

RF Exposure Evaluation Report

Product : Car Amplifier
Trade mark : Rockford Fosgate
Model/Type reference : TMA-1000X4i
Serial Number : N/A
Report Number : EED32R81285102
FCC ID : 2AA7STMA-1000X4I
Date of Issue : Nov. 19, 2025
Test Standards :
47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Rockford Corporation
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Prepared by:

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2 General Information

2.1 Client Information

Applicant:	Rockford Corporation
Address of Applicant:	600 S Rockford Dr, Tempe, AZ 85281, USA
Manufacturer:	DAINTY & GEMMY TECHNOLOGY VIET NAM CO.,LTD.
Address of Manufacturer:	(Lot B2-2 Cong Hoa Industrial park, Tran Hung Dao Ward, Hai Phong City, Viet Nam)
Factory:	DAINTY & GEMMY TECHNOLOGY VIET NAM CO.,LTD.
Address of Factory:	(Lot B2-2 Cong Hoa Industrial park, Tran Hung Dao Ward, Hai Phong City, Viet Nam)

2.2 General Description of EUT

Product Name:	Car Amplifier
Model No.:	TMA-1000X4i
Test Model No.:	TMA-1000X4i
Trade mark:	Rockford Fosgate

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz
Modulation Type:	BLE: GFSK
Test Power Grade:	Default
Test Software of EUT:	ESP32-S3
Antenna Type:	PCB antenna
Antenna Gain:	4.54 dBi
Power Supply:	DC 12V
Sample Received Date:	Aug. 22, 2025
Sample tested Date:	Aug. 22, 2025 to Sep. 02, 2025

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 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 Pth (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). Pth 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 ERP20cm 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.

3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio
@2.4GHz	20	8.17	4.54	10.56	11.3763	3060	0.0037

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 20cm or 0.5cm;
- ⑥ The test data please refer to the report of EED32R81285101 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, 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. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***