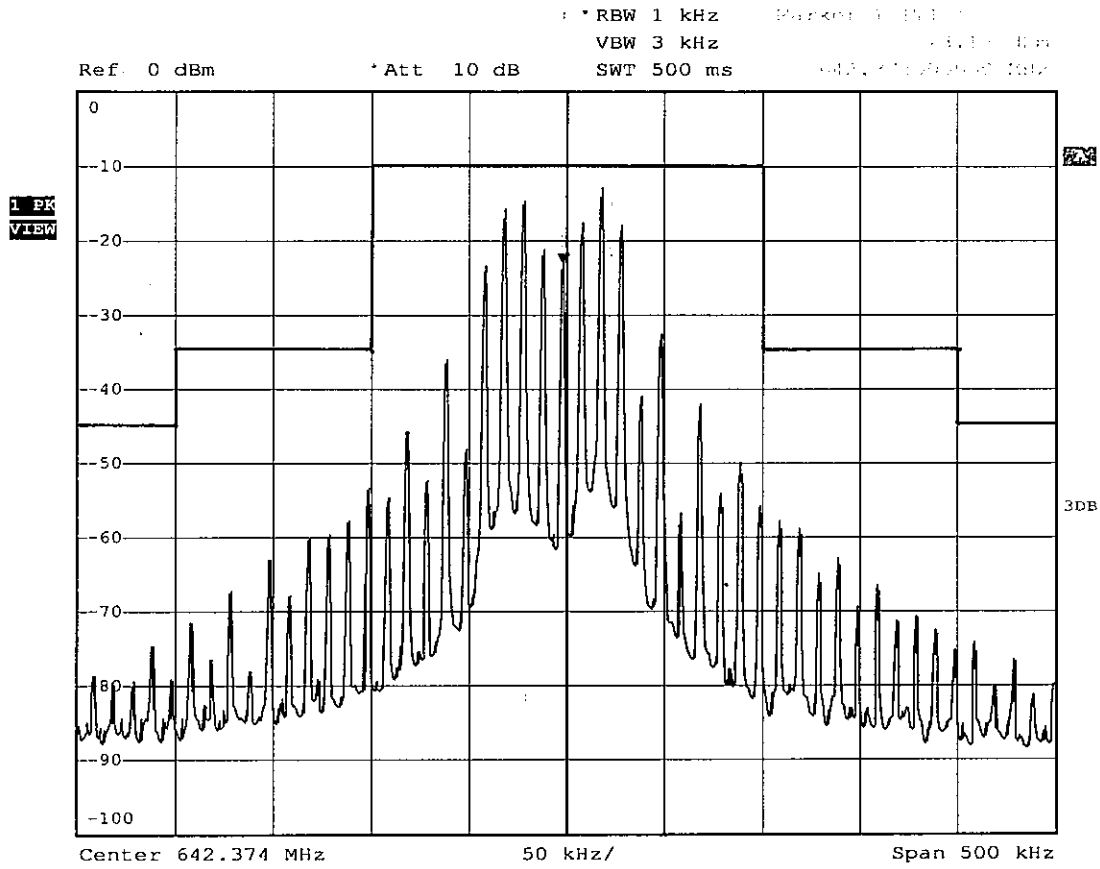
Date: 12.DEC.2008 01:11:16

Prüfbericht - Nr.:
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Input Audio signal: 10 kHz



down 3dB

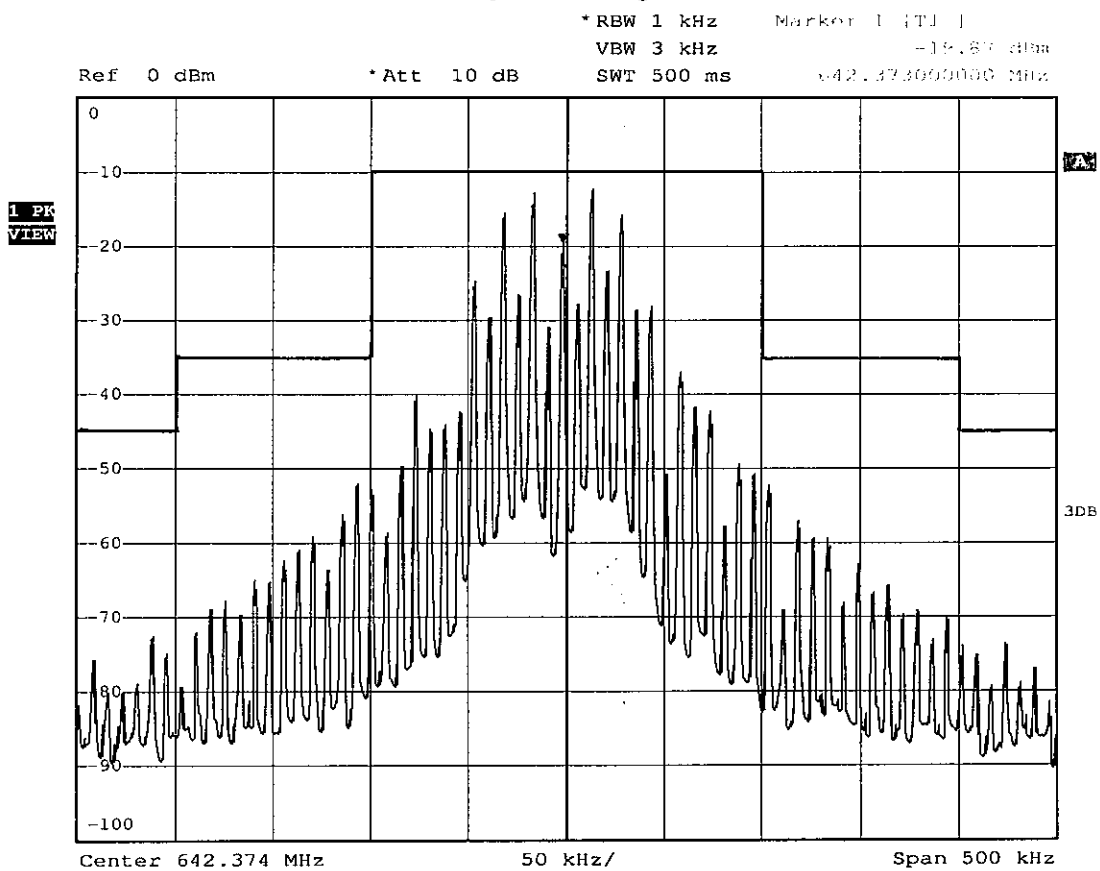
Date: 12.DEC.2008 00:53:04

Prüfbericht - Nr.:
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Input Audio signal: 15 kHz



