



Test Report

Product Name	Wireless Microphone
Model No.	HT-100
FCC ID	C5CHT100

Applicant	Phonic Corporation
Address	9F,59 Tung Hsing Rd., Taipei, Taiwan 110

Date of Receipt	April 26, 2006
Issued Date	May 10, 2006
Report No.	063L061FI

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of Quietek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: May 10, 2006

Report No.: 063L061FI



Accredited by NIST (NVLAP)

NVLAP Lab Code: 200533-0

Product Name	Wireless Microphone
Applicant	Phonic Corporation
Address	9F,59 Tung Hsing Rd., Taipei, Taiwan 110
Manufacturer	Phonic Corporation
Model No.	HT-100
Working Voltage	1.5V AA Battery x 2
Trade Name	PHONIC
Applicable Standard	FCC CFR Title 47 Part 74 Subpart H, section 74.861
Test Result	Complied



Test results relate only to the samples tested.

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Documented By

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0914

Tested By

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Aaron Chung

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Approved By

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Gene Chang

(Gene Chang)



TABLE OF CONTENTS

Description	Page
1. GENERAL INFORMATION	5
1.1. EUT Description.....	5
1.2. Operational Description	6
1.3. Tested System Details.....	7
1.4. Configuration of Test System	8
1.5. EUT setup description	8
1.6. Test Facility	9
2. Conducted Emission.....	10
2.1. Test Equipment.....	10
2.2. Test Setup	10
2.3. Limits	10
2.4. Test Procedure	11
2.5. Uncertainty	11
2.6. Test Result of Conducted Emission.....	12
3. Carrier Output Power.....	13
3.1. Test Equipment.....	13
3.2. Test procedure	13
3.3. Limit	13
3.4. Uncertainty	14
3.5. Test Result of Carrier Output Power	15
4. Radiated Emission.....	17
4.1. Test Equipment.....	17
4.2. Test Setup	17
4.3. Limits	18
4.4. Test Procedure	19
4.5. Uncertainty	19
4.6. Test Result of Radiated Emission.....	20
5. Occupied Bandwidth.....	32
5.1. Test Equipment.....	32

5.2.	Test Setup	32
5.3.	Uncertainty	32
5.4.	Test Result of Occupied Bandwidth	34
6.	Frequency Stability vs. Temperature	38
6.1.	Test Equipment.....	38
6.2.	Test Result of Frequency Stability vs. Temperature	38
7.	Frequency Stability vs. Voltage	40
7.1.	Test Equipment.....	40
7.2.	Test Result of Frequency Stability vs. Voltage	40
8.	Frequency Deviation	42
8.1.	Test Equipment.....	42
8.2.	Test Results of Frequency deviation.....	42
9.	EMI Reduction Method During Compliance Testing	48

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless Microphone
Trade Name	PHONIC
Model No.	HT-100
FCC ID	C5CHT100
Frequency Range	614– 806 MHz
Channel Number	16
Type of Modulation	FM
Antenna Type	Integral
Bandwidth	24MHz

Note:

1. The EUT is a Wireless Microphone
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 74 subpart H, section 74.861

1.2. Operational Description

The EUT is a Wireless Microphone with 16 selectable UHF channels preset.

The device uses FM modulation for wireless transmission. The antenna is integrated with transmitter.

This wireless phone adopts the Microprocessor controlled PLL synthesized technology.

It provides internal squelch and mute circuit mode that can resist unusual noise.

Test Mode	Mode 1: Transmitter
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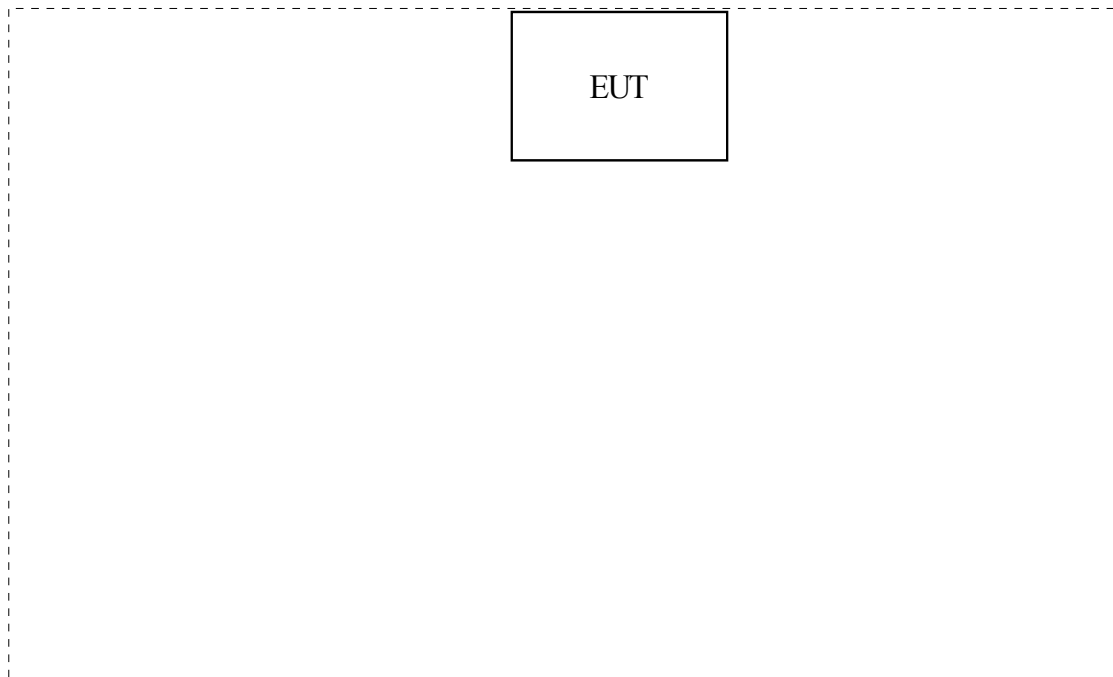
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A.	N/A	N/A

1.4. Configuration of Test System



1.5. EUT setup description

- (1) Setup the EUT as shown in section 1.4
- (2) Setup the test channel by controlling channel selector for testing.
- (3) Verify that the EUT works correctly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: June 22, 2001 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation



Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com



2. Conducted Emission

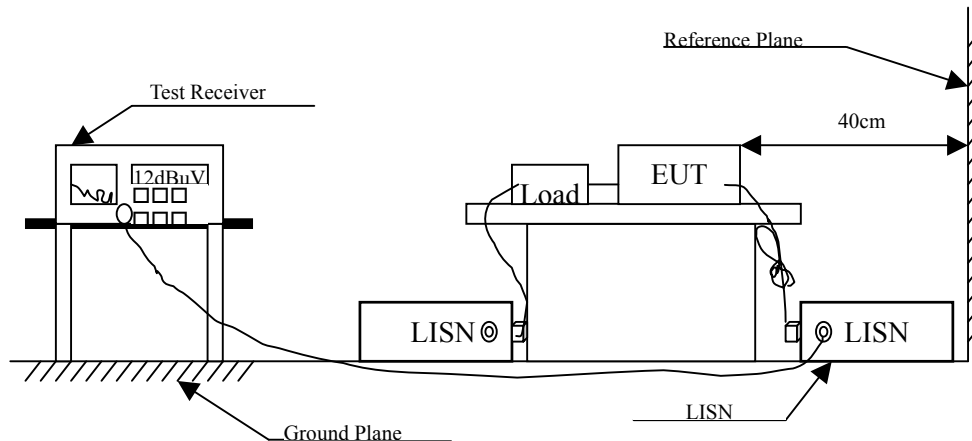
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2005	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2005	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2005	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2005	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

2.6. Test Result of Conducted Emission

Product : Wireless Microphone
Test Item : Conducted Emission Test

Owing to the DC operation of EUT, this test item is not applicable..

3. Carrier Output Power : FCC 2.1046 (a) ; 74.861 (e)(1)

The power of the measured unmodulated carrier power at output of the transmitter power amplifier (antenna input power) may not exceed the following:

50 mW : 54 – 72, 76 – 88 and 174 – 216 MHz band

250 mW : 470 – 608 and 614 – 806 MHz band.

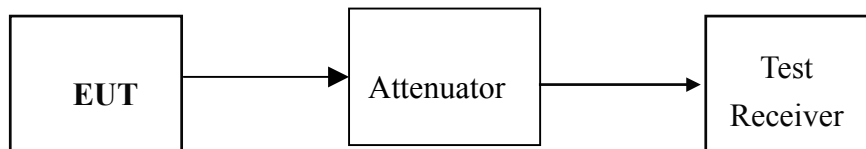
3.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No.	Last Cal.
X	Test receiver	R&S	ESI 26/838786/004	October, 2005

Note: 1. All equipments upon which needed to be calibrated are with calibration period of 1 year.
2. Mark “X” test instruments are used to measure the final test results.

3.2. Test setup



3.3. Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a test receiver. Transmitter output power was measured with the test receiver in dBm. The power output at the transmitter antenna port was determined by assign the value of the attenuator to the test receiver reading.

Tests were performed with an unmodulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

3.4. Limit

The maximum peak power shall be less 0.25Watt.

3.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

3.6. Test Result of Carrier Output Power

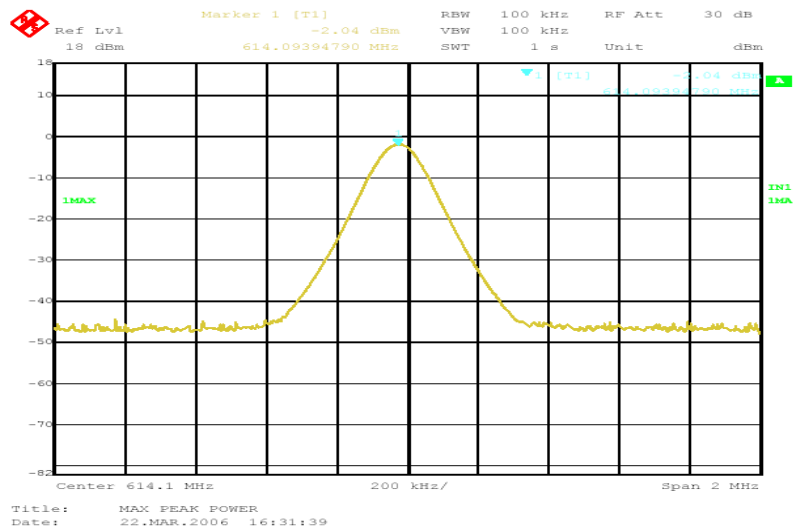
Product : Wireless Microphone

Test Item : Peak Power Output

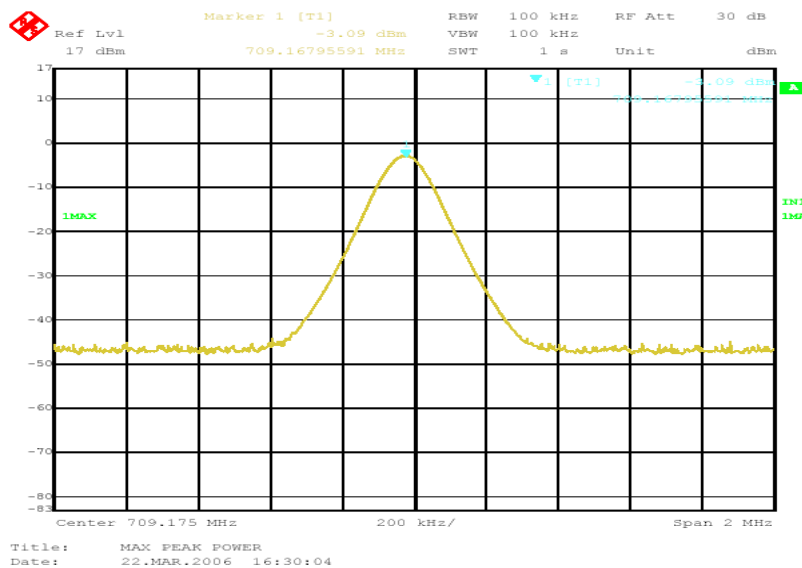
Test Mode : Mode 1: Transmitter

Frequency (MHz)	Measurement	Required Limit	Result
614.1	-2.04 dBm	0.25Watt	Pass
709.175	-3.09 dBm	0.25Watt	Pass
804.25	2.91 dBm	0.25Watt	Pass

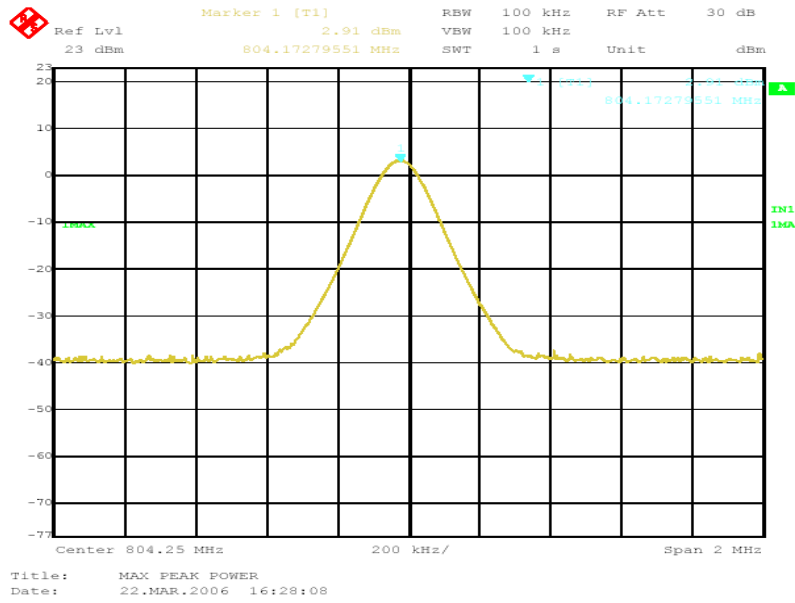
614.1MHz Frequency



709.175MHz



804.25 MHz



4. Radiated Emission : FCC 2.1053 ; 74.861(e)(6)(iii)

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation.

