


## TEST REPORT



To:	Sam Ash Music Corporation
Address:	262 Duffy Avenue Hicksville, NY 11801 United States

Manufacturer or Supplier	SAMSON TECHNOLOGIES CORP.	
Address	45 GILPIN AVE HAUPPAUGE, NY 11788 U.S.A.	
Product	Stage 266	
Brand Name:	Samson	
Model	HT6	
Additional Model & Model Difference	N/A	
Date of tests	Oct.25 ~ Nov.10, 2011	

The tests have been carried out according to the requirements of the following standards:

**FCC Part 74, Subpart H (Section 74.861e)**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Prepared by Glyn He Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department
	  Date: Nov.10, 2011

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	N/A	Nov.10, 2011

## 1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 74, SUBPART H (SECTION 74.861e)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§74.861(e)(1)	Power Output Measurement	PASS	Compliant
§74.861 (e)(6) (III)	Spurious Radiated Emission	PASS	Compliant
§74.861(e)(3,5,6)	Occupied Bandwidth	PASS	Compliant
§74.861(e)(4)	Frequency Tolerance	PASS	Compliant
§2.1047(a)(b)	Modulation Characteristics Measurement	PASS	Compliant

## 2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.19dB
	200MHz ~1000MHz	3.21dB
	1GHz ~ 18GHz	2.26dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Stage 266
<b>MODEL NO.</b>	HT6
<b>FCC ID</b>	CCRHT6
<b>NOMINAL VOLTAGE</b>	9V DC (Battery)
<b>MODULATION TYPE</b>	FM
<b>OPERATING FREQUENCY</b>	175.000 ~ 213.200MHz
<b>ANTENNA TYPE</b>	Integral Antenna

#### 3.2 DESCRIPTION OF TEST MODES

<b>CHANNEL</b>	<b>FREQUENCY</b>
Low	175.000MHz
Middle	184.700MHz
High	213.200MHz



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### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 74, Subpart H (74.861e)**  
**TIA-603-C-2009**

All test items have been performed and recorded as per the above standards.

### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Power Supply	LWDQGS	PS-6403D	010970922	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Cable---Unshielded----1.5M

## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED POWER OUTPUT MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED POWER OUTPUT MEASUREMENT

According to FCC Part 74 Section 74.861(e) (1): The power of the measured unmodulated carrier power at the output of the transmitter power amplifier may not exceed 50mW

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Peak and Avg Power Sensor Agilent	E9327A	MY44420694	Jun.12,11	Jun.12,12
Power Meter Agilent	E4416A	MY45100656	Jun.12,11	Jun.12,12

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.  
2. The test was performed in Dongguan Chamber RF.

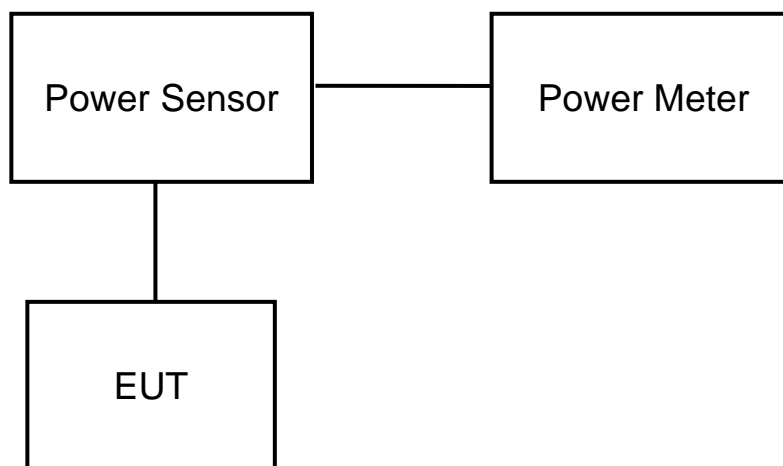
#### 4.1.3 TEST PROCEDURES

According to the clause 2.2.1.2 of TIA – 603 – C

- a) Connect the equipment as illustrated.
- b) Measure the transmitter output power during the defined duty cycle (see 1.3.2 ). Correct for all losses in the RF path (The duty cycle is 100% for this product, Correction Factor is 0).
- c) The value recorded in step b) is the conducted carrier output power rating.



#### 4.1.4 TEST SETUP



#### 4.1.5 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Trun on the EUT power by battery,
- c. Enable EUT under transmission condition continuously at specific channel frequency.

#### 4.1.6 TEST RESULTS

CHANNEL (MHz)	Output Power dBm	Output Power mW	Limit mW
175.000	-3.3	0.47	50
184.700	-3.7	0.43	50
213.200	-4.0	0.40	50



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## 4.2 SPURIOUS RADIATION MEASUREMENT

### 4.2.1 LIMITS OF SPURIOUS RADIATION MEASUREMENT

According to FCC 74.861(e)(6)(iii), On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least  $43+10\log_{10}$  (mean output power in watts) dB..

### 4.2.2 TEST INSTRUMENTS

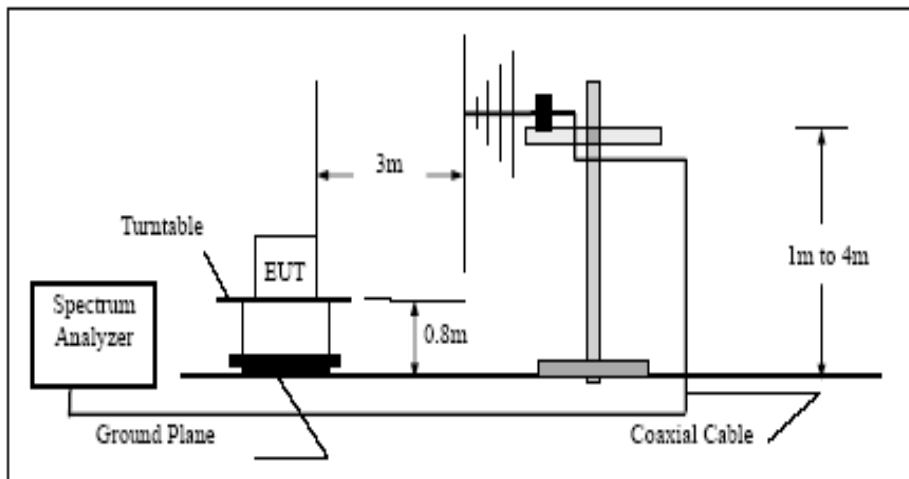
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESVS10	841431/004	May 25,11	May 25,12
Bilog Antenna TESEQ	CBL 6111D	25758	Nov.07,11	Nov.07,12
10m Semi-anechoic Chamber ETS-LINDGREN	21.4m*12.1m*8.8m	NSEMC006	May 02,11	May 02,12
RF Cable IMRO	IMRO-400	10m Cable 1#10m	May 02,11	May 02,12
RF Cable IMRO	IMRO-400	10m Cable 2#3m	May 02,11	May 02,12
Signal Amplifier Agilent	8447D	2944A11174	May 02,11	May 02,12
Horn Antenna EMCO	3117	00062558	Oct.15,11	Oct.15,12
Spectrum Analyzer HP	8593E	3448U00806	May 25,11	May 25,12
Spectrum Analyzer Agilent	E4446A	MY46180622	Apr. 25,11	Apr. 25,12
RF Cable DRAKA	M06/25-RG102	10m Cable 2#	May 02,11	May 02,12