down 3dB

Date: 12.DEC.2008 00:52:30

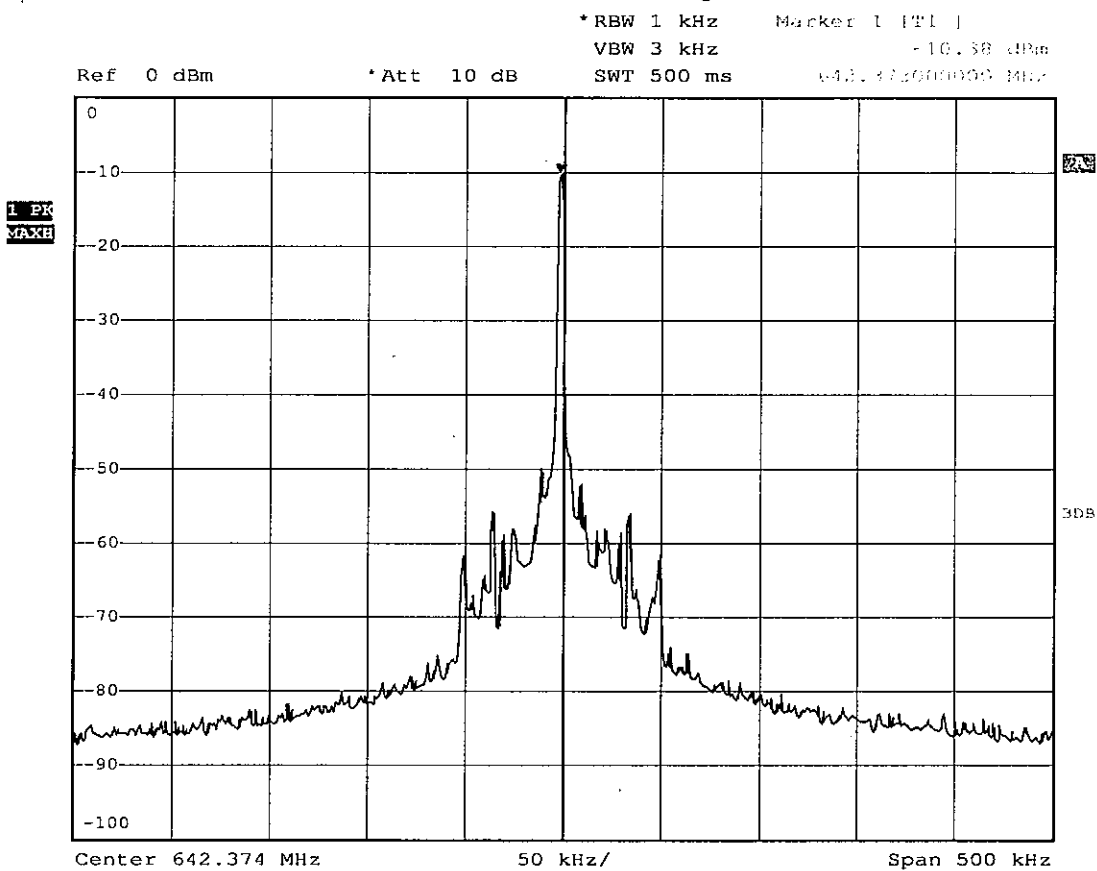
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Low channel

