

***FCC Part 15 Subpart C***  
***EMI TEST REPORT***

*of*

E.U.T. : Wireless Headphones Transmitter

FCC ID. : Q84RF-031

MODEL : RF-031

Working Frequency : 49.82~49.90 MHz

*for*

APPLICANT : KIWA TECHNOLOGY CO., LTD.

ADDRESS : 6F, No.362-3, Sec. 2, Chung-Shan Rd, Chung-Ho  
City, Taipei Hsien, Taiwan

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN**  
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Report Number: ET92S-05-142-01

# TEST REPORT CERTIFICATION

Applicant : KIWA TECHNOLOGY CO., LTD.  
6F,No.362-3,Sec. 2, Chung-Shan Rd, Chung-Ho City, Taipei Hsien, Taiwan

Manufacturer :KIWA TECHNOLOGY CO., LTD.  
6F,No.362-3,Sec. 2, Chung-Shan Rd, Chung-Ho City, Taipei Hsien, Taiwan

Description of EUT :

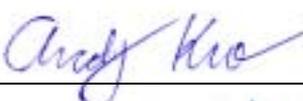
- a) Type of EUT : Wireless Headphones Transmitter
- b) Model No. : RF-031
- c) Trade Name : KIWA
- d) FCC ID : Q84RF-031
- e) Working Frequency : 49.82~49.90 MHz
- f) Power Supply : Adaptor: I/P: 110VAC/ 60Hz,  
O/P: DC 9V/ 0.3A (DV-9300ST)

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (2002)

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

- Note:1.The results of the testing report relate only to the items tested.  
 2.The testing report shall not be reproduced except in full, without the written approval of ETC.  
 3.The report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Issue Date : Jun. 25, 2003

Test Engineer : 

Approve & Authorized Signer : 

Win-Po Tsai, Manager, NVLAP Signatory  
EMC Dept. of ELECTRONICS  
TESTING CENTER, TAIWAN

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## **1. GENERAL INFORMATION**

### **1.1 Product Description**

Transmit the audio signal from audio source such as TV, PC or CD to Wireless Headphone Receiver.

### **1.2 Characteristics of Device:**

Used working frequency from 49.82MHz to 49.90MHz.

### **1.3 Test Methodology**

Radiated testing were performed according to the procedures in chapter 13 of ANSI C63.4. The Wireless Headphones Transmitter under test was operated continuously in its normal operating mode for the purpose of the measurements. In order to secure the continuous operation of the device under test, rewiring in the circuit was done by the manufacturer so as to affect its intended operation.

The receiving antenna was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the Remote Controller Transmitter under test.

### **1.4 Test Facility**

The semi-anechoic chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.

This site has been accreditation as a FCC filing site.

## 2. DEFINITION AND LIMITS

### 2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

### 2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Remark "\*\*\*" : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

## 2.3 Limitation

### (1) Conducted Emission Limits :

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the conducted limit is the following:

Frequency MHz	Quasi Peak dB $\mu$ V	Average dB $\mu$ V
0.15 - 0.5	66-56	56-46
0.5 - 5.0	56	46
5.0 - 30.0	60	50

### (2) Radiated Emission Limits :

According to 15.235 the field strength of emissions from intentional radiators operated under these frequency bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental	
	$\mu$ V/meter	dB $\mu$ V/meter
49.82~49.90	10000	80

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209, as following table:

Other Frequencies (MHz)	Field Strength of Fundamental	
	$\mu$ V/meter	dB $\mu$ V/meter
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

**(3) Antenna Requirement :**

For intentional device, according to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

**(4) Emissions Band Limits :**

According to 15.235(b), the field strength of any emissions appearing between the band edges and up to 10KHz above and below the band edges shall be attenuated at least 26dB below the level of the unmodulated carrier or the general limits in section 15.209, whichever permits the higher emission levels. The field strength of any emission removed by more than 10KHz from the band edges shall not exceed the general radiated emission limits in section 15.209. All signals exceeding 20 $\mu$ V/m at 3m shall be reported in the certification.