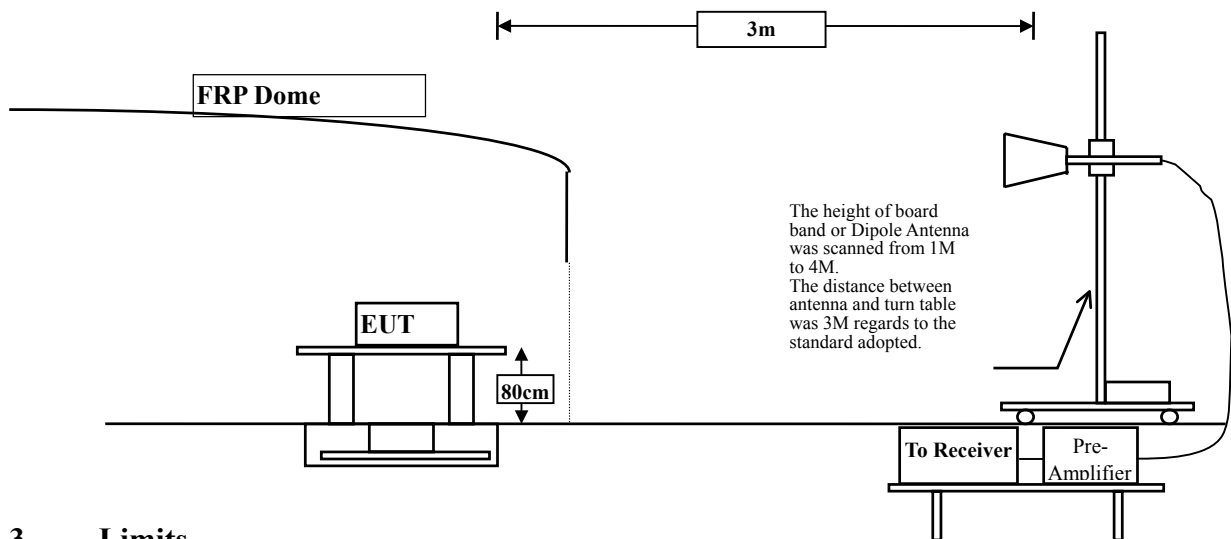
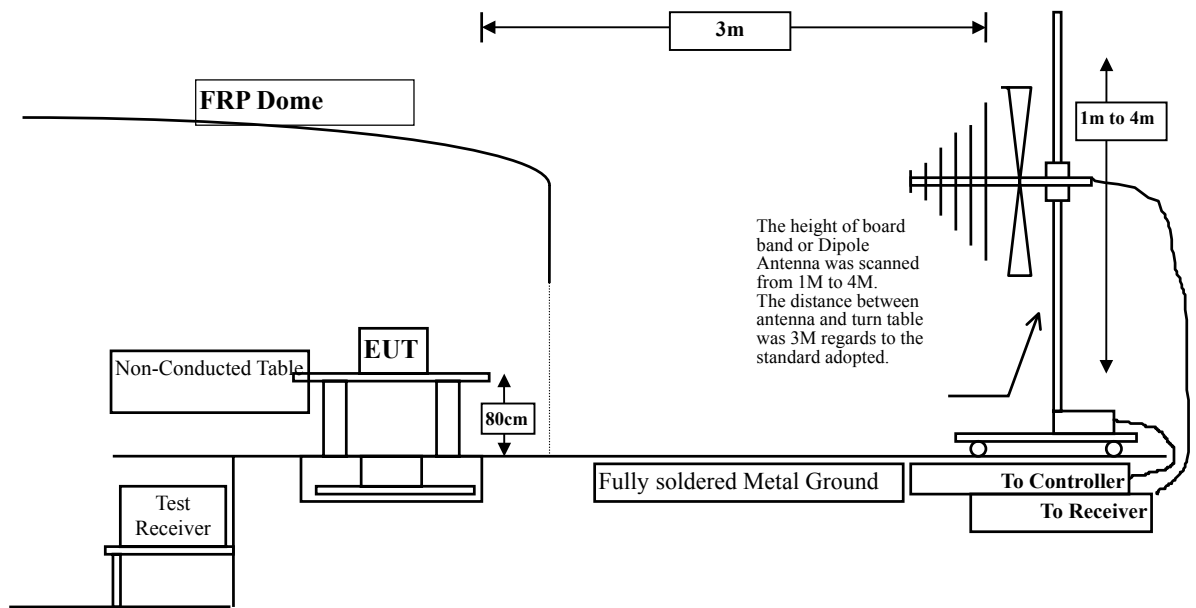
4.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
	Pre-Amplifier	HP	8447D/3307A01812	May, 2005
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2005
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2005
	Pre-Amplifier	HP	8447D/3307A01814	May, 2005
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
	Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005
	X Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2005
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2005
	X Horn Antenna	ETS	3115 / 0005-6160	July, 2005
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2005

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

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.

4.4. Test Procedure

a) The EUT is placed on a turn table. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

b) Remove the transmitter and replace it with a substitution antenna.

c) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna. With the antennas at both ends horizontally polarized and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained.

d) Repeat step c) with both antennas vertically polarized for each spurious frequency.

e) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps c) and d) by the power loss in the cable between the generator and the antenna and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna.

f) The levels recorded in step e) are absolute levels of radiated spurious emissions in dBm. The radiated spurious emissions in dB can be calculated by the following:

Radiated spurious emissions dB = $10\log_{10}(\text{TX power in watts}/0.001)$ – the levels in step e)

4.5. Uncertainty

The measurement uncertainty above 1G is evaluated as ± 3.9 dB

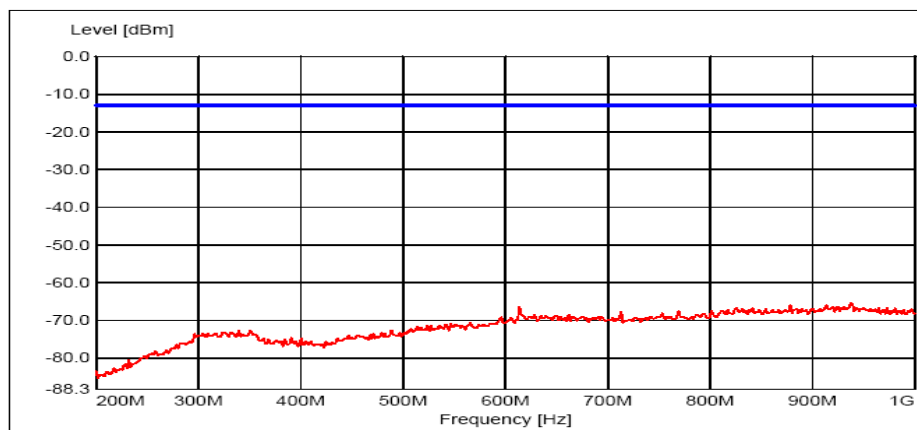
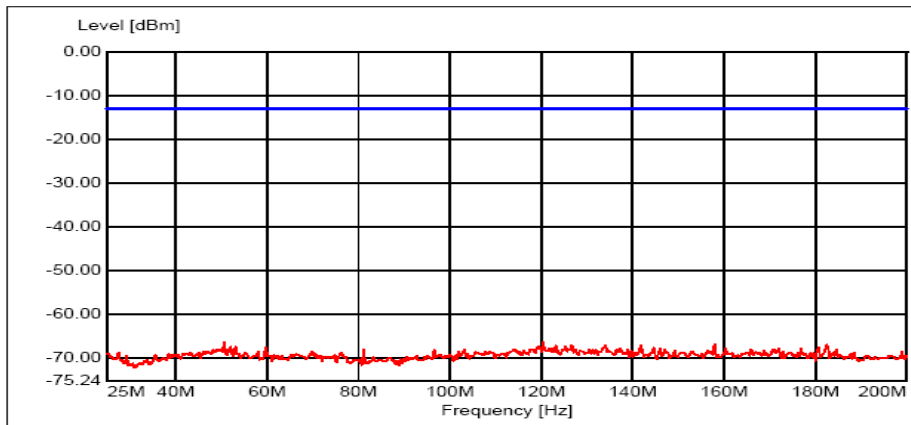
under 1G is evaluated as ± 3.8 dB

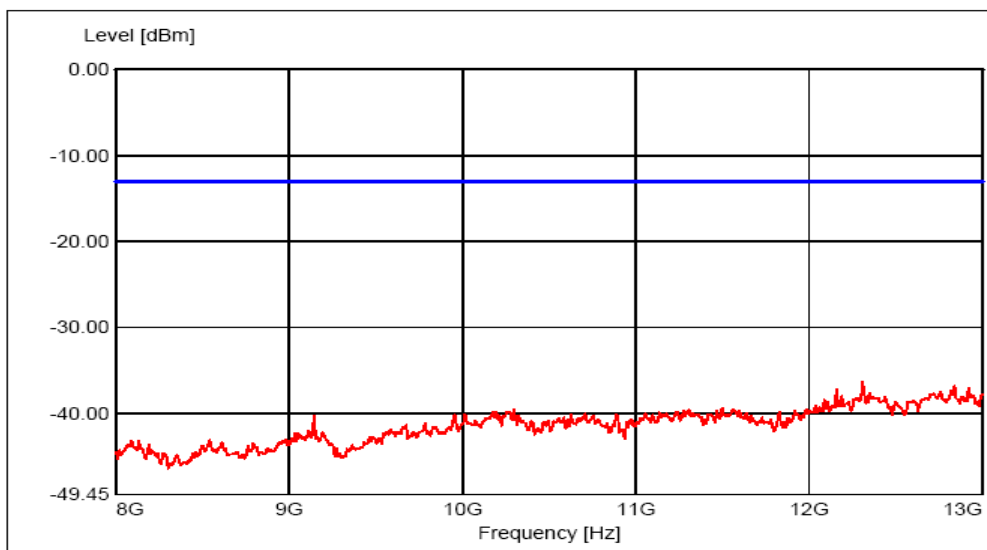
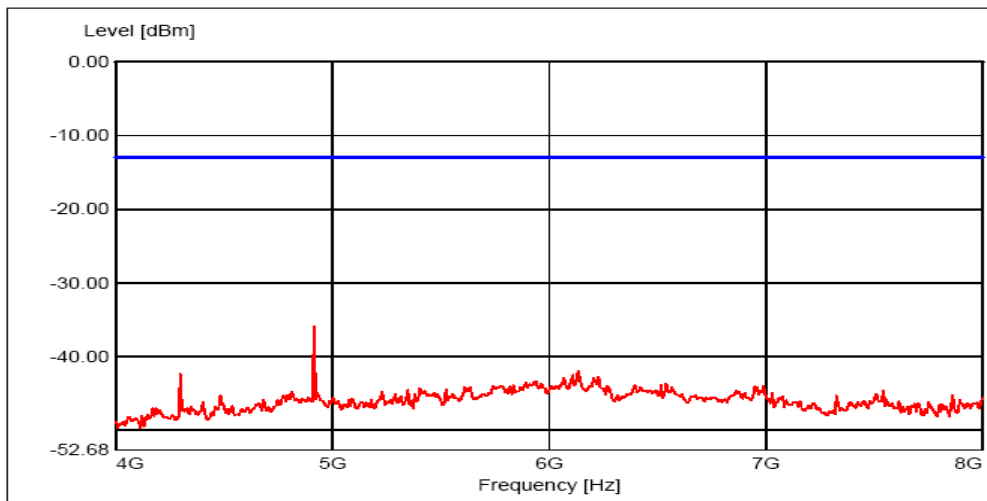
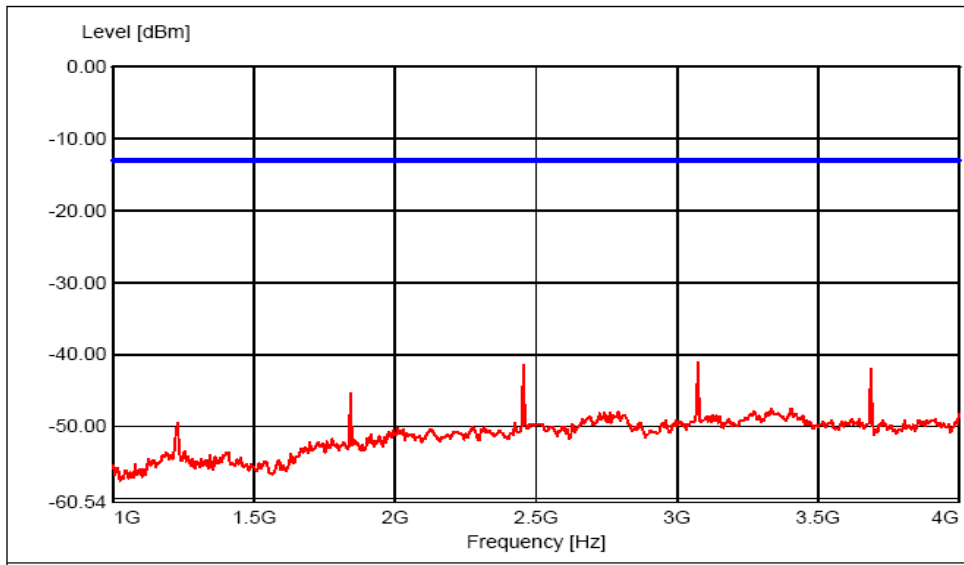
4.6. Test Result of Radiated Emission

Product : Wireless Microphone
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (Channel 614.1MHz)

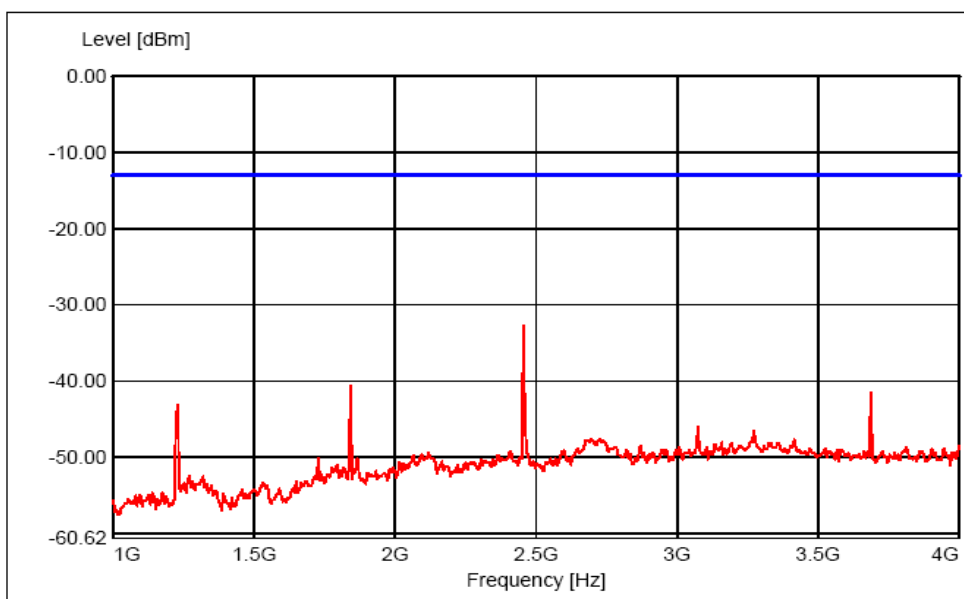
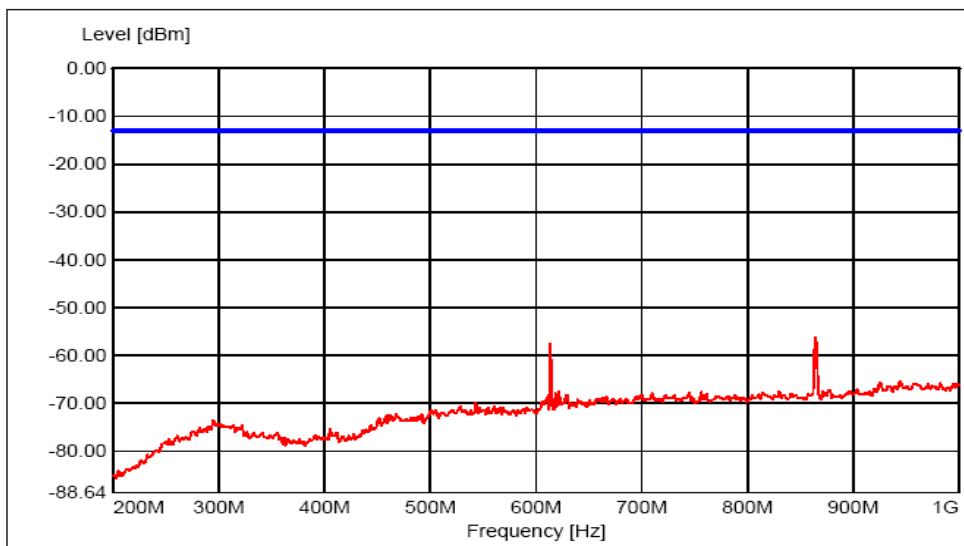
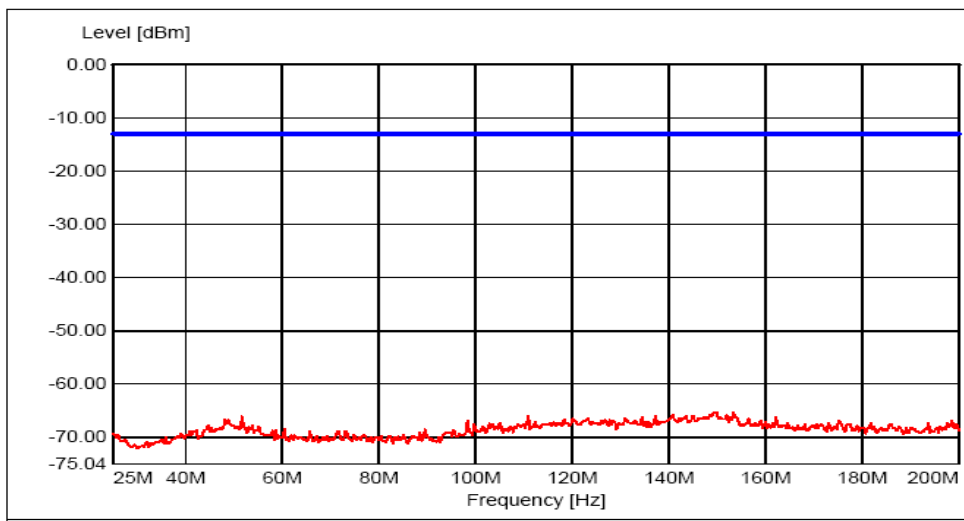
Frequency MHz	Correct Factor dB	Reading Level dBm	Measurement Level dBm	Margin dB	Limit dBm
Horizontal					
614.1765	22.18	-66.8	-44.62	31.62	-13
3074.2143	-0.22	-41.12	-41.34	28.34	-13
4914.6842	4.96	-35.95	-30.99	17.99	-13
Vertical					
614.1722	22.18	-57.6	-35.42	22.42	-13
2455.4122	2.06	-32.77	-30.71	17.71	-13
4914.5223	4.96	-38.24	-33.28	20.28	-13

