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RF Exposure Evaluation Report

Report No.: CQASZ20250601449E-03
Applicant: Shenzhen Jinmeiyi Technology Co.,Ltd.
Address of Applicant: Floor 2, Building 1, Baoli Industrial Zone, Longgang District, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Wireless carplay and android auto adapter
Model No.: CA-15, CA-16, CA-20, CA-13, CA-25, CA-26, CA-27, CA-28, CA-29, CA-30
Test Model No.: CA-19
Brand Name: N/A
FCC ID: 2BG4C-CA-19
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2025-06-27
Date of Test: 2025-06-27 to 2025-07-08
Date of Issue: 2025-06-27
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Timo Lei

(Timo Lei)

Approved By: Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

| Report No. | Version | Description | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20250601449E-03 | Rev.01 | Initial report | 2025-07-23 |

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3 General Information

3.1 Client Information

| | |
|--------------------------|---|
| Applicant: | Shenzhen Jinmeiyi Technology Co.,Ltd. |
| Address of Applicant: | Floor 2, Building 1, Baoli Industrial Zone, Longgang District, Shenzhen, Guangdong, China |
| Manufacturer: | Shenzhen Jinmeiyi Technology Co.,Ltd. |
| Address of Manufacturer: | Floor 2, Building 1, Baoli Industrial Zone, Longgang District, Shenzhen, Guangdong, China |
| Factory: | Shenzhen Jinmeiyi Technology Co.,Ltd. |
| Address of Factory: | Floor 2, Building 1, Baoli Industrial Zone, Longgang District, Shenzhen, Guangdong, China |

3.2 General Description of EUT

| | |
|-------------------|--|
| Product Name: | Wireless carplay and android auto adapter |
| Model No.: | CA-15, CA-16, CA-20, CA-13, CA-25, CA-26, CA-27, CA-28, CA-29, CA-30 |
| Test Model No.: | CA-19 |
| Trade Mark: | N/A |
| Software Version: | V1.0 |
| Hardware Version: | V1.0 |
| EUT Power Supply: | Power supply DC5V |

3.3 General Description of BLE

| | |
|-----------------------|--|
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | Bluetooth Spec 5.0 |
| Modulation Type: | GFSK |
| Number of Channel: | 40 |
| Transfer Rate: | 1Mbps |
| Hopping Channel Type: | Adaptive Frequency Hopping systems |
| Sample Type: | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable |
| Antenna Type: | PCB antenna |
| Antenna Gain: | 4.29dBi |

3.4 General Description of 5G WIFI Classic

| | |
|----------------------|--|
| Operation Frequency: | 5150MHz ~5250 MHz |
| Type of Modulation: | OFDM |
| Number of Channel: | IEEE 802.11a/ac(20M): 5150MHz ~5250MHz/ 4 channel |
| Channel Separation: | 5MHz |
| Operation Frequency: | IEEE 802.11a/ac(20M): 5150MHz ~5250 MHz |
| Sample Type: | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable |
| Antenna Type: | PCB antenna |
| Antenna Gain: | 0.6dBi |

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda /2 \pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

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

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only 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).

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure**1) For BLE****Measurement Data**

| GFSK mode | | | | |
|--------------|-------------------------|-----------------------|---------------|--------------|
| Test channel | Max.Peak Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | ERP (dBm) |
| 2480MHz | -0.78 | 4.29 | 3.51 | 1.36 |

| Tune-up | | |
|----------------------------|-----------------------|------|
| Tune up tolerance (dBm) | Maximum tune-up Power | |
| | (dBm) | (mW) |
| 1.5±1 | 2.5 | 1.78 |

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250601449E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

2) For 5G WIFI Classic**Measurement Data**

| GFSK mode | | | | |
|--------------|-------------------------|-----------------------|---------------|--------------|
| Test channel | Max.Peak Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | ERP (dBm) |
| 5240MHz | 10.43 | 0.6 | 11.03 | 8.88 |

| Tune-up | | |
|----------------------------|-----------------------|------|
| Tune up tolerance (dBm) | Maximum tune-up Power | |
| | (dBm) | (mW) |
| 9.0±1 | 10 | 10 |

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250601449E-02 for EUT test Max Conducted AV Output Power value.
2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***