



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3110516 -00293-E



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.

TEST REPORT For FCC ID	
47 CFR PART 15 OCT, 2009	
Report Reference No.	CNB3110516-00293-E
Date of issue	18-May 2011
Testing Laboratory Name	CENTRE OF TESTING SERVICE CO., LTD
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	SENTRY INDUSTRIES INC.
Address	P.O. BOX 885 ONE BRIDGE STREET HILLBURN , NY10931 , USA
Test specification	
Standard	47 CFR PART 15 OCT, 2009, ANSI C63.4-2009
Test Report Form No.	CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD
Master TRF	Dated 2009-01
CENTRE OF TESTING SERVICE CO., LTD. All rights reserved.	
This publication may be reproduced in whole or in part for non-commercial purposes as long as the CENTRE OF TESTING SERVICE CO., LTD is acknowledged as copyright owner and source of the material. CENTRE OF TESTING SERVICE CO., LTD takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
Test item description	: 3 IN 1 WIRELESS HEADPHONE
Trade Mark	SENTRY
Manufacturer	PRIMO INTERNATIONAL LTD.
Model/Type reference	HO700
Ratings	DC 3V by battery for Transmitter and DC 3V by battery for Receiver
Operating Frequency	88.7/FM
Result	Positive

Compiled by:

Violet Lee / File administrators

Supervised by:

Tom Xiao / Technique principal

Approved by:

Vincent.Yao / Manager

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

FCC ID -- T E S T R E P O R T

Test Report No. :	CNB3110307-00609-E	<u>19 May 2011</u> Date of issue
--------------------------	---------------------------	-------------------------------------

Type / Model.....	HO700
EUT.....	3 IN 1 WIRELESS HEADPHONE
Applicant	SENTRY INDUSTRIES INC.
Address.....	P.O. BOX 885 ONE BRIDGE STREET HILLBURN , NY10931 , USA
Telephone.....	+845-7532910
Fax.....	/
Contact.....	PEETU
Manufacturer	PRIMO INTERNATIONAL LTD.
Address.....	RM2509,GINZA INTERNATIONAL BUILDING,7008 SHENNAN,SHENZHEN.CHINA
Telephone.....	+86-755-82872157
Fax.....	+86-755-82872067
Contact.....	Christine
Factory	SHENZHEN BANCEO INDUSTRIAL CO., LTD
Address.....	94 GUANG MING RD., E GONG LING PING LONG INDUSTRY , PING HU TOWN , LONG GANG DISTRICT , SHENZHEN CITY .CHINA
Telephone.....	+86-755- 82872786
Fax.....	+86-755- 82872067
Contact.....	KIM

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

TABLE OF CONTENTS

Description	Page
1. TEST STANDARDS	4
2. SUMMARY	4
2.1 GENERAL REMARKS	4
2.2 FINAL ASSESSMENT	4
3. EQUIPMENT UNDER TEST	5
3.1 POWER SUPPLY SYSTEM UTILISED	5
3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	5
3.3 EUT OPERATION MODE	5
3.4 EUT CONFIGURATION	6
4. TEST ENVIRONMENT	7
4.1 ADDRESS OF THE TEST LABORATORY	7
4.2 TEST FACILITY	7
4.3 ENVIRONMENTAL CONDITIONS	7
4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	7
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	7
4.6 MEASUREMENT UNCERTAINTY	8
5. Summary of standards and results	8
5.1.DESCRPTION OF STANDARDS AND RESULTS	8
6. Power Line Conducted Emission Test	9
7. Radiated disturbance (electric field)	10
7.1.TEST EQUIPMENT	10
7.2.BLOCK DIAGRAM OF TEST SETUP	10
7.3.RADIATED EMISSION LIMIT STANDARD: FCC 15.109	11
7.4.TEST PROCEDURE	11
7.5.RADIATED EMISSION TEST RESULTS	12
8. Manufacturer/ Approval holder Declaration	17

