

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

shenzhen ihotku technology co,.Ltd.

PRODUCT NAME

nursing bottle

MODEL NAME

i520

TRADE NAME

ihotku

BRAND NAME

ihotku

FCC ID

2AGSBIHK521

47CFR 2.1093

STANDARD(S)

KDB 447498 s.I General RF Exposure

ISSUE DATE

2015-92-23

Certification

OBAL SERVIC

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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		Change History
Issue	Date	Reason for change
1.0	2015-12-23	First edition
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TEST REPORT DECLARATION

Applicant	shenzhen ihotku technology co,.Ltd.		
Applicant Address	NO.1-602. Building 7,phase5,zhenye city, longgang district, shenzhen guangdong.		
Manufacturer	SHENZHEN ASOLIGHT TECHNOLOGY CO.,LTD		
Manufacturer Address	4th floor Building C, Junda industrial Park, 12# Fuyuan 2Road, Fuyong Town, Baoan District, Shenzhen City,Guangdong,China		
Product Name	nursing bottle		
Model Name	i520		
Brand Name	ihotku		
HW Version	v06		
SW Version	v10		
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06		
Issue Date	2015-12-09		
SAR Evaluation	Not Required		

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		Zhu Zhan	
Approved by	ACTUAL VIEW	Zeng Dexin	MO8
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1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	shenzhen ihotku technology co,.Ltd.	
Address:	NO.1-602. Building 7,phase5,zhenye city, longgang district, shenzhen	
MORT MO	guangdong.	

1.2. Identification of Manufacturer

Company Name:	SHENZHEN ASOLIGHT TECHNOLOGY CO.,LTD		
Address:	4th floor Building C, Junda industrial Park, 12# Fuyuan 2Road,		
E ORLAN MORN	Fuyong Town, Baoan District, Shenzhen City, Guangdong, China		

1.3. Equipment Under Test (EUT)

Model Name:	i520
Trade Name:	ihotku
Brand Name:	ihotku
Hardware Version:	v06
Software Version:	v10
Frequency Bands:	Bluetooth 4.0:2402-2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype





1.3.1. Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version Software Version	
1#	v06	v10

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 OPLAR	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Bluetooth nursing bottle. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, 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.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. Bluetooth Average output power

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Band	Channel Frequency (MHz)		Output Power(dBm)
Bana		GFSK	
ALAB	0	2402	-1.29
BT	19	2440	-1.75
LAE JOR	39	2480	-2.28

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] ≤ 3.0

The maximum tune-up limit power is 0.79mW @ 2.402GHz

When Bluetooth nursing bottle is close to head, so use **5mm** as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =**0.24** \leq 3.0

So SAR evaluation is not required for this device.



ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

***** END OF REPORT *****