

Maximum Permissible Exposure Report

Product : AUGi Gem
Model Name : IN6A008
FCC ID : 2BNIV-GEM-1
Test Regulation : 47 CFR FCC Part 2.1091
Received Date : 2025/3/10
Test Date : 2025/3/11 ~ 2025/3/28
Issued Date : 2025/4/15
Applicant : All Inspire Health
19 Morris Avenue, Building 128, Brooklyn, NY 11205
Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report are responsible of the test sample(s) provided by the client only and are not to be used to indicate applicability to other similar products.

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Doc No: Form-ULID-004725 (DCS:17-EM-F0864) / 6.0



Test report No. : 4791618243CA-US-R5-V0
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FCC ID : 2BNIV-GEM-1

REVISION HISTORY

Original Test Report No.: 4791618243CA-US-R5-V0

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1. Attestation of Test Results

APPLICANT: All Inspire Health
 19 Morris Avenue, Building 128, Brooklyn, NY 11205

MANUFACTURER: InnoComm Mobile Technology Corporation
 3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 300092,
 Taiwan

EUT DESCRIPTION: AUGi Gem

BRAND: All Inspire Health

MODEL: IN6A008

SAMPLE STAGE: Engineering Verification Test Sample

APPLICABLE STANDARDS

STANDARD	Test Results
47 CFR FCC Part 2.1091	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:


 Cindy Hsin
 Project Handler

Date : 2025/4/15

Approved and Authorized By:


 Eric Lee
 Senior Laboratory Engineer

Date : 2025/4/15

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2. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01.

3. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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4. Equipment Under Test

4.1. Description of EUT

Product	AUGi Gem
Brand Name	All Inspire Health
Model Name	IN6A008
Normal Voltage	12Vdc from AC Adapter 3.2Vdc from Battery

Operating Frequency	BT EDR: 2402MHz ~ 2480MHz BT LE: 2402MHz ~ 2480MHz 2.4G WiFi: 2412MHz ~ 2462MHz 5G WiFi: 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
Sample ID	Conducted Test:7980205 Radiated Test:7980206

Note:

1. For this report measurement uncertainty, statement of conformity, determining compliance, it is necessary to refer to the original measurement report of EUT.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.
3. The EUT contains three modules, namely module 1 (BT+WLAN 2.4GHz+WLAN 5GHz), module 2 (BLE), and module 3 (LoRa).

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4.2. Description of Available Antennas

Module 1

Ant. No.	Transmitter Circuit	Frequency Range	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type
WIFI 1	Chain0	2402~2480MHz	AWAN	Vision_WLAN	2.29	Dipole
WIFI 1	Chain0	4910~5850MHz	AWAN	Vision_WLAN	2.51	Dipole
WIFI 2	Chain1	2402~2480MHz	AWAN	Vision_WLAN	2.2	Dipole
WIFI 2	Chain1	4910~5850MHz	AWAN	Vision_WLAN	2.39	Dipole

Module 2

Ant. No.	Transmitter Circuit	Frequency Range	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type
BLE 1	Chain0	2402MHz ~ 2480MHz	AWAN	Vision_BLE	3.01	Patch

Module 3

Ant. No.	Transmitter Circuit	Frequency Range	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type
LoRa 1	Chain0	914.2MHz	AWAN	Vision_Lora	1.04	Monopole

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

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5. Requirement

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Power Density (S) is calculated by the following formula:

$$S = (P * G) / 4\pi R^2$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

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

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6. General RF Exposure Test Exemption

The corresponding Exclusion Threshold condition, listed below:

- 1) Blanket Exempt: Following 47 CFR 1.1307(b)(3)(i)(A), the available maximum time-averaged power is no more than 1 mW.
- 2) SAR Exempt: Following 47 CFR 1.1307(b)(3)(i)(B), the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

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

and

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

d = the separation distance (cm);

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3) MPE Exempt: Following 47 CFR 1.1307(b)(3)(i)(C), using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to [§ 1.1307\(b\)\(3\)\(i\)\(C\)](#) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