**2.4 Labeling Requirement**

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**2.5 User Information**

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

### **3. RADIATED EMISSION MEASUREMENT**

#### **3.1 Applicable Standard**

1. The field strength of any emission within this band shall not exceed 10000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.
2. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.

#### **3.2 Measurement Procedure**

1. Setup the configuration per figure 1 for frequencies measured below 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, it is performed in a semi-anechoic chamber to determine the accurate frequencies of higher emissions.
3. For emission measured below 1GHz,set the spectrum analyzer on a 120kHz resolution bandwidth and 300kHz video bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Record the result.

Figure 1 : Frequencies measured below 1 GHz configuration

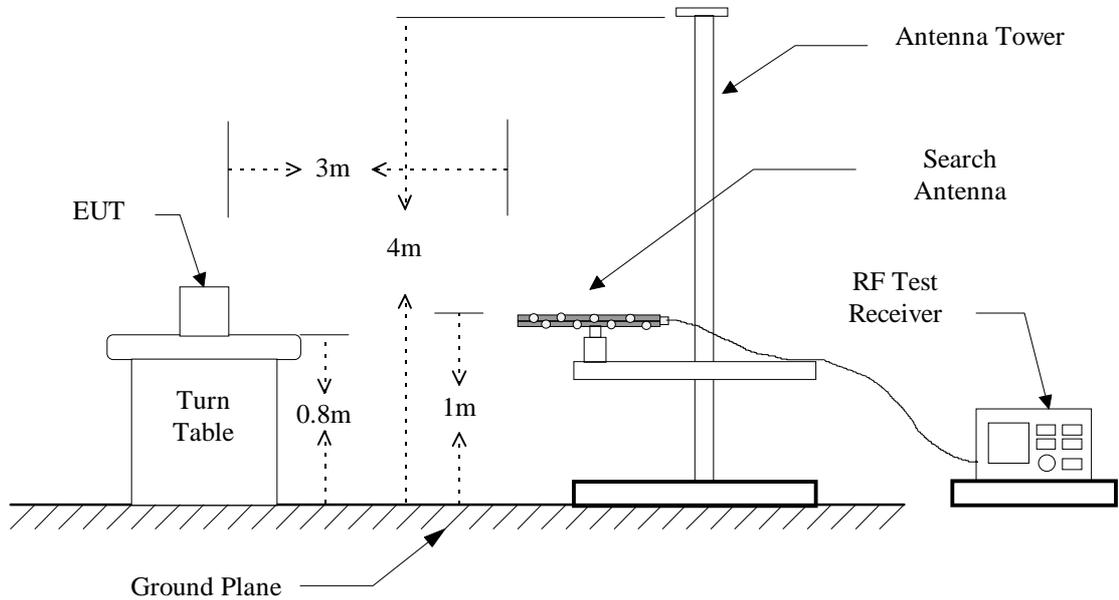
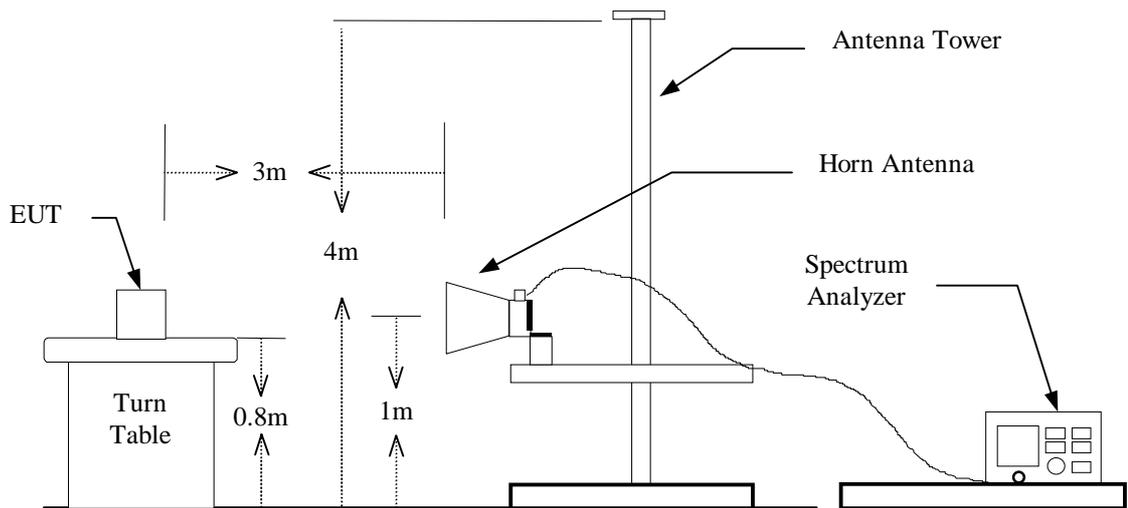


