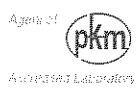




國際電器認證中心有限公司 International Electrical Certification Centre Ltd.

提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing, International Certification & Information



Agent of pkm



Network Partner



Nemko
Qualified Independent Laboratory

F C C -

TEST REPORT

REPORT NO.: 50544-1

Address 地址: Units 602-605, 6/F., 31 Lok Yip Rd , On Lok Tsuen, Fanling, N.T., Hong Kong.
香港新界粉嶺安樂村樂榮路31號6樓602-605室
China 中國: IECC (Guangzhou) Services Co., Ltd 廣州時並進技術服務有限公司
Address 地址: Flat A, 2/F., Block 3, 56 Shuiyin Road, Guangzhou, P.R. of China
廣州市水蔭路56號3樓2A室

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FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 2 of 15

FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of
ANSI C63.4 - 2003

Product : Wireless Headphone

Product Class : Low Power Communication
Device Transmitter

Brand Name : -

Model : CEW100

Applicant : FORMATION LTD.

FCC ID No. : UU7CEW100

FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 3 of 15

TABLE OF CONTENTS

1. Cover sheet
2. Introduction
3. Table of Contents
4. Laboratory Report
5. Test Location and Summary of Test Results
6. Test Equipment List
7. Radiated Emission Test Setup
8. Conducted Emission Test Setup
9. Test Procedure
10. Test Results
- 11-14. Measurement Data
15. Photo of sample

FCC – Test Report

Date: 2008-08-18

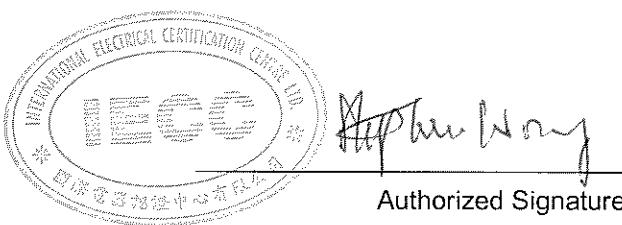
No. 50544-1

Page 4 of 15

LABORATORY - REPORT

APPLICANT: FORMATION LTD.**ADDRESS:** Rm 915-918, 9/F., Corporation Square
8 Lam Lok Street
Kowloon Bay, Kowloon
Hong Kong**DATE OF SAMPLE RECEIVED:** 2008-07-10**DATE OF TESTING:** 2008-08-13 to 2008-08-15**DESCRIPTION OF SAMPLE:**

Product: Wireless Headphone
Product class: Low Power Communication Device Transmitter
Model number: CEW100
FCC ID number: UU7CEW100
Rating: AC/DC Adaptor, Input : AC120V, 60Hz; Output : DC6V, or
DC6V (AAA Size Battery x 4)

CONDITION OF TEST SAMPLE: The received sample was under good condition.**INVESTIGATIONS REQUESTED:** Measurements to the relevant clauses of F.C.C. Rules and Regulations
Part 15 Subpart C - Intentional Radiators.**RESULTS:** See the attached sheets.**CONCLUSIONS:** From the measurement data obtained, the tested sample was
considered to have COMPLIED with the requirements for the relevant
clauses of Federal Communications Commission Rules as specified
above.

Authorized Signature

FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 5 of 15

Test Location

International Electrical Certification Centre Ltd.
Unit 602-605, 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong
Tel : +852 23052570
Fax : +852 27564480
Email : info@iecc.com.hk

Summary of Test Results

Radiated Emission:

Test result: O.K.
Test data: See attached data sheet

Conducted Emission:

Test result: O.K.
Test data: See attached data sheet

Measurement of Emissions within Band Edges

Test result: O.K.
Test data: See attached data sheet



Authorized Laboratory



Network Partner



Qualified Independent Laboratory

FCC – Test ReportDate: 2008-08-18**No. 50544-1**

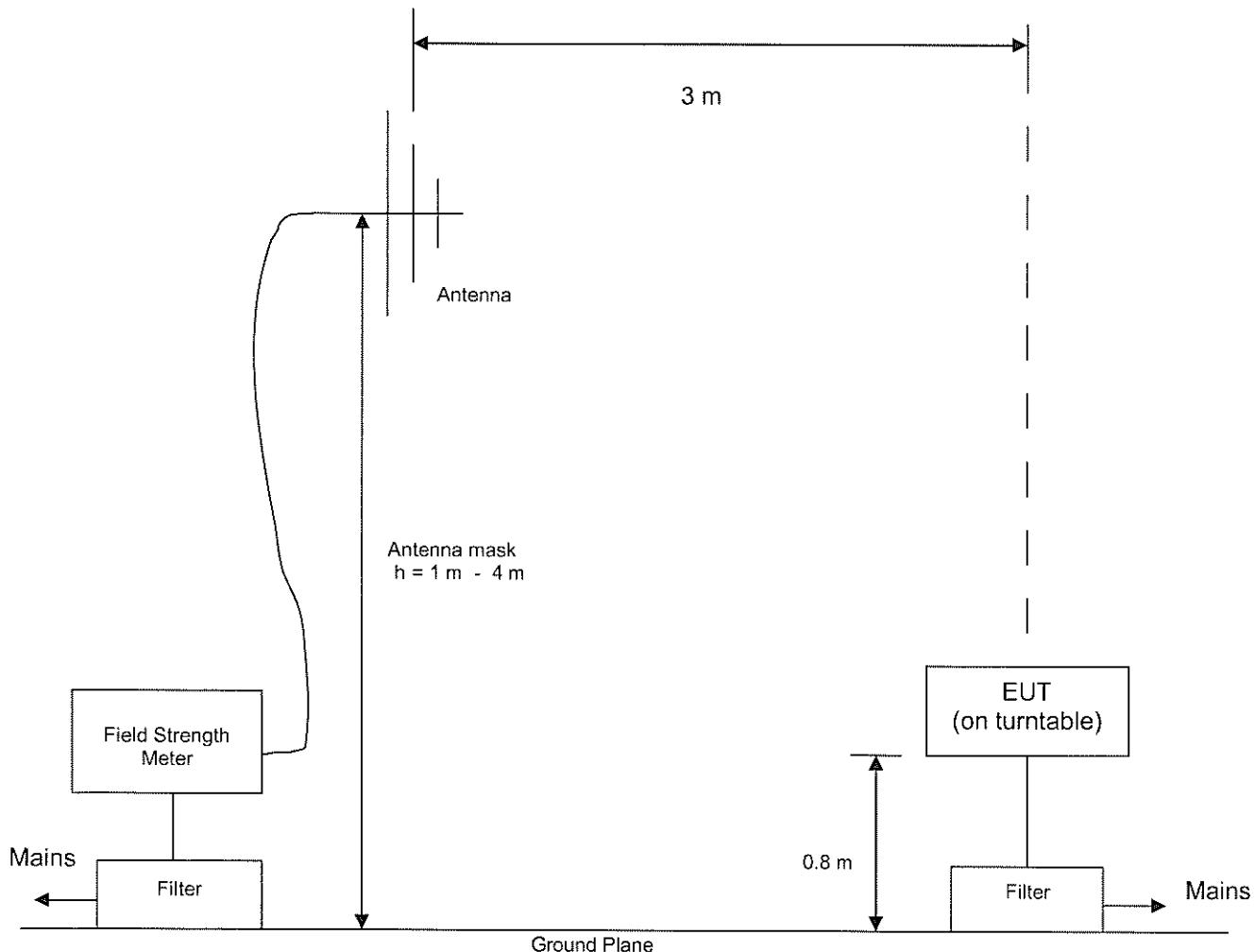
Page 6 of 15

TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Date
Test Receiver	Rohde & Schwarz	ESVS 30	828525/006	30/11/2007	29/11/2008
Test Receiver	Rohde & Schwarz	ESHS 30	839667/002	22/10/2007	21/10/2008
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	8127312	02/11/2007	01/11/2008
Antenna	Schaffner	CBL6111C	2791	22/07/2008	21/07/2010
Antenna Mast System	Schwarzbeck	AM9104	--	--	--
Turntable with Controller	Drehtisch	DT312	--	--	--
Spectrum Analyzer with Q. Peak	Advantest	R3132	140101852	03/06/2008	02/06/2009

