

## RF Exposure Evaluation Report

**Client:** Fireboard Labs LLC

**Address:** 501 Charlotte St  
Kansas City, MO 64106

**EUT:** FBWP

**FCC ID:** 2A29A-FBWP24  
**IC ID:** 27842-FBWP24

**Test Report No.:** R20240503-00-M1

**Approved By:**   
**Blake Winter,**  
EMC Test Engineer  
iNARTE EMC-50662-E

**Date:** August 27, 2024

**Total Pages:** 6

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## Revision Page

| Rev. No. | Date           | Description                                                     |
|----------|----------------|-----------------------------------------------------------------|
| 0        | 27 August 2024 | Issued by BWinter<br>Reviewed by KVepuri<br>Prepared by BWinter |

# 1 Regulatory Requirements:

FCC Part 1.1310, 2.1091, 2.1093  
KDB 447498 D01

## **Summary:**

The purpose of this report is to evaluate the EUT's transmitter for exemption from routine SAR testing.

## **EUT:**

Model:

FCC ID:

IC ID:

**FBWP**

**2A29A-FBWP24**

**27842-FBWP24**

MPE Lab

MPE Labs FCC Cab Designation:

MPE Labs ISED Cab Designation:

Nebraska Center for Excellence in Electronics

US1060

US0177

## 2 FCC Limits, Part 1.1310

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposure</b>         |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *100                                | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *900/f <sup>2</sup>                 | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1,500                                                      |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                                  |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                       |
| 300-1,500                                                      |                               |                               | f/1500                              | 30                       |
| 1,500-100,000                                                  |                               |                               | 1.0                                 | 30                       |

### **Calculations:**

The sum of the maximum time-averaged power of the two sources in this device is less than 1mW per 1.1307(b)(3)(ii)(A).

### **EUT**

| FCC maximum time-averaged power Calculations |                 |                                    |                   |            |               |                   |        |
|----------------------------------------------|-----------------|------------------------------------|-------------------|------------|---------------|-------------------|--------|
| Freq.                                        | Peak Power EIRP | Peak Power EIRP +10% for Tolerance | On time per cycle | Cycle Time | Average Power | Average Power Sum | Result |
| MHz                                          | mW              | mW                                 | Seconds           | Seconds    | mW            | mW                |        |
| 912.00                                       | 1.84            | 2.02                               | 0.06              | 20         | 0.0061        | 0.3261            | PASS   |
| 2402                                         | 0.29            | 0.32                               | NA                | NA         | 0.32          |                   |        |

### **Result:**

The EUT was found to be exempt from routine SAR testing and **COMPLIANT** with RF exposure requirements.

**Result:**  
**Complies**

**REPORT END**