



TEST REPORT

Report Reference No.....:	80260100024001	
Sample ID	BLC-01-0892449-011	
Date of issue	19/06/2026	
Total number of pages.....:	8	
Testing Laboratory.....:	TUV SUD South Asia Pvt Ltd	
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Applicant's name	Cardiac Design Labs Pvt Ltd	
Address.....:	#184, 2, Whitefield Main Rd, Whitefield, Bengaluru, Karnataka 560066	
Client Representative.....:	Praveen L Murthy	
Test specification Standard.....:	RF Exposure Report FCC 47 CFR Part 2.1093	
Test Method.....:	FCC KDB 447498	
Non-standard test method..... :	NA	
Test Report Form Number.....:	LAB_F(EE)_138-049	
Product Name.....:	Padma Rhythms	
Test Item Description.....:	2 channel continuous ECG recorder	
Manufacturer	Cardiac Design Labs Pvt Ltd	
Model Number.....:	PR01	
Serial Number.....:	CDLIN01232220019W	
Ratings.....:	6V DC through Battery	
FCC ID.....:	2BU3APADMAPRO1	
IC ID.....:	NA	
Prepared by (Name + Signature)	Nikhil G	
Reviewed & Approved by (Name + Signature)	Raghunath M N	

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Possible test case verdicts:

- test case does not apply to the test object: N/A
- test object does meet the requirement: Pass
- test object does not meet the requirement: Fail

Testing:

Condition of the EUT on Receipt.....: Good
Date of receipt of test item: 24/02/2025
Date (s) of performance of tests.....: 03/07/2025 to 10/09/2025

General remarks:

1. The submitted sample(s) were not drawn by laboratory.
2. The test results presented in this report relate only to the object tested.
3. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.
4. The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/E-mail is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.
5. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.
6. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
“(see Enclosure #)” refers to additional information appended to the report.
“(see appended table)” refers to a table appended to the report.
7. Throughout this report a point is used as the decimal separator.

Use of uncertainty of measurement for decisions on conformity (decision rule): Yes/No

☒ No decision rule is specified by the IEC/EN standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty (“simple acceptance” decision rule, previously known as “accuracy method”).

☐ Other: (to be specified)

Decisions on conformity: Decision on conformity of results is based on as per standard limits or criteria.

Summary of compliance: The Product comply with the requirements of FCC 47 CFR Part 2.1093

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Revision History of Records

Test Report Number	Version	Reason for Change	Date Issued
80260100024001	00	Initial Report	17/02/2026
80260100024001	01	TCB Comments	19/06/2026

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1 TEST SUMMARY

Sl.no	Protocol, Band (MHz)	FCC	Result
1.	BLE (2402MHz – 2483.5MHz)	FCC 47 CFR 2.1093, FCC KDB 447498 D01	PASS

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2 EQUIPMENT INFORMATION

2.1 Product Function

Padma Rhythms is a battery operated, 2 channel ECG Patch that is designed to continuously record, store, and transfer the ambulatory ECG data to the user's mobile phone via Bluetooth. The device does not perform analysis on the recorded ECG, but the data can be analyzed, reviewed, and reported by a trained technician or licensed healthcare practitioner manually using the software application provided with the device.

2.2 General Information of EUT

Table 1: EUT details as declared by client*

EUT Name	Padma Rhythms	
Protocol	BLE	
Operating Frequency Range	2402MHz – 2480MHz	
Channel Spacing	2MHz	
Environmental conditions	Storage	Temperature: +10°C to +27°C Humidity: 40% to 60% RH Atmospheric Pressure: 700 to 1060 hPa
	Operating	Temperature: +10°C to +40°C Humidity: 40% to 60% RH Atmospheric Pressure: 700 to 1060 hPa
Supply Voltage	6V DC through Battery	
Maximum Measured Power (dBm)	-2.7 dBm	
Modulation	GFSK	
Number of antennas	1	
Antenna Type	PCB Antenna	
Antenna Gain	-1dBi	
EUT Dimension (LxWxH)	123mm x 72mm x 10.3mm	

***Disclaimer:** The TÜV SÜD is not responsible for the accuracy of the customer declared specification.

Note:

Although the hardware platform supports IEEE 802.15.4 protocols, the client has declared that the Padma Rhythms firmware enables only Bluetooth Low Energy (BLE) functionality with GFSK modulation. Consequently, compliance testing has been performed exclusively for BLE operation.

3 RF EXPOSURE EVALUATION METHOD

3.1 FCC SAR TEST EXCLUSION EVALUATION

The corresponding SAR exclusion threshold condition, listed below:

- 1) 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: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0$ for 1-g SAR and ≤ 7.5 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 calculation.
 - 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 according to 5) in section 4.1 is applied to determine SAR test exclusion(447498 D01 General RF Exposure Guidance v06)
 - 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, at 100 MHz to 1500 MHz
 - $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$ at > 1500 MHz and ≤ 6 GHz
 - 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion,
 - The power threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm
 - The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm
- SAR measurement procedures are not established below 100 MHz When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

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Test Results:

Protocol: Bluetooth low energy (BLE)

Exclusion calculation considering measured maximum power excluding antenna gain

Antenna Gain: -1 dBi

Frequency (MHz)	Max.power (dBm)	Tune up value	Max.Power Including Tune-up Tolerance (dBm)	Max.Power Including Tune-up Tolerance (mW)	Minimum test separation distance (mm)	SAR Test Exclusion Calculation Values	1-g Extremity SAR Test exclusion Threshold
2480	-2.70	1	-1.70	0.677	6.6	0.162	3

Calculation:

$$\begin{aligned}\text{SAR Exclusion Value} &= \left(\frac{P_{\text{mW}}}{d_{\text{mm}}} \right) \times \sqrt{f_{\text{GHz}}} \\ &= (0.677/6.6) * (\sqrt{2.480}) \\ &= (0.1026) * (\sqrt{2.480}) \\ &= 0.162\end{aligned}$$

4 RESULTS SUMMARY

The Padma Rhythms (Model: PR01) a 2-channel continuous ECG recorder with BLE functionality operating in the 2402–2480 MHz band, was evaluated for RF exposure compliance in accordance with FCC 47 CFR 2.1093 and FCC KDB 447498 D01.

Based on the maximum measured output power of -2.7 dBm (including tune-up tolerance: -1.7 dBm) the calculated 1-g extremity SAR exclusion value was 0.162, which is well below the threshold limit of 3.0.

Therefore, standalone SAR testing is not required as the device qualifies for SAR test exclusion.

5 CONCLUSION

Based on the evaluation performed, Padma Rhythms complies with the RF exposure requirements of FCC 47 CFR Part 2.1093 and meets the applicable SAR test exclusion criteria as defined in FCC KDB 447498 D01.

The product is therefore considered compliant with the applicable FCC RF exposure requirements.

-----End of Report-----