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.
2. The test was performed in Dongguan Chamber 10m.
3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.

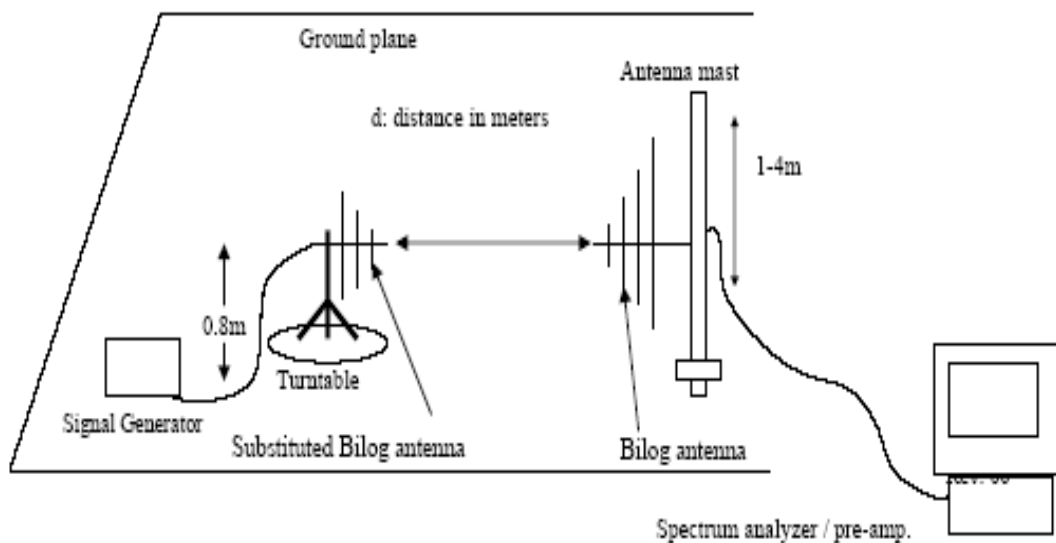
#### 4.2.3 TEST PROCEDURE

1. On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
2. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
3. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
4. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
6. The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. Replace the antenna with a proper Antenna (substitution antenna).
10. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
14. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
16. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.
17. The measure of the effective radiated power is the larger of the two levels recorded, at the input to the substitution antenna, corrected for the gain of the substitution antenna if necessary.

4.2.4 TEST SETUP



SUBSTITUTION METHOD:









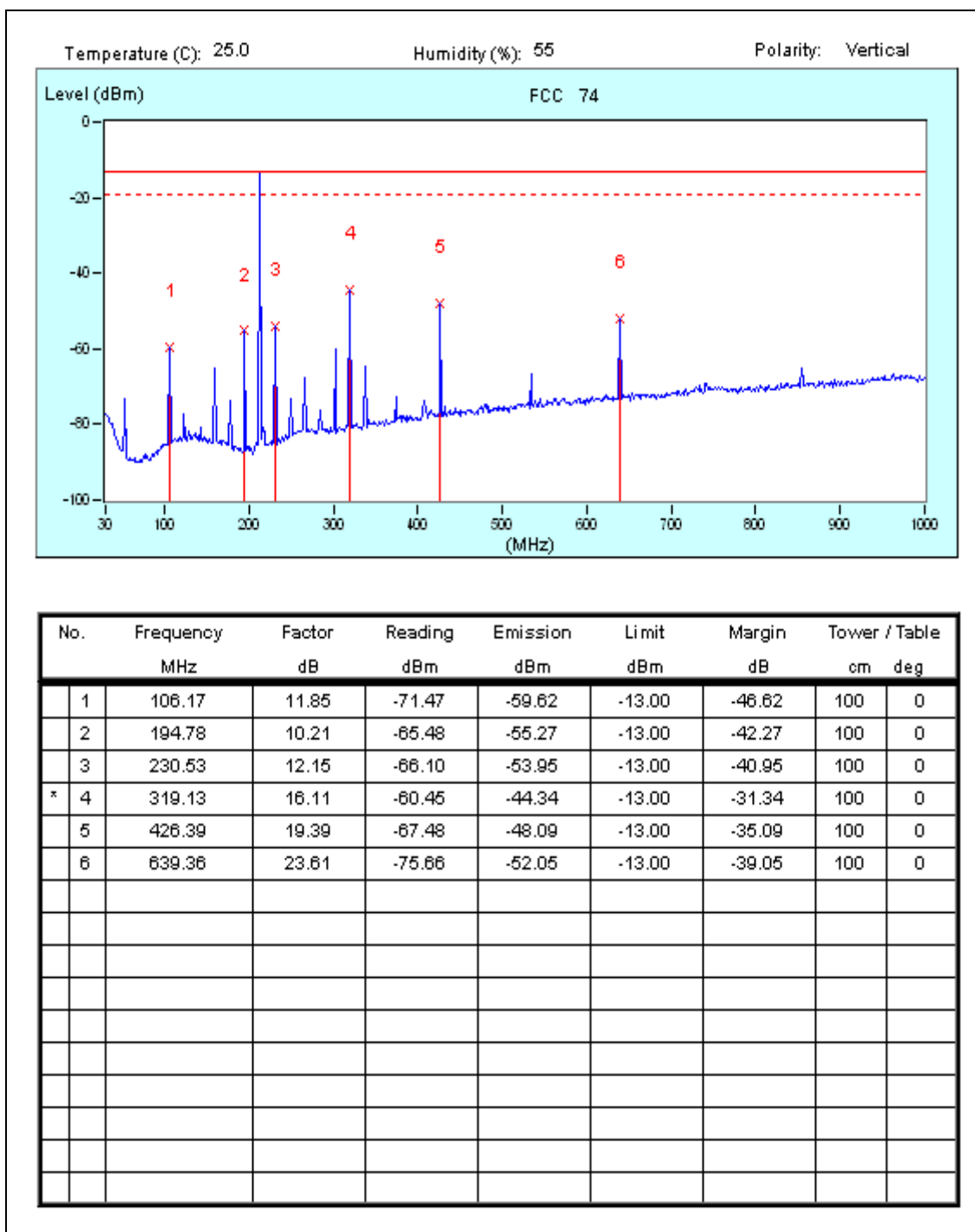






**Test Report No.: FC111024N033**

**BELOW 1GHz WORST-CASE DATA : 213.200MHZ**





### 4.3 CONDUCTED SPURIOUS MEASUREMENT

#### 4.3.1 LIMITS OF CONDUCTED SPURIOUS MEASUREMENT

According to FCC 74.861(e)(6)(iii), On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least  $43+10\text{Log}_{10}$  (mean output power in watts) dB..

#### 4.3.2 TEST INSTRUMENTS

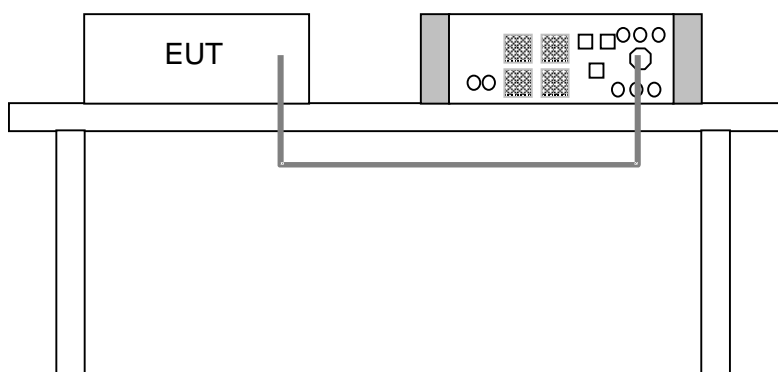
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E7405A	MY45118807	May 25,11	May 25,12

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.  
2. The test was performed in Dongguan Chamber RF.

#### 4.3.3 TEST PROCEDURE

Reference to chapter FCC 2.1051.

#### 4.3.4 TEST SETUP

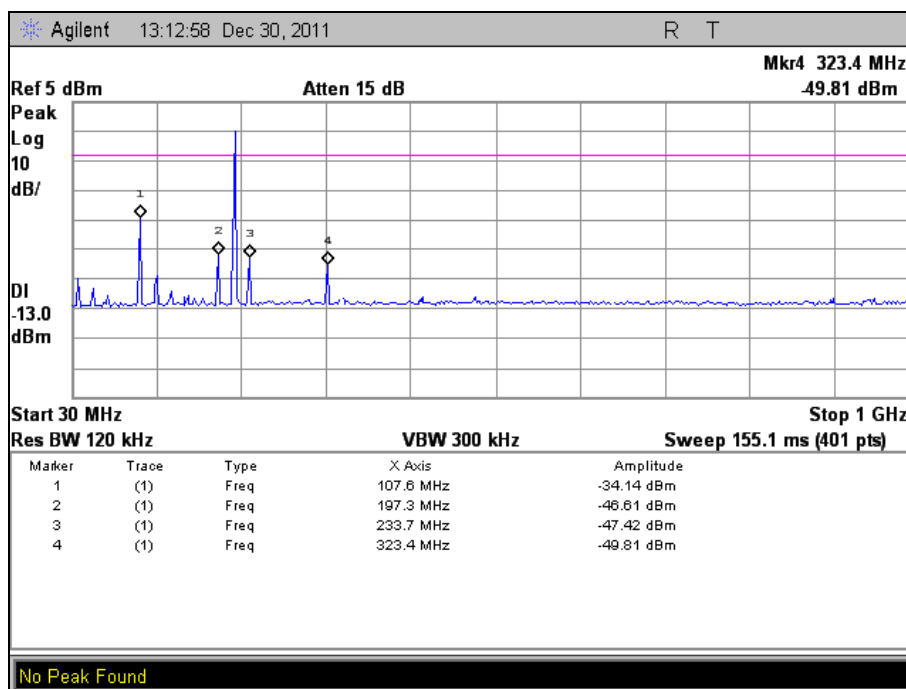






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## BELOW 1GHz WORST-CASE DATA : 213.200MHz



## ABOVE 1GHz WORST-CASE DATA : N/A

Emissions attenuated more than 20 dB below the permissible value are not reported.



### 4.4 OCCUPIED BANDWIDTH

#### 4.4.1 STANDARD APPLICABLE

According to FCC 74.861(e)(3) Any form of modulation may be used. A maximum deviation of ±75 kHz is permitted when frequency modulation is employed.

(5) The operating bandwidth shall not exceed 200 kHz.

(6) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;

(ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

#### 4.4.2 TEST EQUIPMENT LIST AND DETAILS

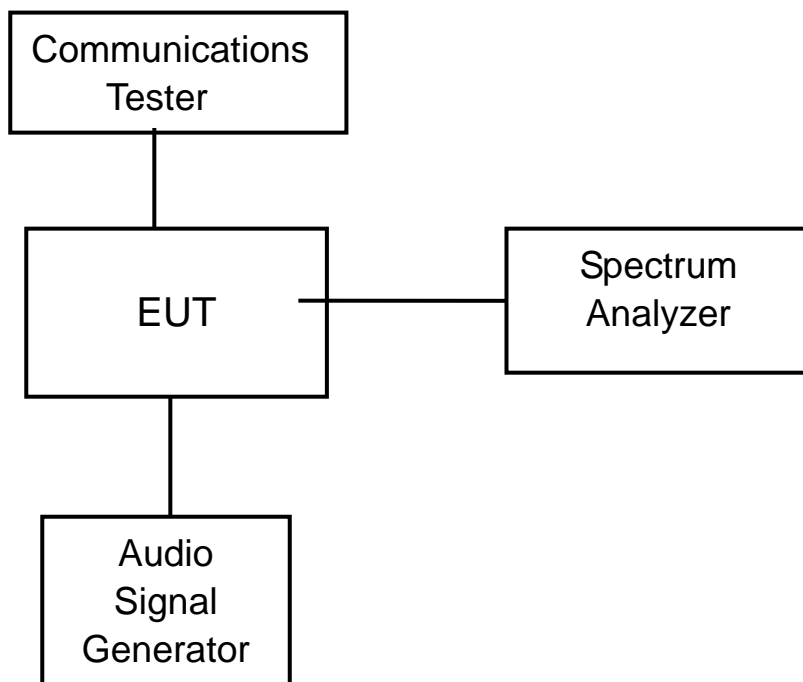
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY46180622	Apr. 25,11	Apr. 25,12
Audio Test System BOSCH	ATS-1	0000300054270000	Nov. 07, 11	Nov. 07, 12
Communications Tester JUNG JIN	MM-2500	N/A	Nov. 07, 11	Nov. 07, 12

