

# FCC RF Exposure

**Applicant** : Dongguan Liesheng Electronics Co., Ltd.  
**Address** : Room 101, 801 & 901, No. 1 Chilong RD, Humen Town,  
Dongguan City, Guangdong Province, China  
**Product Name** : Smart Watch  
**Brand Mark** : Haylou  
**Model** : HCR01  
**Series model** : N/A  
**FCC ID** : 2AMQ6-HCR01  
**Report Number** : BLA-EMC-202608-A51-03  
**Date of Receipt** : Aug. 12, 2026  
**Date of Test** : Aug. 12, 2026 to Sep. 04, 2026  
47 CFR Part 15, Part1.1307  
**Test Standard** : 47 CFR Part 15, Part2.1093  
KDB447498D04 General RF Exposure Guidance v01  
**Test Result** : Pass

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Review by: Xavier

Approved by:   
Issued Date: Sep. 16, 2026

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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Sep. 16, 2026 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

## 1 General information

### 1.1 General information

|              |                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------|
| Applicant    | Dongguan Liesheng Electronics Co., Ltd.                                                       |
| Address      | Room 101, 801 & 901, No. 1 Chilong RD, Humen Town, Dongguan City, Guangdong Province, China   |
| Manufacturer | Dongguan Liesheng Electronics Co., Ltd.                                                       |
| Address      | Room 101, 801 & 901, No. 1 Chilong RD, Humen Town, Dongguan City, Guangdong Province, China   |
| Factory      | Chuangqi Technology Co., Ltd.                                                                 |
| Address      | No. 9, Shenzhou Road, Science City, Huangpu District, Guangzhou City, Jinpeng Industrial Park |

### 1.2 General description of EUT

|                                                                                                                                              |                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Product Name                                                                                                                                 | Smart Watch                                  |
| Model no.                                                                                                                                    | HCR01                                        |
| Operation Frequency                                                                                                                          | BLE/BT: 2402MHz-2480MHz                      |
| Modulation Type                                                                                                                              | BLE: GFSK<br>BT: GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Rate data                                                                                                                                    | BLE: 1Mbps, 2Mbps<br>BT: 1Mbps, 2Mbps, 3Mbps |
| Number of Channels                                                                                                                           | BLE: 40 Channels<br>BT: 79 Channels          |
| Antenna Type                                                                                                                                 | Wire antenna                                 |
| Antenna Gain                                                                                                                                 | -4.51dBi(Provided by customer)               |
| Power supply                                                                                                                                 | Battery DC 3.8V                              |
| Test Voltage                                                                                                                                 | DC 3.8V                                      |
| Hardware Version                                                                                                                             | N/A                                          |
| Software Version                                                                                                                             | N/A                                          |
| Remark: Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer. |                                              |

## 2 RF Exposure Compliance Requirement

### 2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

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

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

## 2.3 Result

$$\text{EIRP} = p_t \times g_t = (E \times d)^{2/30}$$

Where:

$p_t$  = transmitter output power in watts,

$g_t$  = numeric gain of the transmitting antenna (unitless),

$E$  = electric field strength in V/m,

$d$  = measurement distance in meters (m)

$$\text{Spot} = (E \times d)^{2/30} \times g_t$$

Separation distance = 0.5cm

Antenna gain: -4.51dBi

For BLE 2M(Worst case):

Max Output power = **2.670dBm @ 2442MHz**

EIRP = 2.670dBm-4.51dBi = -1.84dBm, because Max Output power > EIRP

So, Max Output power = 2.670dBm = 1.849mW < 2.751 mW

For BT Classic(8DPSK):

Max Output power = **0.740dBm @ 2441MHz**

EIRP = 0.740dBm-4.51dBi = -3.77dBm, because Max Output power > EIRP

So, Max Output power = 0.74dBm = 1.186mW < 2.752mW

Comply with RF exposure exemption limit.

----END OF REPORT----

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