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2009
- ANSI C63.4-2009

SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	18 May 2011
Testing commenced on	18 May 2011
Testing concluded on	19 May 2011

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- ☐ - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- ☐ - **does not** fulfil the FCC requirements cited on page 3.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ☒ DC 3V by battery for Transmitter and DC 3V by battery for Receiver

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☐ - Standby
- ☒ - Test program (customer specific)

Operation mode 1: TX/RX Normal Link

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	3 IN 1 WIRELESS HEADPHONE
Model Number	:	HO700
Operation frequency	:	88.7MHz
Radio Technology	:	FM
Modulation Technology	:	FM modulation

3.4.2. Tested Supporting System Details

N/A

TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009 .

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is not applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)

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

Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	ANSI C63.4-2009 FCC Part 15 C: 15.207	N/A
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 B: 15.109	PASSED
N/A is an abbreviation for Not Applicable.		

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

6. Power Line Conducted Emission Test

According to Paragraph (f) of FCC Part 15 C: 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

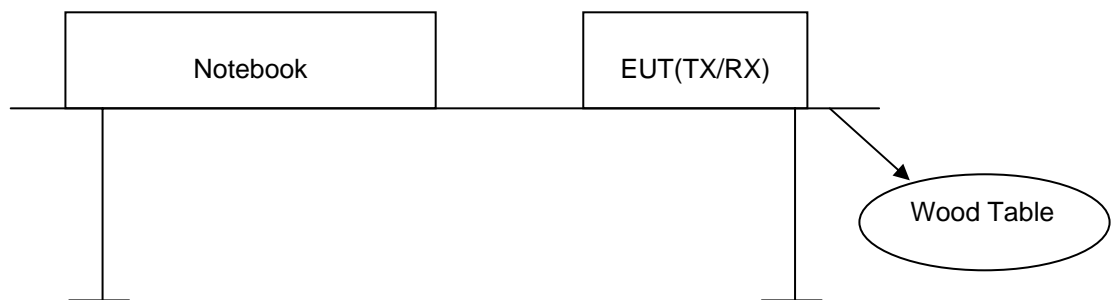
7. Radiated disturbance (electric field)

7.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT: 3 IN 1 WIRELESS HEADPHONE)

7.2.2 Anechoic Chamber Setup Diagram

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

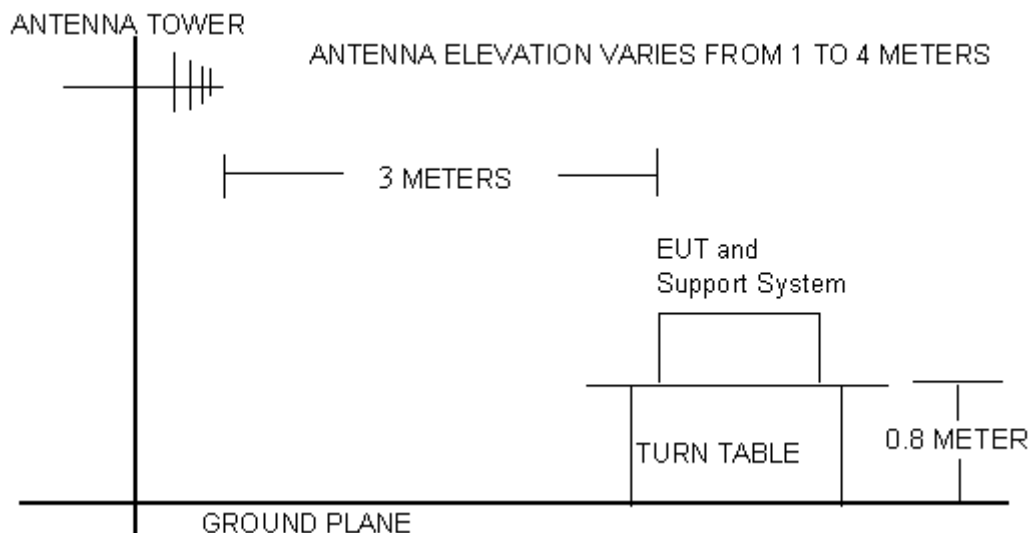
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



7.3. Radiated Emission Limit Standard: FCC 15.231

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Fundamental	3	250	48.0
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark:
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be calculated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX/RX Normal link Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

7.5.Radiated Emission Test Results

PASSED.