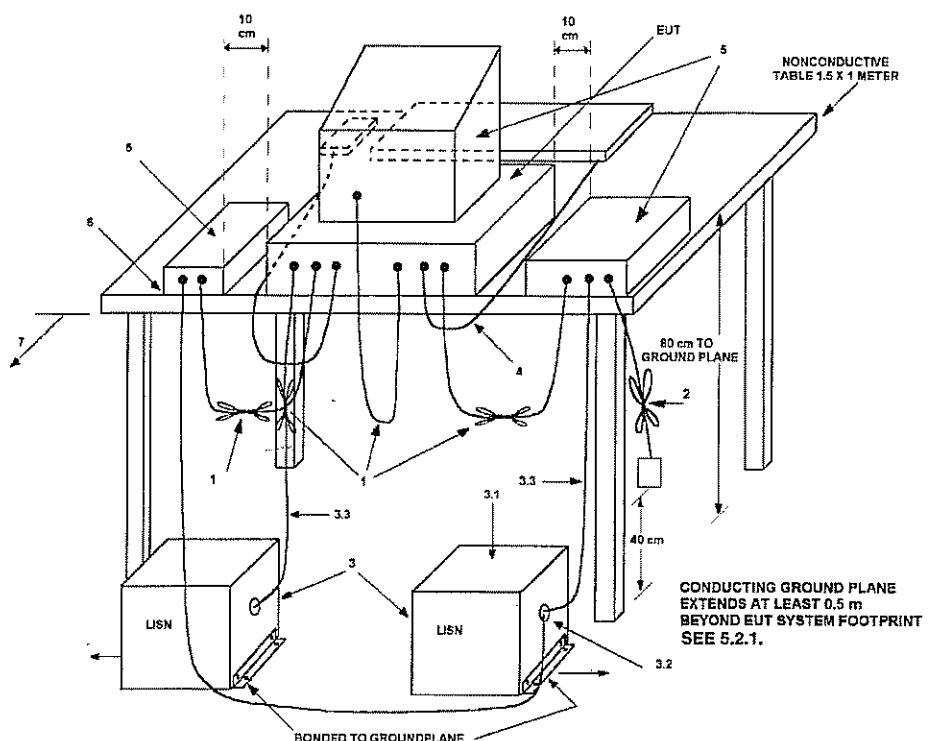
FCC – Test ReportDate: 2008-08-18**No. 50544-1**

Page 7 of 15

Radiated Emission Test Setup (3 m diatance) (> 30MHz)

FCC – Test ReportDate: 2008-08-18**No. 50544-1**

Page 8 of 15

Conducted Emission Test Setup**LEGEND:**

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.1.4).
- 3) EUT connected to one LISN, Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference groundplane (see 5.2.3 and 7.2.1).
 - 3.1) All other equipment powered from additional LISN(s).
 - 3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - 3.3) LISN at least 80 cm from nearest part of EUT chassis.
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (See 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the groundplane (see 5.2.2 for options).

FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 9 of 15

Test Procedure

Radiated Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart C Section 15.209 and 15.235.

During the test, the sample was placed on a turn table and operated with supply at rated AC voltage (i.e AC120V 60Hz) to the host adaptor. The table is 0.8 meter above the reference ground plane on the Open Aera Test Site and can rotate 360 degrees to determine the position of the maximum emission level. A broad-band antenna for the frequency range 30 - 1000 MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The antenna is capable of measuring both horizontal and vertical polarizations. The antenna was raised from 1 to 4 meters to find out the maximum emission level from the EUT.

During the test, a reference MP3 player was connected to the input terminal of the sample and was playing a MP3 song at maximum volume. The signal was transmitted via the test sample with the telescopic antenna of the sample fully extended.

An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes. Final measurement (30 MHz –1000 MHz) was then performed to record the data for the emissions under worst-case condition for combination of the antenna orientation / height and turn table position.