Figure 2 : Frequencies measured above 1 GHz configuration



### 3.3 Test Data

#### 3.3.1 Fundamental and Harmonics Emission

Temperature : 26  
 Humidity : 60%  
 Operated mode : Transmitting  
 Test Date : Jun. 25, 2003

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m) Peak (H/V Max.)		Limit @3m (dBuV/m) Peak.	Margin (dB)	Table Deg. (Deg.)		Ant. High(m)	
	H	V		H	V			H	V	H	V
49.864	39.7#	51.7#	9.5	49.2#	61.2#	80.0	-18.8	170	160	1.8	1.5
99.728	18.0#	24.2#	9.6	27.6#	33.8#	43.5	-9.7	130	140	1.0	1.2
149.592	19.0#	17.2#	12.5	31.5#	29.7#	43.5	-12.0	133	130	1.4	1.0
199.456	18.2#	26.1#	12.3	30.5#	38.4#	43.5	-5.1	156	146	1.2	1.0
249.320	17.4#	15.9#	14.5	31.9#	30.4#	46.0	-14.1	147	170	1.0	1.5
299.840	12.3#	13.6#	16.5	28.8#	30.1#	46.0	-15.9	166	150	1.5	1.7
349.048	18.0#	12.1#	17.5	35.5#	29.6#	46.0	-10.5	180	170	1.7	1.6
398.912	15.7#	13.8#	19.0	34.7#	32.8#	46.0	-11.3	142	134	1.4	1.5
448.776	17.7#	11.9#	20.6	38.3#	32.5#	46.0	-7.7	130	140	1.0	1.0
498.640	12.1#	13.2#	21.3	33.4#	34.5#	46.0	-11.5	133	144	1.0	1.0

**Note:**

- 1."----" means the noise is too low to be measured.
- 2."#" means the peak result was less than limit of AVG, so recorded the peak value, duty cycle was ignored.
3. "\*" means the frequency is in the restricted bands.
4. Peak Result = Peak Reading + Correct Factor
5. AVG Result = Peak Result + Duty Factor
- 6.If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.
7. The EUT is a hand-held product. In order to get the worse data, X, Y, Z direction were adjusted during the data.

## 3.3.2 Other Spurious Emission

Temperature : 15  
 Humidity : 68 %  
 Operated mode : Transmitting  
 Test Date : Jun. 25, 2003

