

## RF Exposure Report

**Report No.:** SA190807C14B

**FCC ID:** 2AUBP-5776AH

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

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

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

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

**Applicant:** Conexio Corporation

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**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	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:** Conexio Corporation

**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

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = 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

### WWAN Antenna

	Antenna Type	Manufacturer	Model	Antenna Gain (dBi)			
				WCDMA II / LTE 2	WCDMA V	LTE 4	LTE 12
Antenna 1	Dipole Internal	INPAQ	DAM-E2-V1-N0-000-08-1	2.01	0.87	2.53	1.81
Antenna 2	LTE Main : Monopole Antenna LTE Aux : Couple Antenna	INPAQ	GNCLTEWIFI36U5W-S3-07-A	1.87	-0.1	1.44	1.79

## 2.5 Calculation Result of Maximum Conducted Power

### <WWAN Antenna No.1>

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> )
WCDMA II	1850-1910	25	2.01	20	0.1	1.00
WCDMA V	824-849	25	0.87	20	0.077	0.55
LTE 2	1850-1910	25.7	2.01	20	0.117	1.00
LTE 4	1710-1755	25.7	2.53	20	0.132	1.00
LTE 12	699-716	25.7	1.81	20	0.112	0.47

### <WWAN Antenna No.2>

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> )
WCDMA II	1850-1910	25	1.87	20	0.097	1.00
WCDMA V	824-849	25	-0.1	20	0.061	0.55
LTE 2	1850-1910	25.7	1.87	20	0.114	1.00
LTE 4	1710-1755	25.7	1.44	20	0.103	1.00
LTE 12	699-716	25.7	1.79	20	0.112	0.47

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Above use Max. Output Power is Max. Tune-up Power.

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