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

#### 4.4.3 TEST PROCEDURE

According to FCC 2.1049(c)(1) Other than single sideband or independent sideband transmitters—when modulated by a 2500 Hz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. The input level shall be established at the frequency of maximum response of the audio modulating circuit.

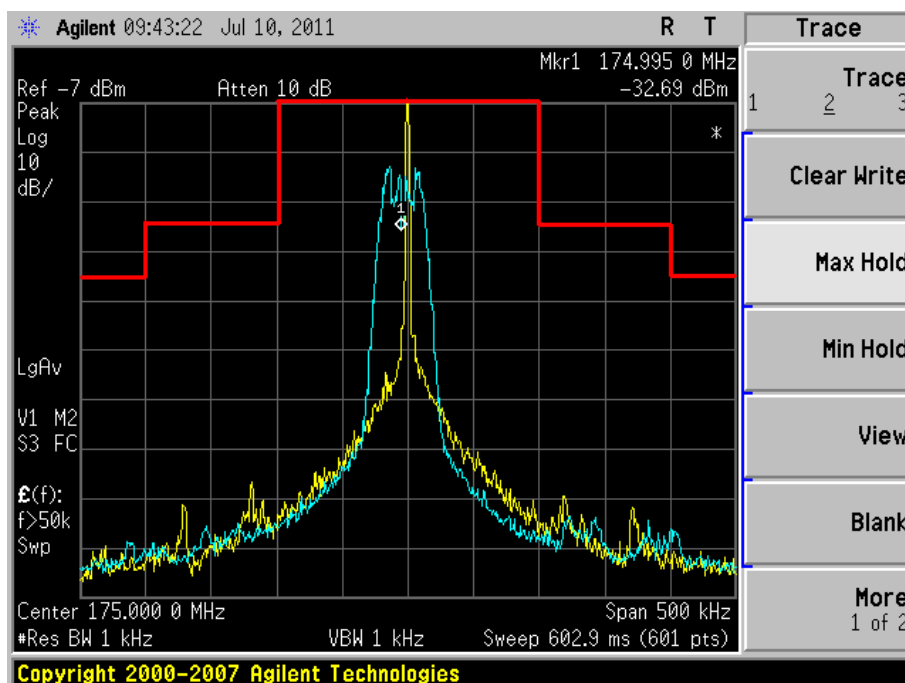
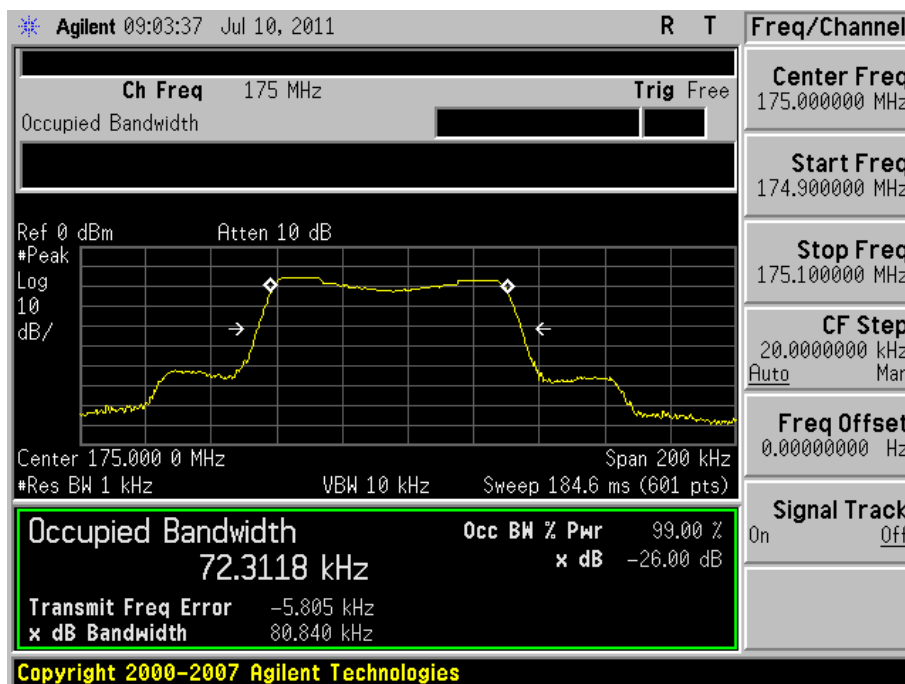
#### 4.4.4 TEST SETUP



