

RF EXPOSURE REPORT

REPORT NO.: SA121207C05A

MODEL NO.: PWS-770xxxxxxxxxxxxxxxxx

("X" can be 0-9 or A-Z or blank or any

alphanumeric character)

FCC ID: M82-PWS-770MC

RECEIVED: Mar. 25, 2013

TESTED: Apr. 04 ~ Apr. 16, 2013

ISSUED: Apr. 22, 2013

APPLICANT: ADVANTECH CO., LTD

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ISSUED BY: Bureau Veritas Consumer Products Services

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
SA121207C05A	Original release.	Apr. 22, 2013	

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1. CERTIFICATION

PRODUCT: Computer

MODEL NO.: PWS-770xxxxxxxxxxxxxxxx ("X" can be 0-9 or A-Z or blank

or any alphanumeric character)

BRAND:

APPLICANT: ADVANTECH CO., LTD

TESTED: Apr. 04 ~ Apr. 16, 2013

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TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1093)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (model: PWS-770) 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: Celine Chon, DATE: Apr. 22, 2013

Celine Chou / Specialist

APPROVED BY: _______, DATE: _______, DATE: ________, Apr. 22, 2013



2. EVALUATION RESULT

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

- 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)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 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)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·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(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.

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3. SAR TEST EXCLUSION THRESHOLDS

Maximum measured transmitter power:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g extremity SAR test exclusion thresholds	Result
2402 ~ 2480MHz (Bluetooth EDR)	7.621	5	2.361	3	Pass
2402 ~ 2480MHz (Bluetooth LE 4.0)	/1 /2/2/	5	1.310	3	Pass

NOTE: 1. The antenna type is PCB antenna with 1.86748dBi gain.

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

4. CONCLUSION

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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