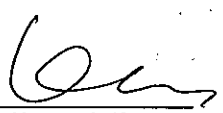
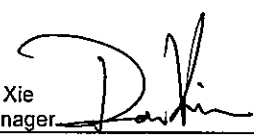


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Auftraggeber: <i>Client:</i>		Sam Ash Music Corporation 262 Duffy Avenue Hicksville NY, 11801 Unite States			
Gegenstand der Prüfung: <i>Test item:</i>		Wireless Microphone			
Bezeichnung: <i>Identification:</i>		HT7	FCC ID: <i>FCC ID</i>	CCRHT7-	
Wareneingangs-Nr.: <i>Receipt No.:</i>		17304084	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 Ken Kuang Project Engineer		 Dec. 31, 2008 Liangdong Xie Project Manager			
<i>Datum</i> <i>Date</i>	<i>Name/Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>	<i>Datum</i> <i>Date</i>	<i>Name/Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen:		Abbreviations:			
P(ass) = entspricht Prüfgrundlage		P(ass) = passed			
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed			
N/A = nicht anwendbar		N/A = not applicable			
N/T = nicht getestet		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
Pre-amplifier	AFS33- 18002650- 30-8P-44	MITEQ	1108282	31.Jul.2009	2 year
Communication Test Set	8920A	HP	3417A04 617	8-Jan-09	1 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:		CCRHT7-
Power supply	:	DC 9V (Powered by Duracell MN1604 9-volt alkaline)
Frequency Response	:	50Hz-15kHz
Frequency Stability	:	0.0027%
Emission designator	:	69K6F3E
Ports	:	N/A
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

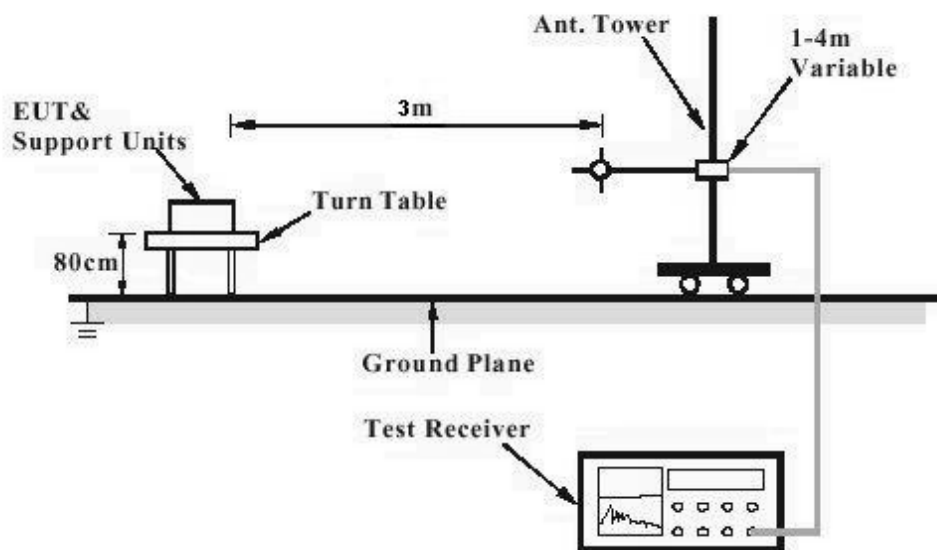


Diagram 2 of Measurement Equipment Configuration for Substitution Method

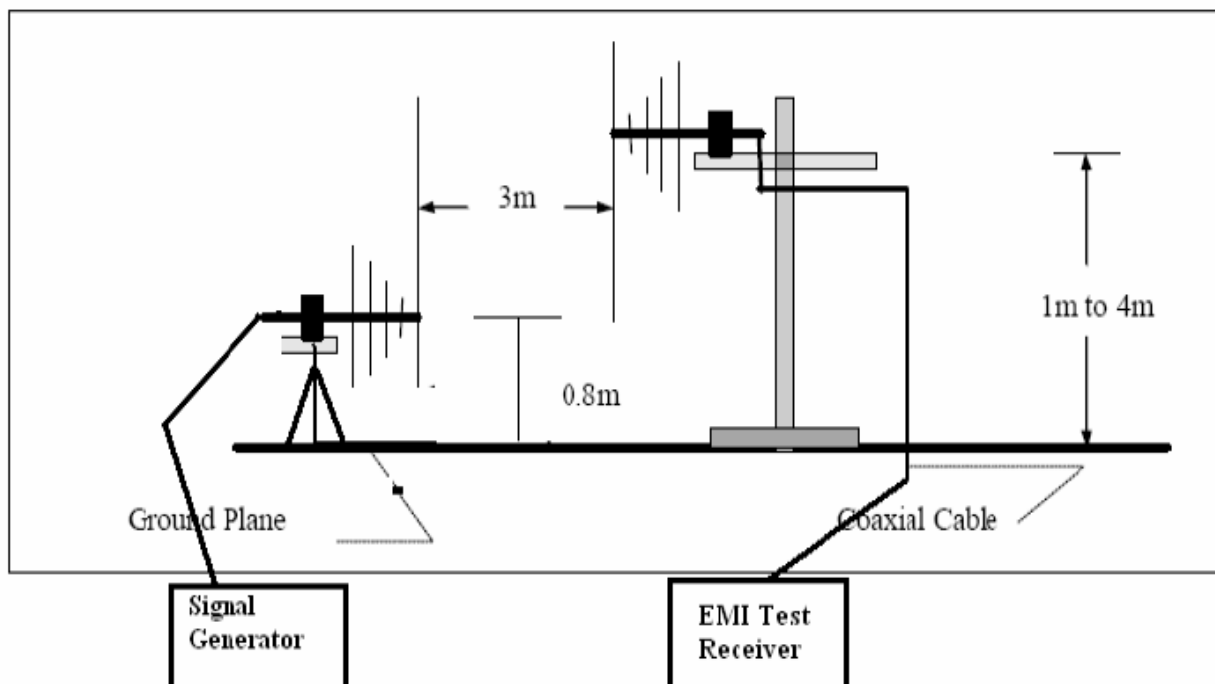


Diagram 3 of Measurement Equipment Configuration for Testing Modulation Characteristics measurement

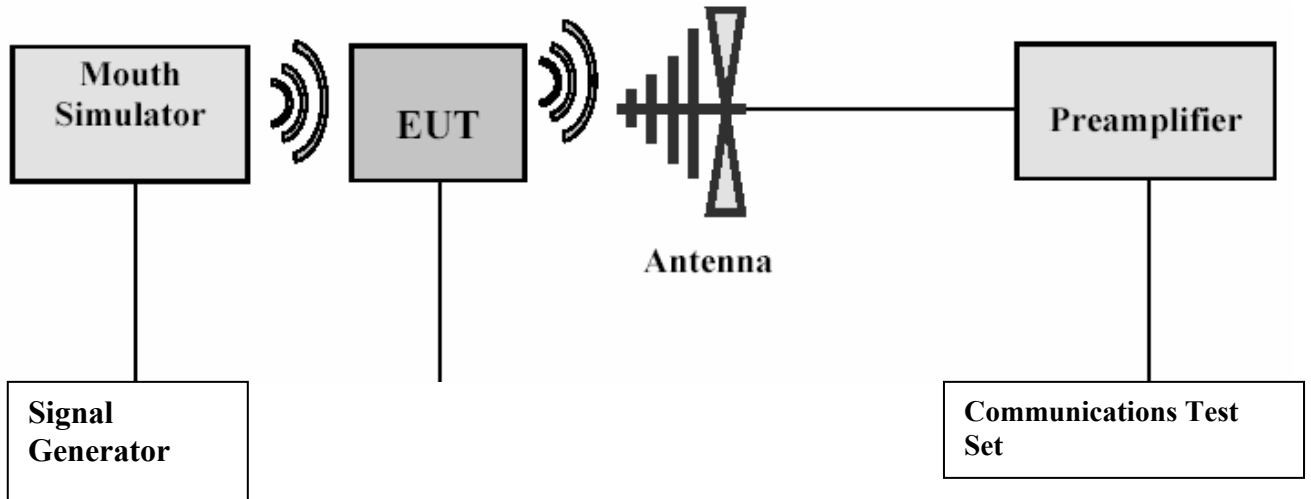
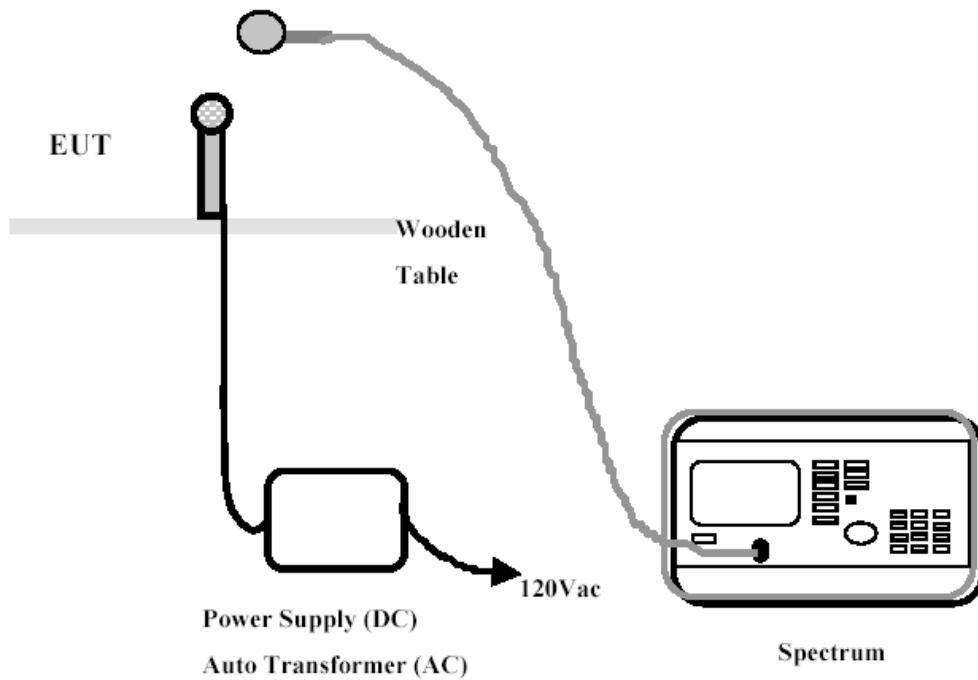
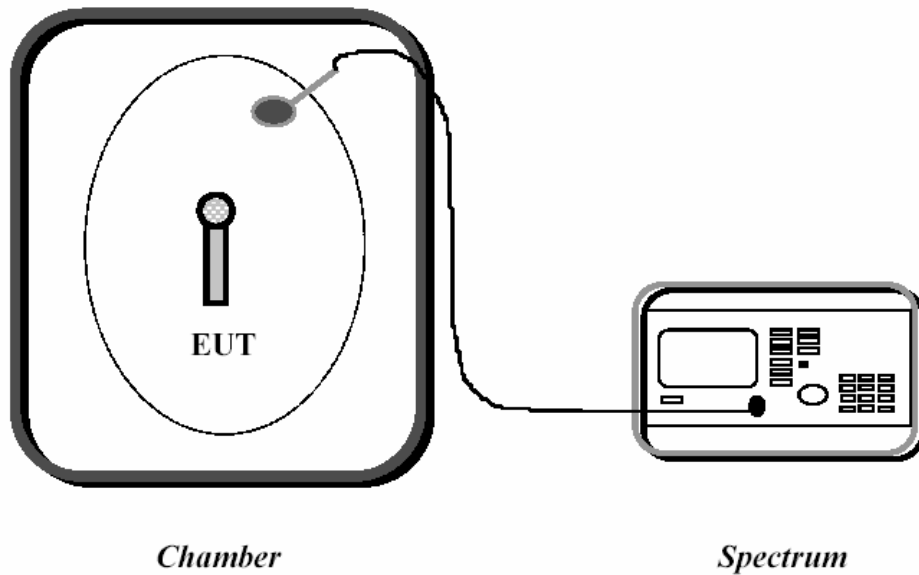