**4.4.5 TEST RESULTS**

The 100% deviation is 30 KHz; 50% deviation is 15KHz

Low channel: 175.00 MHz

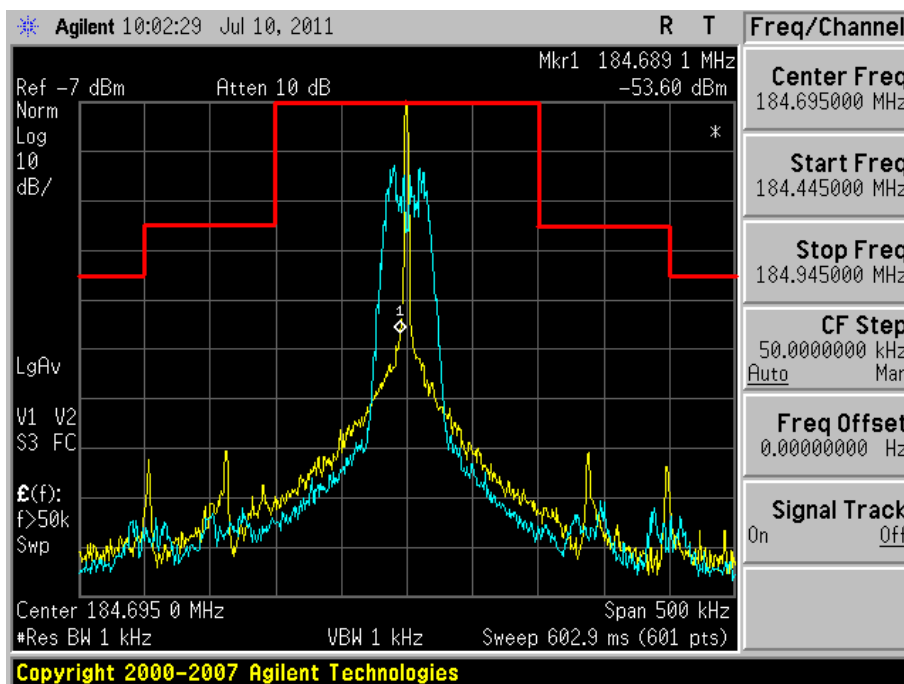
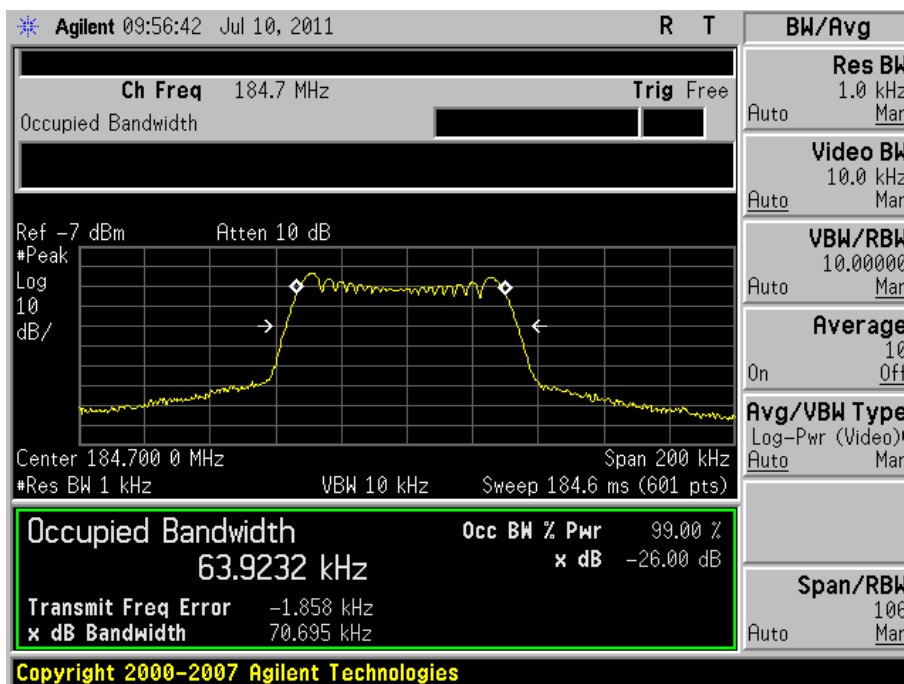






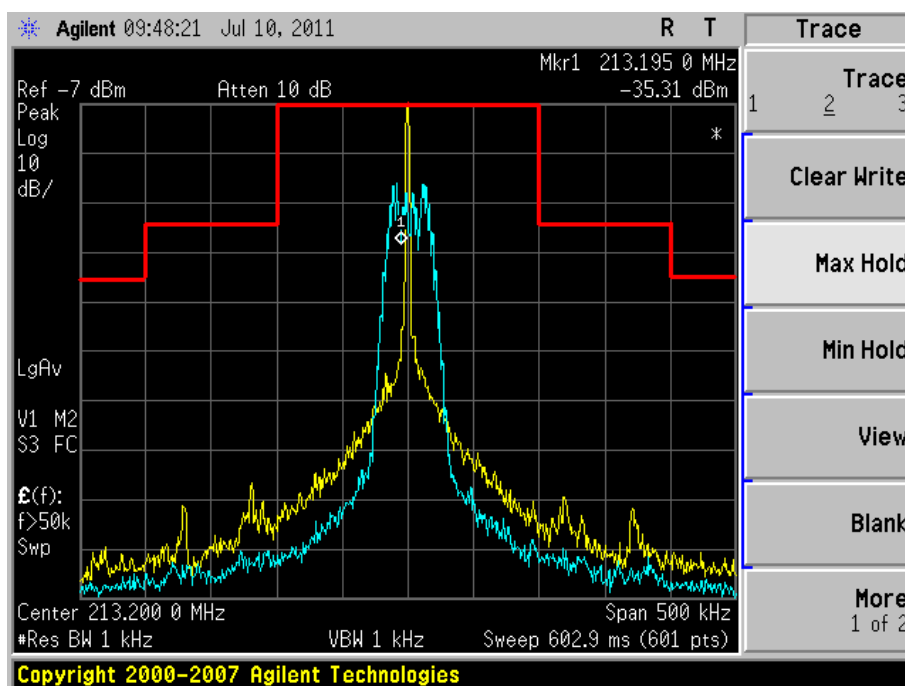
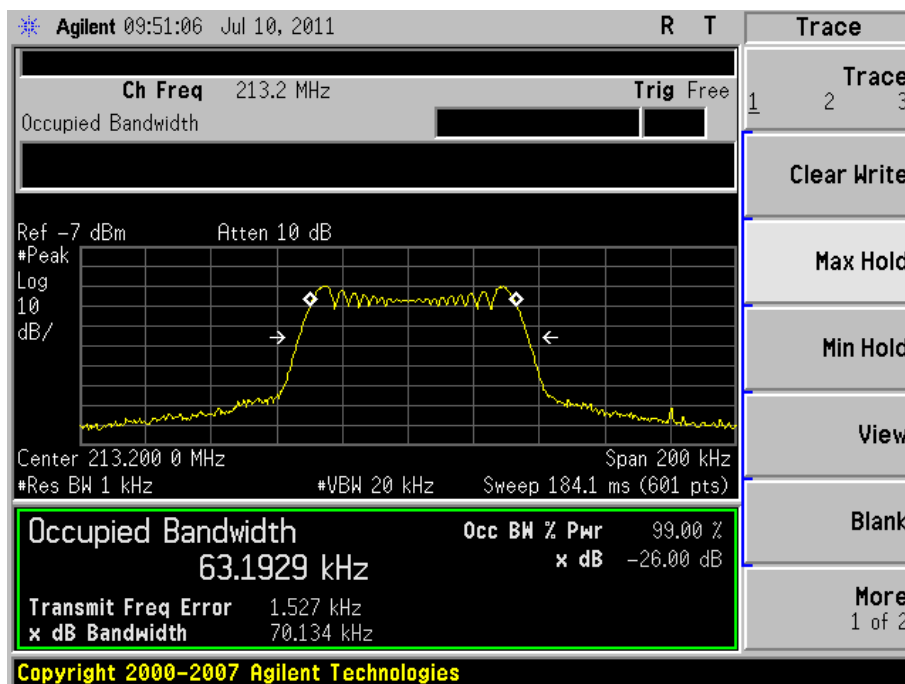
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Low channel: 184.70 MHz



