

# RF EXPOSURE REPORT

**REPORT NO.:** SA140421E04 R1

**MODEL NO.:** CS-600

**FCC ID:** HV4CS600

**RECEIVED:** Apr. 21, 2014

**TESTED:** Apr. 24, 2014

**ISSUED:** May 14, 2014

**APPLICANT:** Wacom Co., Ltd.

**ADDRESS:** 2-510-1 Toyonodai, Kazo-shi, Saitama  
349-1148 Japan

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,  
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,  
R.O.C.

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## RELEASE CONTROL RECORD

| ISSUE NO.      | REASON FOR CHANGE   | DATE ISSUED  |
|----------------|---------------------|--------------|
| SA140421E04    | Original release    | May 13, 2014 |
| SA140421E04 R1 | Revised model name. | May 14, 2014 |

## 1. CERTIFICATION

**PRODUCT:** Active stylus for tablets  
**BRAND NAME:** Wacom  
**MODEL NO.:** CS-600  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Wacom Co., Ltd.  
**TESTED DATE:** Apr. 24, 2014  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (Model: CS-600) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Midoli Peng , **DATE:** May 14, 2014  
( Midoli Peng, Specialist )

**APPROVED BY :** May Chen , **DATE:** May 14, 2014  
( May Chen, Manager )

## 2. EVALUATION RESULT

### Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) 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:
  - [(max. power of channel, including tune-up tolerance, mW)/(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
    - Ø  $f(\text{GHz})$  is the RF channel transmit frequency in GHz
    - Ø Power and distance are rounded to the nearest mW and mm before calculation
    - Ø The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot (f(\text{MHz})/150)$ ] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot 10$ ] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### 3. SAR TEST EXCLUSION THRESHOLDS

Maximum measured transmitter power:

| Frequency (GHz) | Max. Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value <sup>(NOTE 2)</sup> | 10-g extremity SAR test exclusion thresholds | Result |
|-----------------|-----------------|------------------------------------|--|--|--------|
| 2.402 ~ 2.480   | 2.612           | 5                                  | 0.810  | 7.5  | Pass   |

**NOTE:** 1. The antenna type is Chip antenna with 0.5dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

### 4. CONCLUSION

Since peak power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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