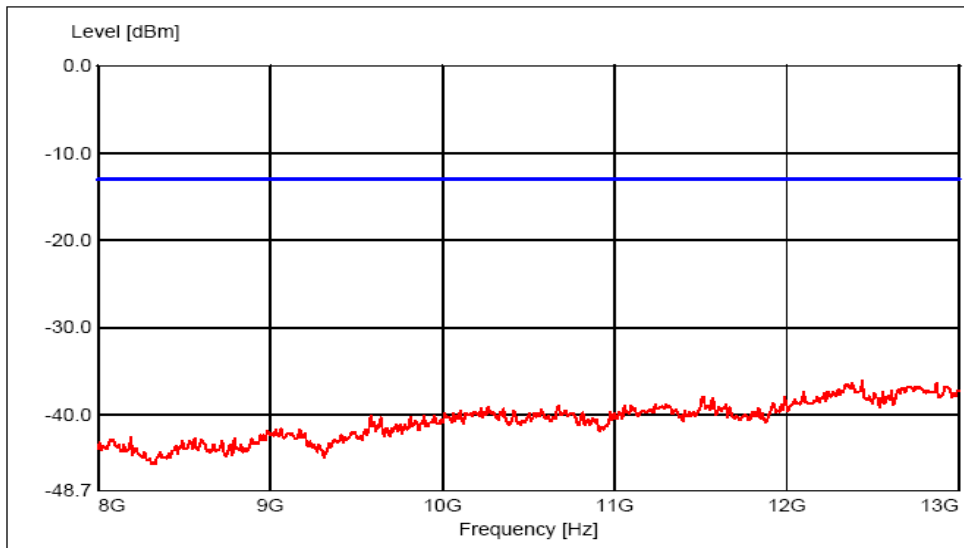
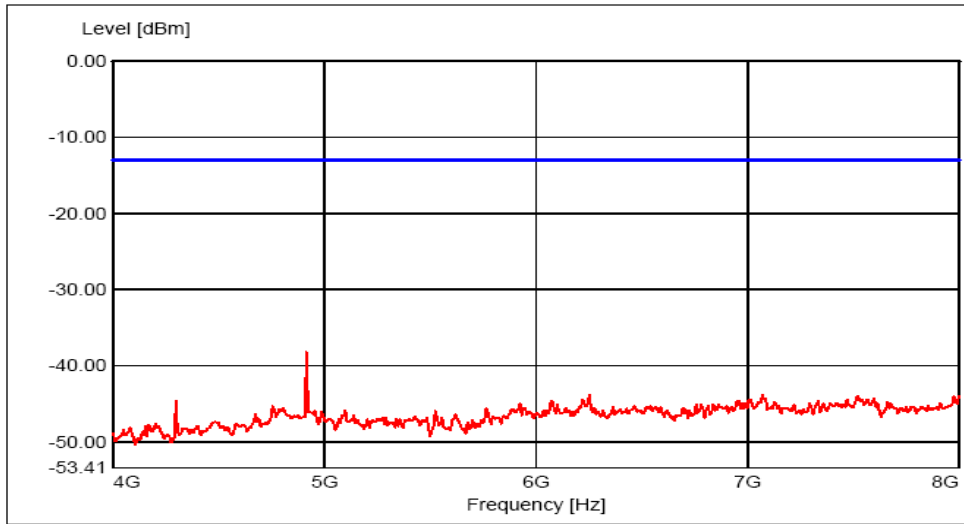
Horizontal polarization (Channel 614.1MHz)





Vertival polarization (Channel 614.1MHz)





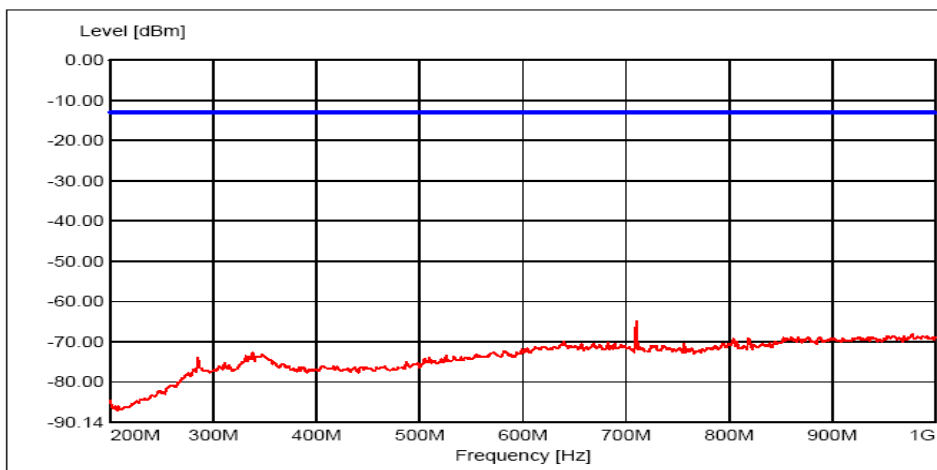
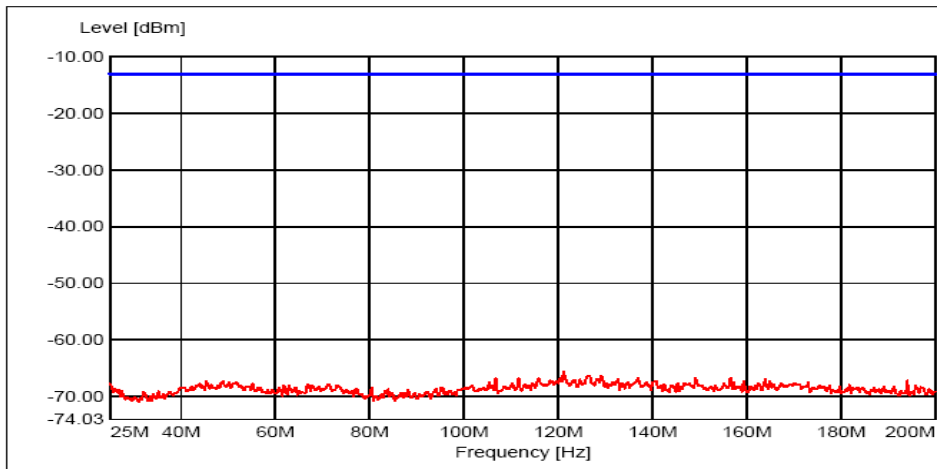
Note:

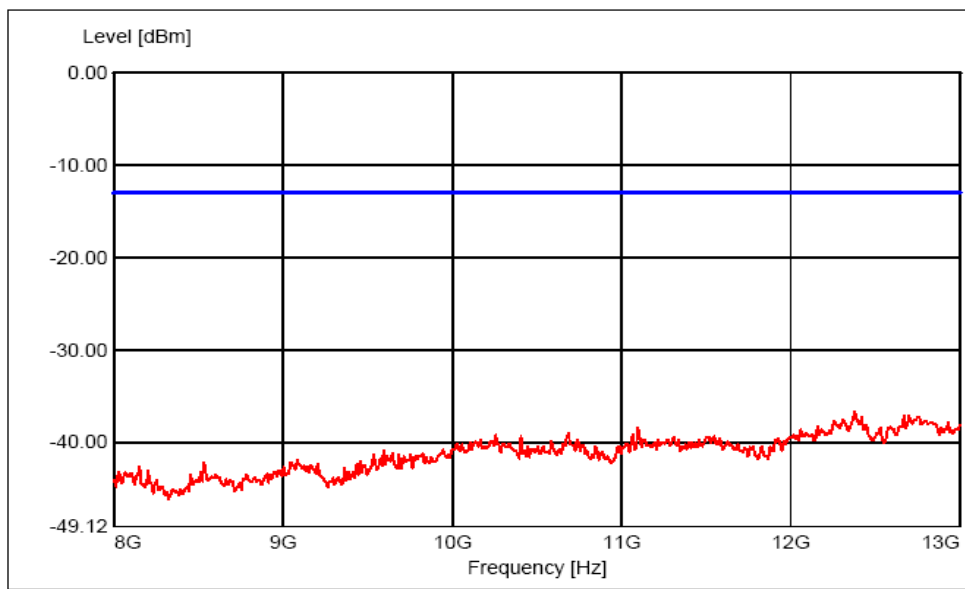
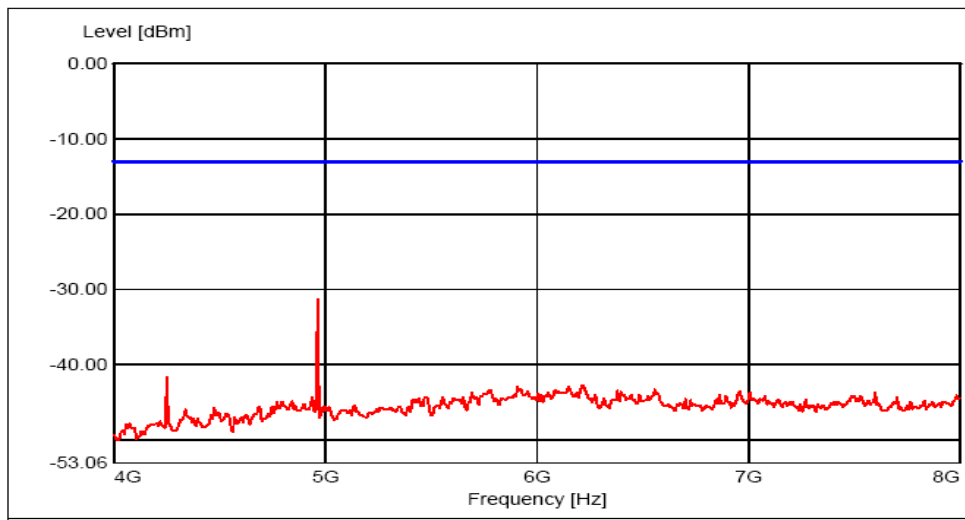
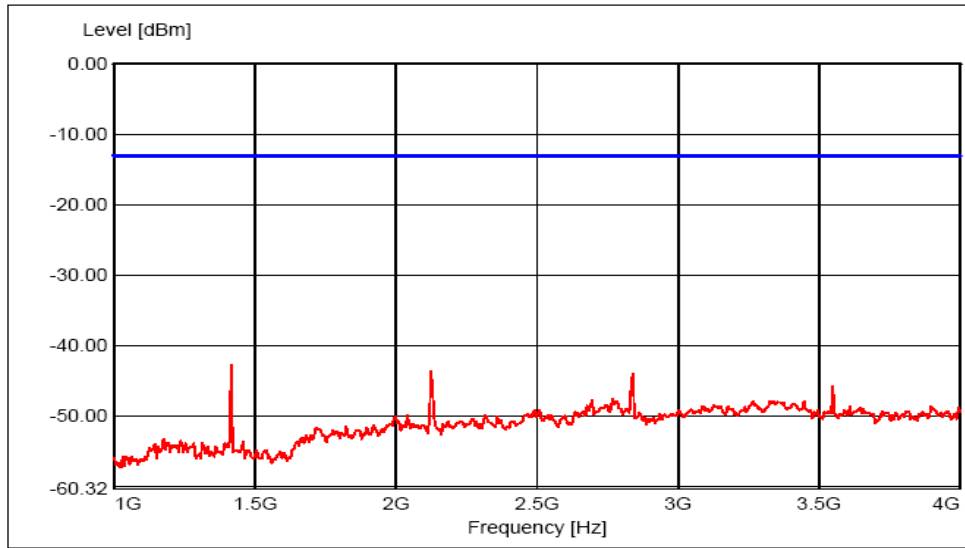
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. $43 + 10 \log (P) = \text{Measurement Level} = \text{Reading Level} + \text{Correct Factor}$

Product : Wireless Microphone
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (Channel 709.175MHz)

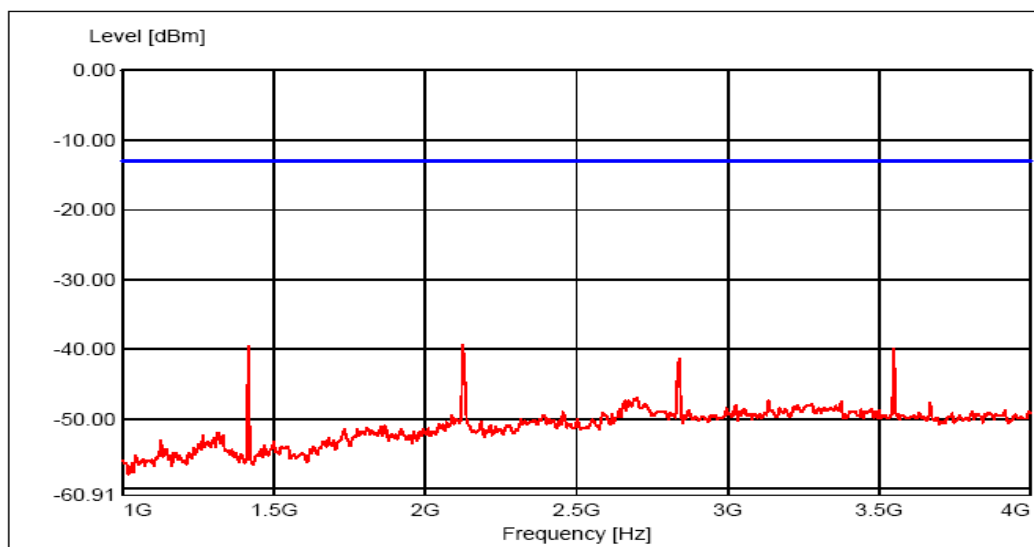
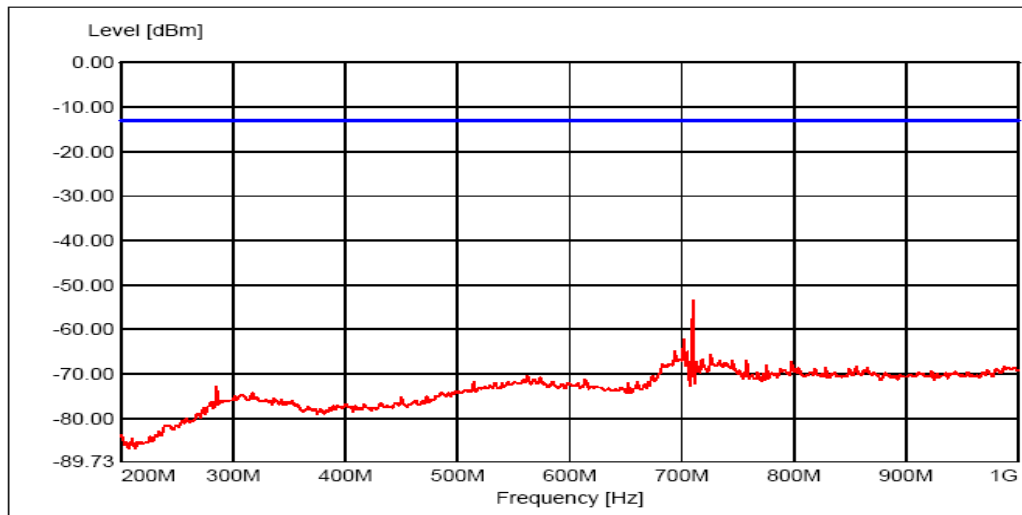
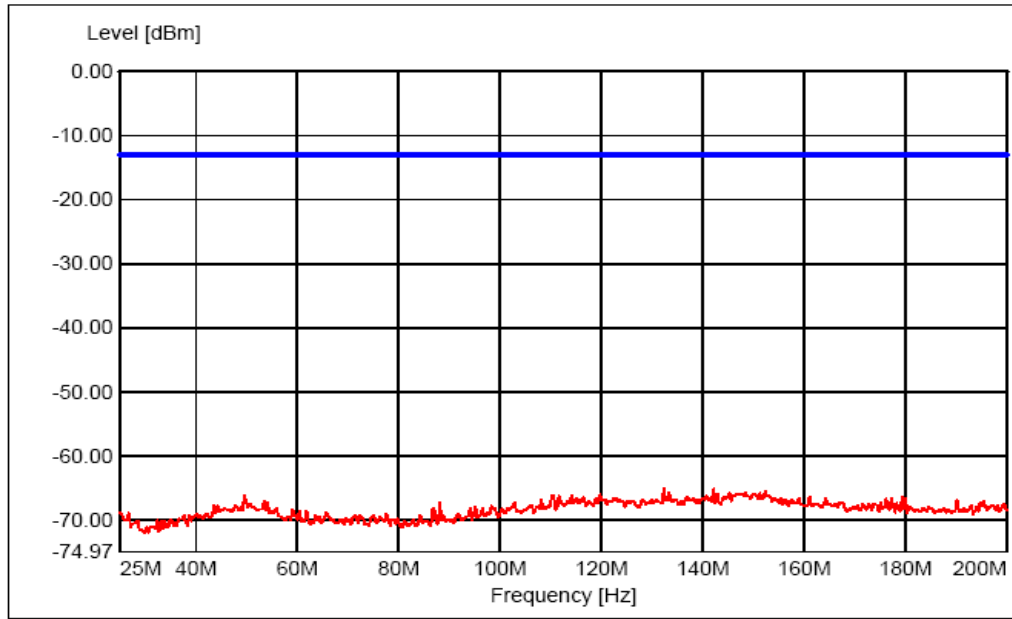
Frequency MHz	Correct Factor dB	Reading Level dBuV/m	Measurement Level dBuV	Margin dB	Limit dBuV/m
Horizontal					
709.820614	23.43	-64.86	-41.43	28.43	-13
1415.01786	-8.7	-42.74	-51.44	38.44	-13
4962.1384	4.96	-31.25	-26.29	13.29	-13
Vertical					
709.820413	23.43	-53.52	-30.09	17.09	-13
2124.6418	3.2	-39.33	-36.13	23.13	-13
4962.413	4.96	-32.22	-27.26	14.26	-13

