



Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

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RF Exposure Evaluation Report

Report No. : CQASZ20180500078E-02

Applicant: PICOOC Technology Co., Ltd.

Address of Applicant: Room 507, F/5, Wanwei Building, No.5 Industrial Road, NanShan District, Shenzhen, China

Manufacturer: PICOOC Technology Co., Ltd.

Address of Manufacturer: Room 507, F/5, Wanwei Building, No.5 Industrial Road, NanShan District, Shenzhen, China

Equipment Under Test (EUT):

Product: Smart body fat scale

Model No.: Mini Pro

Brand Name: N/A

FCC ID: 2ALE7-MINIPRO

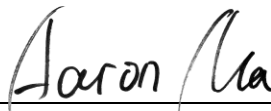
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-05-14 to 2018-05-21

Date of Issue: 2018-05-21

Test Result : **PASS***

Tested By:



(Aaron Ma)

Reviewed By:



(Owen Zhou)

Approved By:



(Jack Ai)



* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180500078E-02	Rev.01	Initial report	2018-05-21

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT	4
5 SAR EVALUATION	5
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	5
5.1.1 <i>Standard Requirement</i>	5
5.1.2 <i>Limits</i>	5
5.1.3 <i>EUT RF Exposure</i>	5

4 General Information

4.1 Client Information

Applicant:	PICOOC Technology Co., Ltd.
Address of Applicant:	Room 507, F/5, Wanwei Building, No.5 Industrial Road, NanShan District, Shenzhen, China
Manufacturer:	PICOOC Technology Co., Ltd.
Address of Manufacturer:	Room 507, F/5, Wanwei Building, No.5 Industrial Road, NanShan District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Smart body fat scale
Model No.:	Mini Pro
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BLE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Software of EUT:	Holtek blue test v1.4 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	1.0dBi
EUT Power Supply:	3*AAA 1.5V Batteries

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

Operational Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	2.06	3±1	4.0	2.51	0.78	3.0
Middle (2440MHz)	3.00	3±1	4.0	2.51	0.78	
Highest (2480MHz)	3.69	3±1	4.0	2.51	0.79	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20180500078E-01