

RF Exposure Evaluation Report

Product : Data Collector
Trade mark : CMCID
Model/Type reference : CMC718S
Serial Number : N/A
Report Number : EED32R82246504
FCC ID : 2BUJS-CMC718S
Date of Issue : Jan. 23, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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2 General Information

2.1 Client Information

Applicant:	FUTAIHUA INDUSTRIAL (SHENZHEN) CO., LTD.
Address of Applicant:	Room 301, Building C32, Hongguan Complex Building, No. 1502, Guanguang Road, Xingfu Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer:	FUTAIHUA INDUSTRIAL (SHENZHEN) CO., LTD.
Address of Manufacturer:	Room 301, Building C32, Hongguan Complex Building, No. 1502, Guanguang Road, Xingfu Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, China
Factory:	FUTAIHUA INDUSTRIAL (SHENZHEN) CO., LTD.
Address of Factory:	Room 301, Building C32, Hongguan Complex Building, No. 1502, Guanguang Road, Xingfu Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, China

2.2 General Description of EUT

Product Name:	Data Collector
Model No.(EUT):	CMC718S
Trade Mark:	CMCID

2.3 Product Specification subjective to this standard

Frequency Range:	2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-1: 5250-5350MHz U-NII-1: 5550-5700MHz(except 5600-5675MHz) U-NII-3:5745-5825MHz
Modulation Type:	2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Test Power Grade:	Default
Test Software of EUT:	AmebaDPlus_MP_tool
Antenna Type:	Rod antenna
Antenna Gain:	2.4G Wi-Fi: 2.33dBi 5G Wi-Fi: U-NII-1: 2.91dBi U-NII-2A: 3.00dBi U-NII-2C: 3.79dBi U-NII-3: 5.33dBi
Power Supply:	Adapter: Model: DF10A-050200-USz Input: AC 100V-240V 50-60Hz 0.35A

	Output: DC 5.0V 2A
Sample Received Date:	Nov. 20, 2025
Sample tested Date:	Jan. 5, 2026 to Jan. 19, 2026

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 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.

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:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2.4G Wi-Fi	20	13.9	2.33	14.08	25.59	3060.00	0.0084	Pass
5G Wi-Fi U-NII-1	20	13.94	2.91	14.70	29.51	3060.00	0.0096	Pass
5G Wi-Fi U-NII-2A	20	13.64	3.00	14.49	28.12	3060.00	0.0092	Pass
5G Wi-Fi U-NII-2C	20	13.48	3.79	15.12	32.51	3060.00	0.0106	Pass
5G Wi-Fi U-NII-3	20	13.17	5.33	16.35	43.15	3060.00	0.0141	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 20cm;
- ⑥ The test data please refer to the report of EED32R82246501, EED32R82246502 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (2.4G Wi-Fi+5G Wi-Fi)=0.0084+0.0141=0.0225 < 1, it's deemed to fulfil the RF exposure requirement.

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 ***