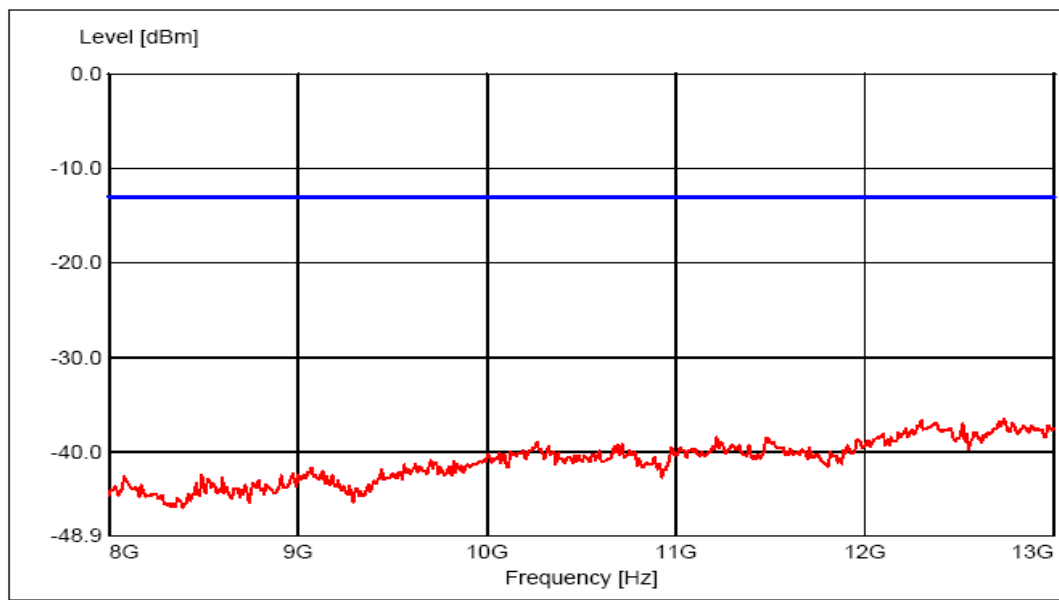
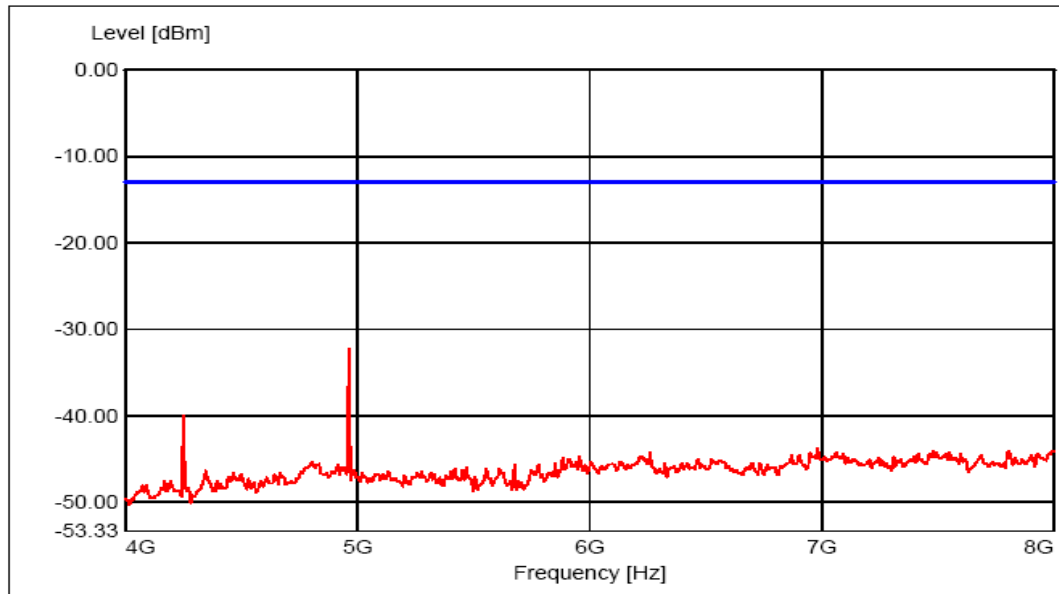
Horizontal polarization (Channel 709.175MHz)





Vertical polarization (Channel 709.175MHz)





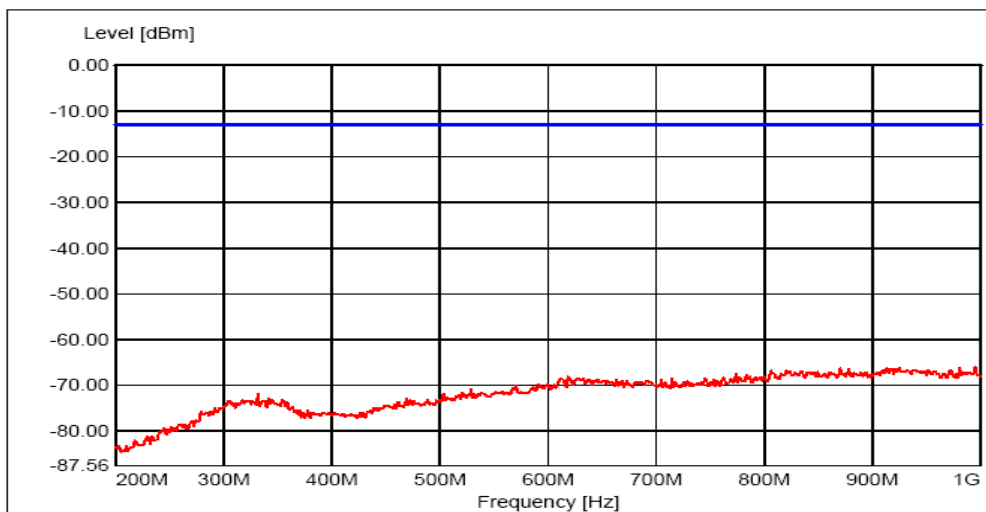
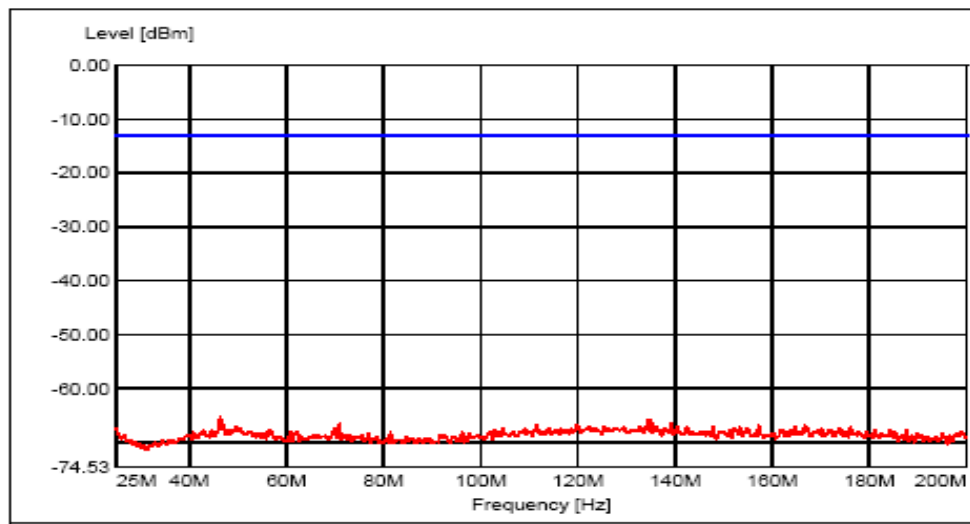
Note:

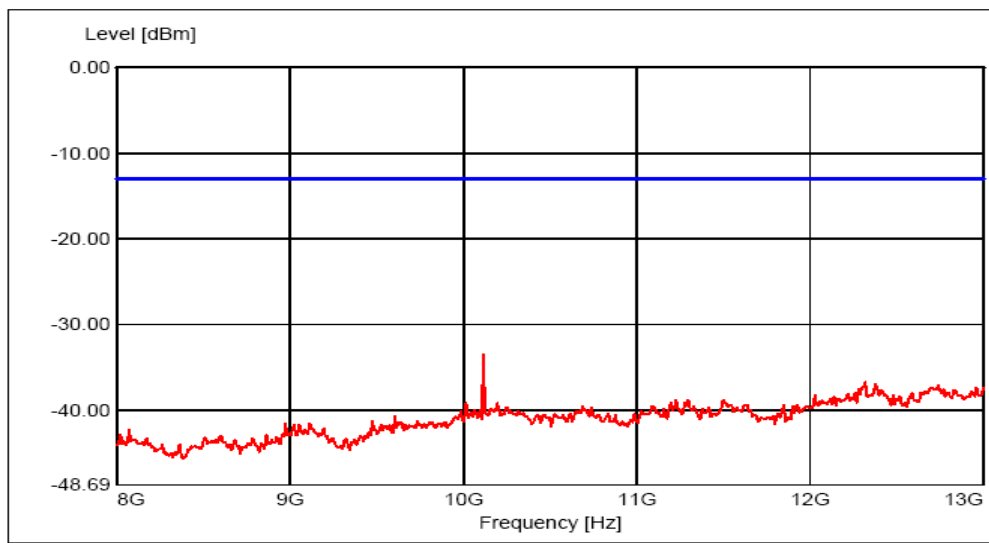
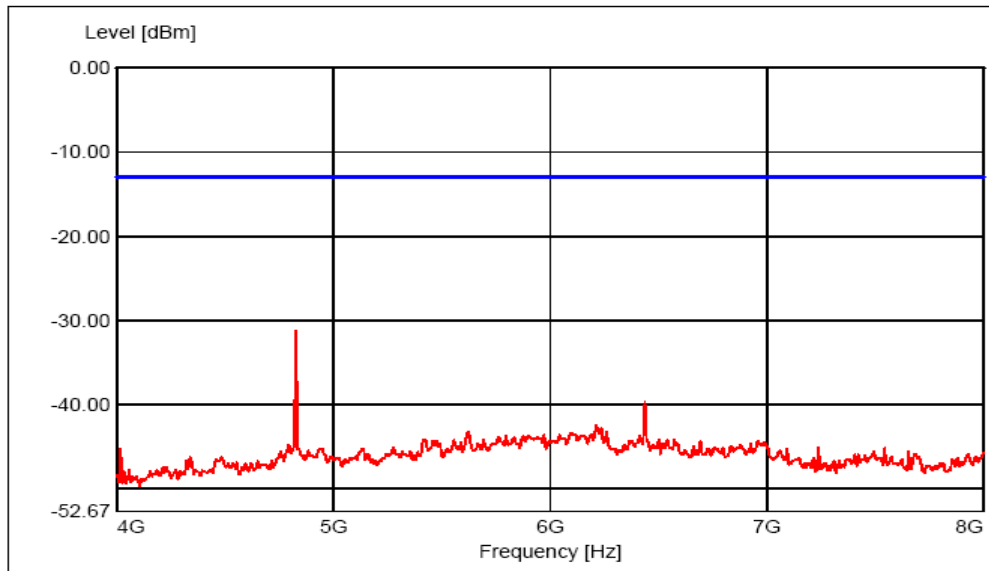
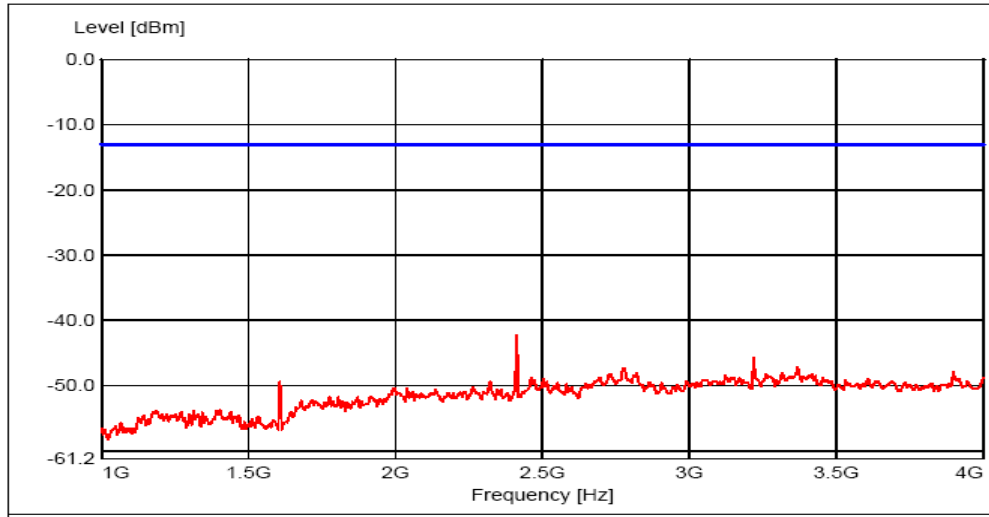
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless Microphone
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (Channel 804.25MHz)