**Test Report No.: FC111024N033**

Low channel: 213.20 MHz





#### 4.5 FREQUENCY TOLERANCE MEASUREMENT

##### 4.5.1 STANDARD APPLICABLE

According to FCC Part 74 Section 74.861(e)(4), the frequency tolerance must be maintained within 0.005%.

##### 4.5.2 TEST EQUIPMENT LIST AND DETAILS

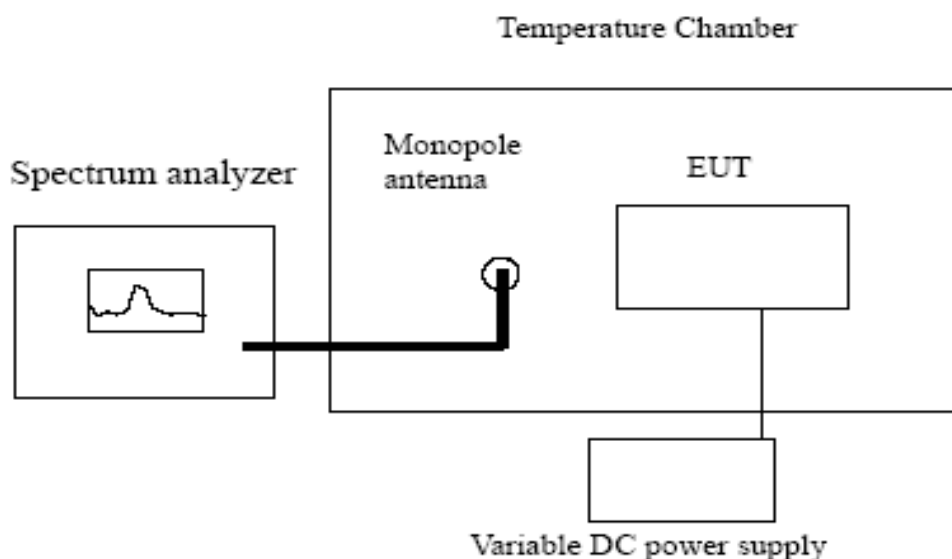
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY46180622	Apr. 25,11	Apr. 25,12

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

##### 4.5.3 TEST PROCEDURE

1. 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.
2. 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.
3. 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.
4. Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

#### 4.5.4 TEST SETUP



#### 4.5.5 TEST RESULTS

Test Data:

A, measurement of Frequency Tolerance (temperature)

Test condition	Power supply	Low Frequency (175.000 MHz)	Middle Frequency (184.700 MHz )	High Frequency (213.200MHz )
-30	9V	174.9990	184.6990	213.1985
-20	9V	174.9992	184.6993	213.1990
-10	9V	174.9994	184.6995	213.1991
0	9V	174.9995	184.6995	213.1993
10	9V	174.9997	184.6996	213.1995
20	9V	175.0001	184.7000	213.2000
30	9V	175.0002	184.7001	213.2001
40	9V	175.0008	184.7006	213.2004
50	9V	175.0013	184.7009	213.2009
Frequency Error		+1.3 KHz	-1.0 KHz	-1.5 KHz
Frequency tolerance		0.00074%	0.00054%	0.0007%
Frequency Tolerance Limit		0.005%		

**B, The measurement of Frequency Tolerance (supply voltage)**

Test condition	Power supply	Low Frequency (175.000 MHz)	Middle Frequency (184.700 MHz )	High Frequency (213.200MHz )
20	7.65V	175.0010	184.7009	213.2005
20	10.35V	175.0012	184.7010	213.2013
Frequency Error		+1.2 KHz	+1.0 KHz	+1.3 KHz
Frequency tolerance		0.00069%	0.00054%	0.0006%
Frequency Tolerance Limit		0.005%		



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#### 4.6 MODULATION CHARACTERISTICS MEASUREMENT

##### 4.6.1 STANDARD APPLICABLE

According to FCC Part 2.1047(a) (b)

##### 4.6.2 TEST EQUIPMENT LIST AND DETAILS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Audio Test System BOSCH	ATS-1	0000300054270000	Nov. 07, 11	Nov. 07, 12
Communications Tester JUNG JIN	MM-2500	N/A	Nov. 07, 11	Nov. 07, 12

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

##### 4.6.3 TEST PROCEDURE

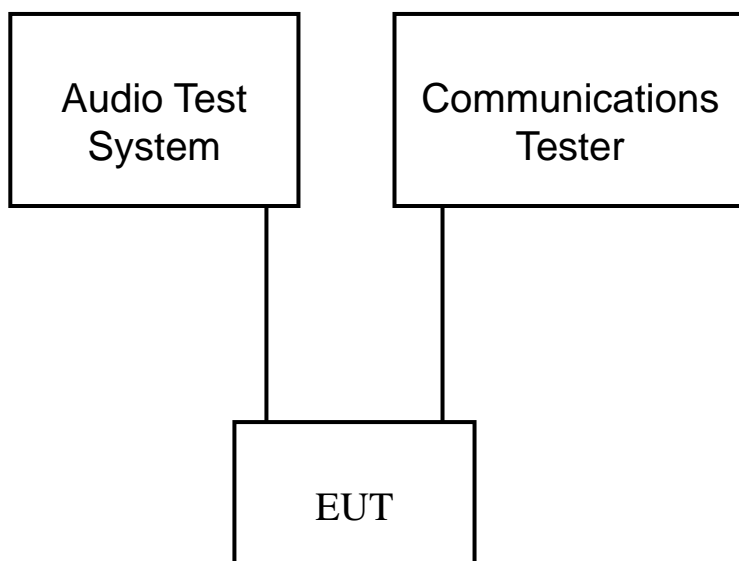
###### Audio Frequency Response:

- 1) Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- 2) Set the test receiver to measure rms deviation and record the deviation reading.
- 3) Record the DMM reading as  $V_{REF}$ .
- 4) Set the audio frequency generator to the desired test frequency between 100Hz and 5000Hz.
- 5) Vary the audio frequency generator output level until the deviation reading that was recorded in step f) is obtained.
- 6) Record the DMM reading as  $V_{FREQ}$ .
- 7) Calculate the audio frequency response at the present frequency as:  
$$\text{audio frequency response} = 20 \log_{10}(V_{FREQ} / V_{REF})$$
- 8) Repeat steps 4) through 7) for all the desired test frequencies.