Diagram 4 of Measurement Equipment Configuration for Testing Frequency Tolerance



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5 Test Results EMISSION

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

RESULT:

Pass

Date of testing	:	17.Dec.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	5.0	3.16	250
	642.375	H	-13.7	0.04	250
Highest	645.750	V	6.5	4.47	250
	645.750	H	-14.0	0.04	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	:	17.Dec.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: 0.00447W (see table 2)

The emission must be reduced by:

$$43+10*\text{Log}(0.00447) = 19.46 \text{ dB}$$

Therefore, the Emission Limit equals:

$$10*\text{Log}(0.00447*1000) - 19.46\text{dB} = -13\text{dBm}$$

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)
3995.500	V	-26.8	-13
5197.750	V	-26.7	-13
6101.500	V	-24.9	-13
3048.250	H	-26.7	-13
4033.750	H	-27.8	-13
5784.250	H	-24.8	-13
*)			-13

Table 4: Spurious Emission: EUT operated at highest channel

Freq. (MHz)	Polarization (V/H)	Transmit power (dBm)	Limit (dBm)
4064.500	V	-27.0	-13
5782.750	V	-25.1	-13
3380.500	H	-27.0	-13
4052.500	H	-27.4	-13
6151.000	H	-24.5	-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 -15dB 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:	26.8kHz
Limit:	± 75kHz

Table 6: Operation Bandwidth (Bn)

Parameter:	M	D
Reading	8kHz	26.8kHz
Bn:	69.6kHz	
Limit:	200kHz	
Emission Designator:	69K6F3E	
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	642.368100	645.764100
-20°C	9	642.373200	645.767500
-10°C	9	642.372900	645.767600
0°C	9	642.374400	645.766400
10°C	9	642.374600	645.766600
20°C	9	642.373900	645.763600
30°C	9	642.373900	645.763300
40°C	9	642.373900	645.761000
50°C	9	642.373970	645.761220
Frequency Error:		0.0069	0.0176
Frequency tolerance:		0.0010%	0.0027%
Frequency Tolerance Limit:		0.0050%	

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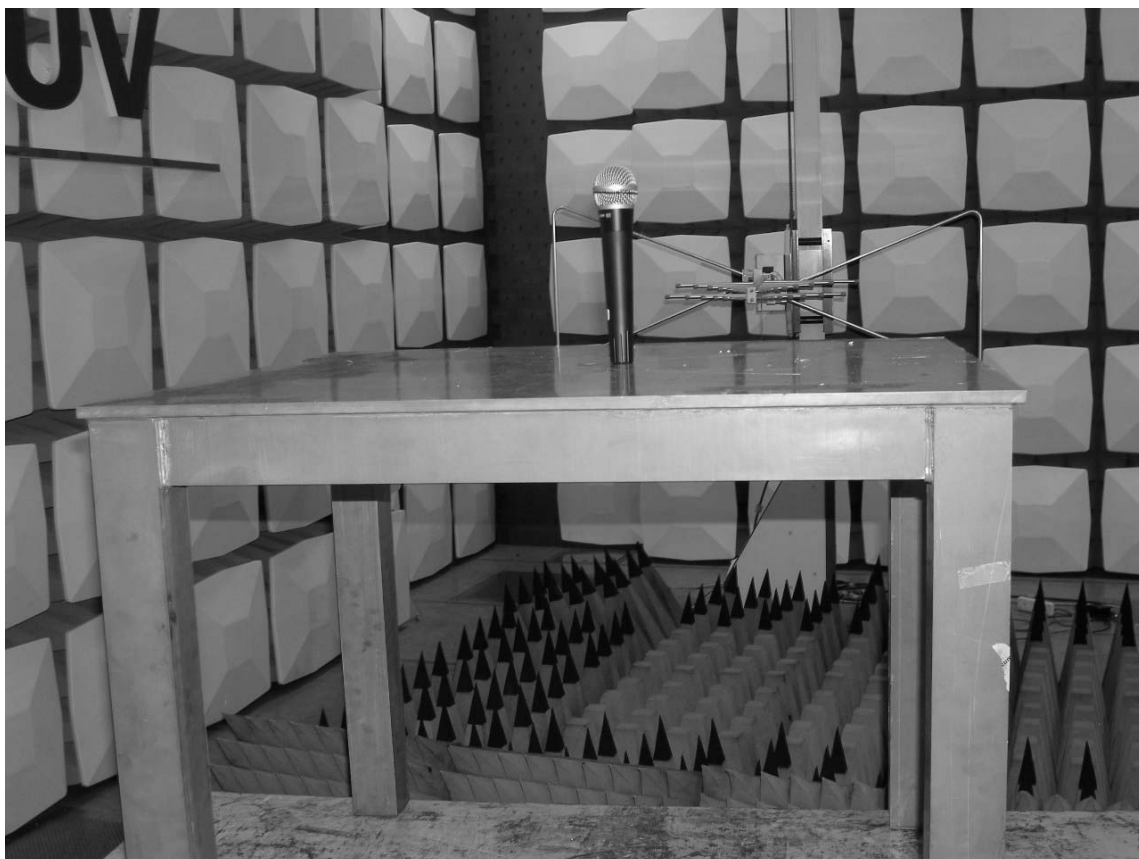
Table 8: the measurement of Frequency tolerance (supply voltage)

Temperature (°C)	Power supply (VDC)	Low Frequency (MHz) (642.375)	High Frequency (MHz) (645.750)
25	9.0V	642.374400	645.765300
25	8.5V	642.374400	645.765200
25	8.0V	642.374400	645.765100
25	7.5V	642.373900	645.764900
25	7.0V	642.373900	645.764800
25	6.5V	642.373900	645.764600
25	6.0V	642.373800	645.764300
25	5.5V	642.373800	645.764300
25	5.0V	642.373800	645.764200
25	4.5V	642.373800	645.764200
25	4.0V	642.373800	645.764200
25	3.5V	642.373700	645.764100
25	3.0V	642.373500	645.763900
25	2.5V	No signal	No signal
Frequency Error:		0.0015	0.0153
Frequency tolerance:		0.0002%	0.0024%
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 2.5V.

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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8 List of Photographs

Photograph 1: Set-up for Radiation Measurement Below 1GHz	12
Photograph 2: Set-up for Radiation Measurement above 1GHz	12

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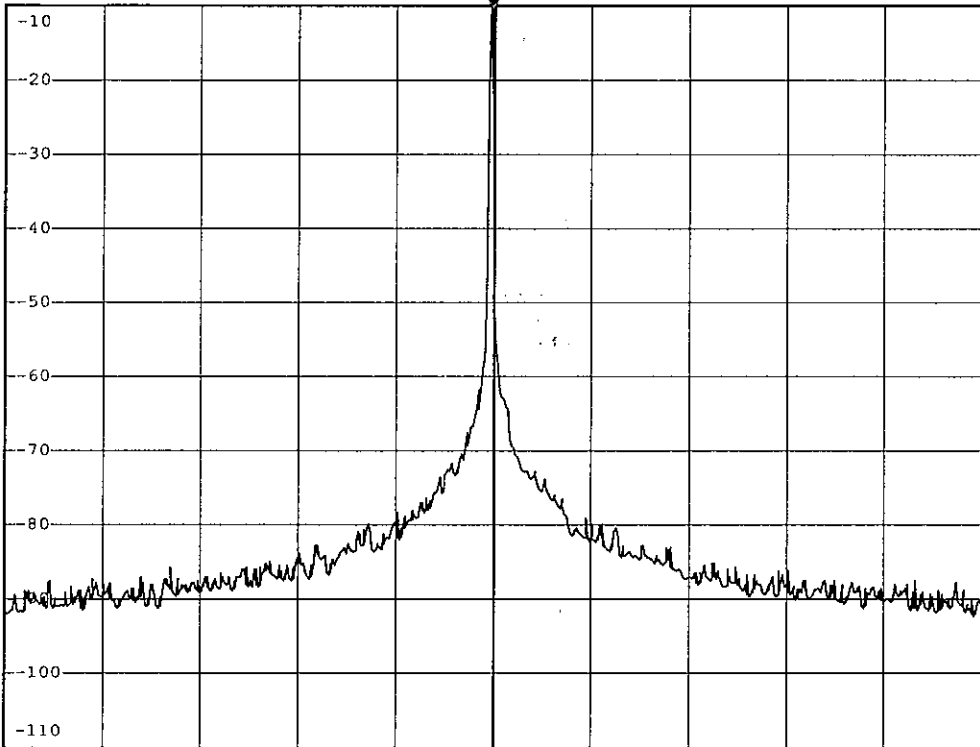
Occupied Bandwidth:

High channel

Unmodulation RF output



*RBW 1 kHz Marker 1: 645.750000 MHz
VBW 3 kHz 645.750000 MHz
*Att 10 dB SWT 500 ms 645.75000000 MHz



