

MRT Technology (Taiwan) Co., Ltd

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RF Exposure Evaluation

FCC ID : Z9G-EDF222

APPLICANT: Edifier International Limited

Product: True Wireless Earbuds with Active Noise Cancellation

Model No. : EDF200136

Brand Name : EDIFIER

FCC Rule Part(s): Part 2.1093 (Portable)

Received Date : November 24, 2023

Tested By : Kaunaz Lee

(Kaunaz Lee)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : any ker

(Chenz Ker)





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

| Report No. | Version | Description | Issue Date | Note |
|---------------|---------|-----------------|------------|------|
| 2311TW0118-U4 | 1.0 | Original Report | 2023-12-12 | |

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1. PRODUCT INFORMATION

1.1. Equipment Description

| Product Name | True Wireless Earbuds with Active Noise Cancellation | | | |
|-----------------------|--|--|--|--|
| Model No. | EDF200136 | | | |
| Brand Name | EDIFIER | | | |
| Curporto Dodino Cros | WPAN: | | | |
| Supports Radios Spec. | Bluetooth Dual Mode | | | |
| Accessory | | | | |
| | Brand: EDIFIER | | | |
| USB CABLE | Model No: EDF200136 | | | |
| | Length: 0.5m | | | |

Note: This headset has left and right ear, and their radio frequency layouts are identical.

1.2. Antenna Description

| No. | Brand | Part No. | Antenna Type | Peak Gain |
|-----|--------|---------------|--------------|-----------|
| 1 | Cicent | FPC antenna-L | FPC | -2.82dBi |
| 2 | Cicent | FPC antenna-R | FPC | -3.13dBi |

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2. RF Exposure Evaluation

2.1. FCC Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

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 .

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

where

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

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

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

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

| | | | | 1 | Dis | stance | (mm) | , | · | | |
|-----------|------|----|----|------|-----|--------|------|-----|-----|-----|-----|
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| (z) | 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| (MHz) | 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| | 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| Frequency | 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| edn | 2450 | 3 | 10 | _ 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| Fr | 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| | 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.



2.2. Test Result of RF Exposure Evaluation

| Mode | Frequency Band (MHz) | Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | EIRP (mW) | FCC SAR Test Exclusion Threshold (mW) |
|--------|----------------------------|--------------------------|-------------------------|--------------------------|--------------|---------------------------------------|
| BT/BLE | 2402~2480 | 1.73 | 1.49 | -2.82 | 0.78 | 3 |

| 50, this device can compiles the SAR test exclusion. | • |
|--|---|
| | |
| ———— The End | |