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m) Peak (H/V Max.)		Limit @3m (dBuV/m) Peak.	Margin (dB)	Table Deg. (Deg.)		Ant. High(m)	
	H	V		H	V			H	V	H	V
30.490	14.7#	19.2#	13.9	28.6#	33.1#	40.0	-6.9	210	200	1.0	1.0
62.900	***	30.8#	7.5	***	38.3#	40.0	-1.7	***	15	***	1.0
81.800	***	27.1#	10.1	***	37.2#	40.0	-2.8	***	80	***	1.2
126.900	***	27.3#	9.4	***	36.7#	43.5	-6.8	***	156	***	1.6
234.380	17.3#	25.3#	13.4	30.7#	38.7#	46.0	-7.3	90	89	1.0	1.0
334.300	12.6#	***	17.5	30.1#	***	46.0	-15.9	0	***	1.0	***
481.300	10.2#	***	21.3	31.5#	***	46.0	-14.5	50	***	1.0	***
567.400	10.9#	***	23.7	34.6#	***	46.0	-11.4	77	***	1.2	***
567.800	***	9.2#	23.7	***	32.9#	46.0	-13.1	***	60	***	1.2
633.900	14.2#	11.7#	24.9	39.1#	36.6#	46.0	-6.9	180	176	1.0	1.0
700.400	9.1#	***	26.6	35.7#	***	46.0	-10.3	140	***	1.0	***
733.300	12.2#	12.3#	26.6	38.8#	38.9#	46.0	-7.1	176	140	1.0	1.0

**Note:**

1. "----" means the noise is too low to be measured.
2. "#" means the peak result was less than limit of AVG, so recorded the peak value, duty cycle was ignored.
3. "\*" means the frequency is in the restricted bands.
4. Peak Result = Peak Reading + Correct Factor
5. AVG Result = Peak Result + Duty Factor
6. If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.
7. The EUT is a hand-held product. In order to get the worse data, X, Y, Z direction were adjusted during the data.

### 3.4 Field Strength Calculation

(a) Field Strength:

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{RESULT = READING + CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

Assume a receiver reading of 62.4 dB  $\mu$  V is obtained. The Antenna Factor of 14.1 and a Cable Factor of 3.4 is added. The total of field strength is 79.9 dB  $\mu$  V/m.

$$\mathbf{RESULT = 62.4 + 14.1 + 3.4 = 79.9 \text{ dB } \mu \text{ V/m}}$$

$$\mathbf{\text{Level in } \mu \text{ V/m} = \text{Common Antilogarithm}[(79.9 \text{ dB } \mu \text{ V/m})/20] = 9885.5 \mu \text{ V/m}}$$

### 3.5 Radiated Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	Hewlett-Packard	8546A	13054404-001	Jun. 18, 2003
LogBicone Antenna	Schwarzbeck	VULB9160	13057310-001	Oct. 28, 2003

### 3.6 Measuring Instrument Setup

Explanation of measuring instrument setup in frequency band measured is as following :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	EMI Test Receiver	Quasi Peak	120 kHz	300 kHz
	EMI Test Receiver	Peak	120 kHz	300 kHz

**3.7 Radiated Measurement Photos**



## **4. BAND EDGE OF EMISSION**

### **4.1 Standard Applicable**

The field strength of any emission appearing between the band edges and up to 10kHz above and below the band edges shall be attenuated at least 26dB below the level of the unmodulated carrier or the general limits in section 15.209.

### **4.2 Measurement Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 1 and measurement the turn on the EUT. Then have the EUT activating in normal operation and make sure the instrument is operated in its linear range.
3. Adjust the measurement frequency range to contain the signal radiated from the Eut. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.

### 4.3 Test data

Temperature : 26  
 Humidity : 60%  
 Operated mode : Transmitting  
 Test Date : Jun. 25, 2003

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m) Peak (H/V Max.)		Limit @3m (dBuV/m) Peak.	Margin (dB)	Table Deg. (Deg.)		Ant. High(m)	
	H	V		H	V			H	V	H	V
49.820	0.1	6.4	9.5	9.6	15.9	40.0	-24.1	175	166	1.7	1.4
49.900	3.7	10.8	9.5	13.2	20.3	40.0	-19.7	189	171	1.6	1.5

**Note:**

1. "----" means the noise is too low to be measured.
2. "#" means the peak result was less than limit of AVG, so recorded the peak value, duty cycle was ignored.
3. "\*" means the frequency is in the restricted bands.
4. Peak Result = Peak Reading + Correct Factor
5. AVG Result = Peak Result + Duty Factor
6. If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.
7. The EUT is a hand-held product. In order to get the worse data, X, Y, Z direction were adjusted during the data.

