

# RF EXPOSURE REPORT

**Report No.:** 20250617G14590X-W4

**Product Name:** Patient Monitor

**Model No.:** CLEO2

**FCC ID:** 2A3S6-IMI451

**Applicant:** Infinium Medical Inc.

**Address:** 12151 62nd. Street N.Unit #5 Largo, FL, 33773 USA

**Dates of Testing:** 06/17/2025 - 06/23/2025

**Issued by:** CCIC Southern Testing Co., Ltd.

**Lab Location:** Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

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## Test Report

**Product** .....: Patient Monitor

**Trade Name** .....: **INFINIUM**

**Applicant** .....: Infinium Medical Inc.

**Applicant Address** .....: 12151 62nd. Street N.Unit #5 Largo, FL, 33773 USA

**Manufacturer** .....: Infinium Medical Inc.

**Manufacturer Address** .....: 12151 62nd. Street N.Unit #5 Largo, FL, 33773 USA

**Test Standards** .....: 47 CFR Part 2.1091

**Test Result** .....: Pass

**Tested by** .....:  2025.06.23

Chuiwang Zhang, Test Engineer

**Reviewed by** .....:  2025.06.23

Sun Jiaohui, Senior Engineer

**Approved by** .....:  2025.06.23

Chris You, Manager

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Change History		
Issue	Date	Reason for change
1.0	2025.06.23	First edition

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Patient Monitor
Model No.	CLEO2
Device Type	Fixed devices
Frequency Range	BLE WLAN 2.4 GHz 802.11b/g/n (HT20/HT40)
Modulation Type	DSSS (802.11b), OFDM (802.11g/n)
Antenna Type	Internal Antenna
Antenna Gain	3.24dBi

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

## 1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	OET Bulletin 65 Edition 97-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

## 1.3. Laboratory Facilities and Accreditation Certificate

### CCIC-SET Lab 1

Address: Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

### **FCC-Registration No.: CN1283**

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

### **ISED Registration: 11185A, CAB number: CN0064**

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

### **A2LA Code: 5721.01**

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

### **CNAS L1659**

CCIC Southern Testing Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

### CCIC-SET Lab 4

Address: No.125, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan City, Guangdong Province, China

### **CNAS L1659**

CCIC Southern Testing Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

## 2. Technical Requirements Specification in CFR Title 47 Part 2.1091

### 2.1. Evaluation method

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

**Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)**

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	< 6
3.0-30	1824/f	4.89/f	*(900/f <sup>2</sup> )	< 6
30-300	61.4	0.163	1.0	< 6
300-1500	/	/	f/300	< 6
1500-100,000	/	/	5	< 6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	< 30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	< 30
30-300	27.5	0.073	0.2	< 30
300-1500	/	/	f/1500	< 30
1500-100,000	/	/	1.0	< 30

Note: f = frequency in MHz. \* = Plane-wave equivalent power density.

### 2.2. Predication of MPE limit at a given distance

Refer to formulas on page 19 of OET Bulletin 65, Edition 97-01.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g., cm)

## 2.3. Evaluation Results

### Worst-Case mode Conducted Output Power Results for WLAN/BLE

Operation Mode	Frequency (MHz)	Maximum Output power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
WIFI 802.11b	2437	15.53	15±1	39.81
BLE	2440	4.806	4±1	3.16

### Calculation results: Worst-Case mode

Operation Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm2)	Power Density (mW/cm2)	Ratio
WIFI 802.11b	3.24	2.11	20	0.017	1.00	0.017
BLE	3.24	2.11	20	0.001	1.00	0.001

### Simultaneous Transmission Calculation (Worst-case mode)

No.	Transmitter Combinations	Scenario Supported or not
1	BLE + 2.4G WLAN	Yes

### Max Simultaneous Transmission Calculation (Worst-case mode)

No.	Worst Mode	MPE Ratio	Limit	Results
1	BLE + 2.4G WIFI	0.018	≤ 1.0	Pass

## 2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

\*\* END OF REPORT \*\*