



## WHERE Inc.

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January 7, 2021

Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554  
Phone: 888-CALL-FCC (225-5322)

### **Re: RF Exposure Technical Brief for FCC**

To Whom It May Concern:

We, WHERE, Inc., hereby declare that the following product complies with Maximum Permissible Exposure limits set forth in FCC Part 1, section 1.1310, Table 1 "(B) Limits for General Population/Uncontrolled Exposure."

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Applicant: WHERE, Inc.

Product Description: BLE module

Model Name: EYWHANAWZ

FCC ID: 2AV6HEYWHANAWZ

FRN Number: 0029455953

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#### 1. Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|-----------------------|-------------------------------------|--------------------------|
| 1,500-100,000         | <b>1.0</b>                          | 30                       |

## 2. RF Exposure Calculations

$$S = PG / 4 \pi D^2$$

S: Power density (W/m<sup>2</sup>)

P: Peak output power (W)

G: Antenna gain (isotropic)

D: Measurement distance (m)

Where:

P = 4.38 dBm

G = 0.9 dBi

D = 0.2 m

Therefore:

$$S(W/m^2) = \frac{(10^{\frac{4.38}{10}} \times 10^{-3} \times 10^{10})}{4 \times \pi \times 0.2 \times 0.2} = 0.0067$$

$$S \doteq 0.00067 \text{ (mW/cm}^2\text{)}$$

This would be less than 1 mW/cm<sup>2</sup> when the separation distance between the user and the device's radiating element is no less than 20cm.

Sincerely,



Nobuyuki Akazawa

Manager