

RF EXPOSURE REPORT



FCC Applicant: Wacom Co., Ltd.
2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan

Product Name: Creative Pen display

Brand Name: Wacom

Model No.: DTH135, DTH135K0A, DTH135xxxxx (where x may be English Alphabet a to z or digital numeral serial no, 0-9 or blank)

Model Difference: The main body (creative pen display) are the same. Packing labels are different for different sales areas.

Report Number: TESA2309000548ES

FCC ID HV4DTH135

Issue Date: Oct. 20, 2023

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. Central RF Lab. The evaluation in this report is in compliance with FCC KDB 447498 D01v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2309000548ES	00	Original	Oct. 20, 2023	Cindy Chou	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Creative Pen display
Brand Name:	Wacom
Model No.:	DTH135, DTH135K0A, DTH135xxxxx (where x may be English Alphabet a to z or digital numeral serial no, 0-9 or blank)
Model Difference:	The main body (creative pen display) are the same. Packing labels are different for different sales areas.

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab
Report Number:	TERF2309002337E2

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2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 Standalone test exclusion for EMR:

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for EMR (0.5625MHz) shall be evaluated as below,

- For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 0.5625MHz
- The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.
- Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

- $d) : [3/\sqrt{0.1}] \cdot 50 = 474.3416\text{mW}$
- $c) : 474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$
- $b) : 474.3416 \cdot [1 + \log(100/0.59375)] = 1530.414\text{mW}$
- $a) : 153.414 \cdot 0.5 = 765.207\text{mW}$

So the SAR test exclusion power threshold for EMR(0.59375MHz) is 765.207mW(equal to 28.84dBm).

Also, the maximum power of EMR is -87.14757 dBm (converted from 8.01 dBuV/m at 3m) and it is far below the exclusion threshold (28.84dBm), so SAR test for EMR can be excluded.

EMR

Freq. (MHz)	E-FIELD dBuV/m	Test Distance (m)	EIRP (dBm)	EIRP (mW)	Exemption Limit (mW)
0.59375	8.01	3	-87.14757	0.00000000193	765.207

Note:

$$\text{EIRP (dBm)} = (\text{E-FIELD(dBuV/m)} + 20\log(d(\text{m})) - 104.7$$

$$\text{EIRP(W)} = (10^{(\text{EIRP(dBm)}/10)})/1000$$

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