

## RF Exposure Evaluation Report

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Applicant's company    | Wacom Co., Ltd.                                     |
| Applicant Address      | 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan |
| FCC ID                 | HV4CTL4100WL                                        |
| Manufacturer's company | Wacom Co., Ltd.                                     |
| Manufacturer Address   | 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan |

|                  |                                             |
|------------------|---------------------------------------------|
| Product Name     | Pen Tablet                                  |
| Brand Name       | Wacom                                       |
| Model Name       | CTL-4100WL                                  |
| Ref. Standard(s) | 47 CFR FCC Part 2 Subpart J, section 2.1093 |
| Received Date    | Nov. 16, 2017                               |
| Final Test Date  | Dec. 21, 2017                               |
| Submission Type  | Original Equipment                          |



Kevin Liang / Assistant Manager





## Table of Contents

|           |                                     |          |
|-----------|-------------------------------------|----------|
| <b>1.</b> | <b>GENERAL DESCRIPTION .....</b>    | <b>4</b> |
| 1.1.      | EUT General Information .....       | 4        |
| 1.2.      | Testing Location Information.....   | 4        |
| <b>2.</b> | <b>RF EXPOSURE EVALUATION .....</b> | <b>5</b> |
| 2.1.      | Applicable Standard .....           | 5        |
| 2.2.      | SAR evaluation .....                | 5        |

### **PHOTOGRAPHS OF EUT V01**



## History of This Test Report

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FA7N1309AD | Rev. 01 | Initial issue of report | Dec. 29, 2017 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## 1. GENERAL DESCRIPTION

### 1.1. EUT General Information

| RF General Information |                       |                           |                                                |
|------------------------|-----------------------|---------------------------|------------------------------------------------|
| Evaluation Mode        | Frequency Range (MHz) | Operating Frequency (MHz) | Modulation Type                                |
| Bluetooth              | 2400-2483.5           | 2402-2480                 | BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK) |

### 1.2. Testing Location Information

| Testing Location                           |        |                                                                                                                           |
|--------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)<br>TEL : 886-3-327-3456 FAX : 886-3-327-0973    |
| Test site Designation No. TW1190 with FCC. |        |                                                                                                                           |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)<br>TEL : 886-3-656-9065 FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |        |                                                                                                                           |

## 2. RF EXPOSURE EVALUATION

### 2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

### 2.2. SAR evaluation

- Per FCC KDB 447498 D01 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
  - $f_{\text{(GHz)}}$  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

| Tune-up Average Power |      | Test Distance<br>(mm) | Frequency<br>(GHz) | Exclusion Thresholds |
|-----------------------|------|-----------------------|--------------------|----------------------|
| (dBm)                 | (mW) |                       |                    |                      |
| 5.69                  | 3.71 | 5                     | 2.441              | 1.2                  |

- Per FCC KDB 447498 D01 v06 exclusion thresholds is  $1.2 < 3$ , RF exposure evaluation is not required.