

## RF EXPOSURE REPORT

### FOR

<b>Applicant</b>	:	Tstudy China Corporation Limited
<b>Address</b>	:	1108, Gaode building, No. 10, Huayuan East Road, Haidian District, Beijing
<b>Equipment under Test</b>	:	Dot matrix digital pen
<b>Model No.</b>	:	TD-701,TD-701S
<b>Trade Mark</b>	:	Tstudy
<b>FCC ID</b>	:	2AWU9-701S
<b>Manufacturer</b>	:	Tstudy China Corporation Limited
<b>Address</b>	:	1108, Gaode building, No. 10, Huayuan East Road, Haidian District, Beijing

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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# REPORT

**TABLE OF CONTENTS**

- Test report declares.....3
- 1. General information ..... 5
- 1.1. Description of Equipment..... 5
- 1.2. Assess laboratory..... 5
- 2. RF Exposure evaluation for FCC..... 5

## TEST REPORT DECLARE

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**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

<b>Report No:</b>	DDT-R20060408-1E6		
<b>Date of Receipt:</b>	Jun. 04, 2020	<b>Date of Test:</b>	Jun. 04, 2020 ~ Jul. 24, 2020

**Prepared By:**

*Sam Li*

**Sam Li/Engineer**

**Approved By:**

*Damon Hu*

**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

### Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jul. 24, 2020	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	: Dot matrix digital pen
Model Number	: TD-701,TD-701S
Model differences	: Only the appearance and mode name are different, there is no other difference.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from USB : DC 3.8V by Polymer Li-ion built-in battery
Radio Specification	: Bluetooth V4.2
Operation frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK
Data rate	: 1 Mbps
Antenna Type	: Chip antenna, maximum PK gain: 1.50 dBi
Sample Type	: Series production

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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## 2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where:

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

**Manufacturing Tolerance**

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-2	-4	-6
Tolerance ±(dB)	1	1	1
GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	-1
Tolerance ±(dB)	1	1	1

**Estimation Result**

Worse case is as below: [2402MHz, 1.0 dBm, 1.29 mW) output power]

$(1.32/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.398 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**