The frequency range from 30MHz to 230MHz and 230MHz to 1000MHz is investigated.
Please see the following pages.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

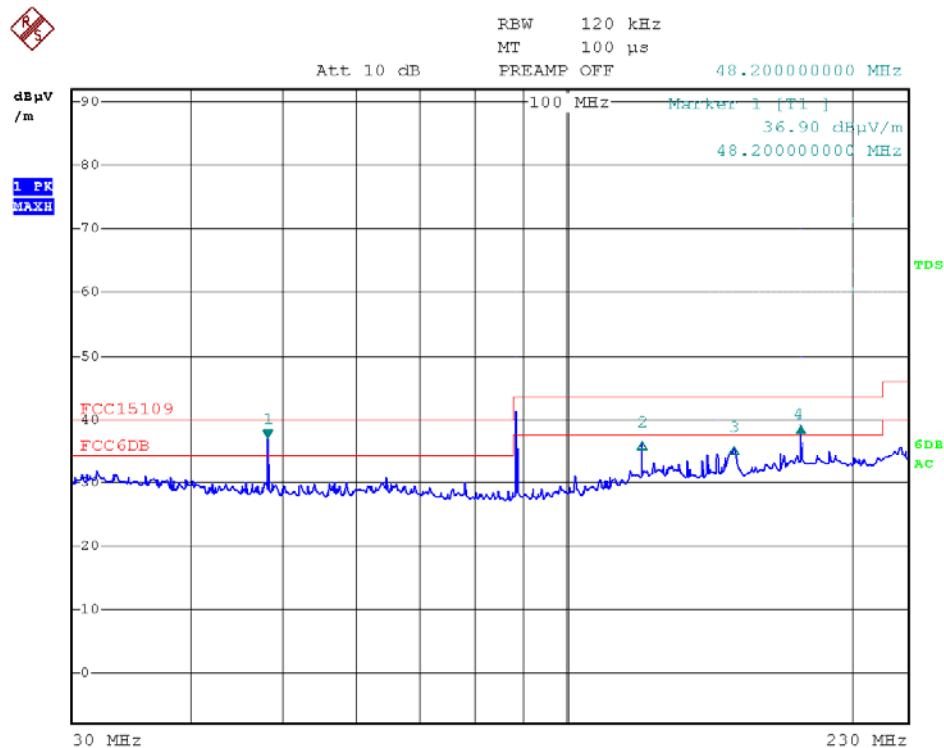
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Test Mode:	TX/RX Normal link	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 IN 1 WIRELESS HEADPHONE
Firm Name	SENTRY INDUSTRIES INC.
Operating Condition	DC 3V by battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	17 May~18 May 2011
Operator	Peter
MODEL NO	HO700