Unmodulated signal



down 3dB

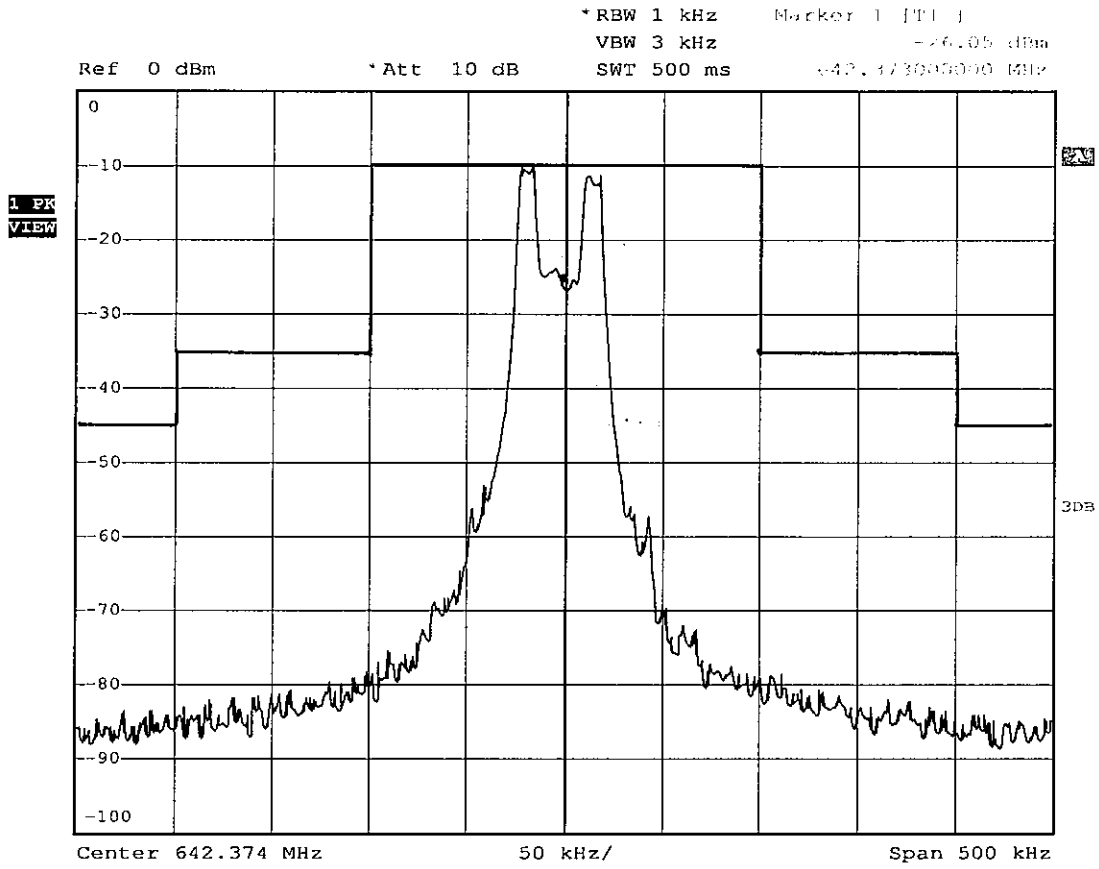
Date: 12.DEC.2008 00:46:08

Prüfbericht - Nr.:
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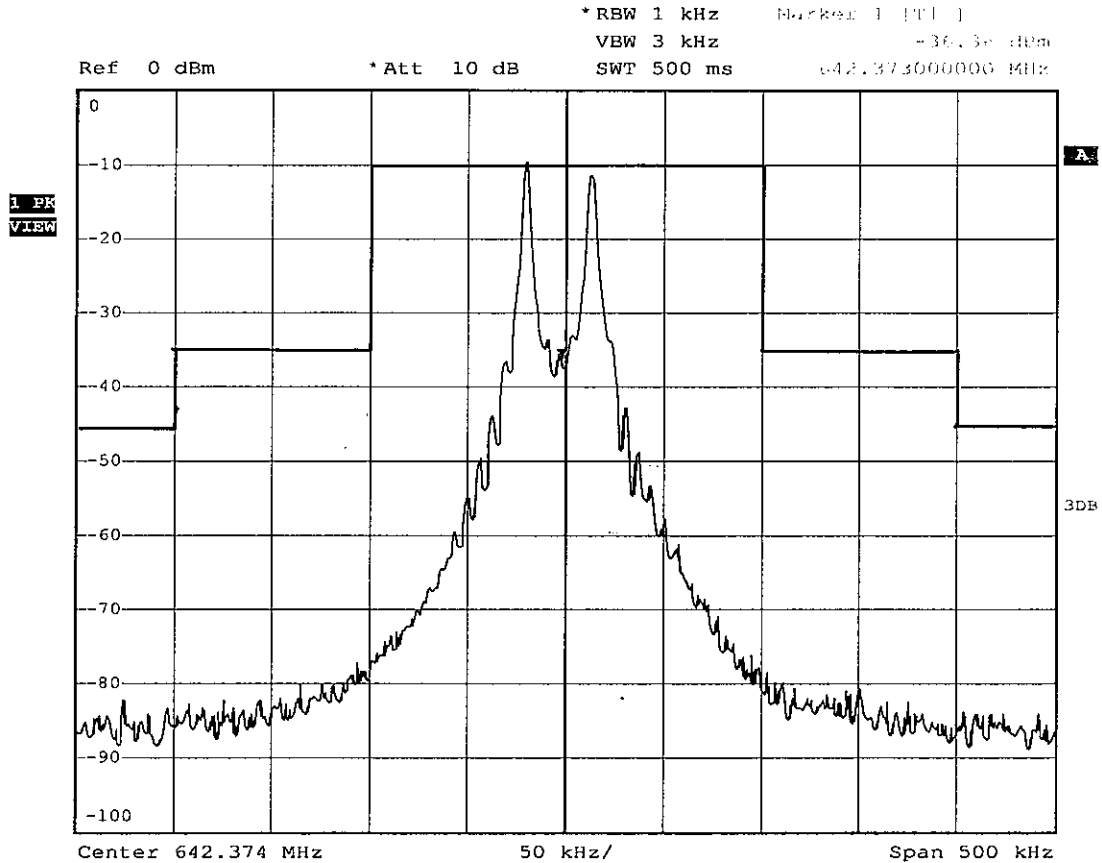
Input Audio signal: 200Hz