Center 645.75 MHz 50 kHz/ Span 500 kHz

down 3dB

Date: 15.DEC.2008 22:29:18

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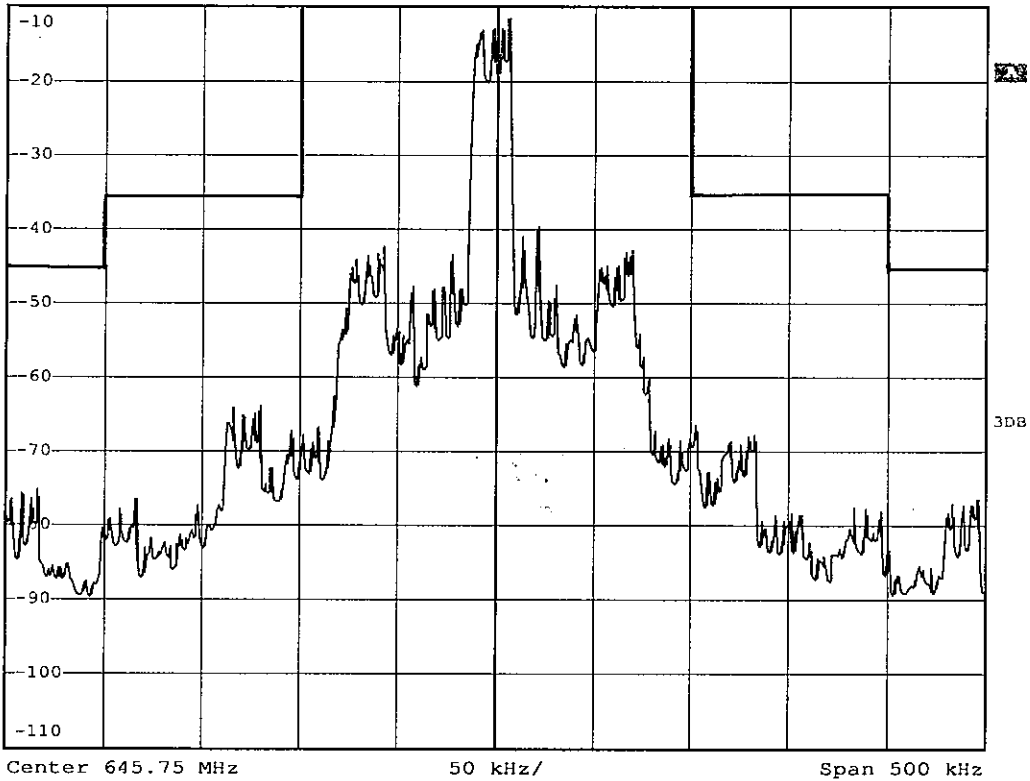
Input Audio signal: 200Hz

*RBW 1 kHz Marker 1 [T1] 1
VBW 3 kHz -17.87 dBm
SWT 500 ms 645.750000000 MHz

Ref -10 dBm

*Att 10 dB

1 PK
VIEW



down 3dB

Date: 15.DEC.2008 22:36:16

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Input Audio signal: 500Hz

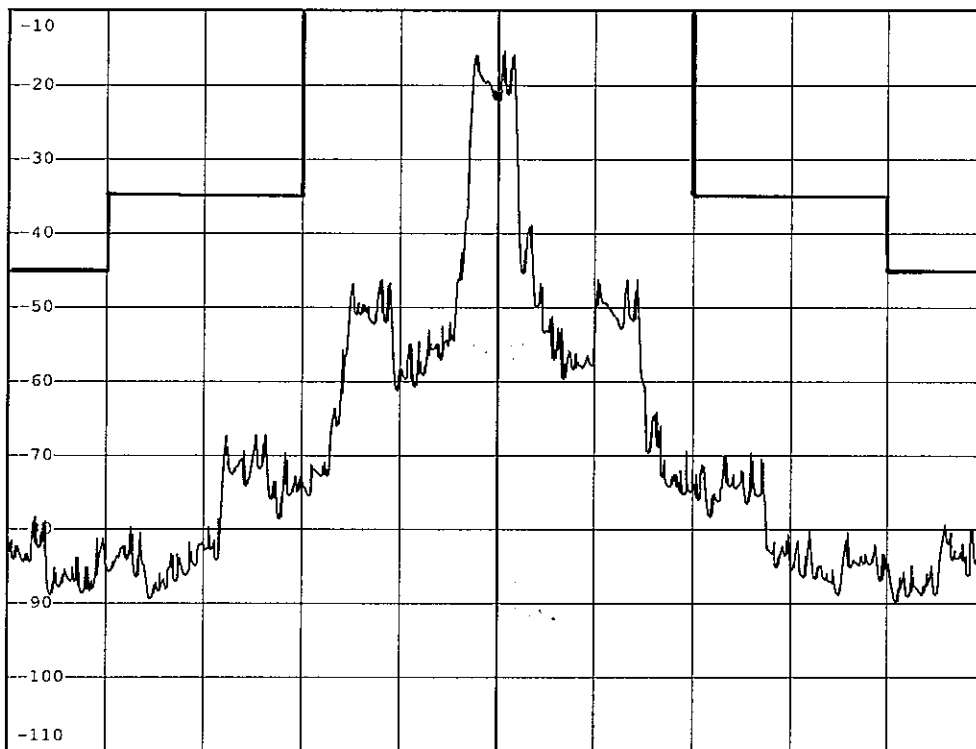


*RBW 1 kHz Marker 1 [PT] 1
VBW 3 kHz -22.09 dBm
SWT 500 ms 645.750000000 MHz

Ref -10 dBm

*Att 10 dB

L PR
VIEW



down 3dB

Date: 15.DEC.2008 22:35:04

Prüfbericht - Nr.:
Test Report No.

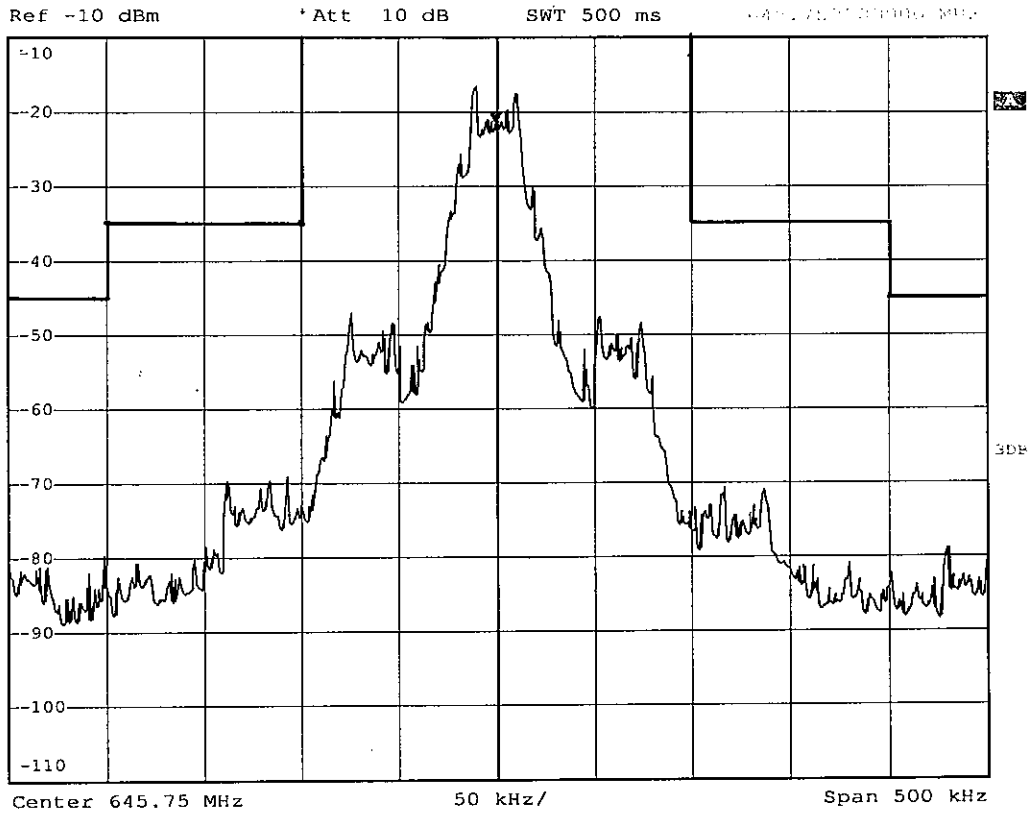
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Input Audio signal: 1kHz