Note : The Open Aera Test Site located at IECC was placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

Conducted Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart C Section 15.207.

During the test, the sample was placed on a wooden table and operated under different modes with supply at rated AC voltage (i.e AC120V 60Hz) via the LISN to the host adaptor. The table is 0.8 meter above the floor. A reference MP3 player was connected to the input terminal of the sample and was playing a MP3 song at maximum volume. The signal was transmitted via the test sample with the telescopic antenna of the sample fully extended. The LISN was connected to the test receiver for conducted emission measurement (150kHz – 30MHz).

FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 10 of 15

Test Results

Radiated Emission :

Test Requirement:	FCC Part 15 Subpart C Section 15.209 and 15.235
Test Method:	ANSI C63.4 : 2003
Deviations from Standard Test Method:	Nil
Frequency Range:	30MHz – 1000MHz
Measurement Distance:	3 m
Detector:	Peak / Average (for fundamental frequency) Quasi-Peak (for frequencies outside the operation band)

Refer to page 11 for measurement data.

Conducted Emission :

Test Requirement:	FCC Part 15 Subpart C Section 15.207
Test Method:	ANSI C63.4 : 2003
Deviations from Standard Test Method:	Nil
Frequency Range:	150kHz – 30MHz
Detector:	Quasi-Peak / Average

Refer to page 12 - 13 for measurement data.

Interference Radiation

Date : 2008-08-18

Page 11 of 15

Measurement of Radiated Emissions
Acc: FCC Part 15 Subpart C (15.235 & 15.209)

IECC Ref:	50544-1
Model:	CEW100
Applicant:	FORMATION LTD.
Ser.Nr.:	--
Set under test:	Wireless Headphone
Connected sets:	-
Operating mode:	Operated with an audio signal from a host MP3 player (maximum volume)