down 3dB

Date: 12.DEC.2008 00:59:24

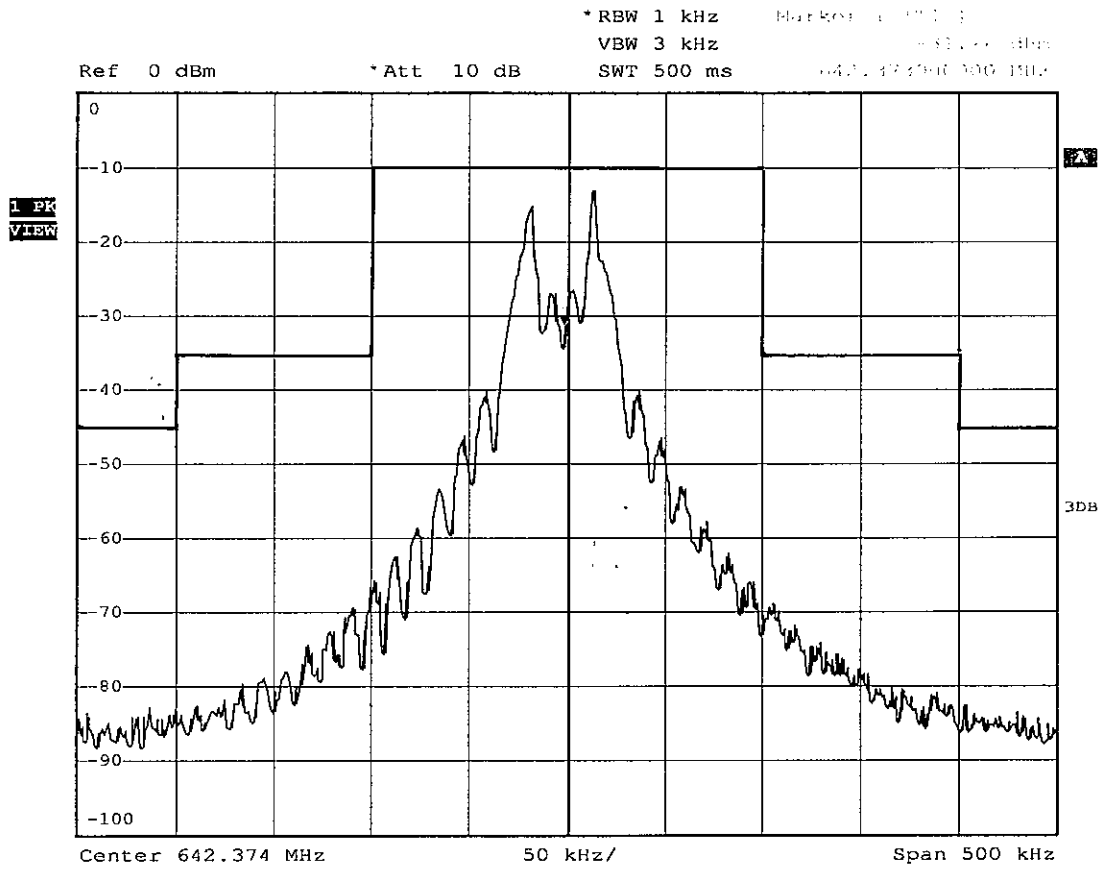
Input Audio signal: 500Hz



down 3dB

Date: 12.DEC.2008 00:57:21

Input Audio signal: 1 kHz



down 3dB

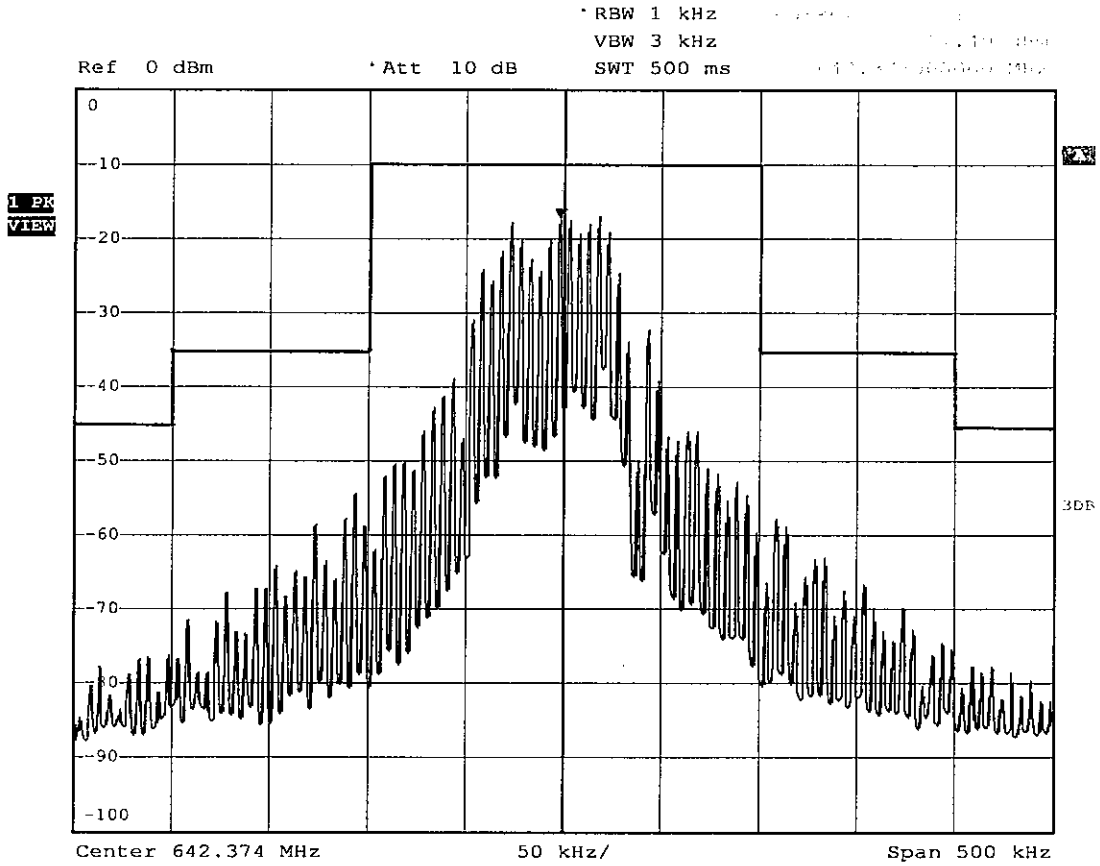
Date: 12.DEC.2008 00:55:39

Prüfbericht - Nr.:
Test Report No.

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Input Audio signal: 5kHz



down 3dB

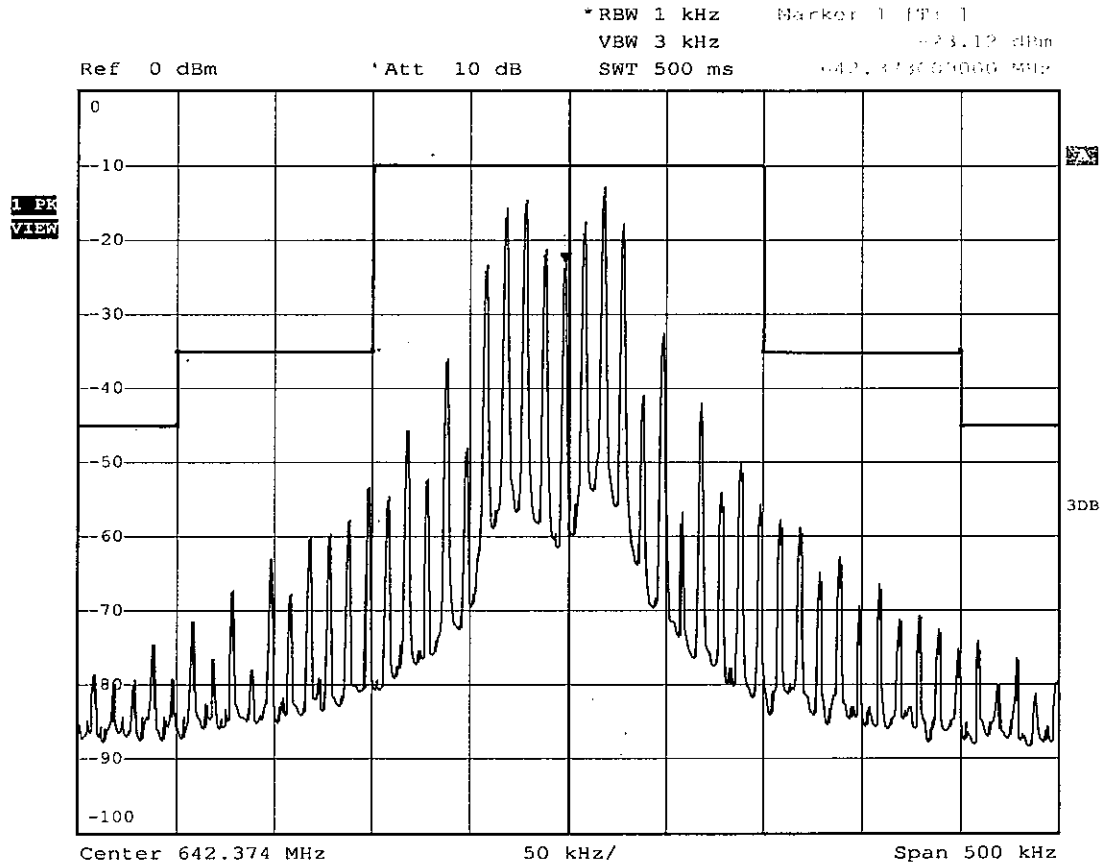
Date: 12.DEC.2008 00:54:14

Prüfbericht - Nr.:
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Input Audio signal: 10 kHz



