

# RF Exposure

**Applicant** : Shenzhen DZH Industrial Co., LTD  
3rd Floor, YiTuo Mike Industrial A building, Bu Yong

**Address** : Industrial D zone, Shajing street, Baoan district,  
Shenzhen, China

**Product Name** : Tri-fold leather case keyboard

**Brand Mark** : N/A

**Model** : DF012T

**Series model** : N/A

**Report Number** : BLA-EMC-202507-A4203

**FCC ID** : 2AFW2-DF012T

**Date of Receipt** : Jul. 11, 2025

**Date of Test** : Jul. 17, 2025 to Jul. 24, 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: *charlie*      Review by: *Xavier*      Approved by: *State Zheng*  
Issued Date: Jul. 25, 2025



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

Address: Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,  
Shenzhen, Guangdong Province, China



*The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.*

## Table of Contents

<b>1 General information</b> .....	<b>4</b>
1.1 General information .....	4
1.2 General description of EUT .....	4
<b>2 Laboratory and accreditations</b> .....	<b>5</b>
<b>3 RF Exposure Compliance Requirement</b> .....	<b>6</b>
3.1 Standard Requirement .....	6
3.2 Limits .....	6
3.3 Result .....	7

## Revise Record

Version No.	Date	Description
01	Jul. 25, 2025	Original

BlueAsia

## 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	Tri-fold leather case keyboard
Model No.	DF012T
Series model	N/A
Differences of Series model	N/A
Power supply or adapter information	DC5V
Hardware Version	V001
Software Version	V1.0
Engineer sample no	BLA-EMC-202507-A42
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

#### For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	-0.58dBi(Provided by customer)

## 2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

### 3 RF Exposure Compliance Requirement

#### 3.1 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.

#### 3.2 Limits

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

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

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	

### 3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz )	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
BLE 1M	2402	-2.157	0.61	-0.58	-4.887	0.32	2.79	Pass

ERP=Max Output power+Ant gain-2.15

Comply with RF exposure exemption limit.

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.