



CMA Testing and Certification Laboratories

廠商會檢定中心

RF EXPOSURE EVALUATION

Report No. : AW0024544(5) Date: Apr 25, 2018

Application No. : LW005460(4)

Applicant : Origami Group Limited

Sample Description : One(1) item of submitted sample stated to be

Product Description : ORII Voice Assistant Smart Ring

Model : 1001

Sample registration No. : RW009341

Radio Frequency : 2402 – 2480MHz

Supply voltage : DC 3.7V (Li-ion Rechargeable battery)
DC 5.0V (charging docking)

No. of submitted sample : 2

FCC ID : 2AOJQ1001

Date Received : Feburary 22, 2018

Evaluation Period : March 8, 2018 – April 18, 2018

Evaluation Method : 447498 D01 General RF Exposure Guidance v06 - RF Exposure Procedure and Equipment Authorization Policies for Mobile and Portable Devices

Conclusion : The maximum simultaneous power of Bluetooth operation were satisfied RF exposure requirements.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


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Simultaneous power

Not applicable because only Bluetooth transmitter installed on the device

RF Exposure Evaluation

According to KDB 447498 D01 clause 4.3.1 a), transmission from 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

Calculation

- Frequency : 2.480GHz
- Max. conducted power of channel of BLE and non-BLE mode , including tune-up tolerance. : 7.4dBm
(From test report, AW0021542 and AW0021543)
- Antenna gain : 1.5dBi
- Max. e.i.r.p. : 8.9dBm (7.76mW)
- Minimum test separation distances : <5mm

where

-f(GHz) is the RF channel transmit frequency in GHz.

-Power and distance are rounded to the nearest mW and mm before calculation.

-The result is rounded to two decimal place for comparison.

Substitute above reading for calculation.

$$[(\text{mW}) / (\text{mm})] \times \sqrt{\text{GHz}}$$

Result = 2.44

Requirements: ≤ 3.00 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

Conclusion

The corresponding SAR test exclusion threshold was satisfied 4.3.1a) requirements. Measurement or numerical simulation is not required.

***** End of Evaluation *****