* RBW 1 kHz Marker 1 [OFF]
VBW 3 kHz
SWT 500 ms



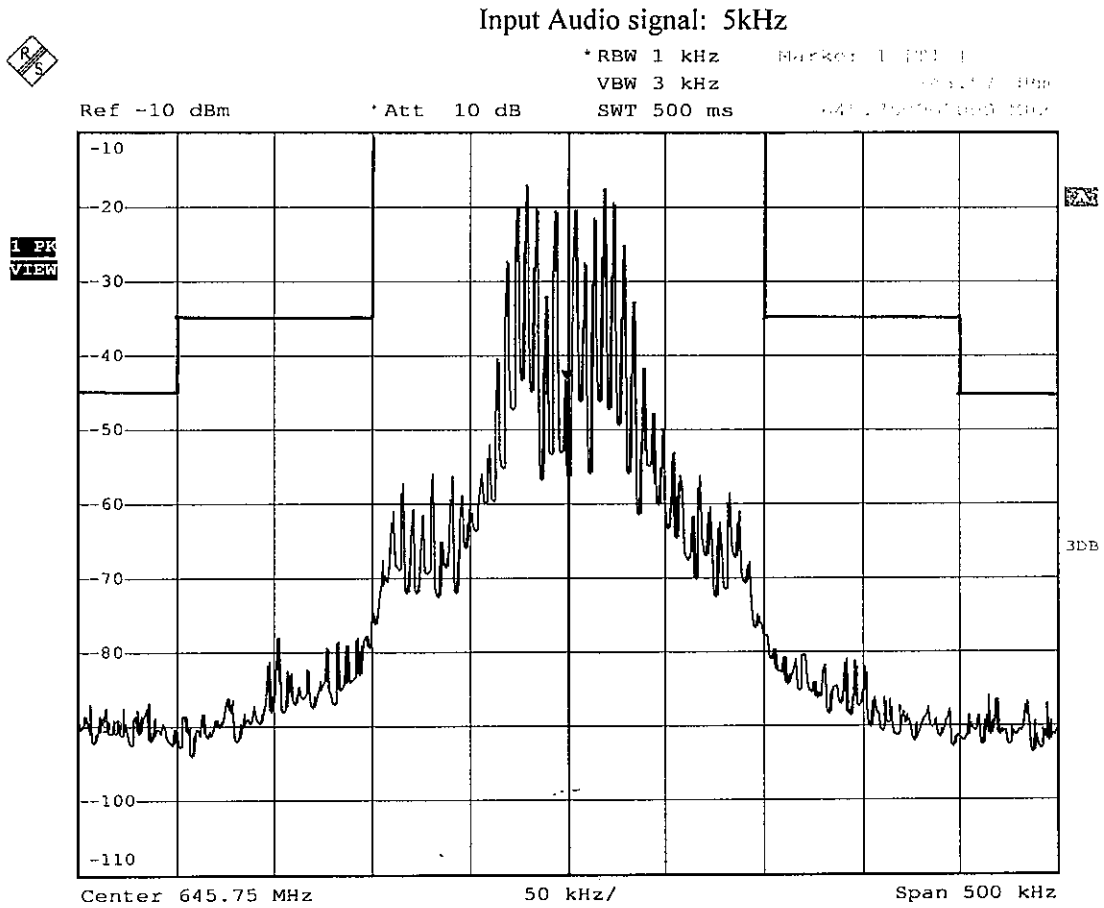
down 3dB

Date: 15.DEC.2008 22:33:59

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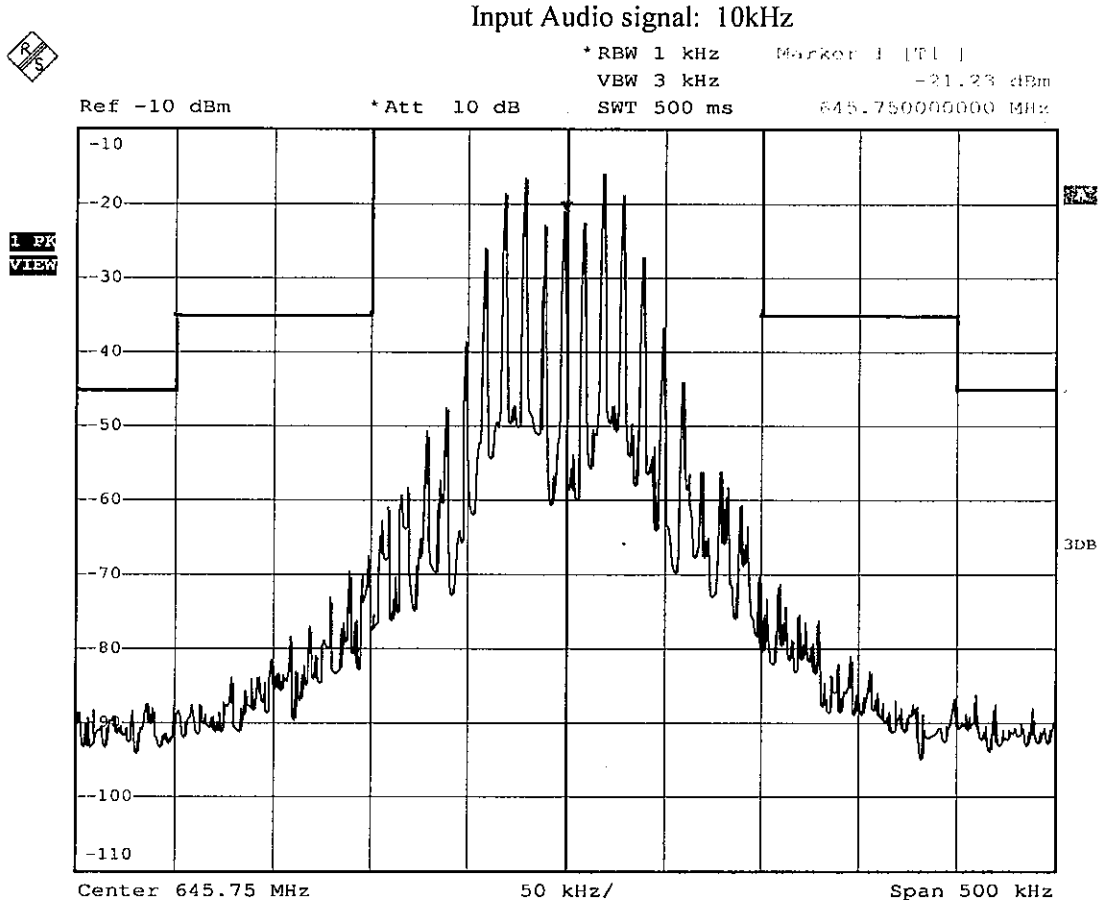
down 3dB

Date: 15.DEC.2008 22:32:38

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down 3dB

Date: 15.DEC.2008 22:31:24



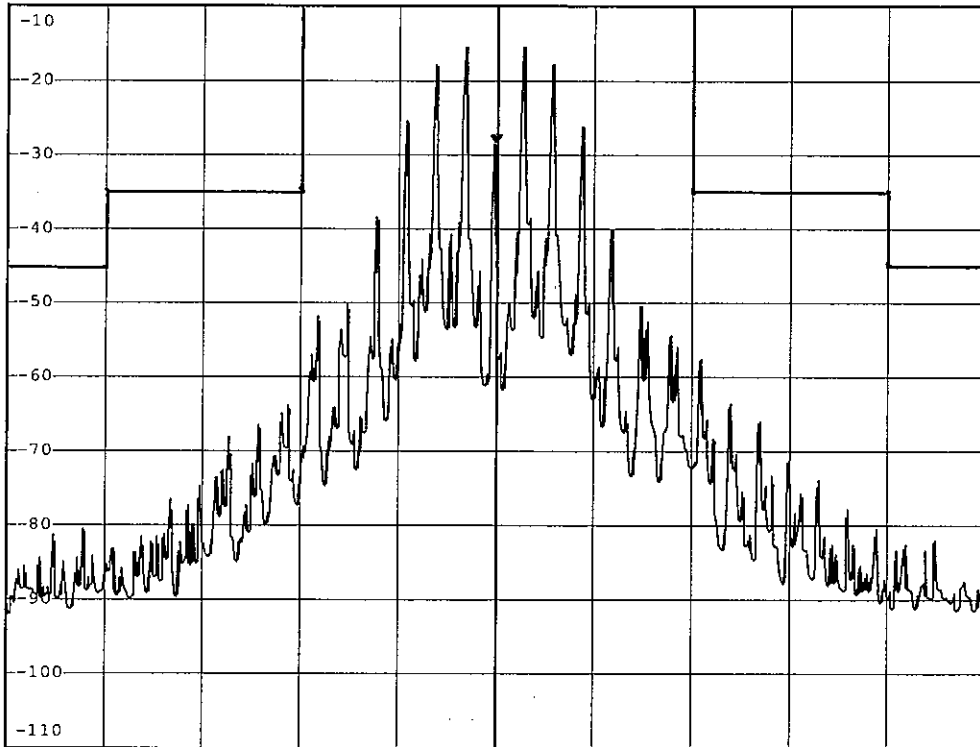
Input Audio signal: 15kHz

*RBW 1 kHz Marker 1 [T1]
VBW 3 kHz -28.10 dBm
SWT 500 ms 645.75000000 MHz

Ref -10 dBm

*Att 10 dB

1 PK
VIEW



Center 645.75 MHz

50 kHz/

Span 500 kHz

down 3dB

Date: 15.DEC.2008 22:30:55

Prüfbericht - Nr.:
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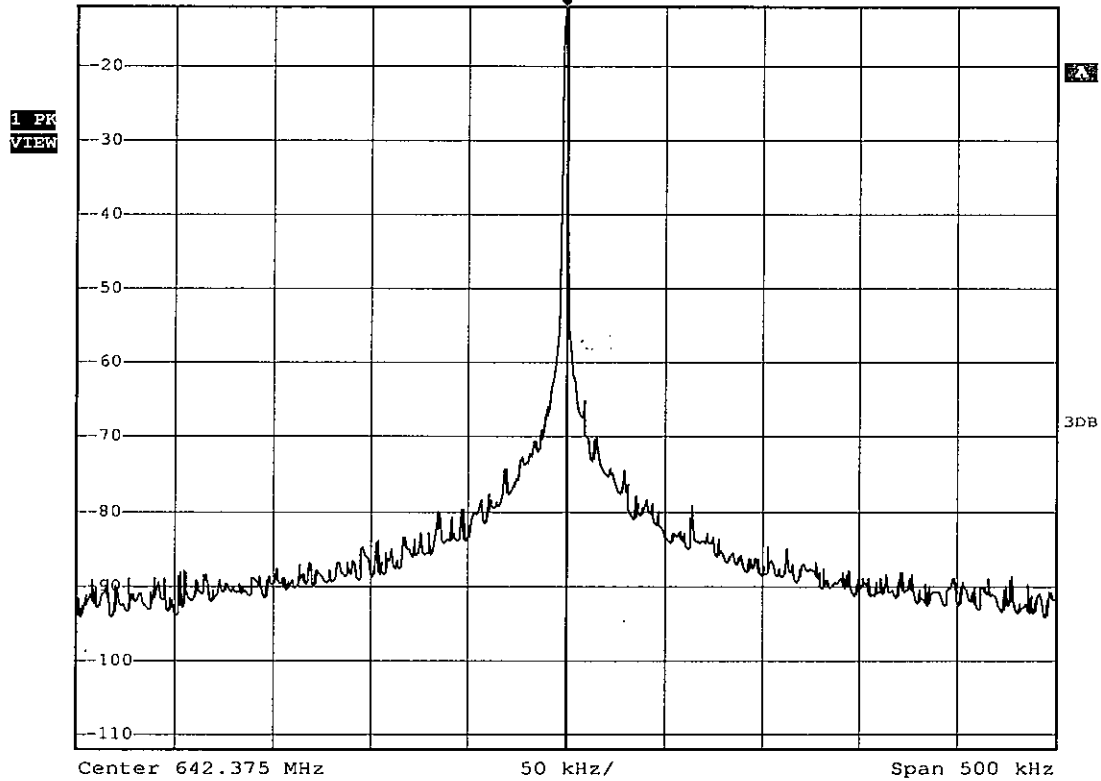
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Low channel