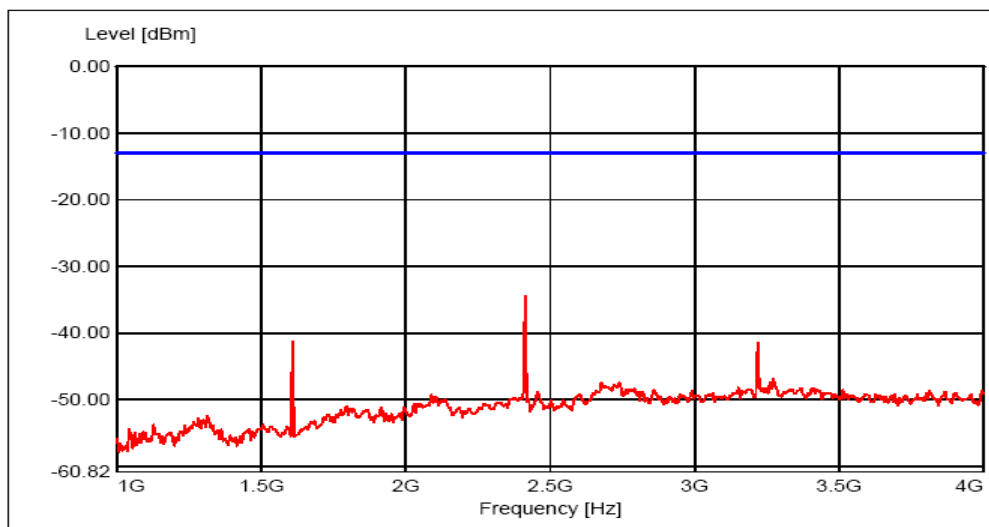
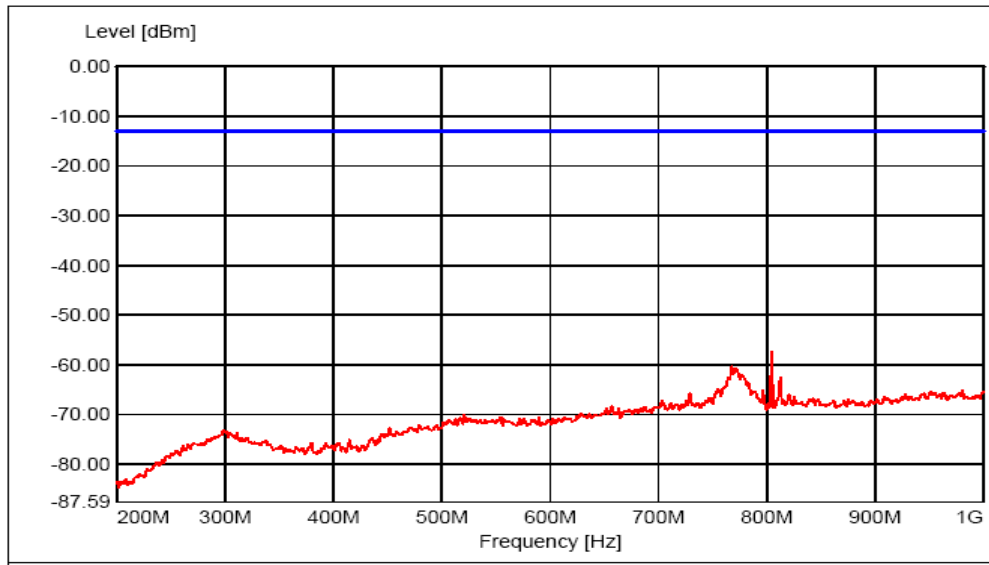
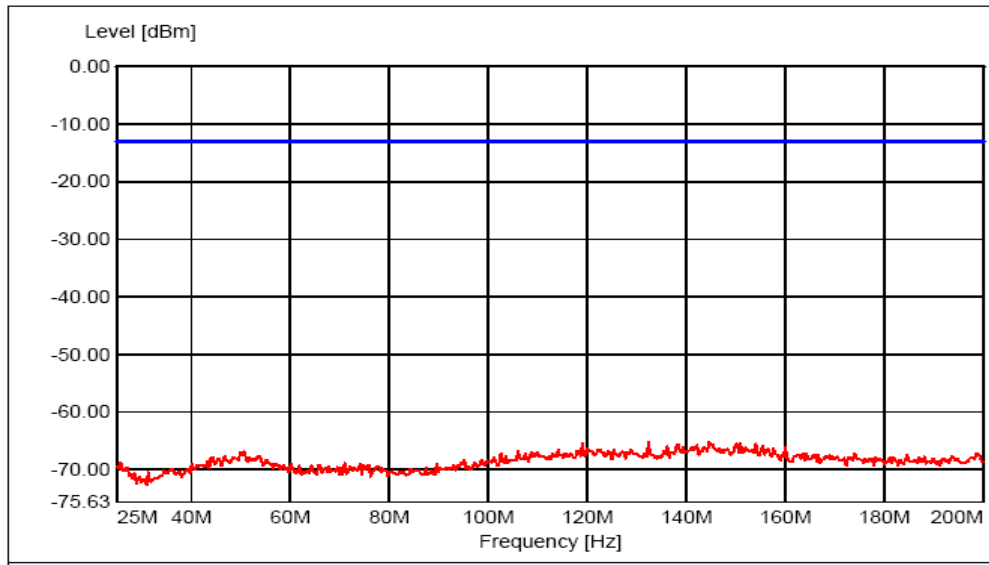
Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBm	dBm	dB	dBm
Horizontal					
2413.4138	2.06	-42.3	-40.24	27.24	-13
4826.1763	4.42	-31.23	-26.81	13.81	-13
Vertical					
804.409643	25.14	-57.44	-32.3	32.3	-13
2413.61422	2.06	-34.44	-32.38	19.38	-13
4826.1775	4.42	-35.14	-30.72	17.72	-13

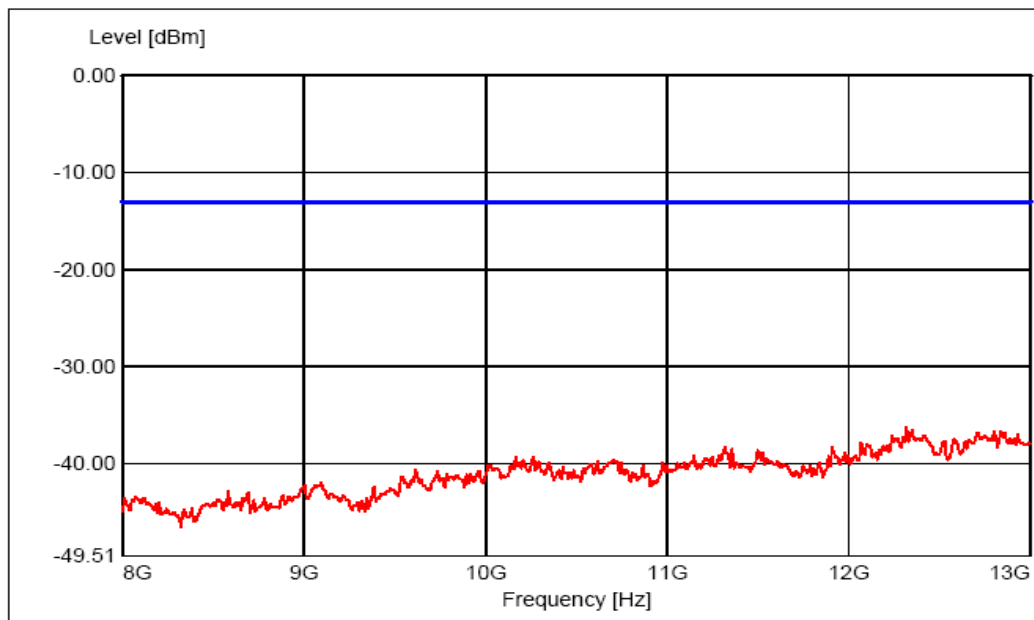
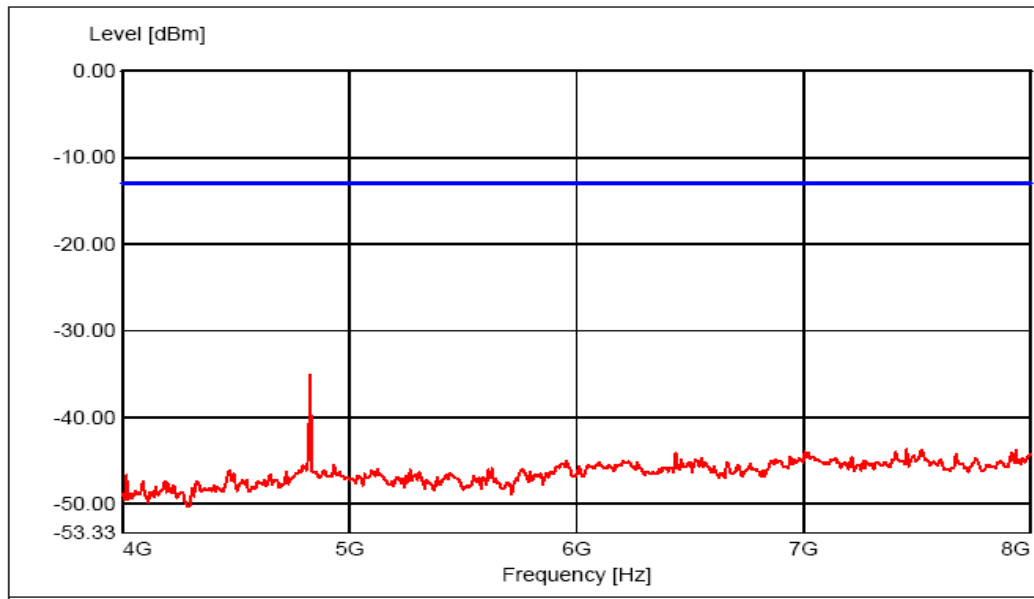
Horizontal polarization (Channel 804.25MHz)





Vertical polarization (Channel 804.25MHz)





Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

5. Emission Masks(Occupied Bandwidth) : FCC 2.1049 (c) ;74.861(e)(6)(i)(ii)

5.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	Oct, 2005
X	Modulation Analyzer	HP	8901A /2751A04974	Oct, 2005
X	Audio Analyzer	R&S	UPL/ 100104	Oct,2005

Note: 1. All equipments upon which need to be calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Procedure

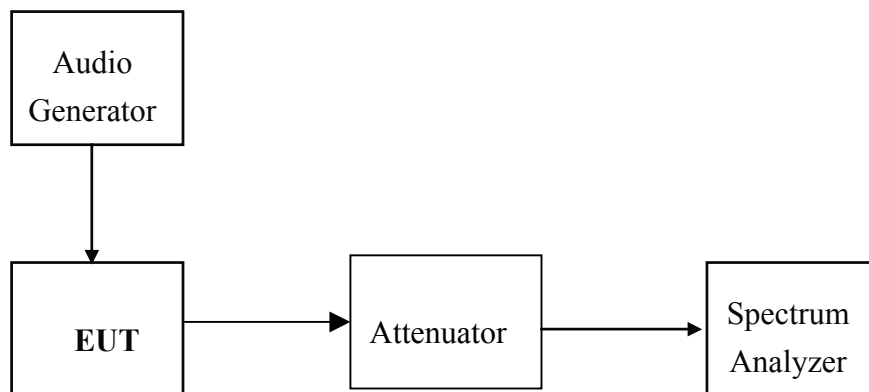
Set the center frequency of the spectrum analyzer to the assigned transmitter frequency.

Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0 dB reference for the measurement.

Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation.

The input level shall be established at the frequency of maximum response of the audio modulating circuit.

The audio signal generator was adjusted to the frequency of 2.5kHz, 10kHz and 18kHz.



5.3. Limit

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;

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;

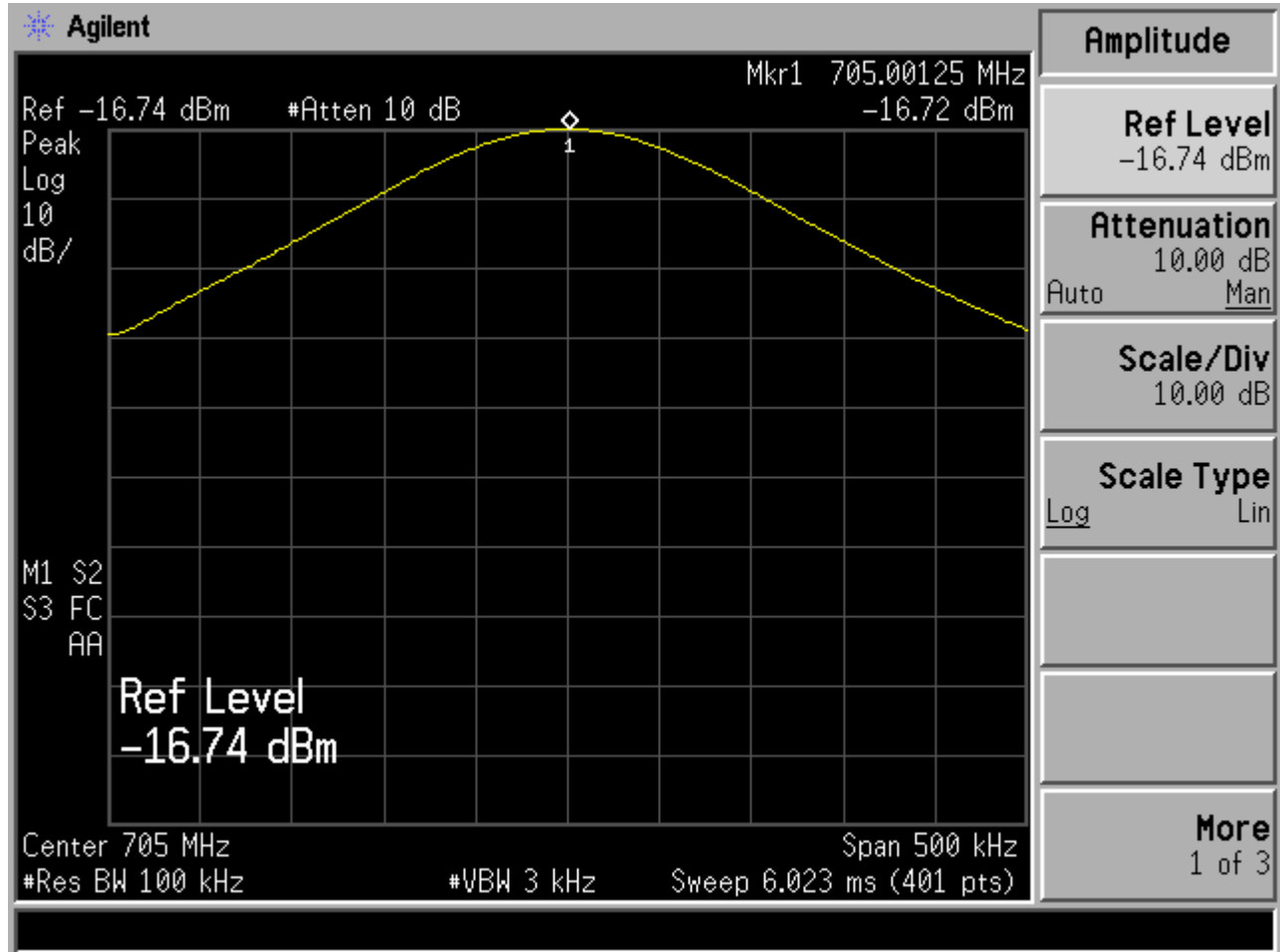
5.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