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7. Radio Frequency Radiation Exposure Evaluation

(1) General RF Exposure Test Exemption

Option	Evaluation Method	Clause
<input type="checkbox"/>	Blanket Exempt	47 CFR 1.1307(b)(3)(i)(A)
<input type="checkbox"/>	SAR Exempt	47 CFR 1.1307(b)(3)(i)(B)
<input checked="" type="checkbox"/>	MPE Exempt	47 CFR 1.1307(b)(3)(i)(C)

LoRa

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
903~914.2	0.0529	0.2	14.29	0.027	0.768

Note:

1. $\lambda(m) = 3*10^8 \text{ (m/s)} / \text{frequency (Hz)}$
2. Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) -2.15
3. Max. ERP (W) = $10^{(\text{Max. ERP (dBm)} / 10)} / 1000$
4. Threshold ERP (W) (RF Source Frequency 1500 – 100000 MHz) = $19.2 R^2$

Bluetooth EDR

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
2402 ~ 2480	0.0199	0.2	9.24	0.008	0.768

Note:

5. $\lambda(m) = 3*10^8 \text{ (m/s)} / \text{frequency (Hz)}$
6. Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) -2.15
7. Max. ERP (W) = $10^{(\text{Max. ERP (dBm)} / 10)} / 1000$
8. Threshold ERP (W) (RF Source Frequency 1500 – 100000 MHz) = $19.2 R^2$

Bluetooth LE

Module 1

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
2402 ~ 2480	0.0199	0.2	9.11	0.008	0.768

Module 2

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
2402 ~ 2480	0.0199	0.2	11.32	0.014	0.768

Note:

1. $\lambda(m) = 3*10^8 \text{ (m/s)} / \text{frequency (Hz)}$
2. Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) -2.15
3. Max. ERP (W) = $10^{(\text{Max. ERP (dBm)} / 10)} / 1000$
4. Threshold ERP (W) (RF Source Frequency 1500 – 100000 MHz) = $19.2 R^2$

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WLAN 2.4GHz

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
2412 ~ 2462	0.0198	0.2	22.44	0.175	0.768

Note:

1. $\lambda(m) = 3*10^8 \text{ (m/s)} / \text{frequency (Hz)}$
2. Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) -2.15
3. Max. ERP (W) = $10^{(\text{Max. ERP (dBm)} / 10)} / 1000$
4. Threshold ERP (W) (RF Source Frequency 1500 – 100000 MHz) = $19.2 R^2$

WLAN 5GHz

Evaluation Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Max. ERP (dBm)	Max. ERP (W)	Threshold ERP (W)
5180 ~ 5240	0.0092	0.2	20.58	0.114	0.768
5260 ~ 5320	0.0091	0.2	20.43	0.11	0.768
5500 ~ 5700	0.0087	0.2	21.24	0.133	0.768
5745 ~ 5825	0.0084	0.2	20.86	0.122	0.768

Note:

1. $\lambda(m) = 3*10^8 \text{ (m/s)} / \text{frequency (Hz)}$
2. Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) -2.15
3. Max. ERP (W) = $10^{(\text{Max. ERP (dBm)} / 10)} / 1000$
4. Threshold ERP (W) (RF Source Frequency 1500 – 100000 MHz) = $19.2 R^2$

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(2) Simultaneously transmission condition:

Condition	Technology				Module 2	Module 3
	Module 1		WLAN (2.4GHz)	WLAN (5GHz)		
1	BT	WLAN (2.4GHz)	WLAN (5GHz)	BLE	LoRa	

Condition 1	R	Max. ERP	Threshold ERP	Transmit Simultaneously	Transmit Simultaneously Limit
	(m)	(W)	(W)		
LoRa	0.2	14.29	0.03	0.465	≤ 1
BT-EDR	0.2	9.24	0.008		
BT-LE	0.2	11.32	0.01		
WLAN (2.4GHz)	0.2	22.44	0.175		
WLAN (5GHz)	0.2	21.24	0.133		

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

END OF REPORT

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