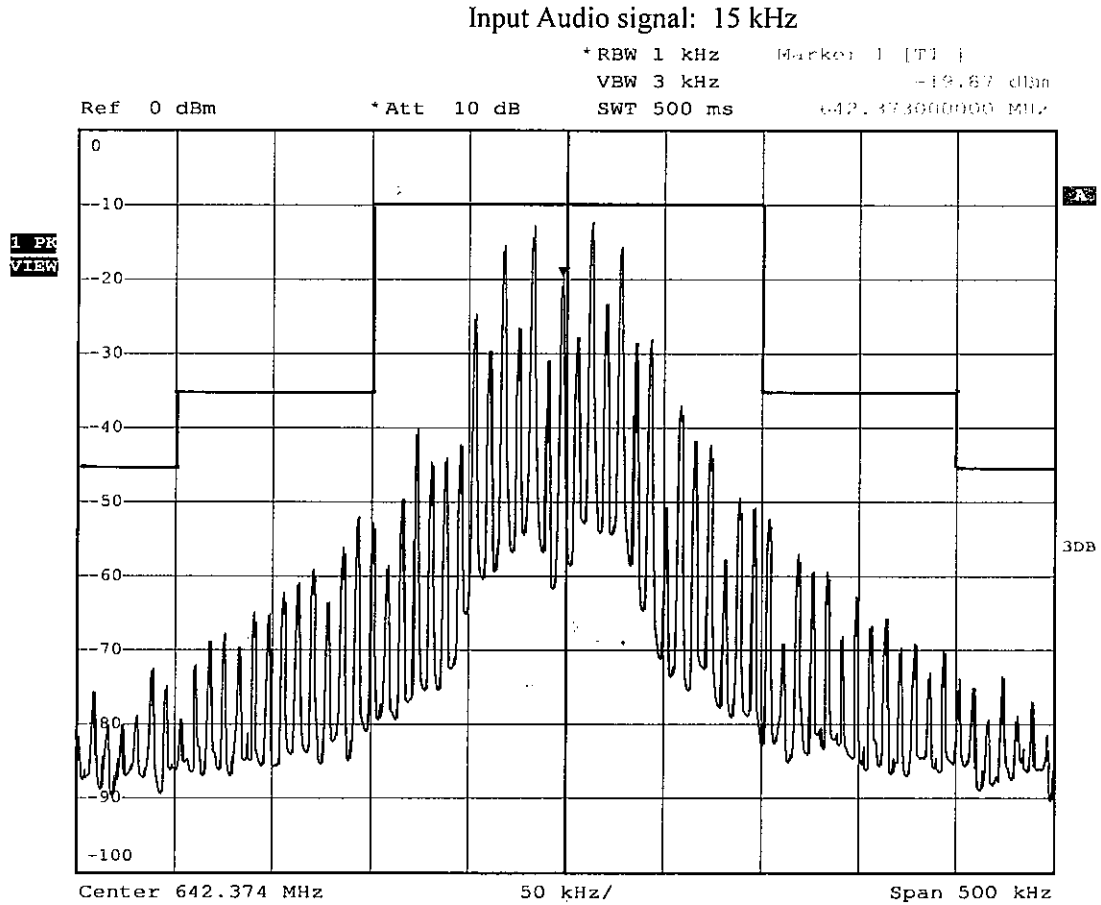
down 3dB

Date: 12.DEC.2008 00:53:04

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down 3dB

Date: 12.DEC.2008 00:52:30

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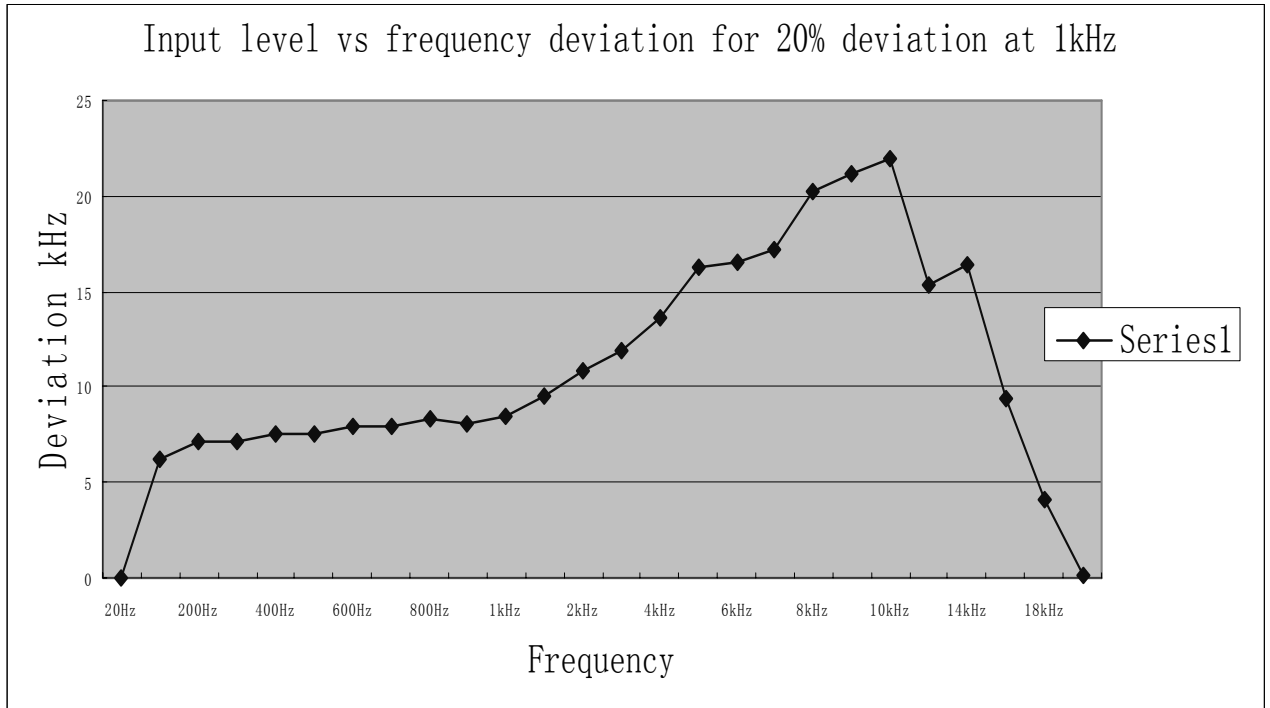
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Test Report No.

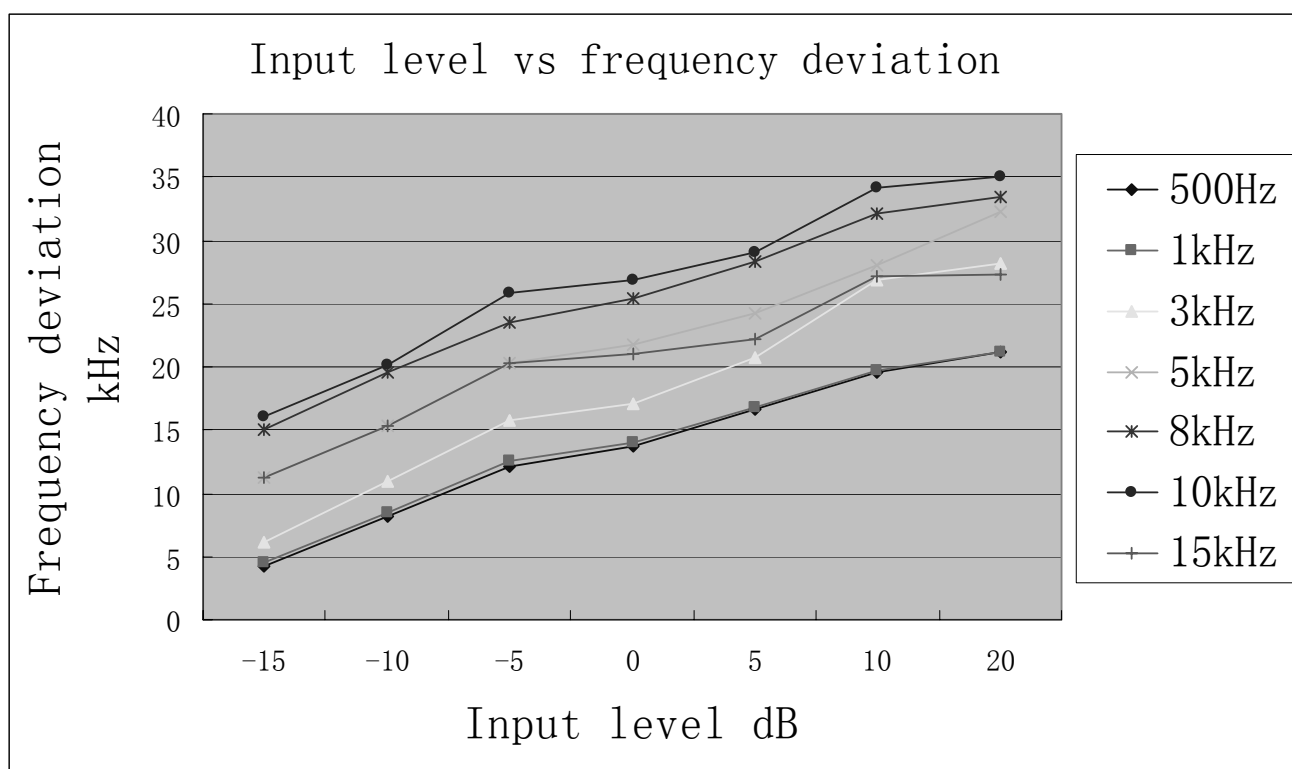
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Modulation characteristics:

| Frequency (Hz) | Deviation (kHz) |
|----------------|-----------------|
| 100 | 6.2 |
| 200 | 7.1 |
| 300 | 7.2 |
| 400 | 7.5 |
| 500 | 7.6 |
| 600 | 8.0 |
| 700 | 7.9 |
| 800 | 8.3 |
| 900 | 8.1 |
| 1000 | 8.5 |
| 1500 | 9.5 |
| 2000 | 10.9 |
| 3000 | 11.9 |
| 4000 | 13.6 |
| 5000 | 16.3 |
| 6000 | 16.5 |
| 7000 | 17.2 |
| 8000 | 20.3 |
| 9000 | 21.2 |
| 10000 | 21.9 |
| 12000 | 15.3 |
| 14000 | 16.4 |
| 16000 | 9.4 |
| 18000 | 4.1 |
| 20000 | --- |



| Modulation (dB) | | -15 | -10 | -5 | 0 | 5 | 10 | 20 |
|-----------------|-----|------|------|------|------|------|------|------|
| 500Hz | kHz | 4.2 | 8.2 | 12.1 | 13.7 | 16.6 | 19.6 | 21.1 |
| 1kHz | kHz | 4.5 | 8.4 | 12.5 | 14 | 16.8 | 19.7 | 21.2 |
| 3kHz | kHz | 6.2 | 10.9 | 15.8 | 17.1 | 20.8 | 26.8 | 28.2 |
| 5kHz | kHz | 11.3 | 15.3 | 20.3 | 21.7 | 24.3 | 28.1 | 32.2 |
| 8kHz | kHz | 15.1 | 19.6 | 23.5 | 25.4 | 28.3 | 32.1 | 33.5 |
| 10kHz | kHz | 16.1 | 20.1 | 25.8 | 26.8 | 29.1 | 34.2 | 35.1 |
| 15kHz | kHz | 11.2 | 15.3 | 20.3 | 21 | 22.2 | 27.1 | 27.3 |



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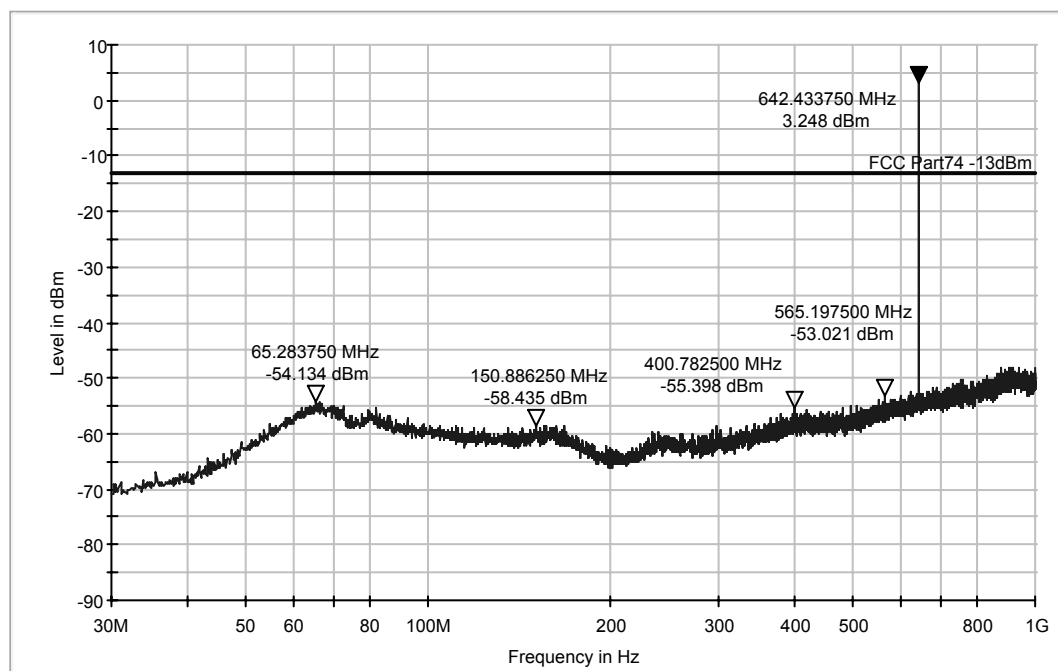
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Radiated spurious emissions:**Test Information**

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: CT7
Operating Conditions: TX at lowest channel
Comment: Vertical

Subrange 1

Frequency Range: 30MHz - 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



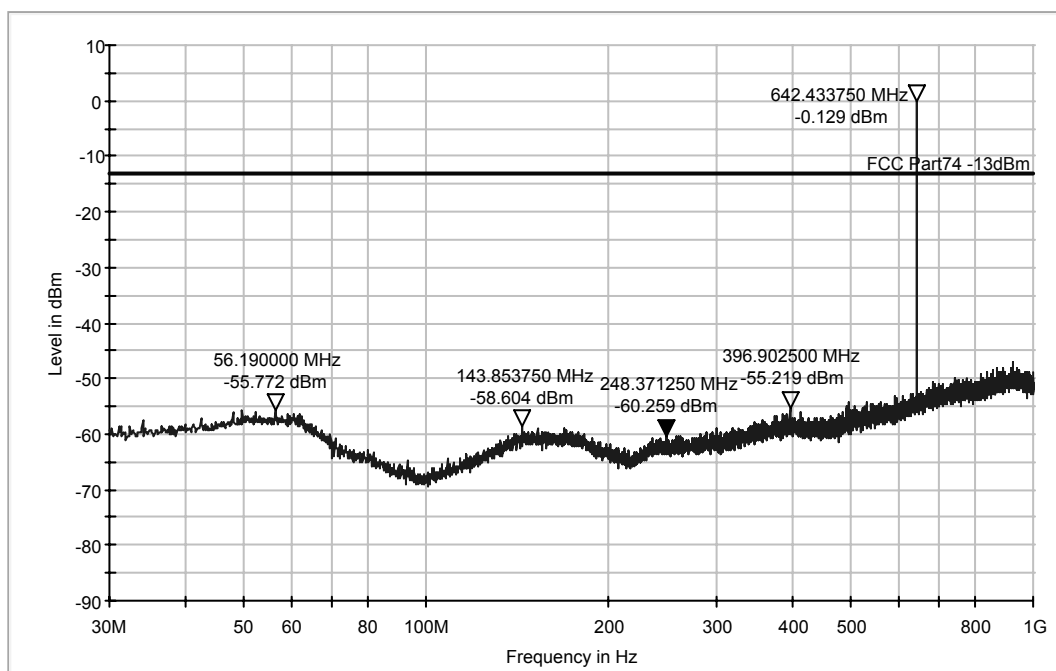
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at lowest channel
 Comment: Horizontal

Subrange 1

Frequency Range: 30MHz - 1GHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



28.Nov.2008

Prüfbericht - Nr.:

16015082 001

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Test Report No.

