



CMA Testing and Certification Laboratories

廠商會檢定中心

RF EXPOSURE EVALUATION

Report No. : AY0012768(2) Date: 12 Mar 2019

Application No. : LW039613(0)

Applicant : Yacht Sentinel Ltd

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

Product Description : Motion detection sensor transmitter, Temperature sensor transmitter, Door sensor transmitter, Shore power transmitter

Model : M001, T001, D001, SPU001

Sample registration No. : RY047476-001(7)

Radio Frequency : 916MHz

Supply voltage : 2 x 1.5V AAA size batteries (each model)

No. of submitted sample : 1

FCC ID : 2AR6YSEN001

Date Received : 19 Feb 2019

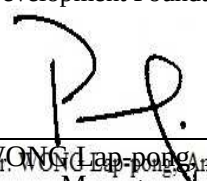
Evaluation Period : 20 Feb 2019 – 12 Mar 2019

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

Conclusion : The source-based time-averaged maximum conducted 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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Manager
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Document name: FCC RF exposure - Document Ref No: RT-EL-EMC-008 - Issue Date: 01 Dec 2017 - Edition: 1

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Simultaneous power

No Simultaneous transmission

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 : 916MHz
- Max. peak conducted output power , including tune-up tolerance : 0.025mW
- 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 = 0.0048

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 *****