

APPLICANT : ARS Global Guiding, Inc.

EQUIPMENT: ARS2 DEVICE

BRAND NAME : ARS2 Device

MODEL NAME : ARS2

FCC ID : YA2ARS2

FILING TYPE : Certification

STANDARD : OET Bulletin 65 Supplement C (Edition 01-01)

We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the device has been evaluated in accordance with FCC OET Bulletin 65 Supplement C (Edition 01-01), and pass the limit. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Report No.: FA101803A

Report Version : Rev. 01

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Report No.: FA1O1803A

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA1O1803A	Rev. 01	Initial issue of report	Apr. 13, 2012

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1. RF Exposure Introduction

Requirements

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories

are fixed installation, mobile and portable and are defined as follows:

Fixed installation:

Fixed location means that the device, including its antenna, is physically secured at a permanent location

and is not able to be easily moved to another location. Additionally, distance to humans form the antenna

is maintained to at least 2 meters.

Mobile Devices:

A mobile device is defined as a transmitting device designed to be used in other than fixed locations and

to be generally used in such a way that a separation distance of at least 20 centimeters is normally

maintained between the transmitter's radiating structures and the body of the user or nearby persons.

Transmitters designed to be used by consumers or workers that can be easily re-located, such as a

wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20

centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are

found in 47 CFR 2.1091.

Portable Devices:

A portable device is defined as a transmitting device designed to be used so that the radiating structure(s)

of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found

in Section 2.1093 of the FCC's Rules (47 CFR 2.1093)



The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows:

Occupational/controlled Exposure:

In general, occupational/controlled exposure limits are applicable to situation in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to minimize such exposure risks.

General Population/Uncontrolled Exposure:

The general population / uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

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2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.	
Test Site Location	TEL: +86-0512-5790-0158	
	FAX: +86-0512-5790-0958	

2.2 Applicant

Company Name	ARS Global Guiding, Inc.
Address	2674 East Walnut Street, Pasadena, California, United States, 91107

2.3 Manufacturer

Company Name	ARS Global Guiding, Inc.
Address	2674 East Walnut Street, Pasadena, California, United States, 91107

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3. General Information

3.1 <u>Description of Device Under Test (DUT)</u>

Product Feature & Specification			
DUT Type	ARS2 DEVICE		
Brand Name	ARS2 Device		
Model Name	ARS2		
FCC ID	YA2ARS2		
Tx Frequency	2402 MHz ~ 2480 MHz		
Rx Frequency	2402 MHz ~ 2480 MHz		
Antenna Type	Chip Antenna		
HW Version	ARS2-V5.0		
SW Version	ARS2-2.03.08		
	Bluetooth (1Mbps) : GFSK		
Type of Modulation	Bluetooth EDR (2Mbps) : π /4-DQPSK		
	Bluetooth EDR (3Mbps) : 8-DPSK		
DUT Stage	Production Unit		

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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4. RF Exposure Evaluation

4.1 Radio Frequency Radiation Exposure Evaluation

For this device, the calculation is as follows:

No evaluation required if power is below this power threshold:

Frequency	Power	Power
(GHz)	(mW)	(dBm)
2.48	24.19	13.84

Maximum measured transmitter power for the EUT:

Maximum Output Power		
(dBm)		
-1.31		

Threshold for no RF exposure evaluation is 13.84 dBm.

Transmitter power of this device is -1.31 dBm.

Conclusion: No RF exposure evaluation required since transmitter output power is below the power threshold.

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