

Test Report

Prepared for: Band Connect

Model: BCUE1

Project No: p25c0011

Serial Number: TST_RF_UFL_1, TST_RF_ANT_1

FCC ID: 2BVEW-BC1

To

FCC Part 1.1310

FCC Part 2.1093

447498 D04 Interim General RF Exposure Guidance v01

Date of Issue: February 20, 2026

On behalf of the applicant:

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Cincinnati, OH, 45202

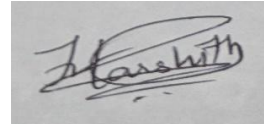
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Reviewed / Authorized By:



Harshith Devaraja
EMC Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	February 20, 2026	Harshith Devaraja	Original Document

Current revision of the test report replaces any prior versions. Only the current version of the test report is valid.

EUT Description

Model:	BCUE1
Serial:	TST RF UFL 1, TST RF ANT 1
Firmware: Application core	v11
Firmware: BLE module core	1.17.0
Description:	Health Monitoring therapy band
Additional Information:	Radio Frequency Range and Operational Info: 2.4 – 2.4835 GHz BLE GFSK (1Mbps & 2 Mbps) FCC Emission designator: 1M10F1D Antenna Gain = 1.95 dBi Usage: Portable
Receipt of Sample(s):	January 23, 2026
EUT Condition:	Visual Damage No State of Development Production/Production Equivalent

Power calculations

Antenna gain = 1.95 dBi

EIRP = Conducted peak power (dBm) + Antenna gain (dBi)

Tuned Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Peak Output Power (mW)	EIRP (dBm)	EIRP (mW)
2402	0.76	1.2	2.71	1.866
2440	1.70	1.5	3.65	2.317
2480	1.45	1.4	3.4	2.1877

MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

Limits Controlled Exposure 47 CFR 1.1310 Table 1, (A)

0.3-3.0 MHz:	Limit [mW/cm ²] = 100
3.0-30 MHz:	Limit [mW/cm ²] = (900/f ²)
30-300 MHz:	Limit [mW/cm ²] = 1.0
300-1500 MHz:	Limit [mW/cm ²] = f/300
1500-100,000 MHz	Limit [mW/cm ²] = 5

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	2440
Conducted peak Power, mW (P)	1.5
Antenna Gain Isotropic	1.95 dBi
Antenna Gain Numeric (G)	1.57
Distance (R)	0.5 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm ²

Power Density (S) = 0.7496 mw/cm ²
Limit = (from above table) = 1.0 mw/cm ²

Determination of Exemption 47 CFR 2.1093 (c)(1)

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$ERP_{20 \text{ cm}} = 3060 \text{ mW}$$

$$\text{Separation distance (d)} = 0.5 \text{ cm}$$

$$\text{Calculated } P_{th} = 2.753 \text{ mW}$$

Tuned Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Peak Output Power (mW)	EIRP (dBm)	EIRP (mW)	ERP=EIRP-2.15 (dBm)	ERP (mW)
2440	1.70	1.5	3.65	2.317	0.167	1.0392

$$ERP \text{ of the EUT} = 1.0392 \text{ mW}$$

$$ERP_{EUT} < \text{Calculated } P_{th}$$

Result:- Pass

The portable EUT is SAR test exempt.

END OF TEST REPORT