Unmodulated signal



*RBW 1 kHz
VBW 3 kHz
*Att 10 dB
SWT 500 ms
Ref -12 dBm
642.375000000 MHz



down 3dB

Date: 15.DEC.2008 22:03:42



Input Audio signal: 200Hz

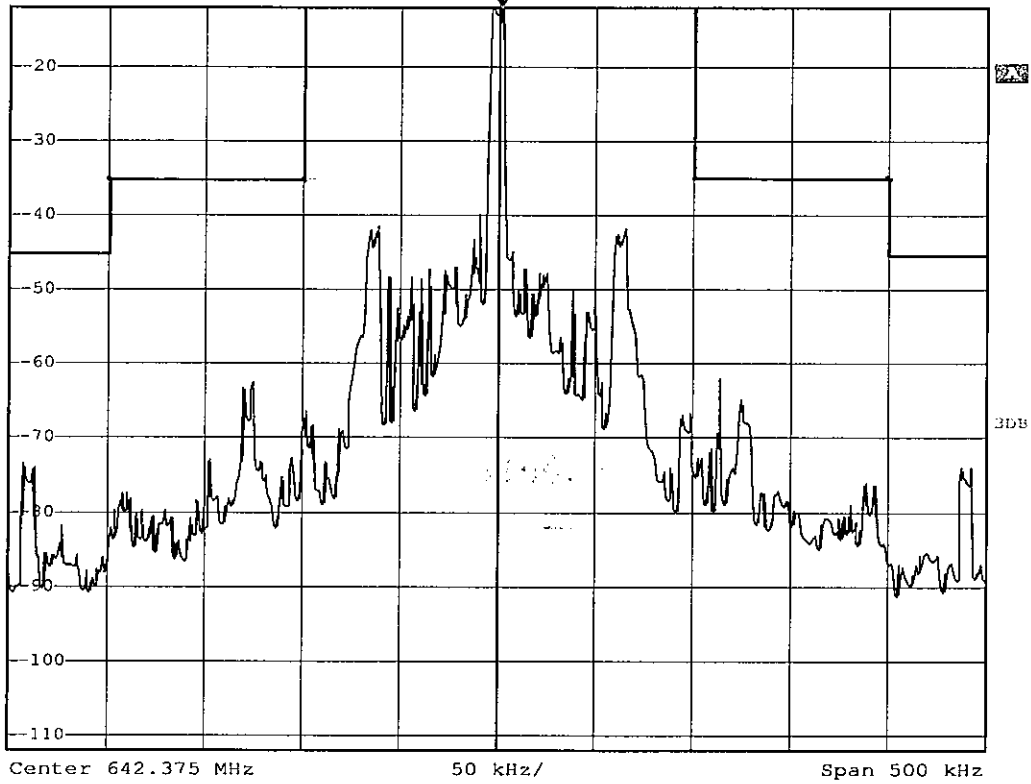
* RBW 1 kHz Marker 1 [F1]
VBW 3 kHz
* Att 10 dB * Att 10 dB
SWT 500 ms * Att 10 dB

Ref -12 dBm

* Att 10 dB

SWT 500 ms

1 PK
VIEW



down 3dB

Date: 15.DEC.2008 22:06:43

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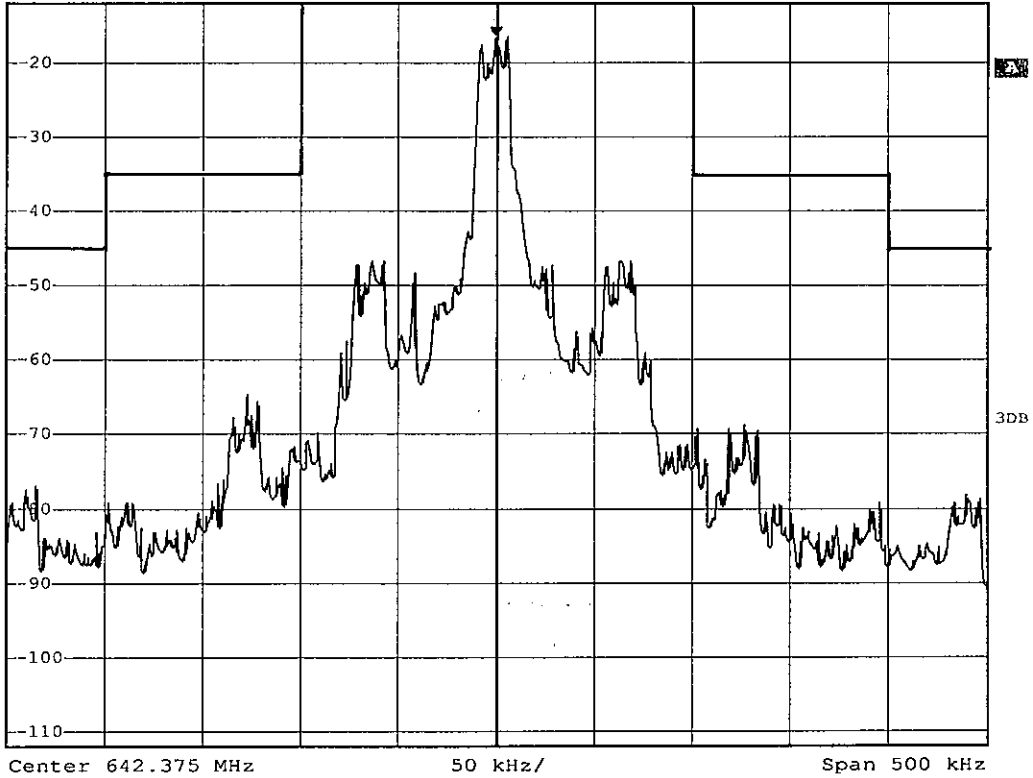
Input Audio signal: 500Hz