### 4.4 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
EMI Test Receiver	Hewlett-Packard	8564EC	07/27/2003
Plotter	Hewlett-Packard	7550A	N/A

## 5 CONDUCTED EMISSION MEASUREMENT

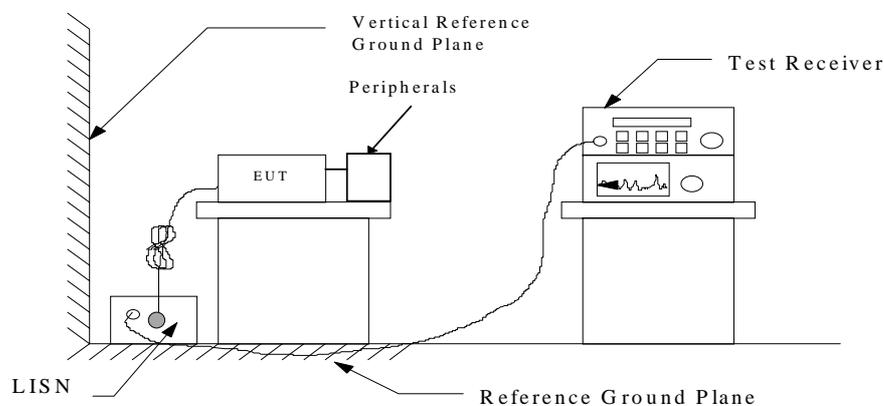
### 5.1 Applicable Standard

For unintentional digital devices, Line Conducted Emission Limits are in accordance to § 15.107(a) . And according to § 15.107(e), an alternative to the conducted limits is CISPR 22.

### 5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 4 to 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



**5.3 Conducted Emission Data**

Temperature : 24  
 Humidity : 65 %  
 Test Date : May 26, 2003  
 Operation Mode : Receiving

Freq. (MHz)	Meter Reading (dBuV)				Factor (dB)	Result (dBuV)				Limit (dBuV)		Margins (dB)
	Q.P Value		AVG. Value			Q.P Value		AVG. Value		Q.P Value	AVG. Value	
	L1	L2	L1	L2		L1	L2	L1	L2			
0.170	----	11.5	----	----	0.1	----	11.6	----	----	65.0	55.0	-53.4
0.201	----	11.7	----	----	0.1	----	11.8	----	----	63.6	53.6	-51.8
0.205	10.4	----	----	----	0.1	10.5	----	----	----	63.4	53.4	-52.9
0.939	----	16.2	----	----	0.1	----	16.3	----	----	56.0	46.0	-39.7
1.207	18.0	----	----	----	0.2	18.2	----	----	----	56.0	46.0	-37.8
2.277	----	21.5	----	----	0.2	----	21.7	----	----	56.0	46.0	-34.3
2.414	20.9	----	----	----	0.2	21.1	----	----	----	56.0	46.0	-34.9
2.480	----	22.1	----	----	0.2	----	22.3	----	----	56.0	46.0	-33.7
15.348	----	30.5	----	----	0.4	----	30.9	----	----	60.0	50.0	-29.1
15.484	30.4	----	----	----	0.4	30.8	----	----	----	60.0	50.0	-29.2
15.820	31.4	----	----	----	0.4	31.8	----	----	----	60.0	50.0	-28.2
16.098	32.2	----	----	----	0.4	32.6	----	----	----	60.0	50.0	-27.4
16.211	----	31.4	----	----	0.4	----	31.8	----	----	60.0	50.0	-28.2

