

## RF Exposure Report

**Report No.:** SA190807C14B-2

**FCC ID:** I4L-BM25SD

**Test Model:** MS-5776-A-H

**Received Date:** Aug. 16, 2019

**Date of Evaluation:** Sep. 10, 2019

**Issued Date:** Sep. 16, 2019

**Applicant:** Micro Star International Co., Ltd.

**Address:** No. 69, Li-De Street, Jung He City, Taipei Hsien, R.O.C. TAIWAN

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

**FCC Registration /**  
**Designation Number:** 788550 / TW0003



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### Release Control Record

| Issue No.      | Description      | Date Issued   |
|----------------|------------------|---------------|
| SA190807C14B-2 | Original Release | Sep. 16, 2019 |

## 1 Certificate of Conformity

**Product:** Edge Computing Gateway

**Brand:** Conexio

**Test Model:** MS-5776-A-H

**Sample Status:** Mass Product

**Applicant:** Micro Star International Co., Ltd.

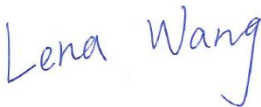
**Date of Evaluation:** Sep. 10, 2019

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

  
**Prepared by :** \_\_\_\_\_, **Date:** Sep. 16, 2019  
Lena Wang / Specialist

  
**Approved by :** \_\_\_\_\_, **Date:** Sep. 16, 2019  
Dylan Chiou / Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

| Frequency Range (MHz)                                 | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time (minutes) |
|-------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| Limits For General Population / Uncontrolled Exposure |                               |                               |                                     |                        |
| 0.3-1.34                                              | 614                           | 1.63                          | (100)*                              | 30                     |
| 1.34-30                                               | 824/f                         | 2.19/f                        | (180/f <sup>2</sup> )*              | 30                     |
| 30-300                                                | 27.5                          | 0.073                         | 0.2                                 | 30                     |
| 300-1500                                              | ...                           | ...                           | f/1500                              | 30                     |
| 1500-100,000                                          | ...                           | ...                           | 1.0                                 | 30                     |

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$r$  = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.  
So, this device is classified as **Mobile Device**.

## 2.4 Antenna Gain

### WLAN Antenna

| Antenna Type   | Manufacturer | Model                   | Antenna Gain (dBi) |         |
|----------------|--------------|-------------------------|--------------------|---------|
|                |              |                         | BT / WLAN 2.4G     | WLAN 5G |
| Couple antenna | INPAQ        | GNCLTEWIFI36U5W-S3-07-A | 0.78               | -0.45   |

## 2.5 Calculation Result of Maximum Conducted Power

### <WLAN Antenna >

| Band | Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|------|----------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN | 2412-2462            | 23.44           | 0.78               | 20            | 0.053                               | 1.00                        |
|      | 5180-5240            | 17.80           | -0.45              | 20            | 0.011                               | 1.00                        |
|      | 5260-5320            | 17.92           | -0.45              | 20            | 0.011                               | 1.00                        |
|      | 5500-5700            | 17.83           | -0.45              | 20            | 0.011                               | 1.00                        |
|      | 5745-5825            | 17.98           | -0.45              | 20            | 0.011                               | 1.00                        |
| BT   | 2402-2480            | 5.86            | 0.78               | 20            | 0.001                               | 1.00                        |

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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