*RBW 1 kHz Marker 1 [F1]
VBW 3 kHz -16.52 dBm
SWT 500 ms 642.375000000 MHz

Ref -12 dBm

*Att 10 dB

1 PK
VIEW



down 3dB

Date: 15.DEC.2008 22:08:39

Input Audio signal: 1 kHz



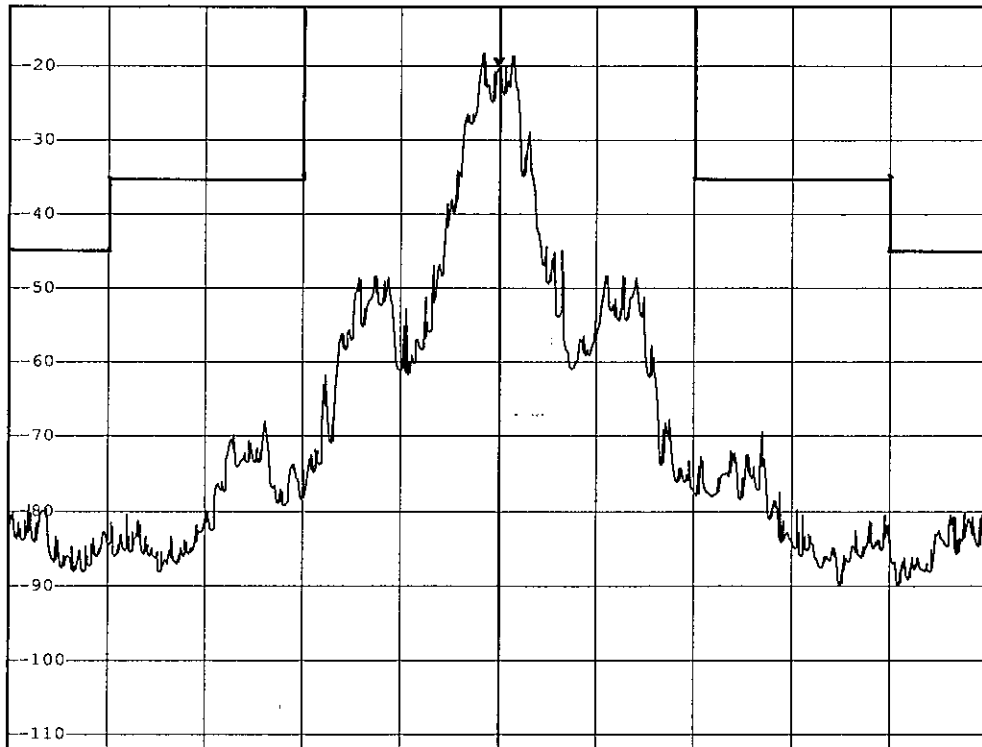
*RBW 1 kHz
VBW 3 kHz
SWT 500 ms

Ref -12 dBm

*Att 10 dB

642.37500000 MHz

1 PK
VIEW



Center 642.375 MHz

50 kHz/

Span 500 kHz

down 3dB

Date: 15.DEC.2008 22:09:28



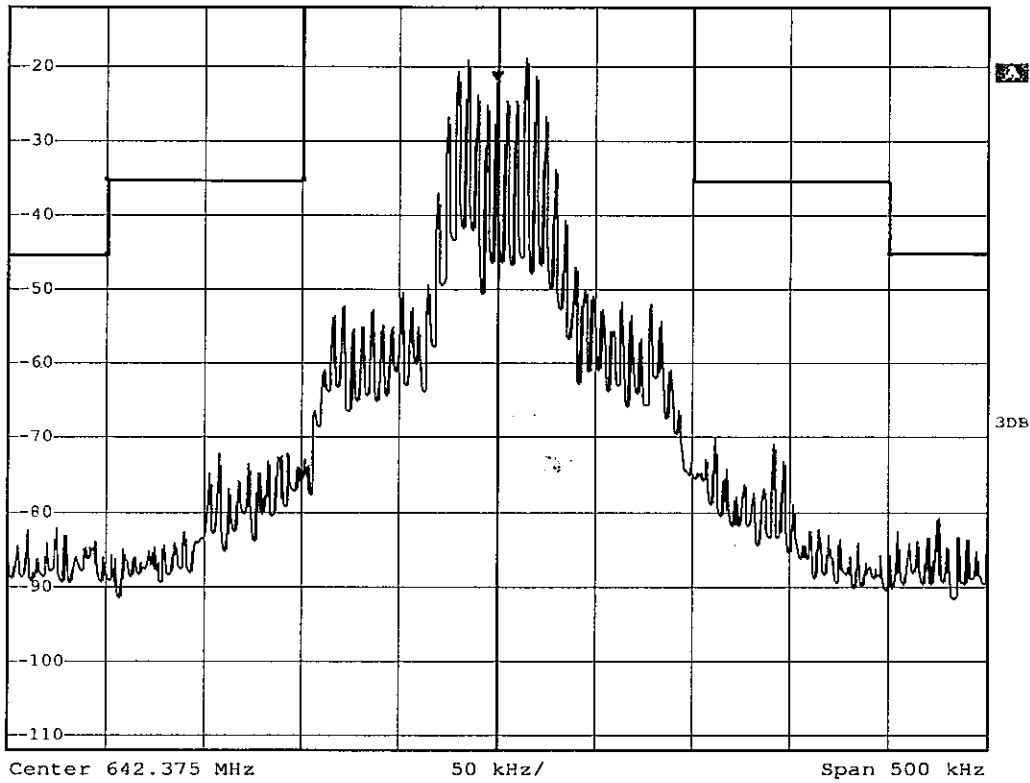
Input Audio signal: 5 kHz

*RBW 1 kHz Marker 1 [PT] 1
VBW 3 kHz 642.375000 MHz
SWT 500 ms 642.37500000 MHz

Ref -12 dBm

*Att 10 dB

1 PK
VIEW



down 3dB

Date: 15.DEC.2008 22:19:03

Input Audio signal: 10 kHz

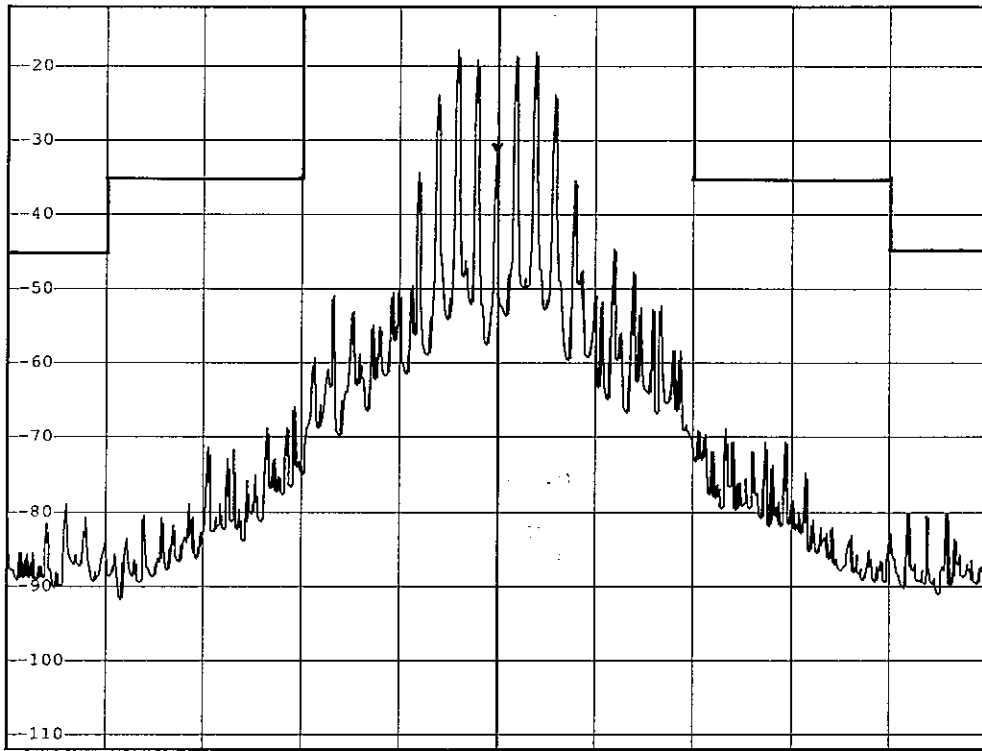


*RBW 1 kHz Marker 1: -31.50 dBm
VBW 3 kHz
SWT 500 ms 642.375000000 MHz

Ref -12 dBm

*Att 10 dB

1 PK
VIEW



Center 642.375 MHz

50 kHz/

Span 500 kHz

down 3dB

Date: 15.DEC.2008 22:20:36

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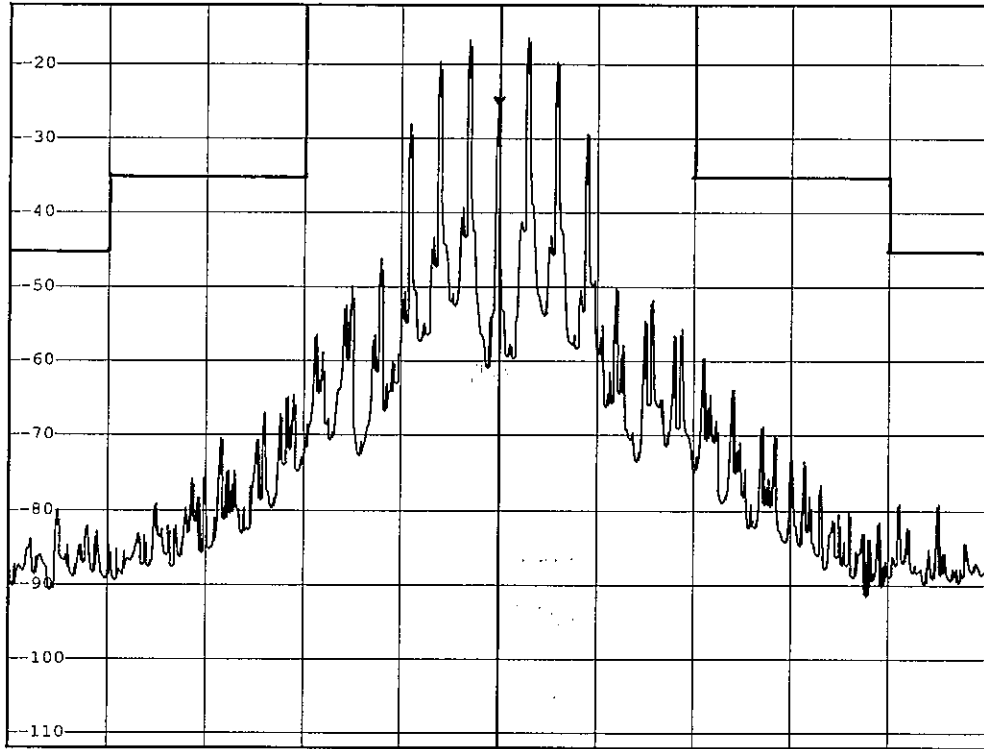
Input Audio signal: 15 kHz

*RBW 1 kHz Marker 1 [PT1]
VBW 3 kHz -25.87 dBm
SWT 500 ms 642.37500000 MHz

Ref -12 dBm

*Att 10 dB

1 PK
VIEW



Center 642.375 MHz

50 kHz/

Span 500 kHz

down 3dB

Date: 15.DEC.2008 22:21:12

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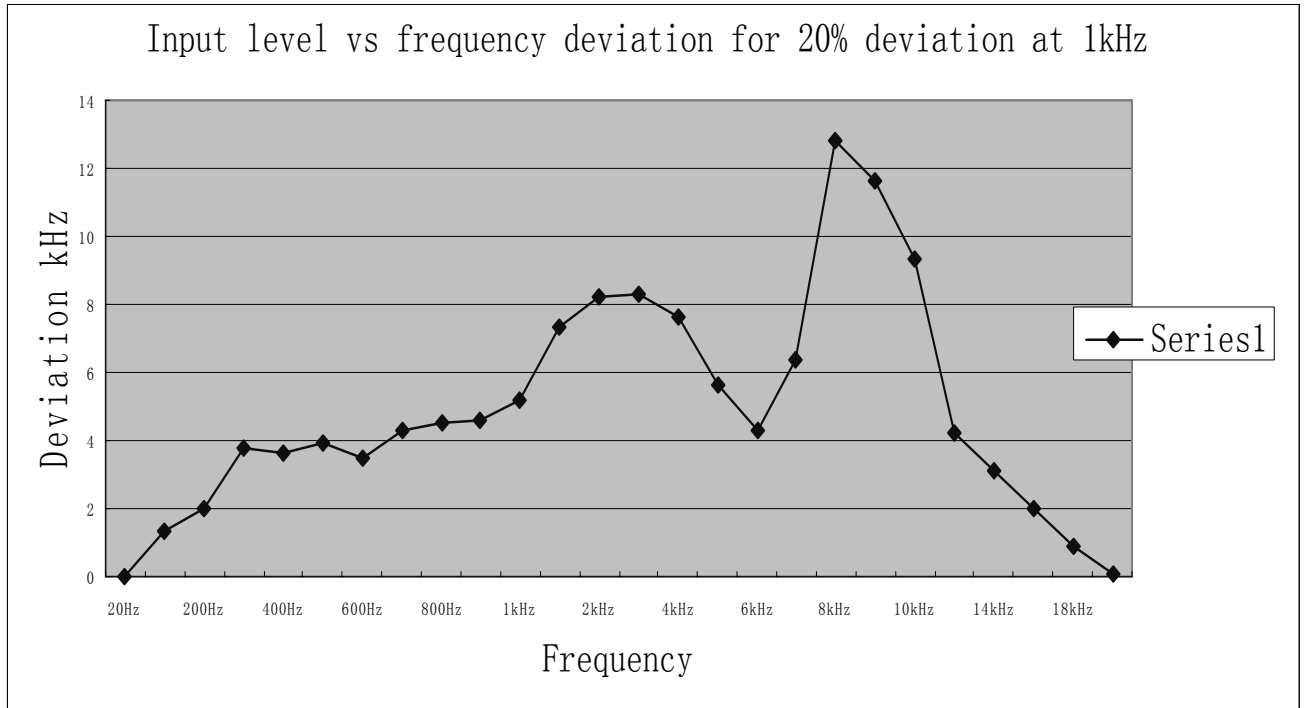
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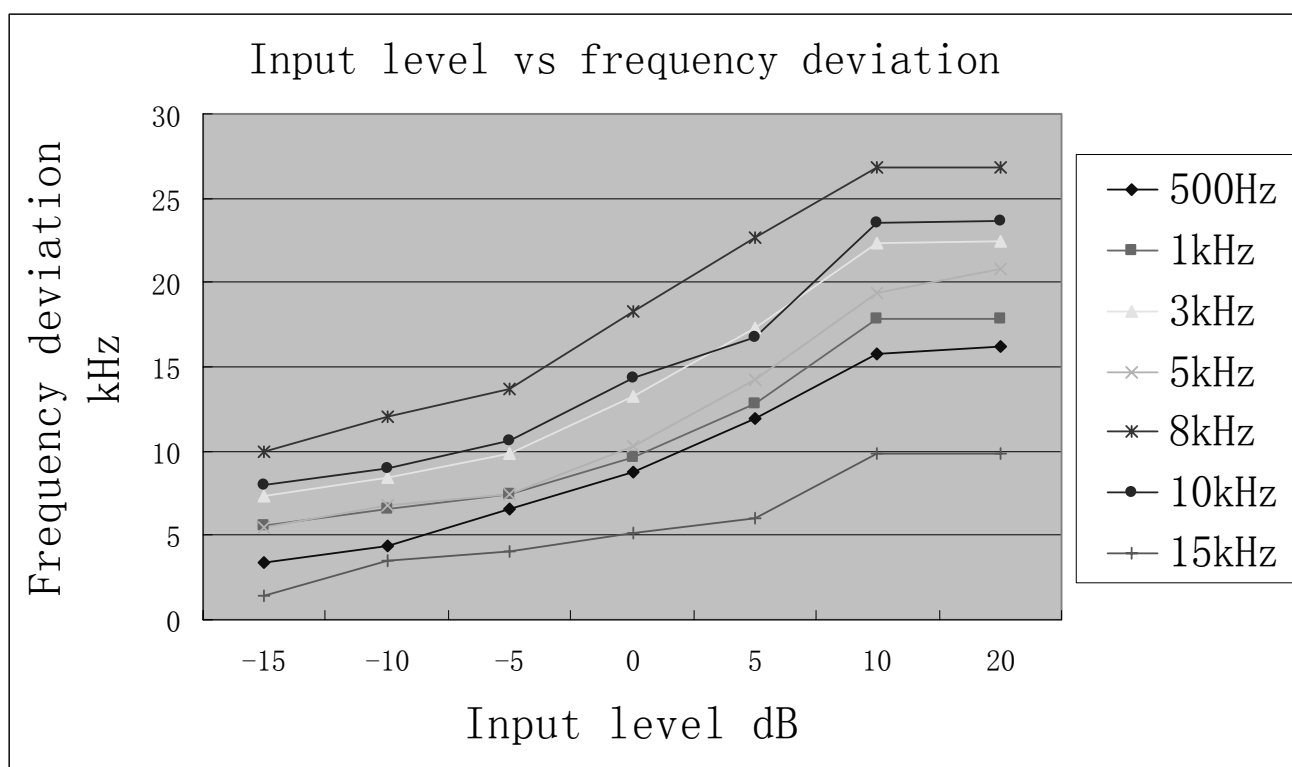
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Modulation characteristics:

Frequency (Hz)	Deviation (kHz)
100	1.3
200	2.0
300	3.8
400	3.6
500	3.9
600	3.5
700	4.3
800	4.5
900	4.6
1000	5.2
1500	7.3
2000	8.2
3000	8.3
4000	7.6
5000	5.6
6000	4.3
7000	6.4
8000	12.8
9000	11.6
10000	9.3
12000	4.2
14000	3.1
16000	2.0
18000	0.9
20000	---



Modulation (dB)		-15	-10	-5	0	5	10	20
500Hz	kHz	3.4	4.4	6.6	8.8	11.9	15.8	16.2
1kHz	kHz	5.6	6.6	7.5	9.6	12.8	17.8	17.9
3kHz	kHz	7.3	8.4	9.8	13.3	17.3	22.3	22.5
5kHz	kHz	5.5	6.8	7.5	10.3	14.2	19.4	20.8
8kHz	kHz	10	12	13.7	18.3	22.7	26.8	26.8
10kHz	kHz	8	9	10.6	14.3	16.8	23.5	23.6
15kHz	kHz	1.4	3.5	4	5.1	6	9.8	9.9



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Test Report No.

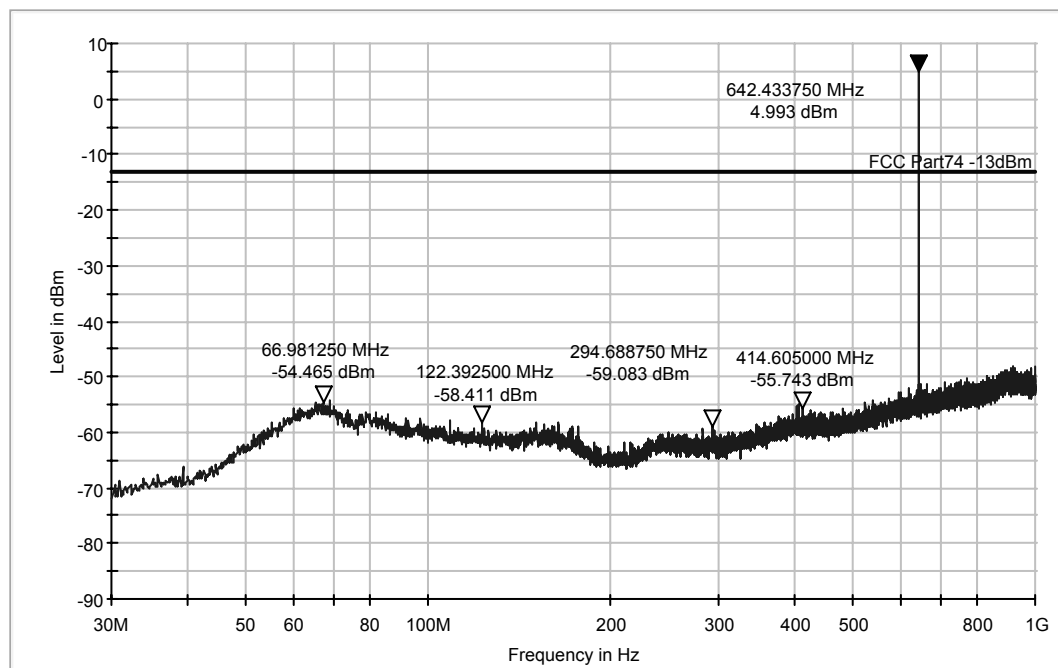
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Radiated spurious emissions:**Test Information**

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: HT7
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



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Test Report No.

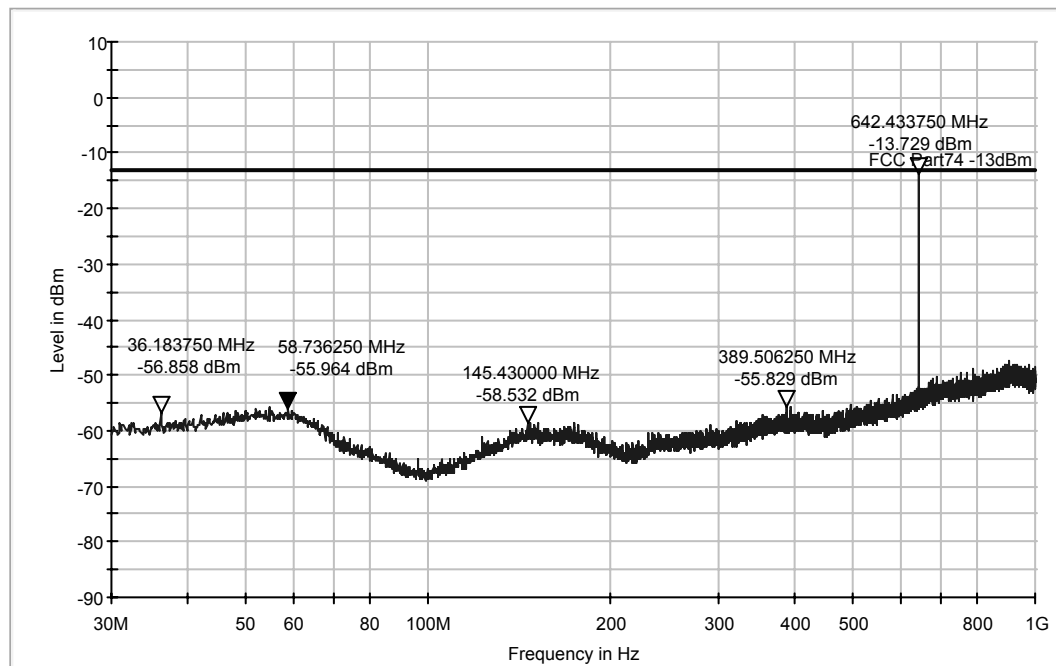
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Test Information

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: HT7
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



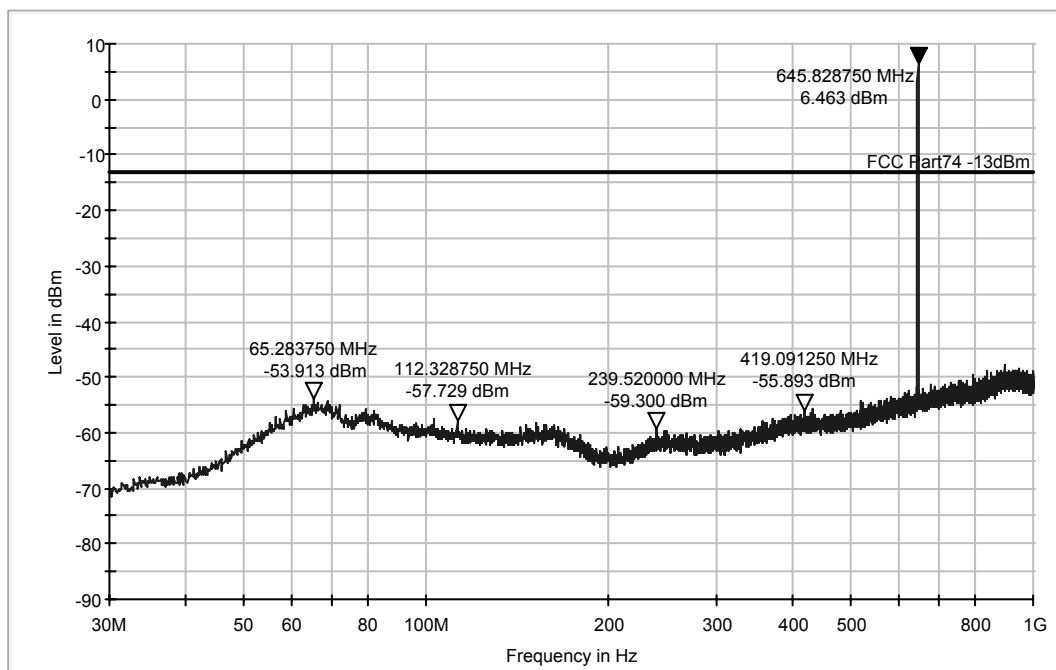
17.Dec.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: HT7
 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



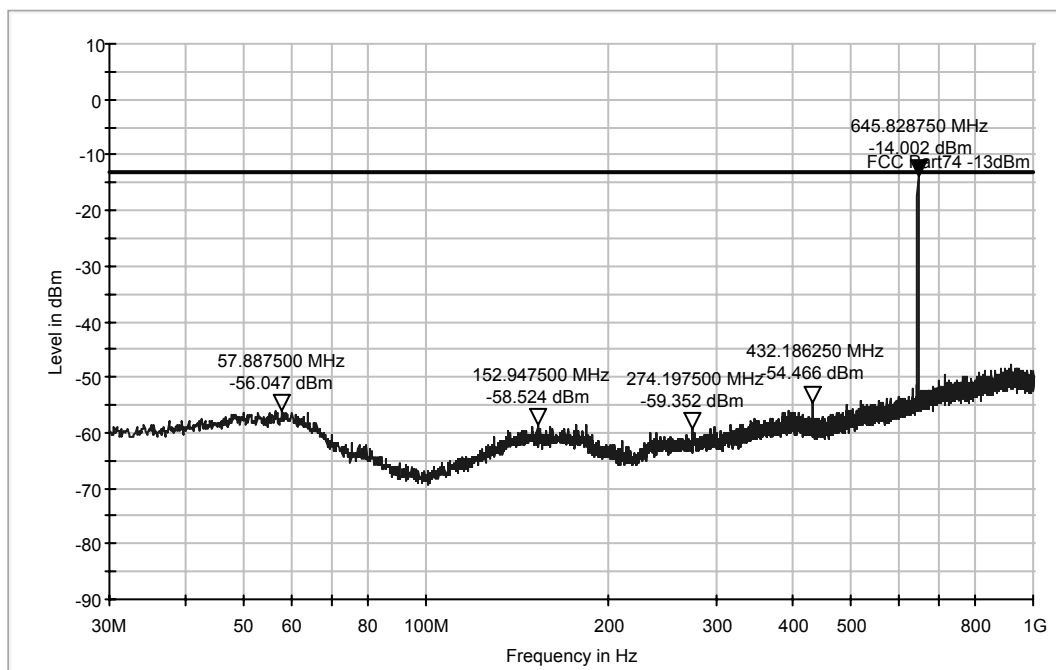
17.Dec.2008

Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: HT7
 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



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Test Report No.

