

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

What Watch HK Limited

PRODUCT NAME

Calendar watch

MODEL NAME

CW10

TRADE NAME

N/A

BRAND NAME

What Watch

FCC ID

2AENG00DWWCW10

47CFR 2.1093

STANDARD(S)

KDB 447498 D01 General RF Exposure

Guidance v06

ISSUE DATE

2016-10-13

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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	Change History		
Issue	Date	Reason for change	
1.0	2016-10-13	First edition	
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TEST REPORT DECLARATION

Applicant	What Watch HK Limited		
Applicant Address	19 Floor, Silver Fortune Plaza, 1 Wellington Street, Central, Hong Kong		
Manufacturer	SwissTech Watch Technology(Shenzhen) Ltd.		
Manufacturer Address	1 Golden Road, Namling Village, Buji Ind. District, Shenzhen, China		
Product Name	Calendar watch		
Model Name	CW10		
Brand Name	What Watch		
HW Version	N/A		
SW Version	N/A		
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06		
Issue Date	2016-10-13		
SAR Evaluation	Not Required		

Tested by		Chen Sheng kui	100
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Reviewed by	, s	Liu Jun	18 100
		Liu Jun	
Approved by	,0 ⁸⁷ - 7	Zeng Dexon	
		Zeng Dexin	



1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	What Watch HK Limited
Address:	19 Floor, Silver Fortune Plaza, 1 Wellington Street, Central, Hong
"IOET INC.	Kong

1.2. Identification of Manufacturer

Company Name:	SwissTech Watch Technology(Shenzhen) Ltd.
Address:	1 Golden Road, Namling Village, Buji Ind. District, Shenzhen, China

1.3. Equipment Under Test (EUT)

Model Name:	CW10
Trade Name:	N/A
Brand Name:	What Watch
Hardware Version:	N/A
Software Version:	N/A
Frequency Bands:	Bluetooth 4.0:2402-2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	Ceramic 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#	N/A	N/A	

1.4. Applied Reference Documents

Leading reference documents for testing:

	4 1		
١	No.	Identity	Document Title
1	MOR	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Bluetooth Watch. 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

61,	-	· h.	
Band	Channel	nnel Frequency (MHz)	Output Power(dBm)
Bana			GFSK
al AB	0	2402	-3.44
BT	19	2440	-4.07
LAE JOR	39	2480	-4.13

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 **0.45mW** @ **2.402GHz**

When Bluetooth Watch is worn on the hand, 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)]·[$\sqrt{f(GHz)}$] =**0.14** \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
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
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