**Modulation Limiting:**

- 1) Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation.
- 2) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.
- 3) With the level from the audio frequency generator held constant at the level obtained in step e), slowly vary the audio frequency from 300 Hz to 3000 Hz and observe the steady-state deviation. Record the maximum deviation.
- 4) Set the test receiver to measure peak negative deviation and repeat steps 1) through 3).
- 5) The values recorded in steps 3) and 4) are the modulation limiting.

**4.6.4 TEST SETUP**



**4.6.5 TEST RESULTS**

**Audio Frequency Response**

Channel: 175.000 MHz

Modulation Frequency(Hz)	Input Level(mV)	Audio Frequency Response(dB)
100	2.209	0.33
300	2.160	0.13
500	2.146	0.08
700	2.140	0.05
1000	2.127	0
1500	2.103	-0.1
2000	2.087	-0.16
2500	2.063	-0.27
3500	1.990	-0.58
5000	1.869	-1.12

Channel: 184.700 MHz

Modulation Frequency(Hz)	Input Level(mV)	Audio Frequency Response(dB)
100	2.250	0.31
300	2.214	0.17
500	2.189	0.07
700	2.190	0.07
1000	2.172	0
1500	2.150	-0.09
2000	2.116	-0.23
2500	2.078	-0.38
3500	1.972	-0.84
5000	1.817	-1.55





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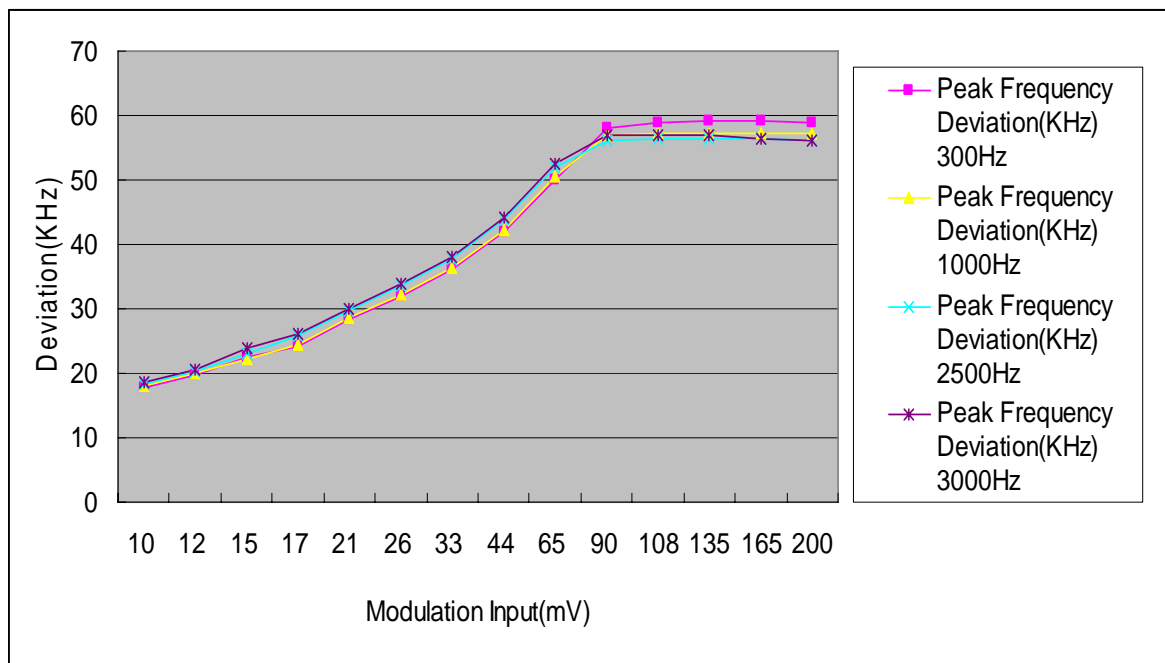
Channel: 213.200 MHz

Modulation Frequency(Hz)	Input Level(mV)	Audio Frequency Response(dB)
100	2.098	0.26
300	2.056	0.09
500	2.048	0.06
700	2.038	0.01
1000	2.035	0
1500	2.019	-0.07
2000	2.003	-0.14
2500	1.968	-0.29
3500	1.903	-0.58
5000	1.777	-1.18

