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RF Exposure Evaluation

FCC ID: 2BAJP-B3

1. Client Information

| | | |
|--------------|---|--|
| Applicant | : | Zhongshan Veerman Intelligent Technology Co., LTD |
| Address | : | 6th floor, No. 23, Shengfeng Kangya Road, Xiaolan Town, Zhongshan City, Guangdong Province, China. |
| Manufacturer | : | Zhongshan Veerman Intelligent Technology Co., LTD |
| Address | : | 6th floor, No. 23, Shengfeng Kangya Road, Xiaolan Town, Zhongshan City, Guangdong Province, China. |

2. General Description of EUT

| | | | |
|---|----------------------|--|--|
| EUT Name | : | smart lock | |
| Model(s) No. | : | B3, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14 | |
| Model Different | : | All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and model name. | |
| Product Description | Operation Frequency: | Bluetooth 5.0(BLE): 2402MHz~2480MHz | |
| | Antenna Gain: | -4.44dBi Internal Antenna | |
| Power Supply | : | USB Input: DC 5V | |
| Software Version | : | ZYWERV2.8 | |
| Hardware Version | : | ZY-WER-G002 V6.3 | |
| Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab. | | | |

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1.0

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5.0$ for 10-g SAR



2. Calculation:

| Test separation: 5mm | | | | | | |
|----------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------------|-------------------|-----------------|
| Bluetooth LE | | | | | | |
| Frequency (MHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2402 | 4.454 | 4±1 | 5 | 3.162 | 0.980 | 3.0 |
| 2440 | 4.571 | 4±1 | 5 | 3.162 | 0.988 | 3.0 |
| 2480 | 4.566 | 4±1 | 5 | 3.162 | 0.996 | 3.0 |

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF REPORT-----