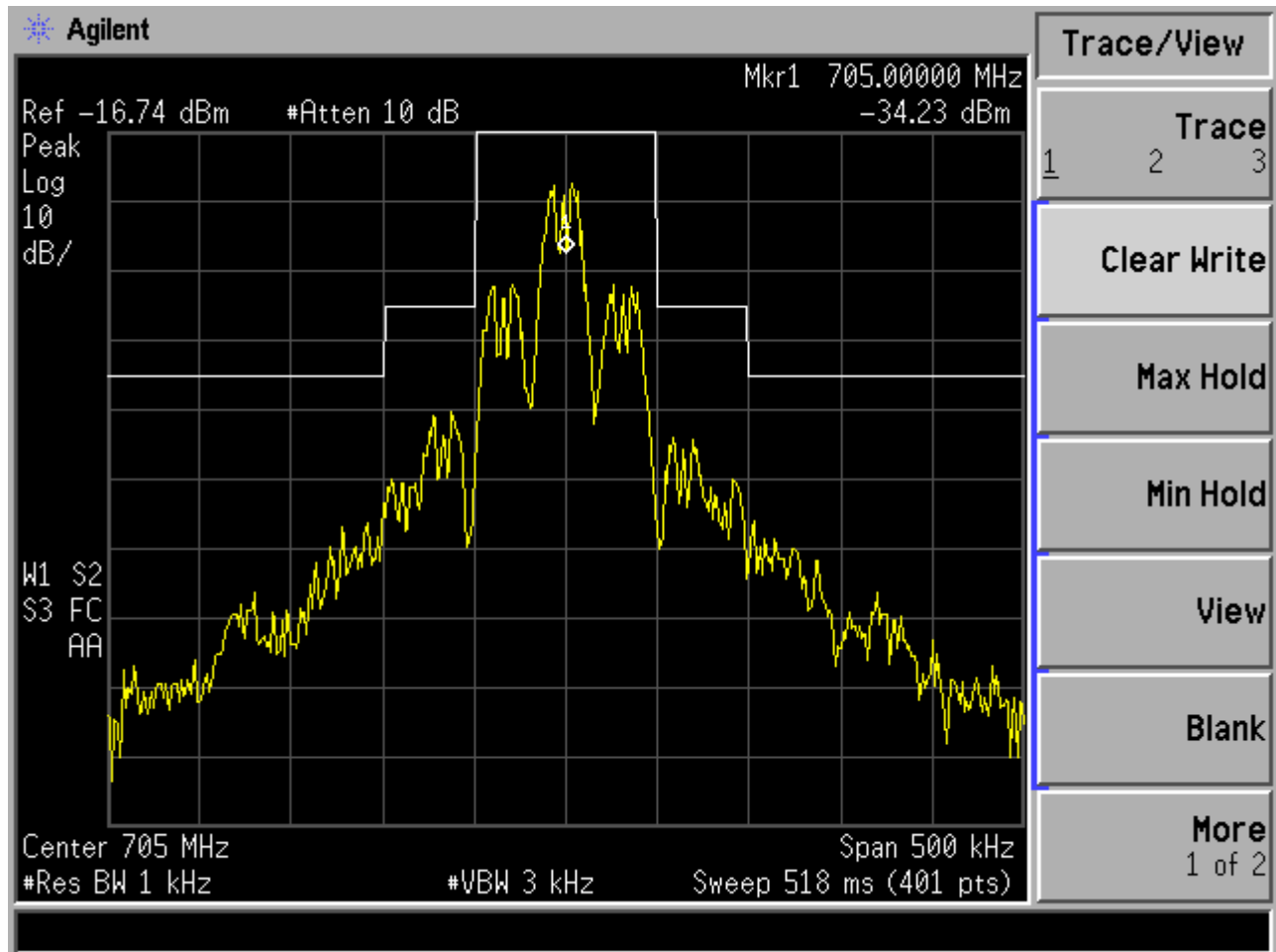
5.5. Test Result of Emission Masks(Occupied Bandwidth)

Product : Wireless Microphone
 Test Item : Occupied Bandwidth
 Test Mode : Mode 1: Transmitter

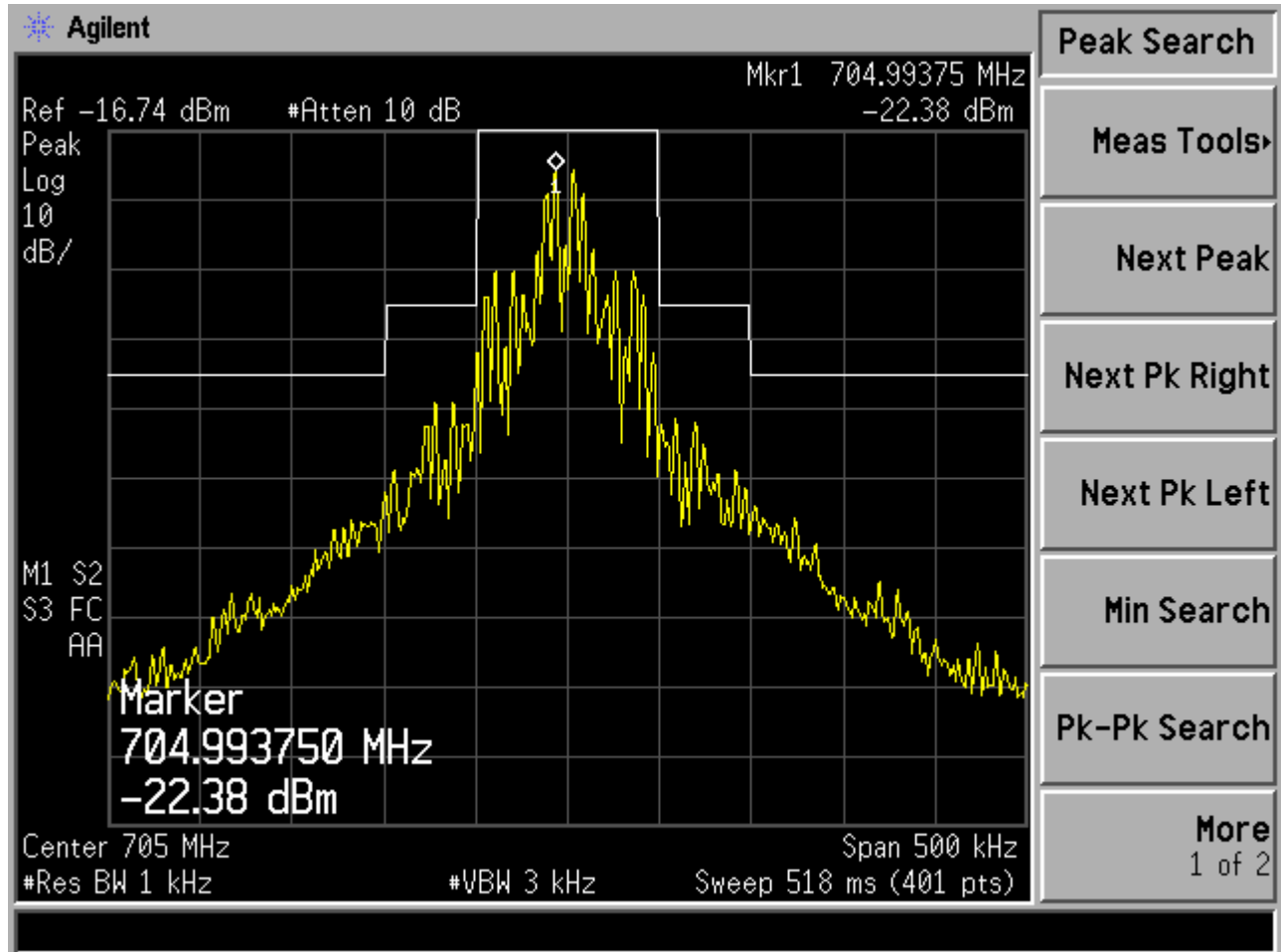
Unmodulated Carrier Frequency:



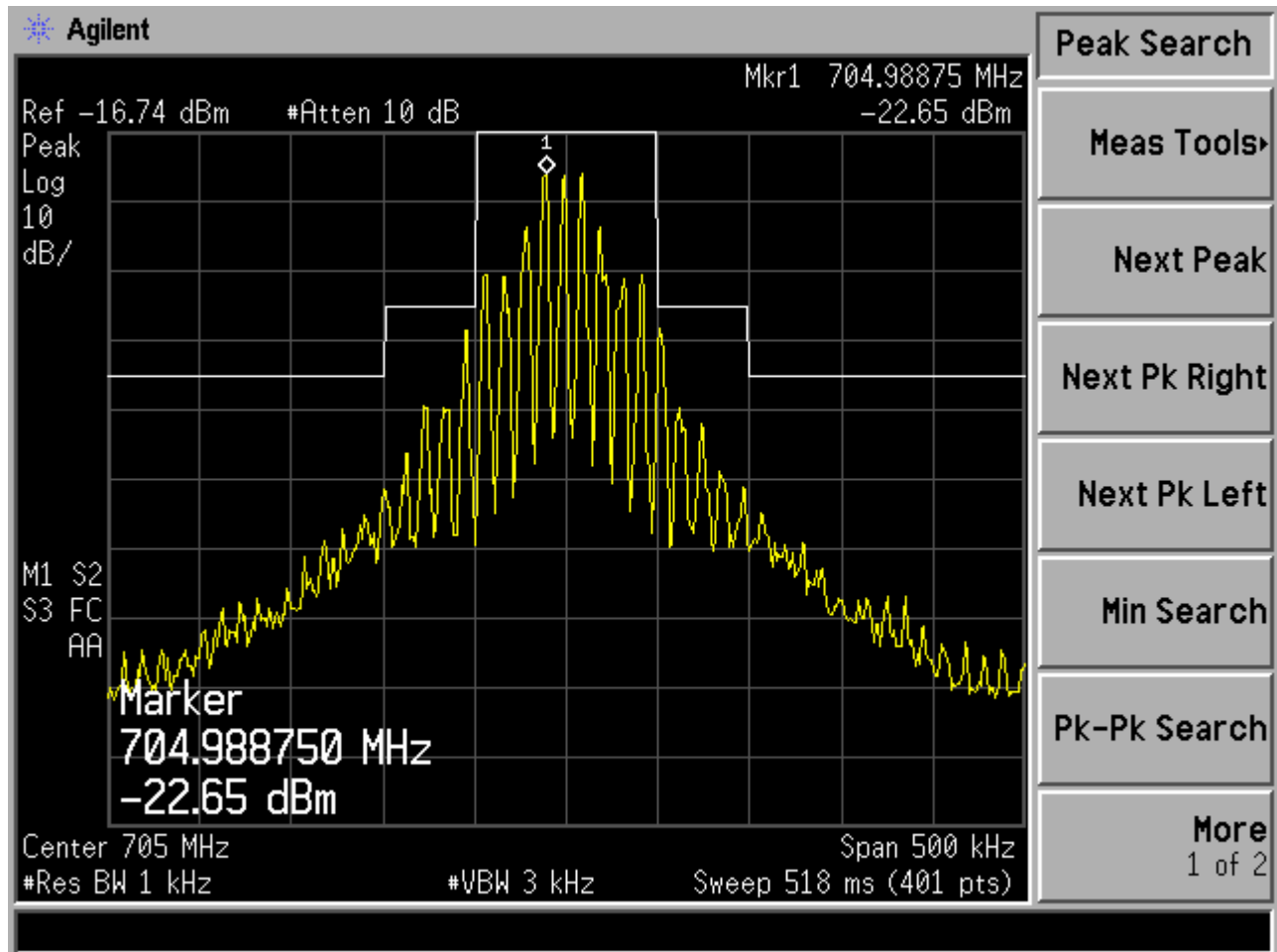
Audio Input Frequency: 2.5KHz



Audio Input Frequency: 10KHz



Audio Input Frequency: 18KHz



6. Frequency Stability vs. Temperature : FCC 2.1055 , 74.861 (e)

6.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Modulation Analyzer	HP	8901A /2751A04974	May, 2005

Note: 1. All equipments upon which need to be calibrated are with calibration period of 1 year.
2. Mark “X” test instruments are used to measure the final test results.

6.2. Test Procedure

The equipment under test was placed in a temperature chamber and connected as for “Frequency Stability vs. Temperature Variation“ test.

After the temperature stabilized the frequency output was recorded from the HP 8901A modulation analyzer.

6.3. Frequency tolerance of the transmitter limit : $\pm 0.005\%$

6.4. Test Result of Frequency Stability vs. Temperature

614.1 MHz

°C	-30	-20	-10	0	10	20	30	40	50
Frequency Error (kHz)	-16	-14	-10	-7	2	6	9	12	17

709.175 MHz

°C	-30	-20	-10	0	10	20	30	40	50
Frequency Error (kHz)	-19	-14	-11	-8	4	8	12	17	20

804.25 MHz

°C	-30	-20	-10	0	10	20	30	40	50
Frequency Error (kHz)	-21	-17	-15	-7	0	4	9	13	19

7. Frequency Stability vs. Voltage : FCC 2.1055 (d) ; 74.861 (e)

7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Modulation Analyzer	HP	8901A /2751A04974	May, 2005

Note: 1. All equipments upon which need to be calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

7.2. Test Procedure

The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.

The output frequency was recorded for each varied voltage.

7.3. Frequency tolerance of the transmitter limit : $\pm 0.005\%$

7.4. Test Result of Frequency Stability vs. Voltage

614.1 MHz

Voltage	85%	100%	115%
Frequency Error (kHz)	7.1	6.2	8.9

709.175 MHz

Voltage	85%	100%	115%
Frequency Error (kHz)	7.6	6.2	8.9

804.25 MHz

Voltage	85%	100%	115%
Frequency Error (kHz)	5.1	4.3	5.8

8. Moduation Limiting : FCC 2.1047 (b) ; 74.861(e)

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

8.1. Test Equipment

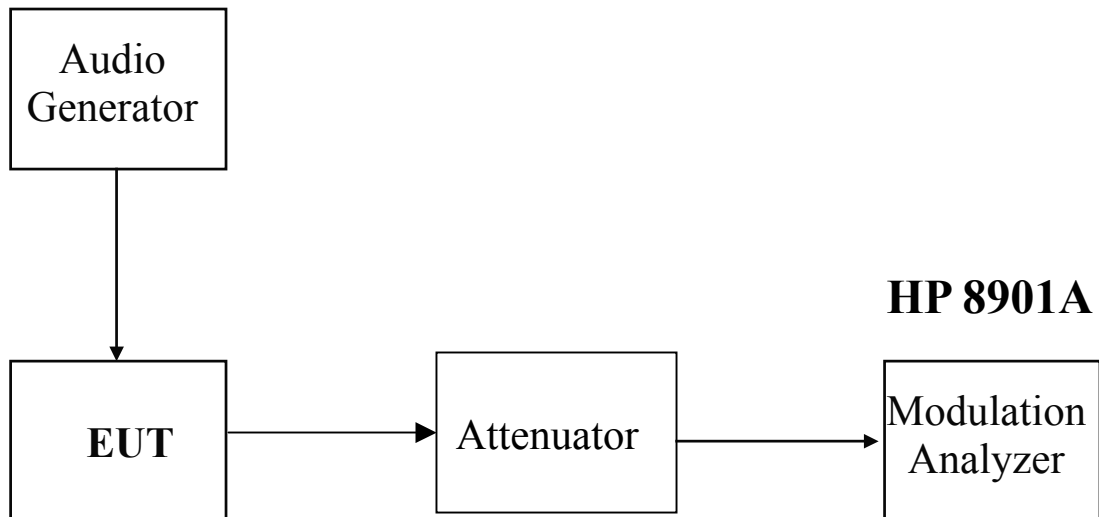
The following test equipments are used during the modulation limiting tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Modulation Analyzer	HP	8901A/1205A01034	Oct, 2005
X Audio Analyzer	R&S	UPL/ 100104	Oct,2005

Note: 1. All equipments upon which need to be calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