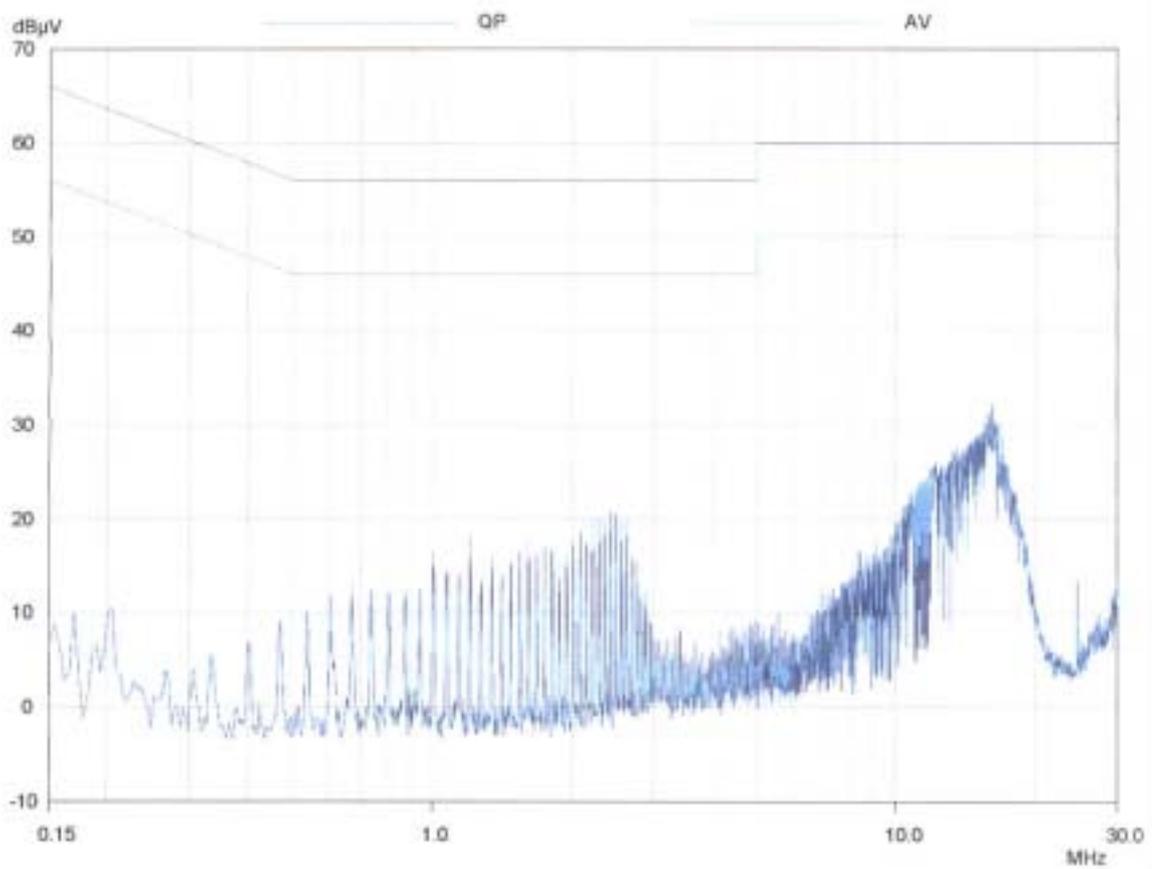
**Note:**

1. The full frequency range scanning test data is shown in next two pages.
2. “\*\*\*” means the value was too low to be measured.
3. If the data table appeared symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
4. The estimated measurement uncertainty of the result measurement is  $\pm 3$ dB.

### Conduction Emission Test Peak Value

EUT: WIRELESS HEADPHONE  
Manuf: RF-031  
Op Cond: Transmitting  
Operator: An.  
Test Spec: FCC PART 15  
Comment: L1

Prescan Measurement:      Detector: X PK  
                                 Meas Time: see scan settings  
                                 Peaks: B  
                                 Acc Margin: 30 dB