### Modulation Limiting

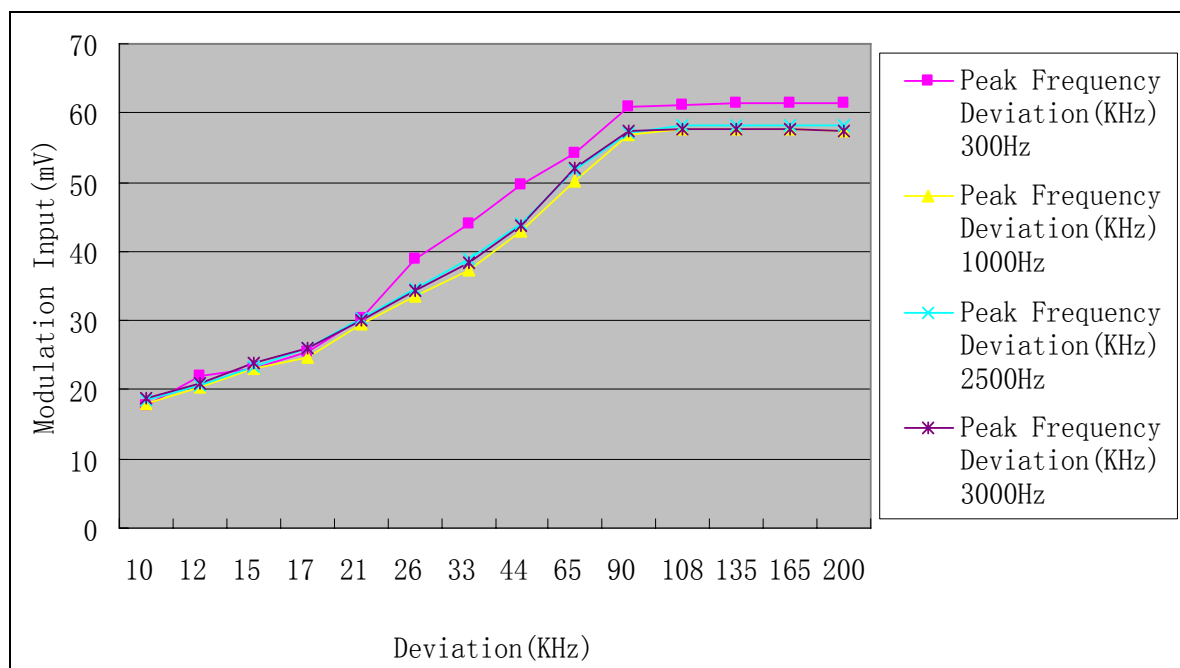
Channel:175.000 MHz

Modulation Input(mV)	Peak Frequency Deviation(KHz)			
	300Hz	1000Hz	2500Hz	3000Hz
9.67	17.8	18.0	18.2	18.5
11.50	19.8	20.0	20.2	20.5
14.50	22.5	22.2	23.0	23.8
16.50	24.3	24.5	25.8	26.0
21.00	28.2	28.5	29.8	30.0
26.00	32.0	32.2	33.5	34.0
33.00	36.1	36.5	37.8	38.0
44.00	42.0	42.2	43.8	44.1
65.00	50.1	50.5	52.0	52.5
90.00	58.0	57.0	56.0	57.0
108.00	59.0	57.2	56.5	57.0
135.00	59.1	57.2	56.5	56.9
165.00	59.1	57.2	56.4	56.5
200.00	59.0	57.1	56.2	56.2



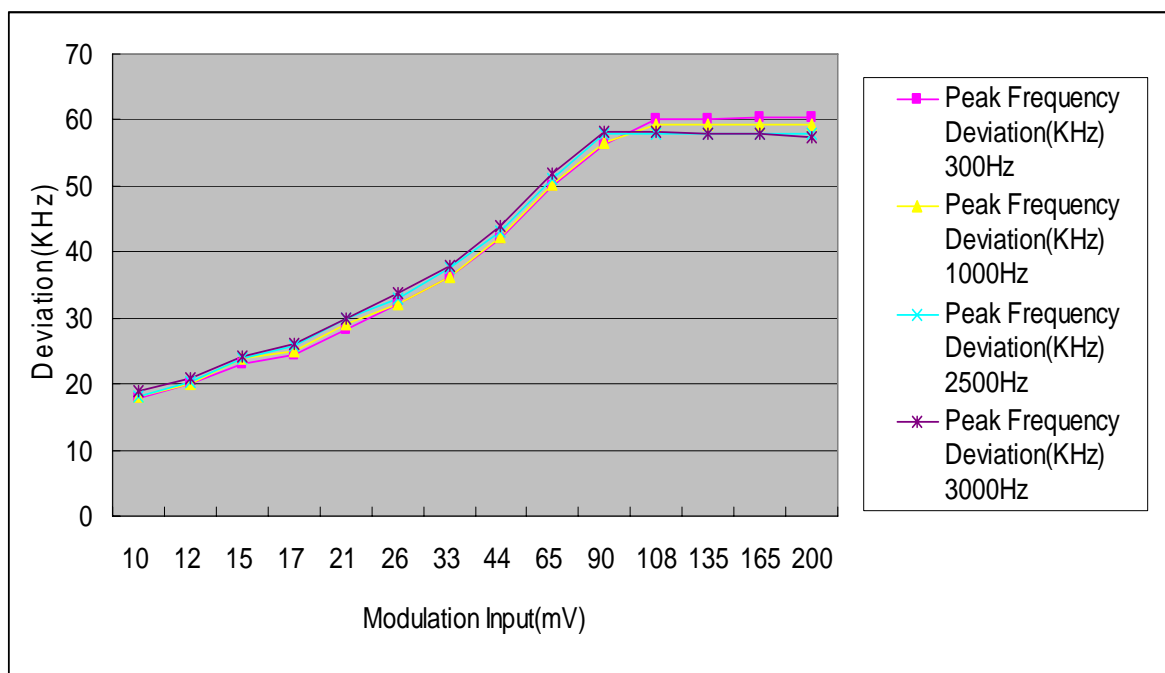
Channel: 184.700 MHz

Modulation Input(mV)	Peak Frequency Deviation(KHz)			
	300Hz	1000Hz	2500Hz	3000Hz
9.67	17.8	18.0	18.5	18.7
11.50	22.0	20.5	20.7	20.8
14.50	23.0	23.0	23.2	23.9
16.50	25.5	24.8	25.9	26.0
21.00	30.2	29.5	30.2	30.0
26.00	38.8	33.5	34.5	34.2
33.00	44.0	37.2	38.8	38.3
44.00	49.5	43.0	44.0	43.8
65.00	54.1	50.2	51.8	52.0
90.00	61.0	56.8	57.0	57.5
108.00	61.2	57.7	58.2	57.6
135.00	61.5	57.7	58.2	57.6
165.00	61.5	57.6	58.2	57.6
200.00	61.4	57.5	58.1	57.5



Channel:213.200 MHz

Modulation Input(mV)	Peak Frequency Deviation(KHz)			
	300Hz	1000Hz	2500Hz	3000Hz
9.67	17.9	18.0	18.2	19.0
11.50	20.0	20.0	20.2	21.0
14.50	23.0	23.8	23.9	24.1
16.50	24.5	25.0	25.8	26.0
21.00	28.2	29.0	29.8	30.0
26.00	32.0	32.1	33.0	33.8
33.00	36.1	36.1	37.5	38.0
44.00	42.0	42.2	43.0	43.8
65.00	50.0	50.1	51.0	51.8
90.00	56.2	56.5	57.9	58.1
108.00	60.1	59.2	58.0	58.1
135.00	60.2	59.4	58.0	58.0
165.00	60.5	59.4	58.0	58.0
200.00	60.5	59.3	57.9	57.5





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## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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## 6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---