

Report No.: E-F1607010-02

Seal-Cheir Seal-Cheir

RF Exposure evaluation

Report Reference No.....: E-F1607010-02 FCC ID.....: 2AIXXWWS10

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Date of issue...... August. 04, 2016

Testing Laboratory Name: Dongguan Yaxu (AiT) Technology Limited

DongGuan, Guangdong, 523757 China

Applicant's name...... Cloud DX Inc.

Test specification::

TRF Originator...... Dongguan Yaxu (AiT) Technology Limited

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Test item description: Wireless Weight Scale

Trade Mark: /

Manufacturer...... SHENZHEN SMARTGUY TECHNOLOGY CO. LTD

Model/Type reference...... WWS10

Listed Models /

Operation Frequency...... From 2402MHz to 2480MHz

Exposure category...... General population/uncontrolled environment

EUT Type Production Unit

Device Type Portable Device

Hardware version SMG-GBF-BT908

TEST REPORT

Report No.: E-F1607010-02

Test Report No. :	E-F1607010-02	August. 04, 2016
	L-1 1007010-02	Date of issue

Equipment under Test : Wireless Weight Scale

Model /Type : WWS10

Listed Models : /

Applicant : Cloud DX Inc.

Address : 100 - 72 Victoria Street South Kitchener, ON N2G

4Y9,Canada

Manufacturer : SHENZHEN SMARTGUY TECHNOLOGY CO. LTD

Address : 5th Floor, No. 21 Xinghua Road, Xingwei Community,

Fuyong Town, Bao'an District, Shenzhen, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revison History

Revision	Issue Date	Revisions	Revised By
V1.0	2016-08-04	Initial Issue	Jackie.Deng

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1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- O supplied by the lab

	O Power Cable	Length (m):	/
Γ		Shield :	/
Γ		Detachable :	/

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2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Dongguan Yaxu (AiT) Technology Limited

No. 22, Jin Qian Ling Street 3, Ji Ti Gang Village, Huang-Jiang Town, Dong Guan, Guangdong, 523757 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4, CISPR 22/EN 55022 and CISPR16-1-4:2010 SVSWR requirements.

2.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr.18, 2013

FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2014.

Industry Canada(IC)-Registration No: 6819A

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 01, 2014.

VCCI- Registration No: 2705

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dngguan Yaxu (AiT) technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C		
Humidity:	30-60 %		
Atmospheric pressure:	950-1050mbar		

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Dongguan Yaxu (AiT) Technology Limited quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Dongguan Yaxu (AiT) Technology Limited is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure requirement

KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 "

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt f (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

3.3. Conducted Power Results

BLE

	==							
Mode	Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Average Output Power (dBm)				
	00	2402	-3.965	-5.489				
GFSK	20	2442	-4.131	-5.654				
	39	2480	-4.483	-6.009				

Manufacturing tolerance

Bluetooth

BLE-GFSK (Average)					
Channel	Channel 00	Channel 20	Channel 39		
Target (dBm)	-6.0	-6.0	-6.0		
Tolerance ±(dB)	1	1	1		

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4. Evaluation Result

Evaluation Results

Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold	SAR Test Exclusion
		(111111)	dBm	mW	Tillesilolu	
BLE	2.450	5	-5.00	0.32	0.1<3.0	Yes

5. Conclusion

The measurement results	comply with FCC Limit per	· 47 CFR 2.1093 for	r the uncontrolled RF	Exposure and
SAR Exclusion Threshold	per KDB 447498 v06.			