RF Exposure Evaluation Declaration

Product Name	: iPod Bluetooth Transmitter
Model No.	:TZ4, TZ4R
FCC ID	: IKQTZ4

Applicant	:	Scosche Industries Inc.	
Address	:	1550 Pacific Avenue Oxnard, CA 93033	

Date of Receipt	: 2008/06/17
Issued Date	: 2008/07/28
Report No.	: 087S011-RF-US

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

QuieTek

Issued Date Report No. : 2008/07/28 : 087S011-RF-US



Product Name	:	iPod Bluetooth Transmitter		
Applicant	:	Scosche Industries Inc.		
Address	:	1550 Pacific Avenue Oxnard, CA 93033		
Manufacturer	:	Shanghai Flaircomm Technologies Inc.		
		No. 5, Bibo Road, Keyuan Building 4F, Zhangjiang		
		Hi-Tech Park, Shanghai 201203 P.R. China		
Model No.	:	TZ4, TZ4R		
FCC ID	:	IKQTZ4		
EUT Voltage	:	DC 3.3V		
Trade Name	:	Scosche Industries		
Applicable Standard	:	FCC OET 65		
Test Result	:	Complied		
Performed Location	:	SuZhou EMC laboratory		
		No.99 Hongye Rd., Suzhou Industrial Park Loufeng		
		Hi-Tech Development Zone., SuZhou, China		
		TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098		
		FCC Registration Number: 800392		
		May 1. 24		
Documented By	:	Any Lou		
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Reviewed By	Reviewed By : Dream Cao			
		(Dream Cao)		
Approved By	Cene chang			
		(Cono Chang)		

(Gene Chang)

QuieTek

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSI	MI, DGT, CNLA
Germany	: TU\	V Rheinland
Norway	: Ner	mko, DNV
USA	: FCO	C, NVLAP
Japan	: VC	CI

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : <u>http://tw.quietek.com/modules/myalbum/</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. RF Exposure Evaluation

Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)	
(A) Limits for C	(A) Limits for Occupational/ Control Exposures				
300-1500			F/300	6	
1500-100,000			5	6	
(B) Limits for General Population/ Uncontrolled Exposures					
300-1500			F/1500	6	
1500-100,000			1	30	

F= Frequency in MHz

Friis Formula

Friis transmission 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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

QuieTek

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78° /k RH.

Test Result of RF Exposure Evaluation

Product	•	Pod Bluetooth Transmitter	
Test Item	:	RF Exposure Evaluation	
Test Site	•	AC-3	
Test Mode		Mode 1: Transmit	

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.4dBi or 1.10 in linear scale.

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
00	2402.00	2.1184	0.0005
39	2441.00	2.1928	0.0005
78	2480.00	2.4099	0.0005

Output Power Into Antenna & RF Exposure Evaluation Distance:

Note:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm2.