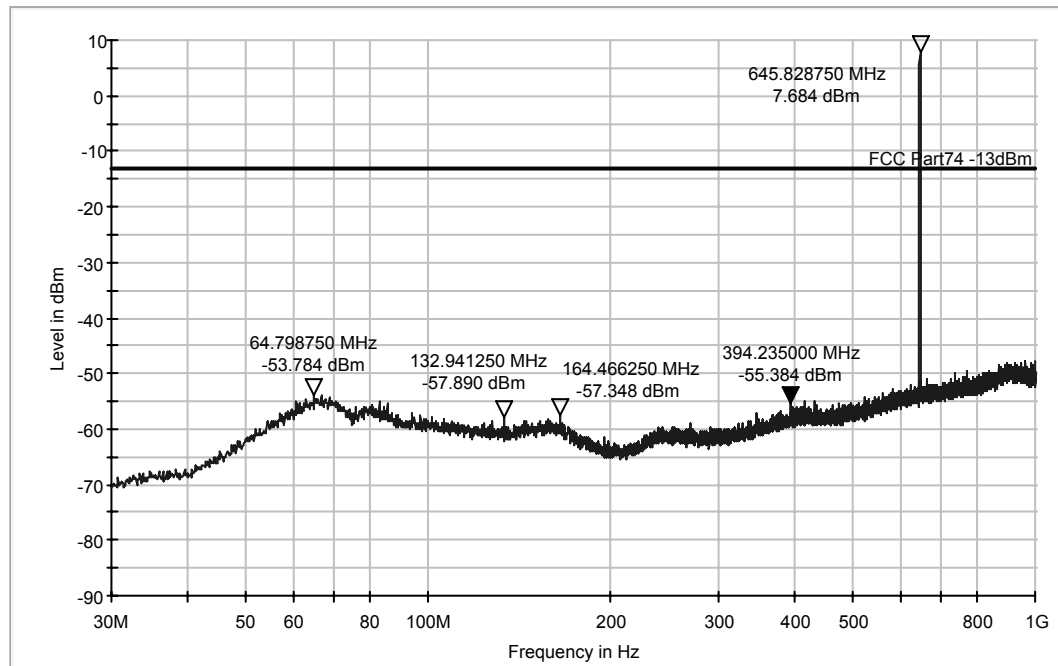
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Test Information

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: CT7
Operating Conditions: TX at highest channel
Comment: Vertical

Subrange 1

Frequency Range: 30MHz - 1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



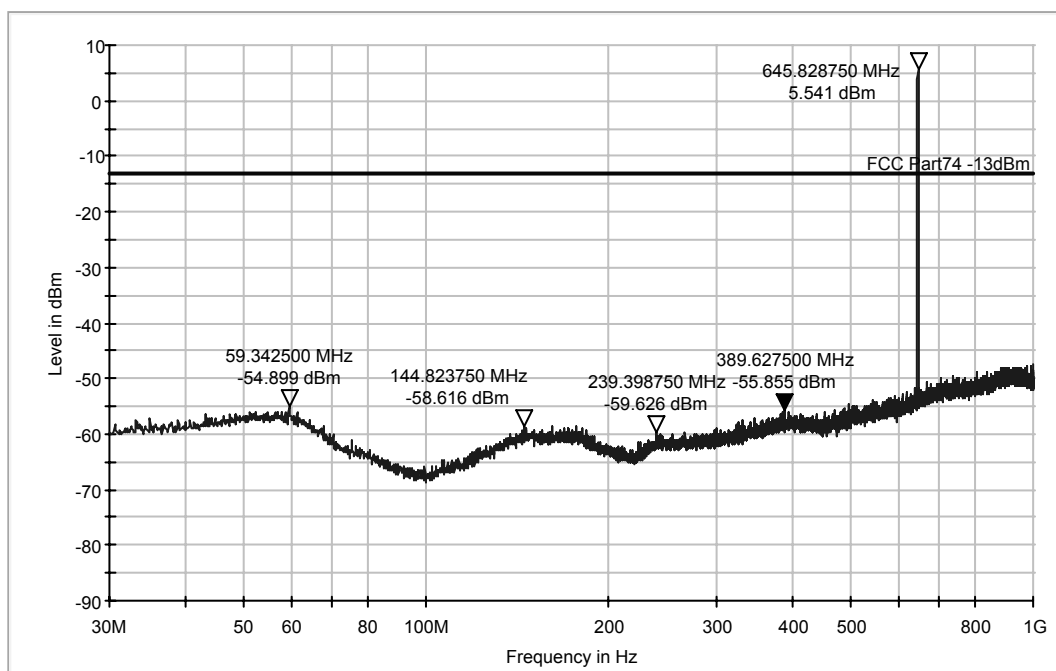
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at highest channel
 Comment: Horizontal

Subrange 1

Frequency Range: 30MHz - 1GHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



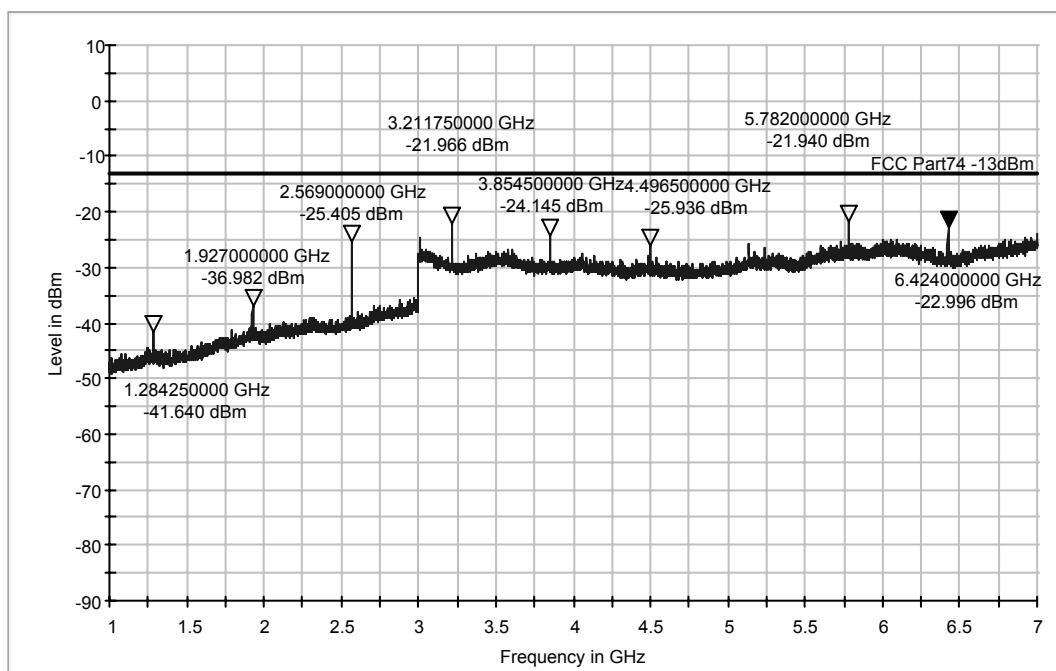
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at lowest channel
 Comment: Vertical

