

# FCC RF Exposure

**Applicant** : Shenzhen Guangyuan Haituo Technology Co., Ltd  
**Address** : No. 104, Building 78, Hualongxincun, Xiashuijing, Buji Street,  
Longgang District, Shenzhen  
**Product Name** : Wireless Mouse  
**Brand Mark** : PoseiTun  
**Model** : MS-01  
**Series model** : N/A  
**FCC ID** : 2BS84-MS01  
**Report Number** : BLA-EMC-202510-A4802  
**Date of Receipt** : Oct. 29, 2025  
**Date of Test** : Oct. 29, 2025 to Nov. 03, 2025  
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



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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Dec. 09, 2025 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

## 1 General information

### 1.1 General information

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| Applicant    | Shenzhen Guangyuan Haituo Technology Co., Ltd                                              |
| Address      | No. 104, Building 78, Hualongxincun, Xiashuijing, Buji Street, Longgang District, Shenzhen |
| Manufacturer | Shenzhen Guangyuan Haituo Technology Co., Ltd                                              |
| Address      | No. 104, Building 78, Hualongxincun, Xiashuijing, Buji Street, Longgang District, Shenzhen |
| Factory      | Shenzhen Guangyuan Haituo Technology Co., Ltd                                              |
| Address      | No. 104, Building 78, Hualongxincun, Xiashuijing, Buji Street, Longgang District, Shenzhen |

### 1.2 General description of EUT

|                     |                               |
|---------------------|-------------------------------|
| Product name        | Wireless Mouse                |
| Model no.           | MS-01                         |
| Operation Frequency | 2405MHz-2470MHz               |
| Modulation Type     | GFSK                          |
| Rate data           | 2Mbps                         |
| Number of Channels  | 8                             |
| Antenna Type        | PCB antenna                   |
| Antenna Gain        | 3.85dBi(Provided by customer) |
| Power supply        | Battery DC 3.0V               |
| Test Voltage        | DC 3.0V                       |
| Hardware Version    | N/A                           |
| Software Version    | N/A                           |

*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= 3.85dBi.

For 2.4G(Worst) :

Max Output power = **-1.77dBm @ 2405MHz**

$$\text{EIRP} = -1.77\text{dBm} + 3.85\text{dBi} = 2.08\text{dBm}$$

$$\text{So, ERP} = 2.08 - 2.15 = -0.07\text{dBm} = 0.984\text{mW} < 2.785\text{ mW}$$

Comply with RF exposure exemption limit.

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

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