

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202309-0197-11

Page: 1 of 3

RF Exposure Evaluation FCC ID: 2BC2U-4405LEQI

1. Client Information

| Applicant | | Shenzhen LC Co., Ltd | | | | |
|--------------|--|---|--|--|--|--|
| Address | | Rooms 602, Building 5, Fenghe Industrial Park, No. 1301-50 Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen China | | | | |
| Manufacturer | | Shenzhen Leqi Network Technology Co., LTD | | | | |
| Address | | Rooms 103, 501 and 601, Building 5, Fenghe Industrial Park, Nos. 1301-50 Guanguang Road, Longhua District, Shenzhen, Guangdong, China. | | | | |

2. General Description of EUT

| | Wireless Romote Controller | | | | | | |
|----|----------------------------|--|--|--|--|--|--|
| : | 4405 | | | | | | |
| 1 | HC-C-202309-0197-01 | IC-C-202309-0197-01-04-1#& HC-C-202309-0197-01-04-2# | | | | | |
| : | Operation Frequency: | Bluetooth 5.0(BLE): 2402MHz~2480MHz | | | | | |
| | Number of Channel: | Bluetooth 5.0(BLE): 40 channels | | | | | |
| | Antenna Gain: | -9.27dBi PCB Antenna | | | | | |
| e. | DC 3V | | | | | | |
| | HJ-S-V1.1 | | | | | | |
| R | : BLE4405-V1.0 | | | | | | |
| | | : 4405 : HC-C-202309-0197-01 Operation Frequency: : Number of Channel: Antenna Gain: : DC 3V : HJ-S-V1.1 | | | | | |

Remark: The antenna gain provided by the applicant, and verified for the RF conduction test and adapter provided by TOBY test lab.

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

TB-RF-074-1. 0



Page: 2 of 3

The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP $_{20cm}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| | | | | | | | | | , | | |
|-----------|---------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | Distance (mm) | | | | | | | | | | |
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| (Z) | 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| (MHz) | 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| | 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| enc | 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| Frequency | 2450 | 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| Fr | 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| | 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |





Report No.: TBR-C-202309-0197-11

Page: 3 of 3

Calculation:

| Test separation: 5mm BLE (1Mbps) | | | | | | | | |
|-----------------------------------|--------|------|----|-------|---|--|--|--|
| | | | | | | | | |
| 2.402 | -4.956 | -4±1 | -3 | 0.501 | 3 | | | |
| 2.440 | -3.763 | -3±1 | -2 | 0.631 | 3 | | | |
| 2.480 | -2.960 | -2±1 | -1 | 0.794 | 3 | | | |

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 D04, No SAR is required.

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