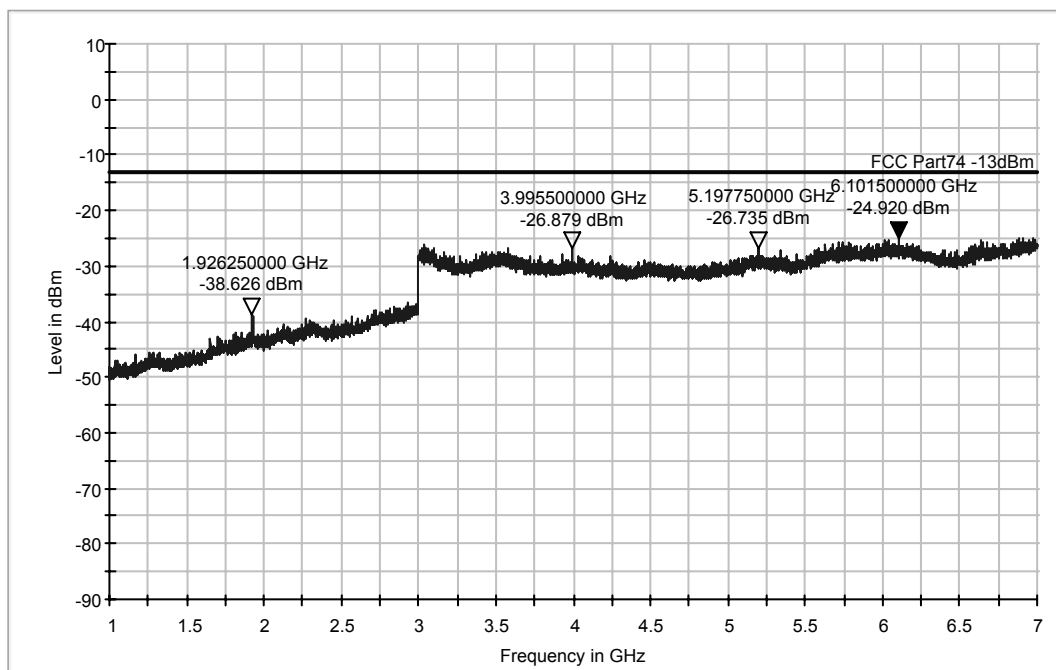
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Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: HT7
 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



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Test Report No.

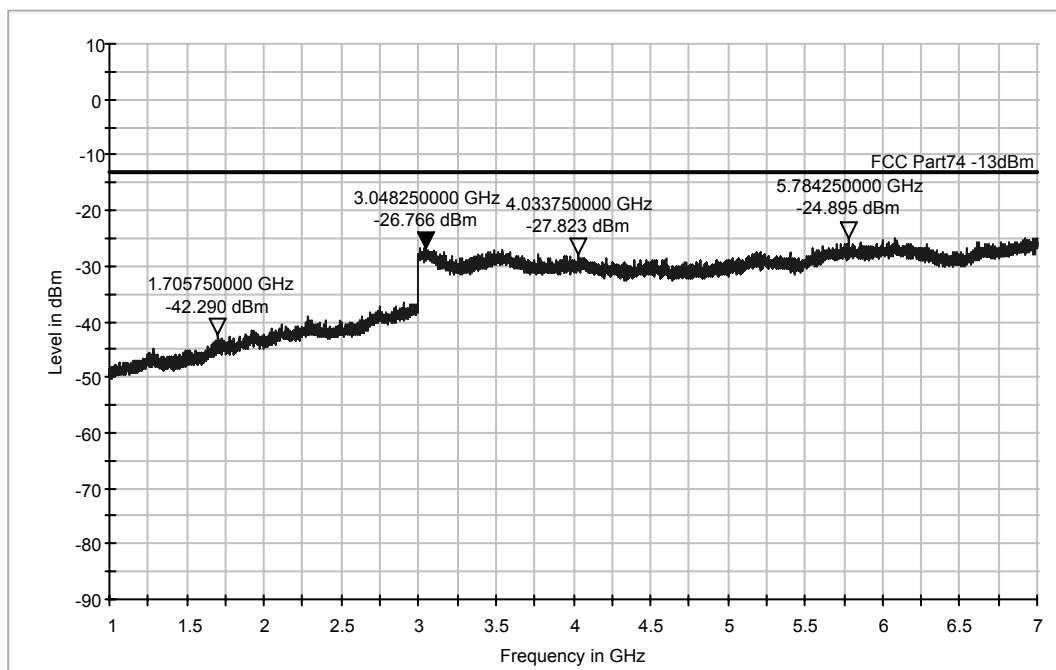
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Test Information

Manufacturer Name: Sekaku
 EUT Name: Wireless Microphone
 Model Number: HT7
 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



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Test Report No.

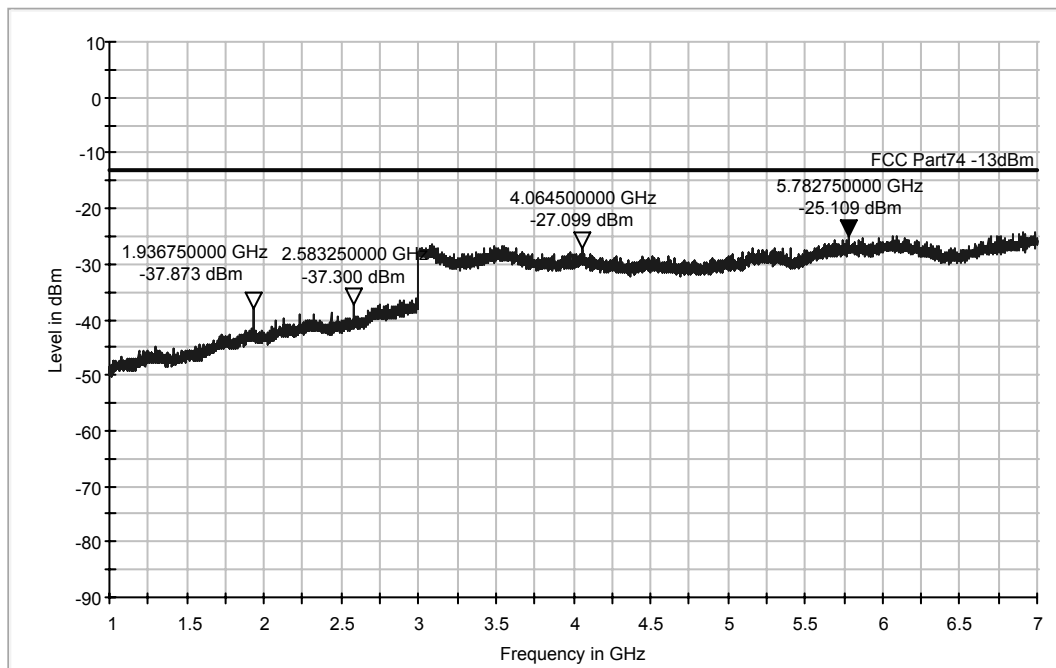
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Test Information

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: HT7
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



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Test Report No.

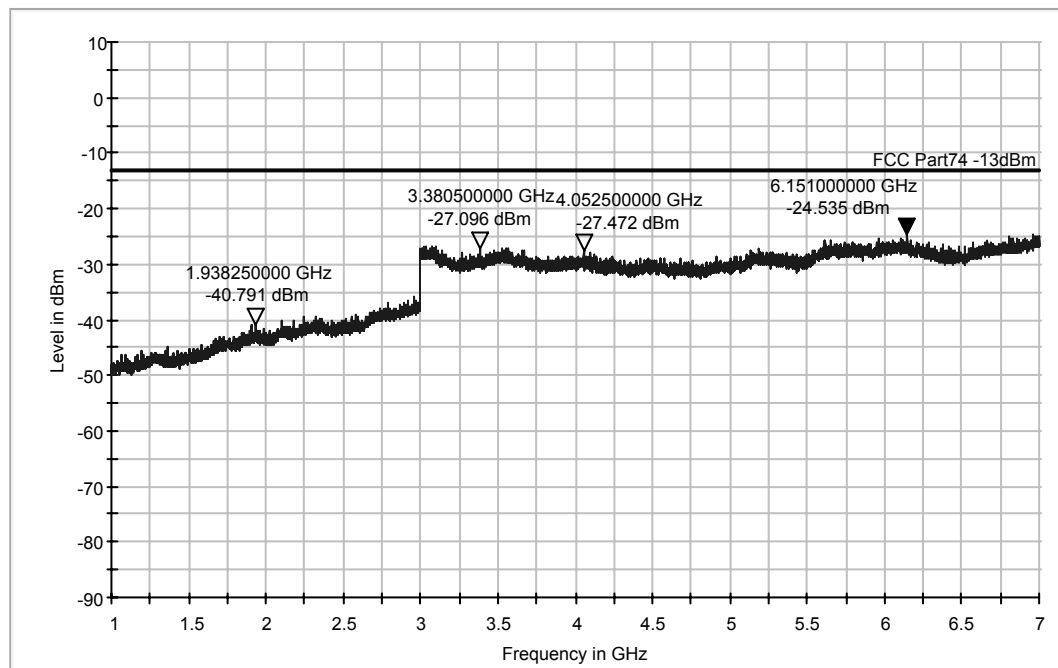
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Test Information

Manufacturer Name: Sekaku
EUT Name: Wireless Microphone
Model Number: HT7
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



17.Dec.2008