

# FCC RF Exposure

**Applicant** : Shenzhen DZH Industrial Co., LTD  
**Address** : 3rd Floor, YiTuo Mike Industrial A building, Bu Yong Industrial  
D zone, Shajing street, Baoan district, Shenzhen, China  
**Product Name** : Two-fold leather case keyboard  
**Brand Mark** : N/A  
**Model** : DF013T  
**Series model** : N/A  
**FCC ID** : 2AFW2-DF013T  
**Report Number** : BLA-EMC-202509-A0502  
**Date of Receipt** : Sep. 04, 2025  
**Date of Test** : Sep. 04, 2025 to Sep. 12, 2025  
47 CFR Part 15, Part1.1307  
**Test Standard** : 47 CFR Part 15, Part2.1093  
KDB447498D04 General RF Exposure Guidance v01  
**Test Result** : Pass

Compiled by: Mark Chen

Review by: Xavier

Approved by:

Issued Date: Oct. 27, 2025



## BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Oct. 27, 2025 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

## 1 General information

### 1.1 General information

|              |                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| Applicant    | Shenzhen DZH Industrial Co., LTD                                                                                      |
| Address      | 3rd Floor, YiTuo Mike Industrial A building,Bu Yong Industrial D zone, Shajing street, Baoan district,Shenzhen, China |
| Manufacturer | Shenzhen DZH Industrial Co., LTD                                                                                      |
| Address      | 3rd Floor, YiTuo Mike Industrial A building,Bu Yong Industrial D zone, Shajing street, Baoan district,Shenzhen, China |
| Factory      | Shenzhen DZH Industrial Co., LTD                                                                                      |
| Address      | 3rd Floor, YiTuo Mike Industrial A building,Bu Yong Industrial D zone, Shajing street, Baoan district,Shenzhen, China |

### 1.2 General description of EUT

|                     |                                |
|---------------------|--------------------------------|
| Product Name        | Two-fold leather case keyboard |
| Model No.           | DF013T                         |
| Operation Frequency | 2402MHz-2480MHz                |
| Modulation Type     | GFSK                           |
| Transmission Rate   | 1Mbps                          |
| Channel Spacing     | 1MHz                           |
| Number of Channels  | 79                             |
| Antenna Type        | Chip antenna                   |
| Antenna Gain        | 2.7dBi (Provided by customer)  |
| Power supply        | Battery DC 3.7V                |
| Test Voltage        | DC 3.7V                        |
| Hardware Version    | VER09                          |
| Software Version    | V1.0                           |

*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

Ant gain = 2.7dBi

For BT Classic(8DPSK): Worst case

Max Output power = **-7.663dBm @ 2480MHz**

$$\text{EIRP} = -7.663\text{dBm} + 2.7\text{dBi} = -4.963\text{dBm}$$

$$\text{So, ERP} = -4.963\text{dBm} - 2.15 = -7.113\text{dBm} = 0.194\text{mW} < 2.717\text{mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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