



BUREAU
VERITAS

Test Report No.: FS160712N012

RF EXPOSURE REPORT

Applicant	ARTS DIGITAL TECHNOLOGY (HK) LTD
Address	1704, 17/F, Fo Tan Industrial Centre, 26-28 Au Pui Wan St., Fo Tan, Hong Kong

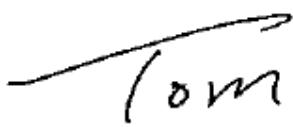
Manufacturer or Supplier	ARTS DIGITAL TECHNOLOGY (HK) LTD
Address	1704, 17/F, Fo Tan Industrial Centre, 26-28 Au Pui Wan St., Fo Tan, Hong Kong
Product	Bluetooth Karaoke with Speakers & Light Effects
Brand Name	ADT , AKAI
Model	KS303-BT
Additional Model & Model Difference	KS300, KS301-BT, KS30X-BT, KS30X, etc., see items 3.1
Date of tests	Jul. 12, 2016 ~ Aug. 24, 2016

FCC Part 2 (Section 2.1091)

KDB 447498 D01

IEEE C95.1

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

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	

Date: Aug. 24, 2016

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



BUREAU
VERITAS

Test Report No.: FS160712N012

Table of Contents

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



**BUREAU
VERITAS** Test Report No.: FS160712N012

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160712N012	Original release	Aug. 24, 2016



**BUREAU
VERITAS** Test Report No.: FS160712N012

1. CERTIFICATION

FCC ID:	OWT-KS303BT
PRODUCT:	Bluetooth Karaoke with Speakers & Light Effects
BRAND NAME:	ADT, AKAI
MODEL NO.:	KS303-BT
ADDITIONAL NO.:	KS300, KS301-BT, KS30X-BT, KS30X
TEST SAMPLE:	Engineering Sample
APPLICANT:	ARTS DIGITAL TECHNOLOGY (HK) LTD
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



BUREAU
VERITAS

Test Report No.: FS160712N012

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



BUREAU
VERITAS

Test Report No.: FS160712N012

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	0	Integral PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	1.026	0	20	0.000204	1.0

--- END ---