Subrange 1

Frequency Range: 1GHz - 7GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



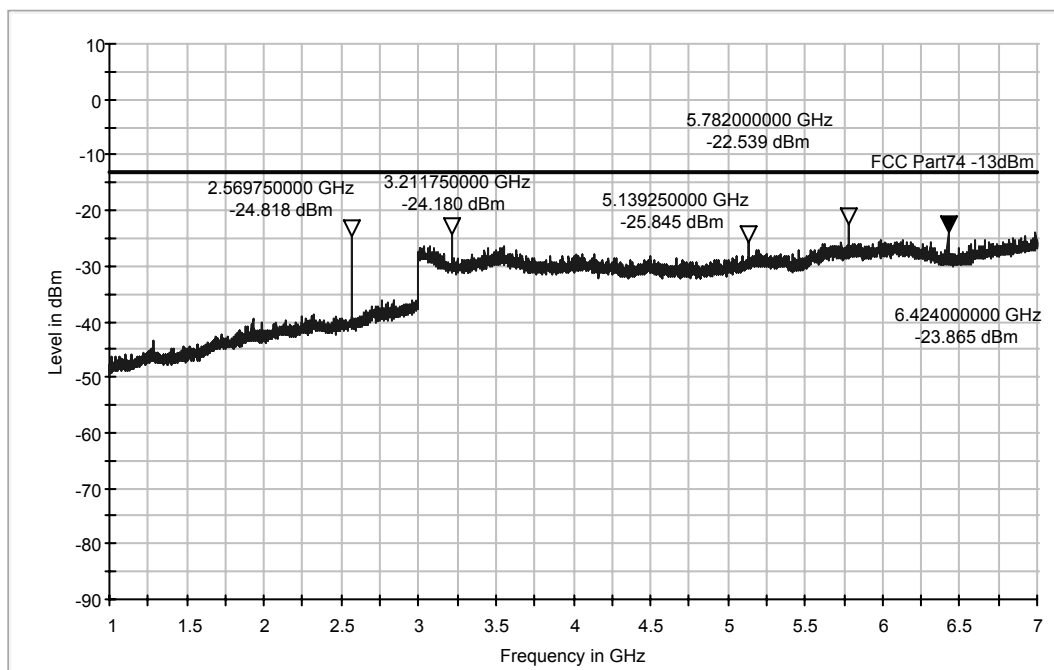
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at lowest channel
 Comment: Horizontal

Subrange 1

Frequency Range: 1GHz - 7GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



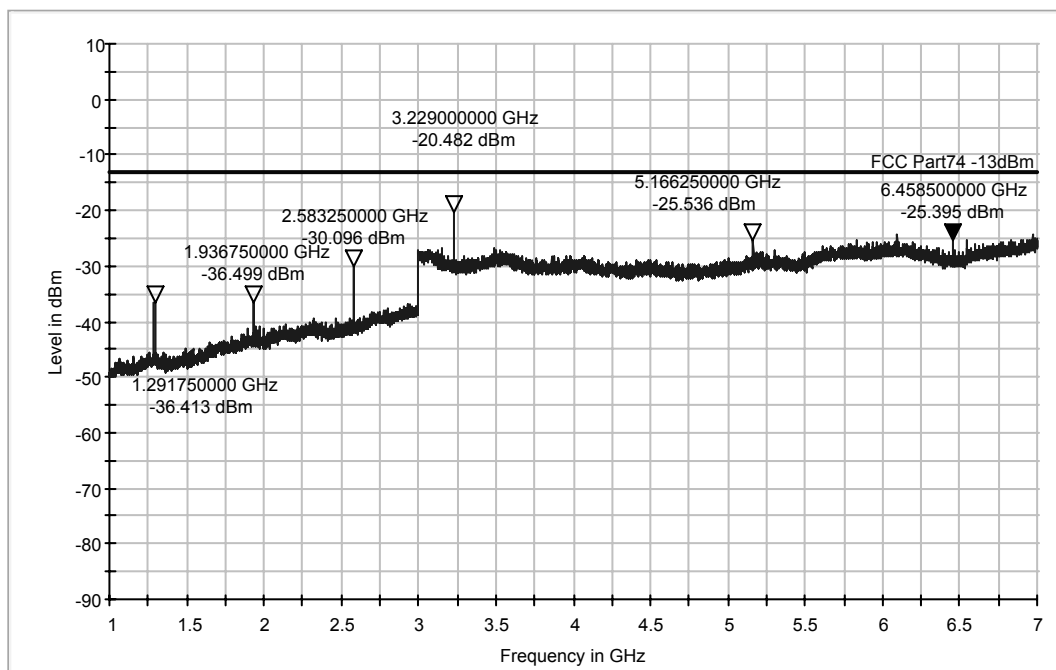
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at highest channel
 Comment: Vertical

Subrange 1

Frequency Range: 1GHz - 7GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



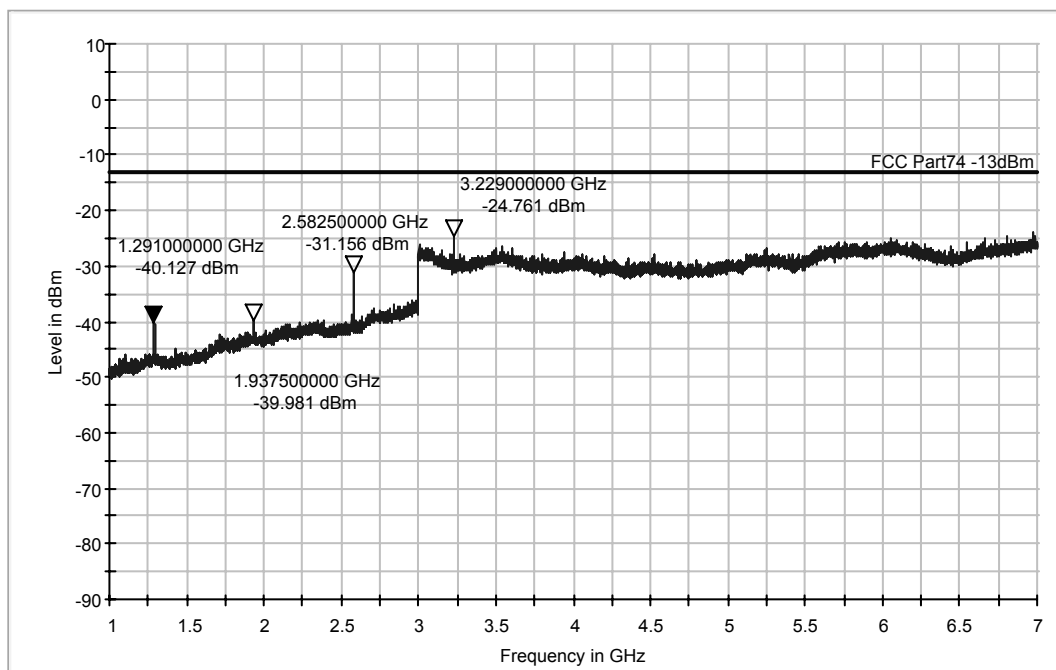
28.Nov.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: CT7
 Operating Conditions: TX at highest channel
 Comment: Horizontal

Subrange 1

Frequency Range: 1GHz - 7GHz
 Receiver: TUV FSP 30
 Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



28.Nov.2008