

## 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:** eufyCam S4

**FCC ID:** 2AOKB-T8172

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

**Report Number:** 2502U64588E-RF-00E

**Report Date:** 2025/7/26

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

*Alice Tan*

*Pedro Yun*

**Reviewed By:** Alice Tan

Title: RF Engineer

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**DOCUMENT REVISION HISTORY**

<b>Revision Number</b>	<b>Report Number</b>	<b>Description of Revision</b>	<b>Date of Revision</b>
1.0	2502U64588E-RF-00E	Original Report	2025/7/26

## 1. GENERAL INFORMATION

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### 1.1 General Description Of Equipment under Test

<b>EUT Name:</b>	eufyCam S4
<b>EUT Model:</b>	T8172
<b>Rated Input Voltage:</b>	3.6Vdc from battery or 5Vdc from USB
<b>EUT Received Date:</b>	2025/6/16
<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>(B) Limits for General Population/Uncontrolled Exposure</b>				
<b>Frequency Range (MHz)</b>	<b>Electric Field Strength (V/m)</b>	<b>Magnetic Field Strength (A/m)</b>	<b>Power Density (mW/cm<sup>2</sup>)</b>	<b>Averaging Time (minutes)</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
300–1500	/	/	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	4.05	2.54	7.0	5.01	20.00	0.003	1.0
2.4G Wifi	2412-2462	4.05	2.54	25.0	316.23	20.00	0.160	1.0
60G Radar	60536.4-62671.9	7.43	5.53	9.67	9.27	20.00	0.010	1.0

Note:

60G Radar EIRP is 17.1dBm, Maximum Conducted Power=17.1-7.43=9.67dBm

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:

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

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

$$= 0.160/1.0 + 0.010/1.0$$

$$= 0.17$$

$$< 1.0$$

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

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2502U64588E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502U64588E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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