

A Test Lab Techno Corp.

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SAR Test Exclusion Evaluation





Test Report No. : 1509FS11

Applicant : Mobile Action Technology Inc.

Manufacturer : Heisei Technology Co., Ltd.

Product Type : Bluetooth 4.0 Low Energy Wristband

Trade Name : i-gotU

Model Number : Q-72, Q-72x, Q-72a, Q-72c, Q-72e, Q-72g

Dates of Received : Aug. 25, 2015

Dates of Test : Aug. 31, 2015

Dates of Issued : Sep. 03, 2015

Test Specification : ANSI/IEEE C95.1-1999/ IEEE Std. 1528-2013

IEEE Std. 1528a-2005

47 CFR § 2.1093

KDB 447498 D01 General RF Exposure Guidance v05r02

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r01

Location of Test Lab. : Chang-an Lab.

- 1. The test operations have to be performed with cautious behavior, the test results are as attached.
- 2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
- 3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp.
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Approved By

Tested By

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1. Description of Equipment under Test (EUT)

Applicant	Mobile Action Technology Inc.					
Applicant Address	5F., No.205-3, Sec.3, Beishin Rd., Shindian City Taipei Taiwan 231					
Manufacturer	Heisei Technology Co., Ltd.					
Manufacturer Address	2F.,No.5,Aly.8,Ln.45.,Baoxing Rd.,Xindian Dist.,New Taipei City 231,Taiwan,R.O.C.					
Product Type	Bluetooth 4.0 Low Energy Wristband					
Trade Name	i-gotU					
Model Number	Q-72, Q-72x, Q-72a, Q-72c, Q-72e, Q-72g					
Model Different Description	Those model numbers differ from each other in selling region.					
FCC ID	Q7Z-15072R1					
Frequency Range	2402 - 2480 MHz : Bluetooth LE					
Transmit Power (conducted power)	0.005 W / 7.10 dBm					
Antenna Type	FPC Antenna					
Antenna Max. Gain	-1.14 dBi					

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1093. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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2. SAR Test Exclusion

As RF exposure evaluation of portable device, SAR test is not required when the evaluation results . According to KDB 447498 4.3.1, unless excluded by specific FCC test procedures, portable devices shall include SAR data for equipment approval. SAR test necessity will be based on the exclusion result.

The test exclusion refers KDB 447498 as below:

≤50mm:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

>50mm and <200mm:

- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

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2.1 Conducted Power

Band	Frequency (MHz)	Average Power (dBm)
	2402.0	5.84
Bluetooth LE	2440.0	6.58
	2480.0	7.10

2.2 Evaluation Results

The evaluation of SAR test reduction according to KDB447498 SAR test is not required when the results showed "SAR is not required".

Transmitter and antenna implementation as below:

Band	Bluetooth Antenna
Bluetooth	V

Extremity SAR:

≤ 50 mm									
Band	Side	Channel	Power	Frequency	distance	Power	Result L	Limit	exclusion considerations
			(dBm)	(GHz)	(mm)	(mW)			SAR _{10g}
Bluetooth LE	Front	39	7.5	2.480	5.0	5.0	1.9	7.5	SAR is not required
Didelootii LE	Back	39	7.5	2.480	5.0	5.0	1.9	7.5	SAR is not required

Note1: The test reduction for distance less than 50mm. Use the max power to make sure minimum distance by evaluated for SAR testing.

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