

## MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

**Applicant:** Anker Innovations Limited

**Address:** Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

**Product Name:** eufy Radar Motion Sensor

**FCC ID:** 2AOKB-T8C00

**Standard(s):** 47 CFR §1.1310, 47 CFR §2.1091,  
47 CFR §15.247(i), FCC §15.255(g)

**Report Number:** 2502U65913E-RF-00E

**Report Date:** 2025/7/14

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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**DOCUMENT REVISION HISTORY**

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2502U65913E-RF-00E | Original Report         | 2025/7/14        |

## 1. GENERAL INFORMATION

### 1.1 General Description Of Equipment under Test

|                             |                          |
|-----------------------------|--------------------------|
| <b>EUT Name:</b>            | eufy Radar Motion Sensor |
| <b>EUT Model:</b>           | T8C00                    |
| <b>Rated Input Voltage:</b> | DC 5V from USB           |
| <b>EUT Received Date:</b>   | 2025/6/24                |
| <b>EUT Received Status:</b> | Good                     |

## 2.RF EXPOSURE EVALUATION (MPE)

### 2.1. RF Exposure Evaluation

#### 2.1.1 Applicable Standard

According to subpart 15.247(i), FCC §15.255(g) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz)                                   | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minutes) |
| 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                       |

f = frequency in MHz; \* = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

#### 2.1.2 Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$  = 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 = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

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

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

#### 2.1.3 Calculated Data:

| Operation Modes | Frequency (MHz) | Antenna Gain <sup>▲</sup> |           | Conducted output power including Tune-up Tolerance <sup>▲</sup> |        | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|-----------------|-----------------|---------------------------|-----------|-----------------------------------------------------------------|--------|--------------------------|-------------------------------------|---------------------------------|
|                 |                 | (dBi)                     | (numeric) | (dBm)                                                           | (mW)   |                          |                                     |                                 |
| BLE             | 2402-2480       | 3.02                      | 2.00      | 6.5                                                             | 4.47   | 20.00                    | 0.002                               | 1.0                             |
| 2.4G Wifi       | 2412-2462       | 3.02                      | 2.00      | 25.5                                                            | 354.81 | 20.00                    | 0.142                               | 1.0                             |
| 60G Radar       | 60536.6-63207.2 | 7.24                      | 5.30      | 10.26                                                           | 10.62  | 20.00                    | 0.011                               | 1.0                             |

Note:

60G Radar EIRP is 17.5dBm, Maximum Conducted Power=17.5-7.24=10.26dBm

Maximum Conducted Power (dBm)=EIRP(dBm)-Gain(dBi)

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

**For Simultaneous transmission:**

2.4G Wifi and BLE can't transmit simultaneously, but 2.4G Wifi or BLE can transmit simultaneously with 60G Radar:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{2.4G\ Wifi} / S_{limit-2.4G\ Wifi} + S_{60G\ Radar} / S_{limit-60G\ Radar}$$

$$= 0.142 / 1.0 + 0.011 / 1.0$$

$$= 0.153$$

$$< 1.0$$

**Result:** The device meet FCC MPE at 20 cm distance

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2502U65913E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502U65913E-RF-INP EUT INTERNAL PHOTOGRAPHS.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***