



# CMA Testing and Certification Laboratories

廠商會檢定中心

## RF EXPOSURE EVALUATION

Report No. : AW0056395(8) Date: 03 Jul 2020

Application No. : LW028506(0)

Applicant : CATEYE CO., LTD.

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

Product Description : Sync Core  
Model : HL-NW100RC  
Sample registration No. : RW029414-004  
Radio Frequency : 2402 – 2480MHz  
Supply voltage : DC 3.6V Rechargeable battery  
No. of submitted sample : 3

FCC ID : ON5-HLW100

Date Received : 18 Jun 2020

Evaluation Period : 22 Jun 2020 – 02 Jul 2020

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 : \_\_\_\_\_

  
Mr. WONG Lap-pong, Andrew  
Manager

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Document name: FCC RF exposure - Document Ref No: RT-EL-EMC-008 - Issue Date: 01 Dec 2017 - Edition: 1

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in [www.cmateesting.org/qac/statement-of-conformity.pdf](http://www.cmateesting.org/qac/statement-of-conformity.pdf)  
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CMA Industrial Development Foundation Limited

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.

Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: [info@cmateesting.org](mailto:info@cmateesting.org) Web Site: <http://www.cmateesting.org>



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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  $\leq 50$  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 output power	: -1.0dBm
-Antenna gain	: 0dBi
-Max. power of channel in EIRP , including tune-up tolerance	: -1.0dbm (0.794mW)
-Minimum test separation distances	: <5mm

where

-EIRP = conducted output power (dBm) + antenna gain (dBi).

-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 = 0.250

Requirements:  $\leq 3.00$  for 1-g SAR and  $\leq 7.5$  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 \*\*\*\*\*