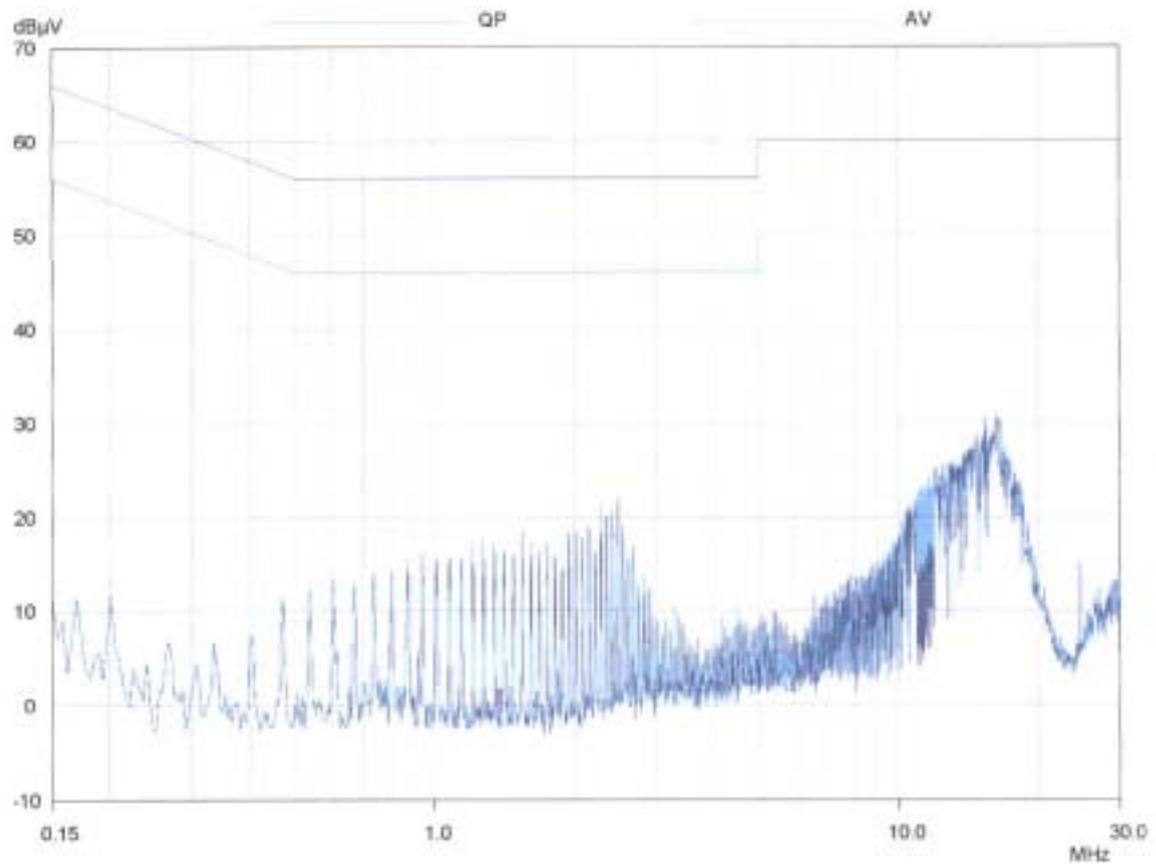


### Conduction Emission Test

#### Peak Value

EUT: WIRELESS HEADPHONE  
Manuf: RF-031  
Op Cond: Transmitting  
Operator: An.  
Test Spec: FCC PART 15  
Comment: L2

Prescan Measurement:      Detector: X PK  
                                 Meas Time: see scan settings  
                                 Peaks: 8  
                                 Acc Margin: 30 dB



## 5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{RESULT = READING + LISN FACTOR}$$

Assume a receiver reading of 22.5 dB  $\mu$  V is obtained, and LISN Factor is 0.1 dB, then the total of field strength is 22.6 dB  $\mu$  V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \mu \text{ V} \end{aligned}$$

## 5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	R&S	ESCS30	13054409-001	Sep. 23, 2003
LISN	EMCO	3825	13057704-001	Nov. 02, 2003

Note: The standards used to perform this calibration are traceable to NML/ROC and NIST/USA.

**5.6 Photos of Conduction Measuring Setup**



## **6 ANTENNA REQUIREMENT**

### **6.1 Standard Applicable**

For intentional device, according to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **6.2 Antenna Construction**

The Antenna was fixed on the EUT.