

RF Exposure Evaluation Report

Product : PETBRICK 65
Trade mark : N/A
Model/Type reference : DR002
Serial Number : N/A
Report Number : EED32Q81668003
FCC ID : 2A3FY-DR002
Date of Issue : Dec, 02, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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1 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
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3 General Information

3.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Angry Miao Technology Co., Limited |
| Address of Applicant: | 2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town Xiangzhou District, Zhuhai China |
| Manufacturer: | Angry Miao Technology Co., Limited |
| Address of Manufacturer: | 2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town Xiangzhou District, Zhuhai China |
| Factory: | Angry Miao Technology Co., Limited |
| Address of Factory: | 2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town Xiangzhou District, Zhuhai China |

3.2 General Description of EUT

| | |
|-----------------|-------------|
| Product Name: | PETBRICK 65 |
| Model No.(EUT): | DR002 |
| Trade Mark: | N/A |

3.3 Product Specification subjective to this standard

| | | |
|---|--------------------------------|---------|
| Frequency Range: | 2402MHz~2480MHz | |
| Modulation Type: | BLE: GFSK 2.4G: GFSK | |
| Test Power Grade: | Default | |
| Test Software of EUT: | BLE: nRF_DTM, 2.4G: RF TEST | |
| Antenna Type: | PIFA Antenna | |
| Antenna Gain: | 0.44dBi | |
| Power Supply: | USB port: | DC 5V |
| | Battery: | DC 3.8V |
| Sample Received Date: | Nov. 08, 2024 | |
| Sample tested Date: | Nov. 08, 2024 to Nov. 23, 2024 | |
| Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. | | |

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

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 Evaluation

For Stand alone:

For BLE

| Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|-----------------|--------------------------|-----------------------------------|--------------------|-----------|----------|------------|-----------|--------|
| 2480 | 0.5 | 2.77 | 0.4400 | 1.35 | 1.2764 | 2.7172 | 0.4697 | Pass |

For 2.4G

| Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|-----------------|--------------------------|-----------------------------------|--------------------|-----------|----------|------------|-----------|--------|
| 2402 | 0.5 | -1.63 | 0.4400 | -3.34 | 0.4634 | 2.7877 | 0.1662 | Pass |

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32Q81668001, EED32Q81668002 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***