

RF Exposure Report

Report No.: SABBMN-WTW-P21080472

FCC ID: HV4-AS2201W

Test Model: AS2201w

Received Date: 2021/8/11

Test Date: 2021/9/11

Issued Date: 2021/9/24

Applicant: Wacom Co., Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
SABBMN-WTW-P21080472	Original release.	2021/9/24

1 Certificate of Conformity

Product: DELL Active Pen
Brand: DELL
Test Model: AS2201w
Sample Status: Engineering sample
Applicant: Wacom Co., Ltd.
Test Date: 2021/9/11
Standards: FCC Part 2 (Section 2.1093)
KDB 447498 D01 General RF Exposure Guidance v06

The above equipment 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 : Phoenix Huang , **Date:** 2021/9/24
Phoenix Huang / Specialist

Approved by : Clark Lin , **Date:** 2021/9/24
Clark Lin / Technical 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 ≤ 50 mm are determined by:
[[max. power of channel, including tune-up tolerance, mW]/(min. test separation distance, mm)] $\cdot \sqrt{f(\text{GHz})}$
 ≤ 3.0 for 1-g SAR and ≤ 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. The test exclusions are applicable only when the minimum test separation distance is ≤ 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 - 50mm) \cdot (f(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 ≤ 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 ≤ 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

Operation Mode	Evaluation Frequency (MHz)	Max. Avg. Power (dBm)	Max. Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value (mW/mm)	10-g SAR test exclusion thresholds (mW/mm)	Result
BT LE-1M	2402-2480	2.24	1.675	5	0.528	7.5	Pass
BT LE-2M	2402-2480	2.24	1.675	5	0.528	7.5	Pass

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Calculate SAR test exclusion thresholds from condition 1) formulas.

4 Conclusion

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

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