

RF Exposure Report

Report No.: SABDBO-WTW-P20090055A

FCC ID: P4Q-N594

Test Model: N594

Received Date: 2021/8/23

Test Date: 2021/9/2 ~2021/9/6

Issued Date: 2021/9/16

Applicant: MiTAC Digital Technology Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Release Control Record

| Issue No. | Description | Date Issued |
|-----------------------|-------------------|-------------|
| SABDBO-WTW-P20090055A | Original release. | 2021/9/16 |

1 Certificate of Conformity

Product: Driving Recorder

Brand: Mio

Test Model: N594

Sample Status: Engineering sample

Applicant: MiTAC Digital Technology Corporation

Test Date: 2021/9/2 ~2021/9/6

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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: 2021/9/16

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Approved by :



, Date: 2021/9/16

Rex Lai / Associate Technical Manager

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 ²) | 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 ²)* | 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/cm²

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

| Function | Frequency (MHz) | Peak Gain (dBi) | Antenna Type | Connector |
|----------|-----------------|-----------------|--------------|-----------|
| WLAN | 2412-2462 | -1.58 | PIFA | N/A |

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.5 Calculation Result Of Maximum Conducted Power

| Function | Frequency Band (MHz) | Max AV Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) |
|----------|----------------------|--------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN | 2412-2462 | 14.46 | -1.58 | 20 | 0.0039 | 1 |

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

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