Test Equipment
Receiver: Rohde & Schwarz ESSV 30
Antenna: Schaffner CBL6111C

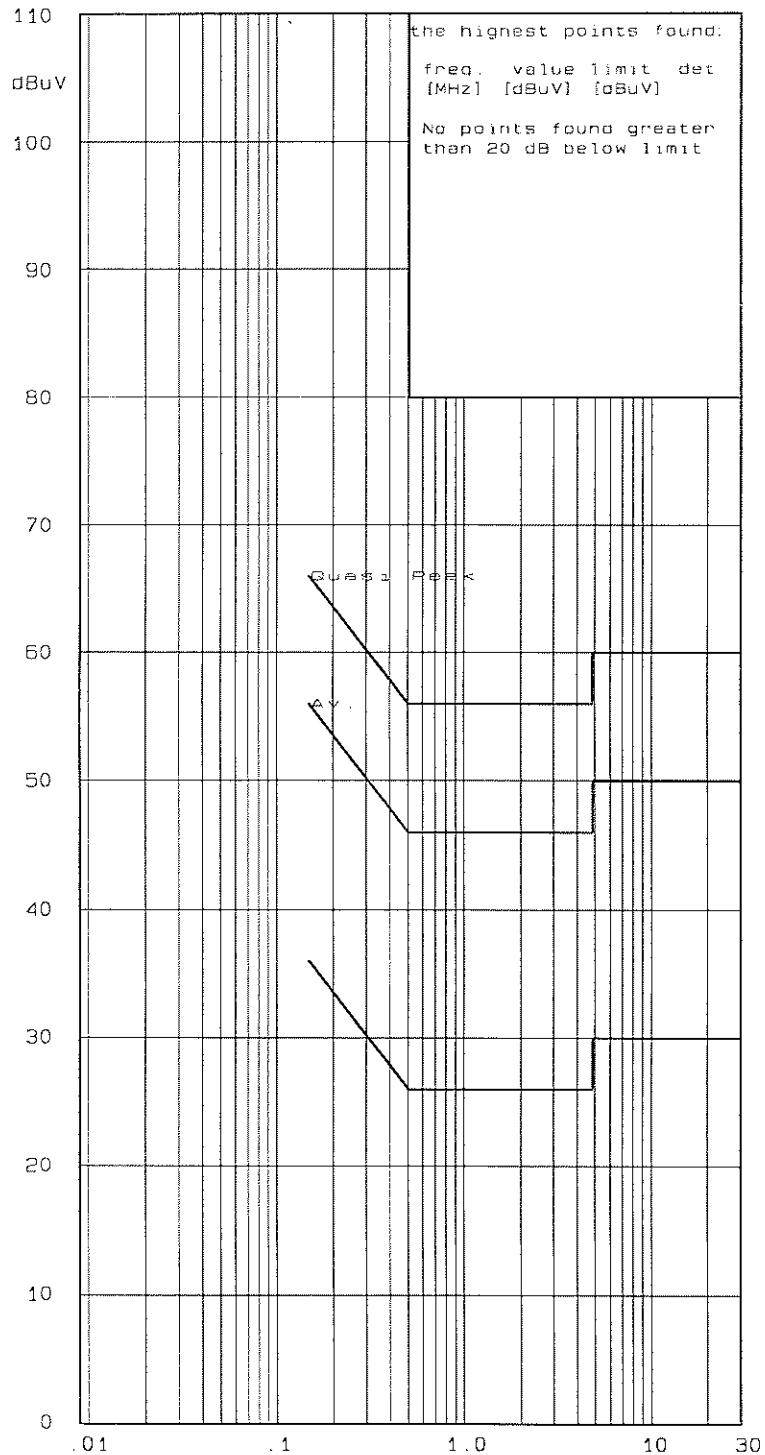
	Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Corr. Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
Peak	49.86	48	64	7.8	55.8	71.8	100.0
Av.	49.86	46	62	7.8	53.8	69.8	80.0
Harm. 2	99.72	< 16	20	9.5	< 25.5	29.5	43.5
Harm. 3	149.58	< 16	< 16	11.5	< 27.5	< 27.5	43.5
Harm. 4	199.44	20	16	8.7	28.7	24.7	43.5
Harm. 5	249.3	17	< 16	13.5	30.5	< 29.5	46.0
Harm. 6	299.16	20	< 16	14.2	34.2	< 30.2	46.0
Harm. 7	349.02	< 16	< 16	15.2	< 31.2	< 31.2	46.0
Harm. 8	398.88	< 16	< 16	16.6	< 32.6	< 32.6	46.0
Harm. 9	448.74	< 16	< 16	18.4	< 34.4	< 34.4	46.0
Harm. 10	498.6	< 16	< 16	18.9	< 34.9	< 34.9	46.0
Harm. 11	548.46	< 16	< 16	20.6	< 36.6	< 36.6	46.0
Harm. 12	598.32	< 16	< 16	20.6	< 36.6	< 36.6	46.0
Harm. 13	648.18	< 16	< 16	21.7	< 37.7	< 37.7	46.0
Harm. 14	698.04	< 16	< 16	22.2	< 38.2	< 38.2	46.0
Harm. 15	747.9	< 16	< 16	23.6	< 39.6	< 39.6	46.0
Harm. 16	797.76	< 16	< 16	23.8	< 39.8	< 39.8	46.0
Harm. 17	847.62	< 16	< 16	24.4	< 40.4	< 40.4	46.0
Harm. 18	897.48	< 16	< 16	24.4	< 40.4	< 40.4	46.0
Harm. 19	947.34	< 16	< 16	25.9	< 41.9	< 41.9	46.0

Note : 1. Unless otherwise indicated, the recorded readings are in quasi-peak values.
 2. The above results were the worst case results with the sample positioned in all 3 axis during the test.
 The worst case data were recorded with the antenna of the sample fully extended and pointing vertical upward.
 3. Due to the transmitted signal is not in pulse waveform, the average value of the radiation at the fundamental frequency is recorded by direct measurement. Calculation from time domain plots is not applicable.

Operator : KT

U 5/6**Interference voltage 150kHz – 30MHz**
Acc. FCC Part 15 Subpart C Section 15.207

Cabin 1



Model: CEW100

Spl./ Ser. No.: 01/--

Client : FORMATION LTD.