8.2. Test Procedure

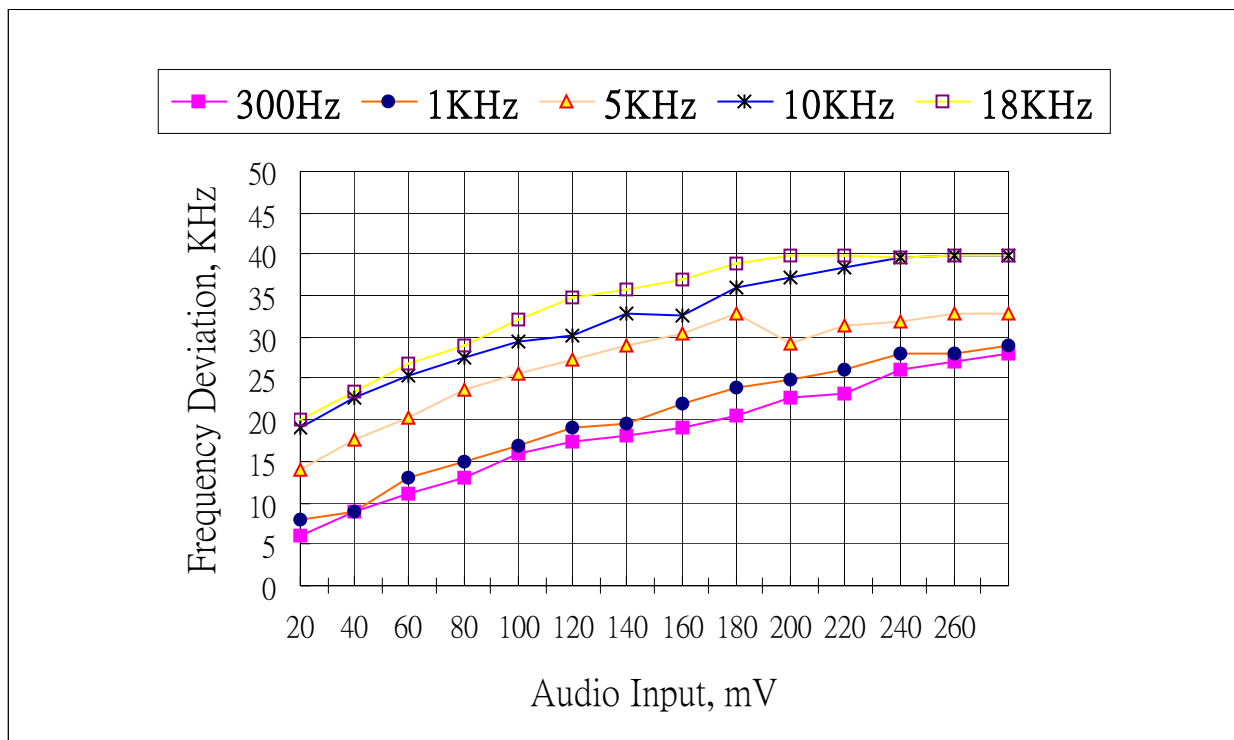
- Audio generator was connected to the microphone of EUT, via an artificial mouth simulator.
- Set the Modulation Analyzer to measure peak positive deviation.
- The modulation response was measured for each of following frequencies: 1kHz, 5kHz, 10kHz and 18kHz.
- Apply a 1000 Hz modulating signal to the transmitter from the audio generator, and adjust the level varied from from 30% modulation to at least 20dB higher than the saturation point.
- Increase the level from the audio generator by 20 dB in one step
- Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.
- With the level from the audio generator held constant at the level obtained in step e), slowly vary the audio frequency from 1KHz to 18KHz and observe the steady-state deviation. Record the maximum deviation.
- Set the modulation analyzer to measure peak negative deviation and repeat steps d) through g).



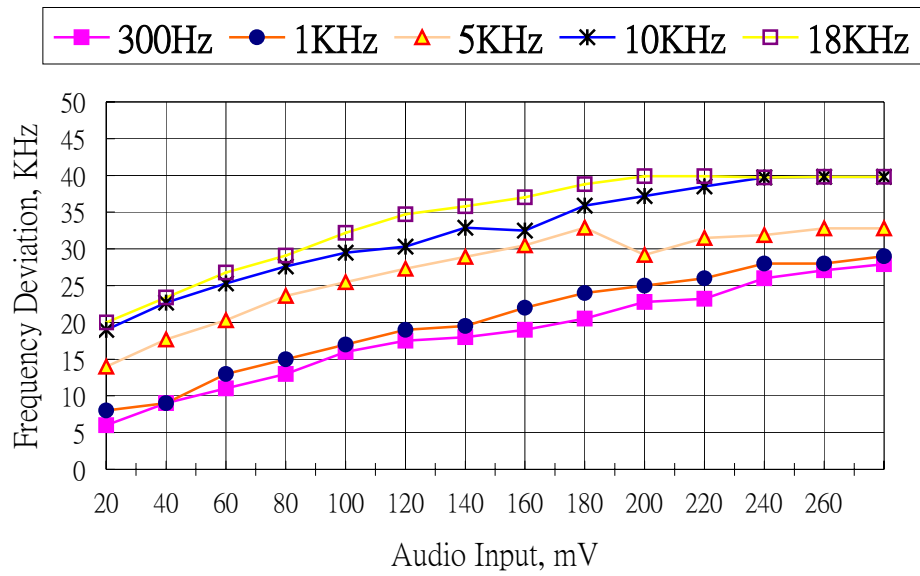
8.3. Limits : ± 75 kHz

8.4. Test Results of Modulation limiting

Positive Peaks :



Negative Peaks :



9. Audio Frequency Response : FCC 2.1047 (a)

The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

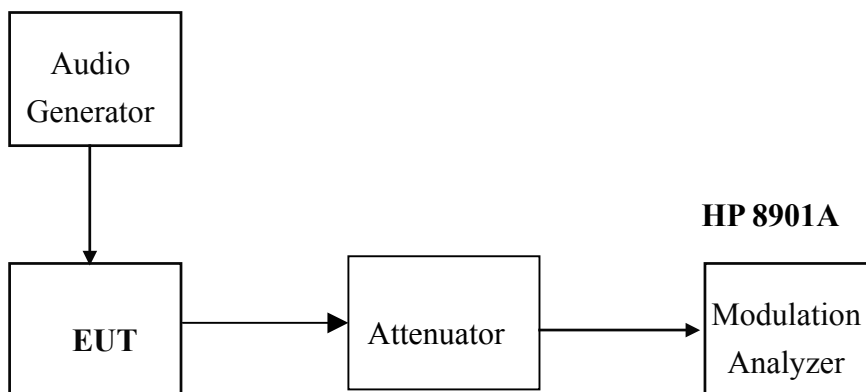
9.1. Test Equipment

The following test equipments are used during the modulation limiting tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Modulation Analyzer	HP	8901A/1205A01034	Oct, 2005
X Audio Analyzer	R&S	UPL/ 100104	Oct,2005

Note: 1. All equipments upon which need to be calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

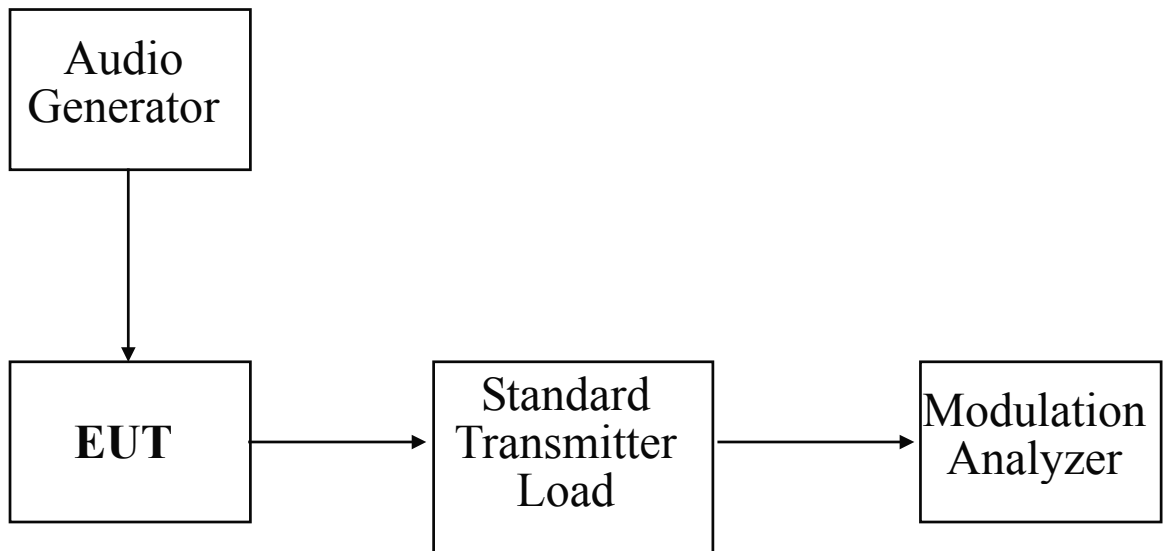
9.2. Test Setup



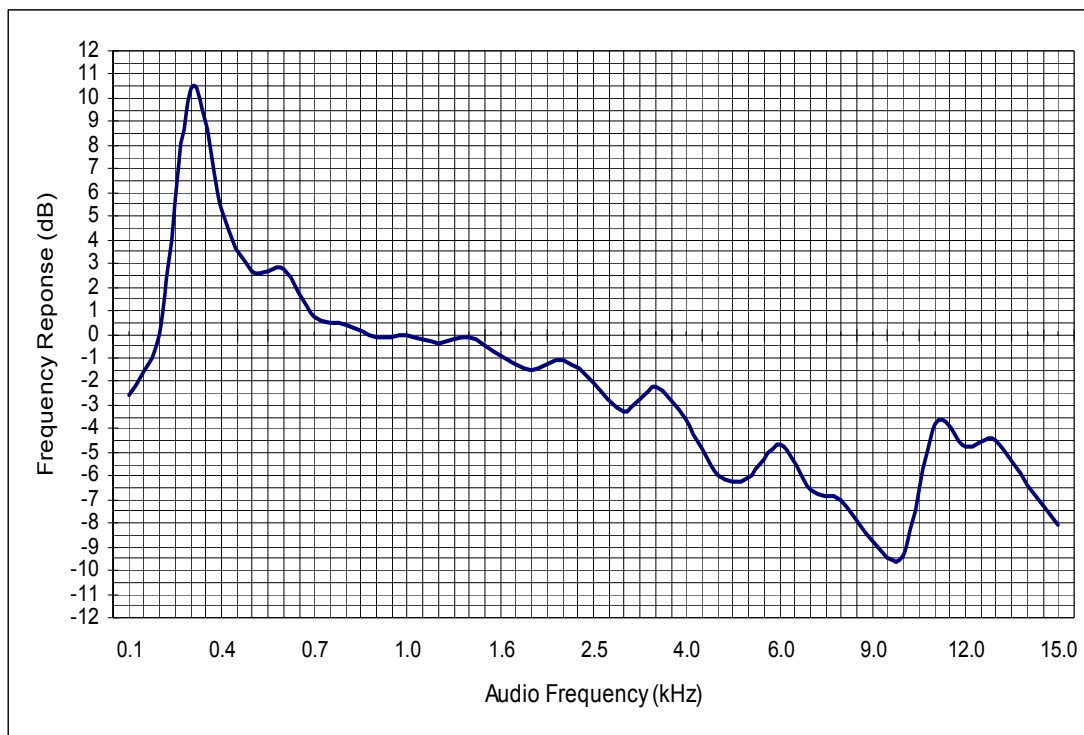
9.3. Test Procedure

- Connect the equipment as belows.
- Set the modulation analyzer to measure peak positive deviation. Set the audio bandwidth for ≤ 50 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- Adjust the transmitter for full rated system deviation.
- Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- Set the modulation analyzer to measure rms deviation and record the deviation reading as DEV_{ref} .

- f) Set the audio generator to the desired test frequency between 50 Hz and 15000 Hz.
- g) Record the modulation analyzer deviation reading as DEV_{Freq} .
- h) Calculate the audio frequency response at the present frequency as:
Audio Frequency Response = $20 \log [DEV_{Freq} / DEV_{ref}]$.



9.4. Test Results of Audio Frequency Response



10. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 1: EUT Test Setup Photographs



Attachment 2: EUT Detailed Photographs

Attachment 2 : EUT Detailed Photographs

(1) EUT Photo



(2) EUT Photo



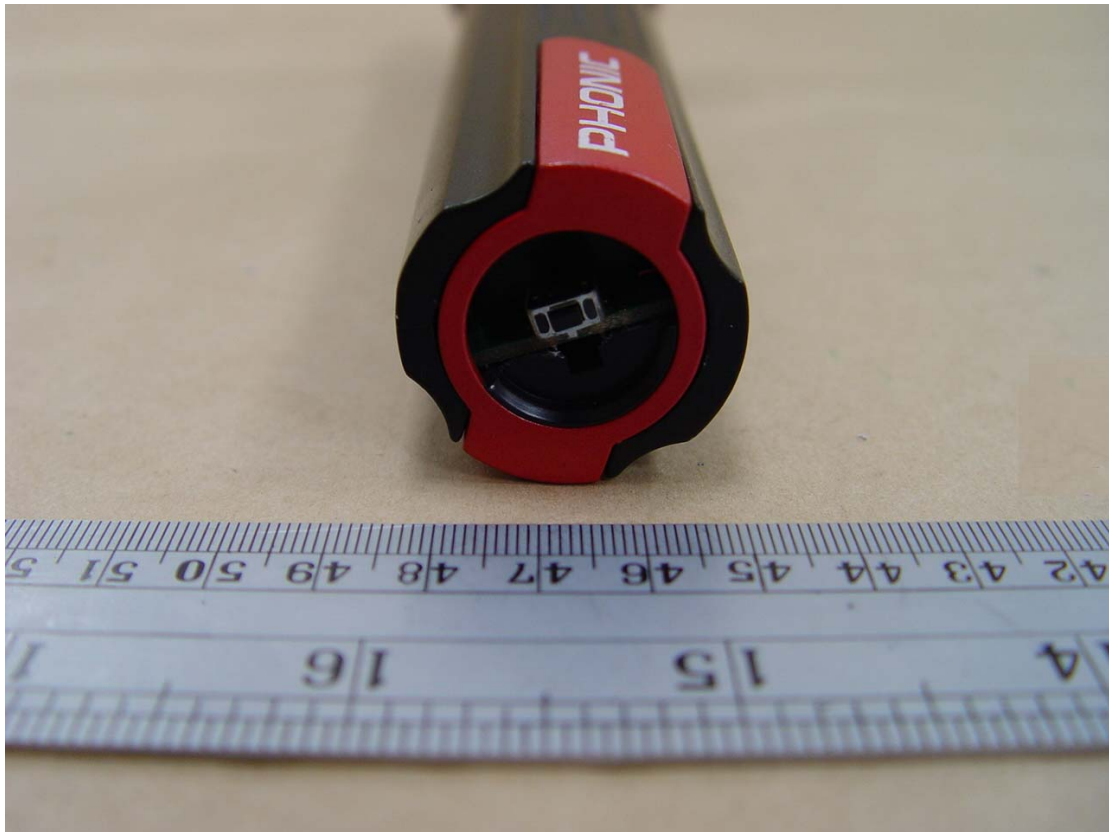
(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



