

Shanghai Medconn Medical Technology Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

MQ-8000, MQ-8000PT

REPORT NUMBER:

2412B0311SHA-002

ISSUE DATE:

December 10, 2024

DOCUMENT CONTROL NUMBER:

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Manufacturer: Shanghai Medconn Medical Technology Co., Ltd.
No.1018 WeiChang Road, ShanYang, JinShan District, Shanghai, China

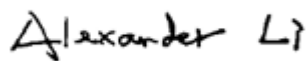
Factory: Shanghai Medconn Medical Technology Co., Ltd.
Rm 1001-1003, 1F, East of Building4 & 2F, East of Building4, No. 1018
Weichang Road, Shanyang Town, Jinshan District, Shanghai, China

FCC ID: 2BHV21501

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:**REVIEWED BY:**

Project Engineer
Alexander Li

Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2412B0311SHA-002	Rev. 01	Initial issue of report	December 10, 2024

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Glycated Hemoglobin Analyzer
Type/Model:	MQ-8000, MQ-8000PT
Description of EUT:	The EUT is a Glycated Hemoglobin Analyzer with NFC function, both models are identical except the appearance color.
Rating:	100-240V~, 50/60Hz, 180VA
EUT type:	☒ Table top ☐ Floor standing
Software Version:	-
Hardware Version:	-
Serial numbers:	A241020-11-001
Sample received date:	November 13, 2024
Date of test:	November 13, 2024 to December 10, 2024

1.2 Technical Specification

Frequency Range:	13.56 MHz ~ 13.56 MHz
Modulation:	ASK
Antenna gain:	PCB antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Note: Limit for 13.56MHz is 60.77 V/m

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

TEST REPORT**2.2 Assessment Results**

Power density (S) is calculated according to the formula:

$$S = P / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

R = distance (cm)

As we can see from the test report 2412B0311SHA-001:

45.7dBuV/m@3m, @20cm=@3m+40log(3/0.2)=92.74dBuV/m=0.043V/m<60.77V/m.

Therefore, the SAR requirement is deemed to be satisfied without test.

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

*****END*****