Product: WIRELESS HEADPHONE

IECC-No.: 50544-1

Date: 15.08.08

Test equipment:

Rohde & Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

Operated with an audio signal
from a host MP3 player
(L)

--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

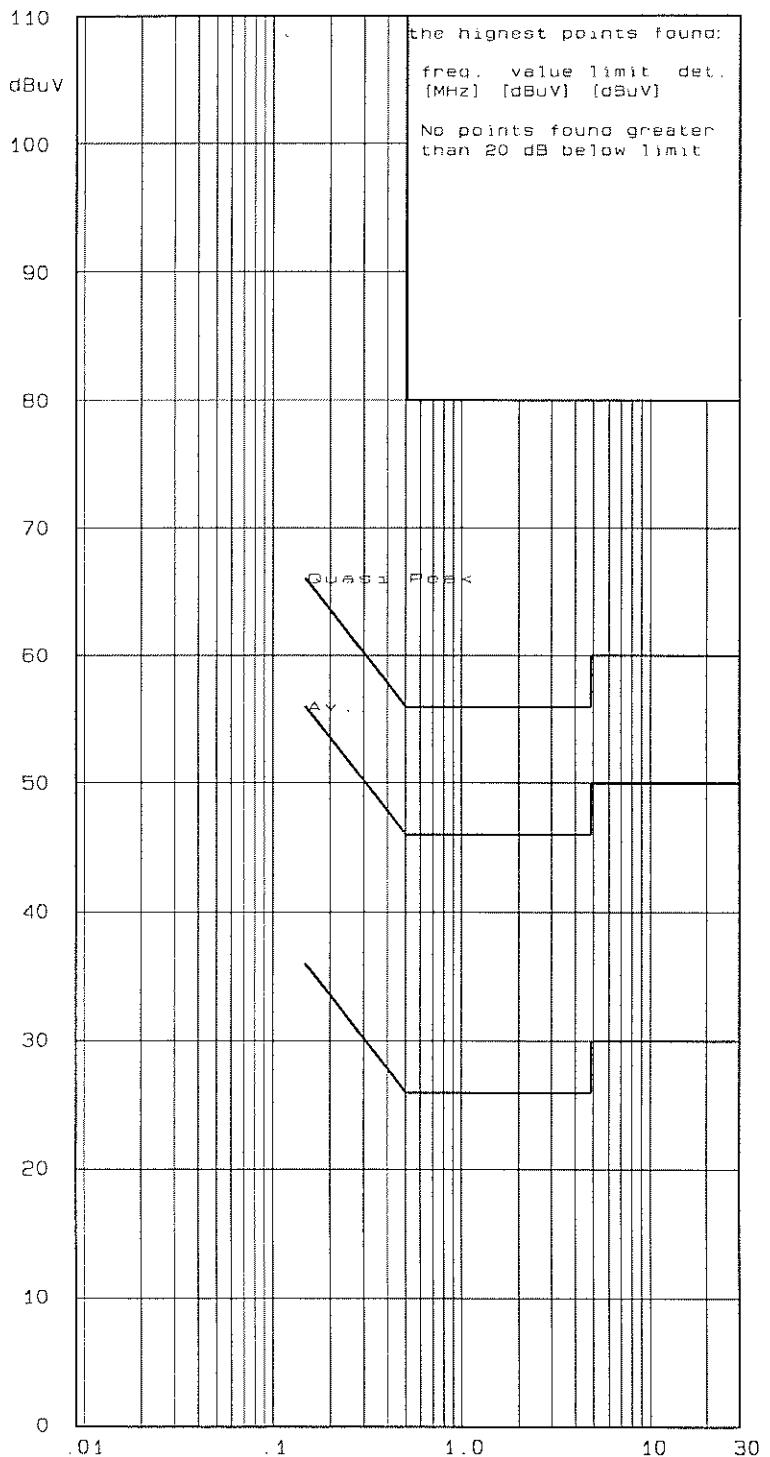
Operator: KT

Result: O.K.