Date: 19.MAY.2011 08:52:35

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

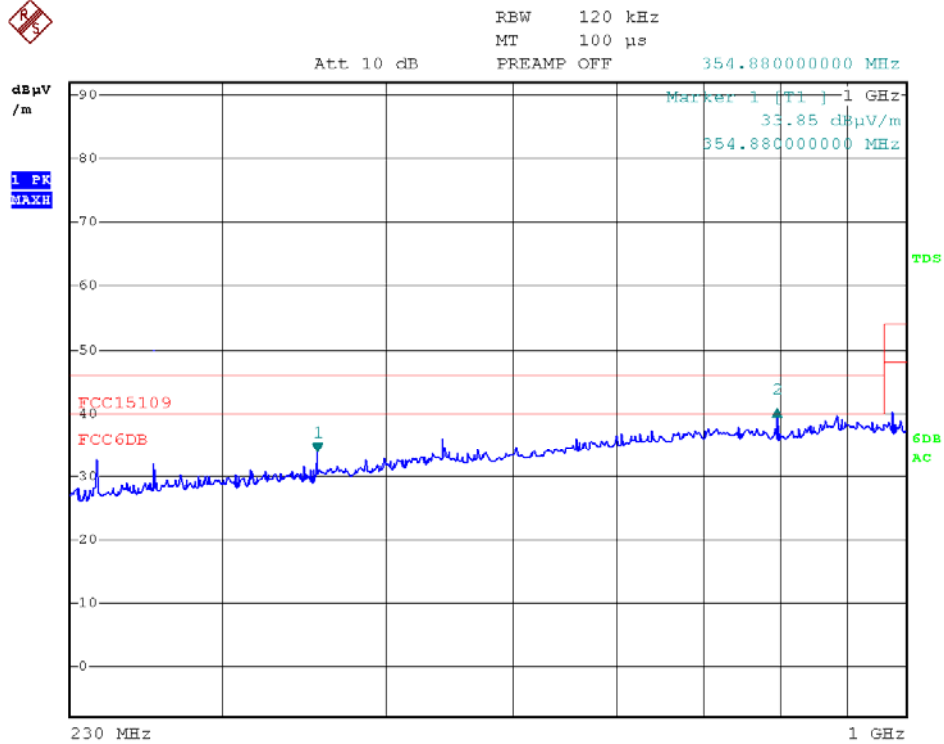
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



Date: 19.MAY.2011 09:04:10

Test Result						
Frequency	Result [dB μ V]		Limit [dB μ V]		Dlimit [dB μ V]	
[MHz]	Average	QP	Average	QP	Average	QP
48.20	---	36.90	---	40.0	---	3.10
120.48	---	36.50	---	43.5	---	7.00
150.28	---	35.66	---	43.5	---	7.84
177.44	---	37.23	---	43.5	---	6.27
354.88	---	33.85	---	46.0	---	12.15
798.48	---	40.65	---	46.0	---	5.35

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

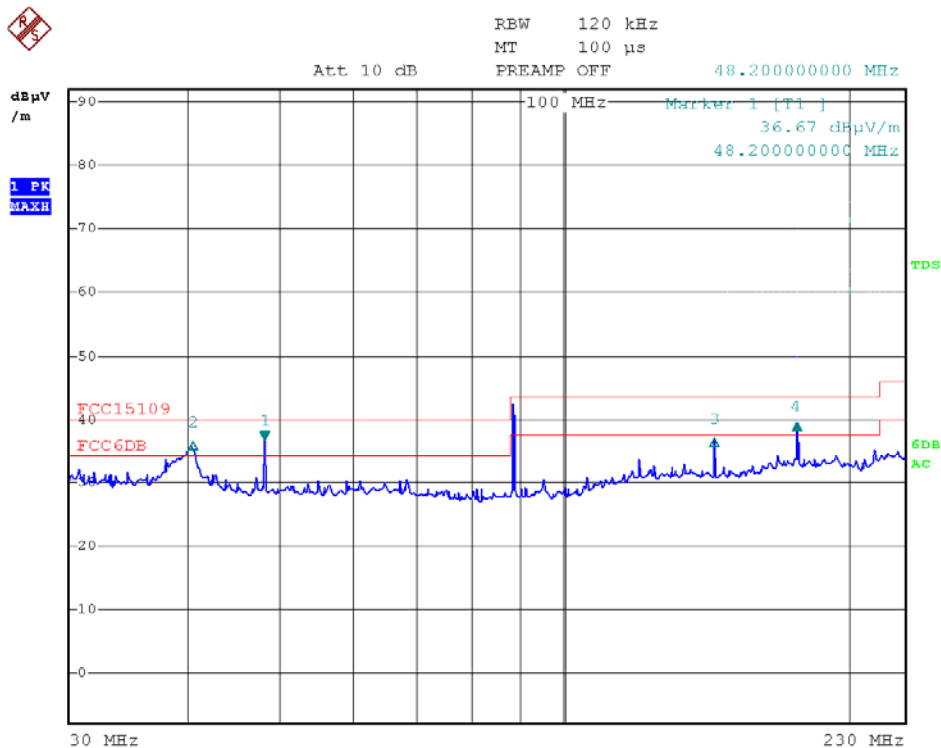
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Test Mode:	TX/RX Normal link	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 IN 1 WIRELESS HEADPHONE
Firm Name	SENTRY INDUSTRIES INC.
Operating Condition	DC 3V by battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	17 May~18 May 2011
Operator	Peter
MODEL NO	HO700