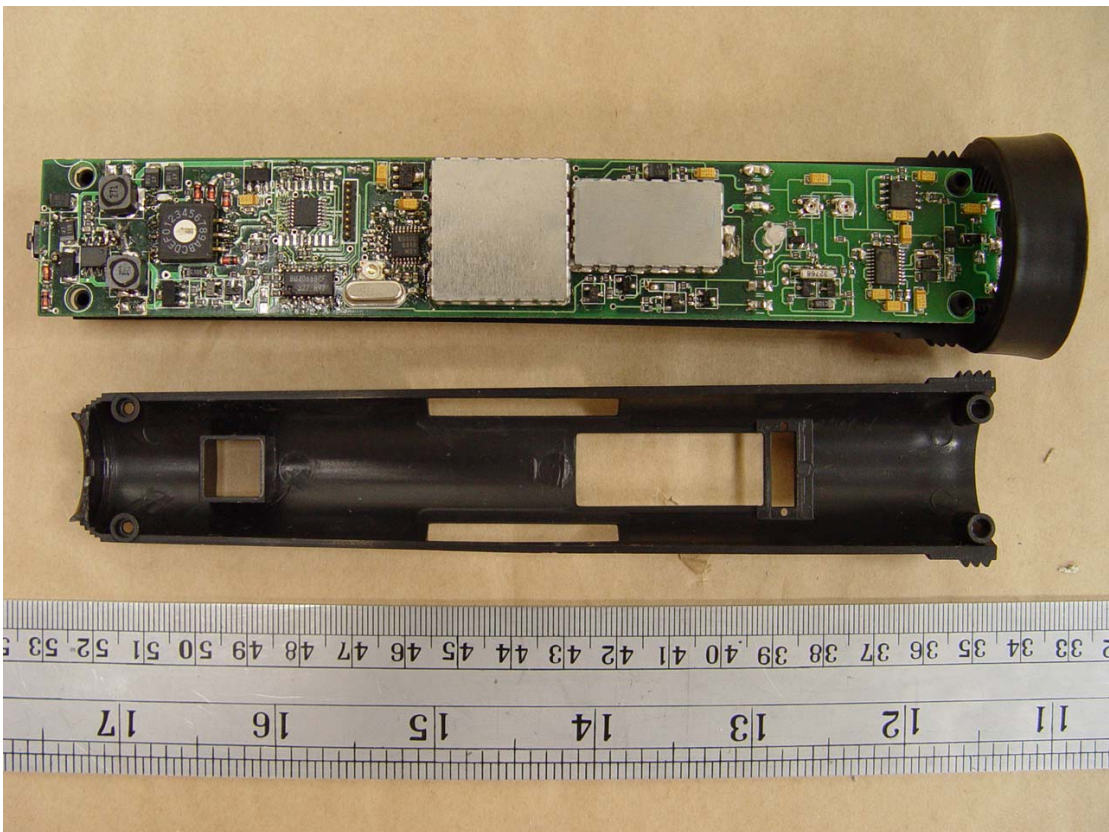
(8) EUT Photo



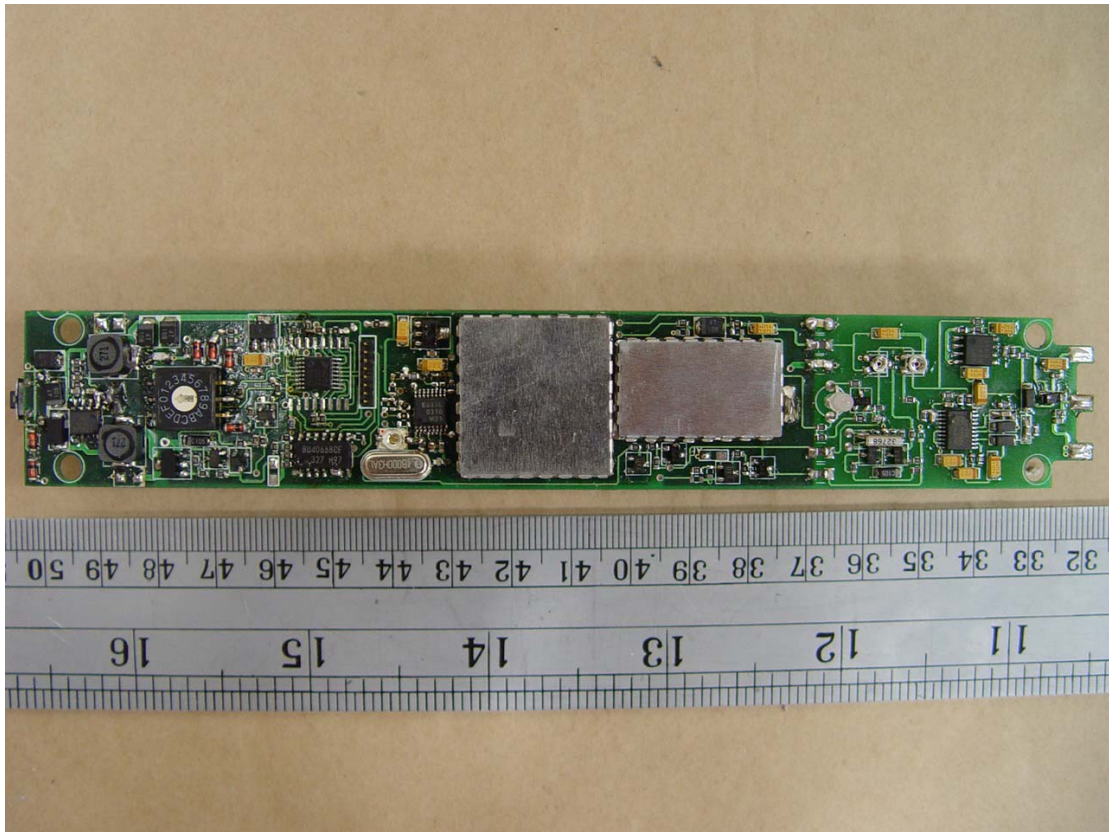
(9) EUT Photo



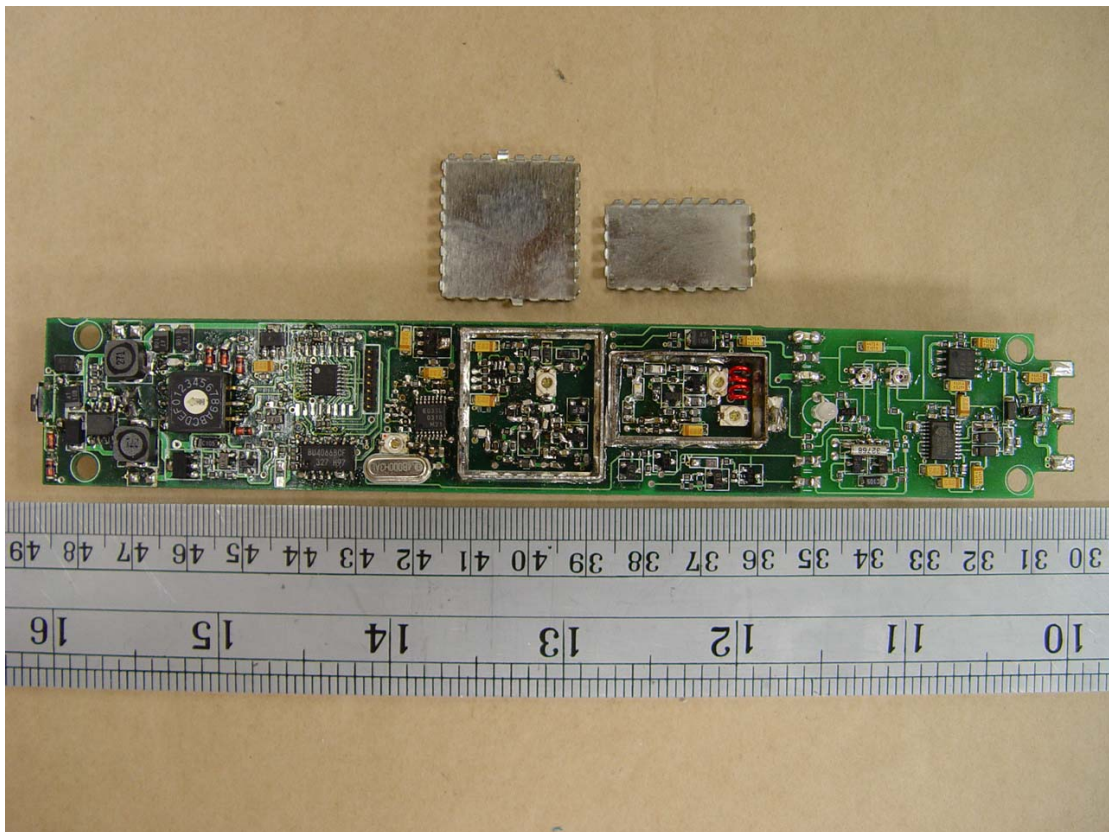
(10) EUT Photo



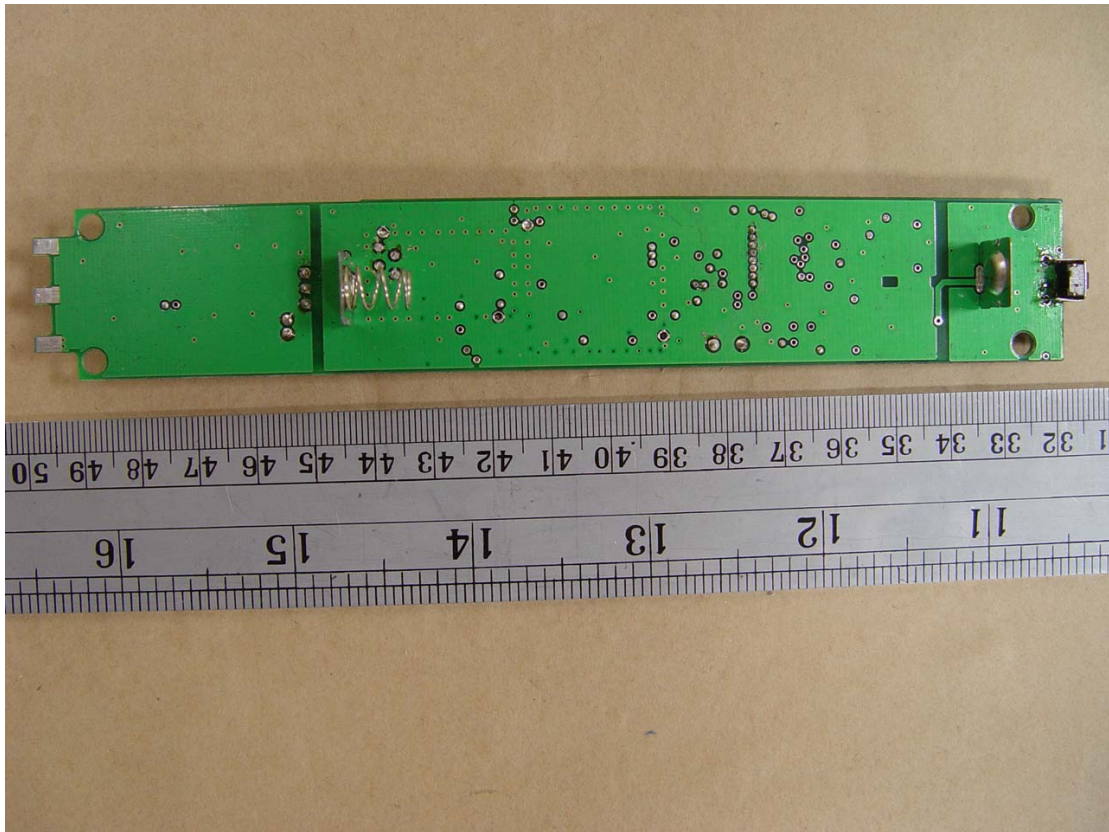
(11) EUT Photo



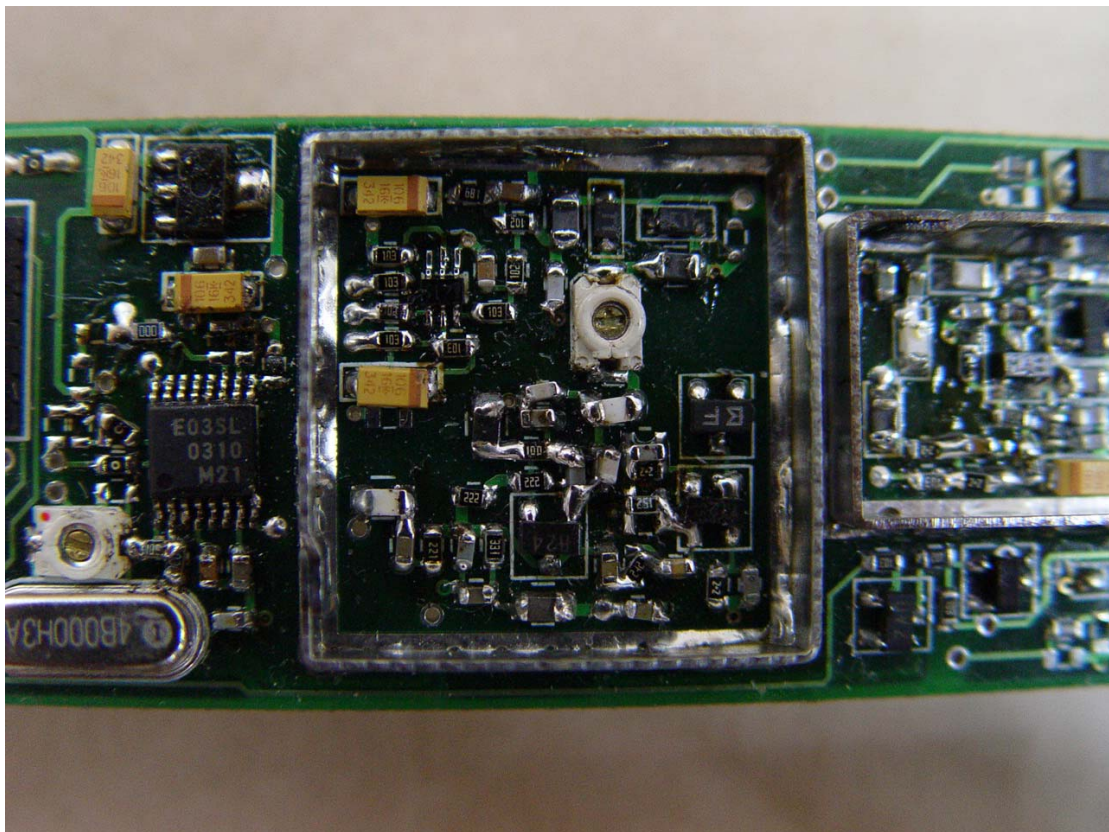
(12) EUT Photo



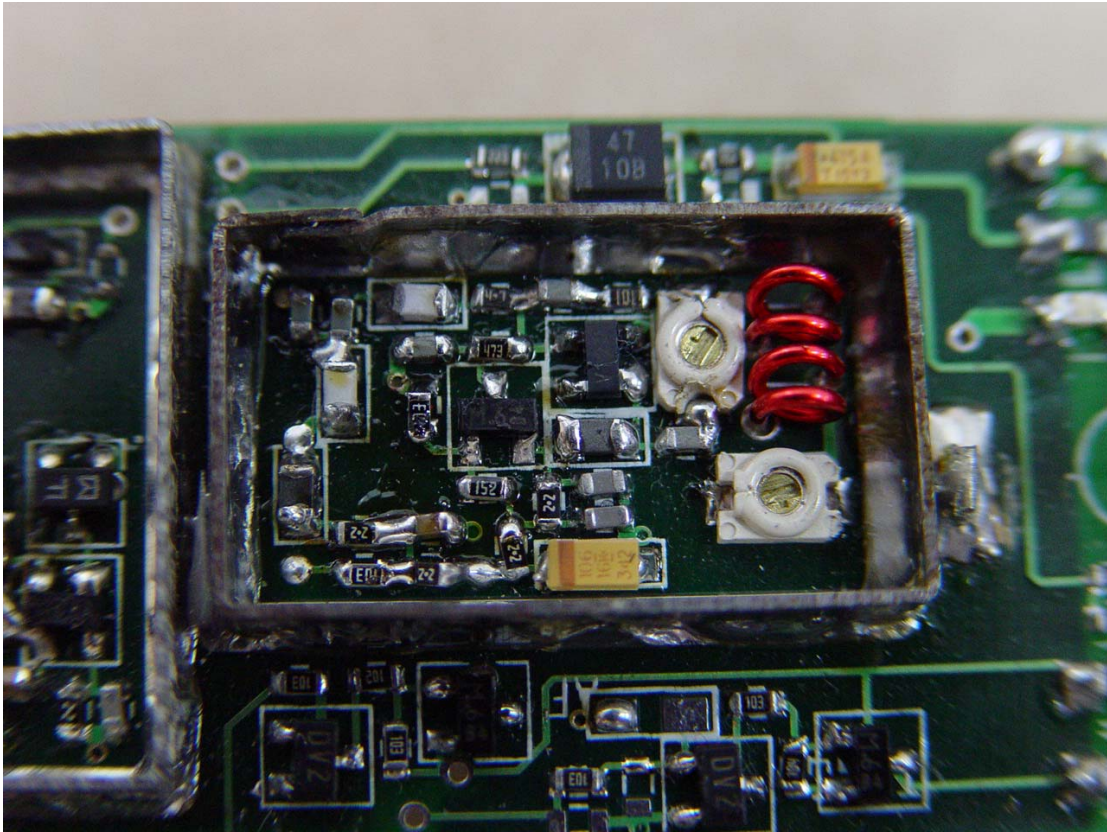
(13) EUT Photo



(14) EUT Photo



(15) EUT Photo



(16) EUT Photo