IECC

U 5/6**Interference voltage 150kHz – 30MHz**
Acc. FCC Part 15 Subpart C Section 15.207

Cabin 1



Model: CEW100

Spl./ Ser. No.: 01/--

Client : FORMATION LTD.

Product: WIRELESS HEADPHONE

IECC-No.: 50544-1

Date: 15.08.08

Test equipment:

Rohde & Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

Operated with an audio signal
from a host MP3 player
(N)

--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

Operator: KT

Result: O.K.

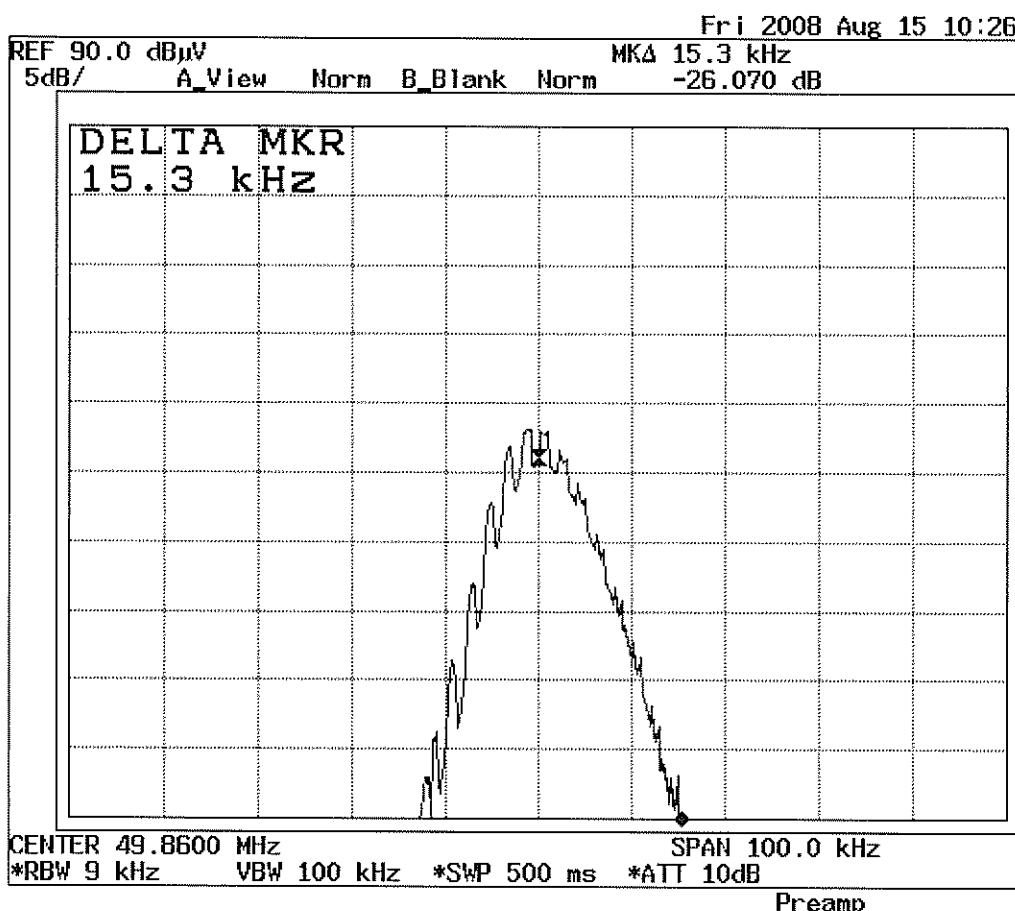
IECC

FCC – Test ReportDate: 2008-08-18

No. 50544-1

Page 14 of 15

Measurement Data of Emissions within Band Edges



Result : The field strength of any emission within the operation band did not exceed 80 dB(μ V/m) for average value or 100 dB(μ V/m) for peak value. Refer to page 11 for the recorded value for the emission at the fundamental frequency.

FCC – Test Report

Date: 2008-08-18

No. 50544-1

Page 15 of 15

Photo of Sample