Date: 19.MAY.2011 08:57:11

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

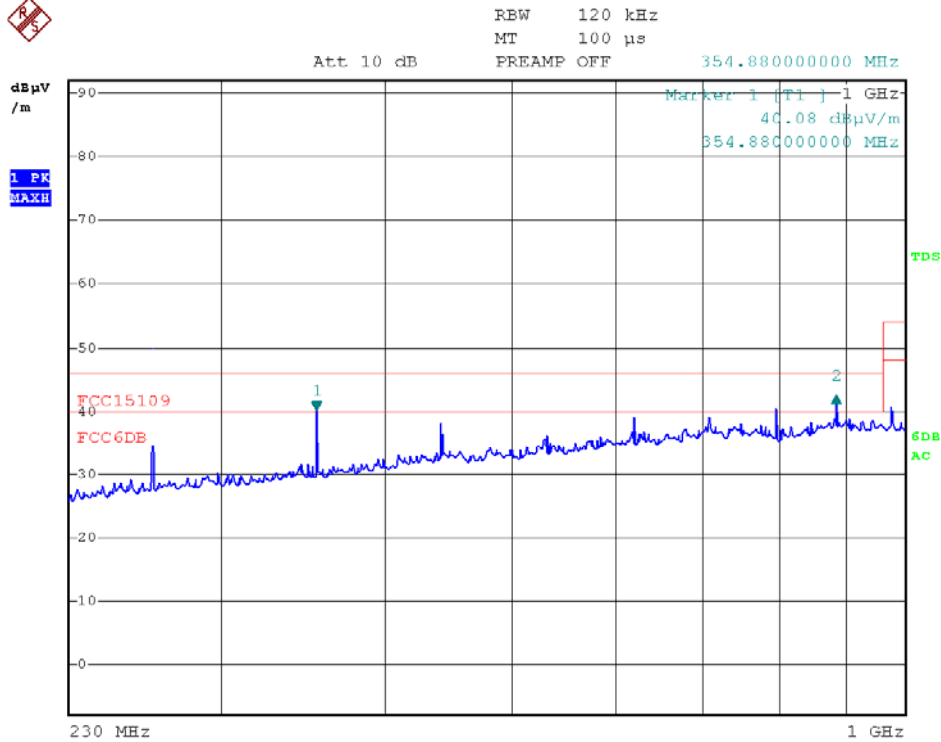
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



Date: 19.MAY.2011 09:01:43

Test Result						
Frequency	Result [dB μ V]		Limit [dB μ V]		Dlimit [dB μ V]	
[MHz]	Average	QP	Average	QP	Average	QP
40.44	---	36.57	---	40.0	---	3.43
48.20	---	36.67	---	40.0	---	3.33
144.56	---	37.01	---	43.5	---	6.49
177.44	---	38.11	---	43.5	---	5.39
354.88	---	40.08	---	46.0	---	5.92
887.56	---	42.56	---	46.0	---	3.44

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

8. Manufacturer/ Approval holder Declaration

The following identical model(s):

DP-003W /HO750/550018068

Belong to the tested device:

Product description: **3 IN 1 WIRELESS HEADPHONE**

Model name: HO700

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service