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RF Exposure REPORT

FCC SAR Exclusion Report for WSP-R350

APPLICANT
WOOSIM SYSTEMS INC.

REPORT NO.
HCT-SR-2201-FC009

DATE OF ISSUE
Jan. 20, 2022

Technical Manager
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(signature)

Accredited by KOLAS, Republic of KOREA

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TEST REPORT

REPORT NO.
HCT-SR-2201-FC009

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Jan. 20, 2022

Additional Model
-

Applicant WOOSIM SYSTEMS INC.
60, Sandan-ro 388beon-gil, Chwisaeng-ri, Galsan-myeon,, Korea

Eut Type Mobile Printer
Model Name WSP-R350

FCC ID QDD-WSPR350

Max. RF Output Power 4.0dBm (2.51 mW)

Modulation type GFSK

FCC Classification Digital Transmission System(DSS)

FCC Rule Part(s) 47CFR §2.1093

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	Jan.20, 2022	Initial Release

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 AND KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.(HCT Accreditation No.: KT197)

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1. EUT DESCRIPTION

Model	WSP-R350
EUT Type	Mobile Printer
Frequency Range	2 402 MHz – 2 480 MHz
Maximum power	4.0 dBm (2.51 mW)
Protocol	L2CAP, RFCOMM, SDP
Bluetooth Version	3.0 / Class2 (10m)
Profile	GAP, SDAP, SPP

2. TEST METHODOLOGY for FCC

Body and Limb SAR Test Exclusions Applied _Bluetooth ver.3.0

Since this product is a Mobile Printer, it is used by most users in the hand and the Body, so Body and Limb SAR standard are applied.

According to the FCC KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

$$\frac{\text{Max Power of Channel(mW)}}{\text{Test Separation Distance (mm)}} * \sqrt{\text{Frequency(GHz)}} \leq 3.0 \text{ For 1g SAR, 7.5 for 10g SAR}$$

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

Calculation Result::

Tx frequency range: 2 402 MHz ~ 2 480 MHz

Body and Limb SAR Consideration Min. test separation distance: 5 mm

Maximum Output Power: 2.51 mW

The Highest RF channel frequency: 2 480 MHz

For Body SAR Exclusion.

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 3.0 for 1g SAR
	[MHz]	[mW]	[mm]	
Bluetooth 3.0	2 480	2.51	5	0.9

For Limb SAR exclusion

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 7.5 for 10g SAR
	[MHz]	[mW]	[mm]	
Bluetooth 3.0	2 480	2.51	5	0.9

Based on the maximum output power of Bluetooth 3.0 and antenna to use separation distance, Bluetooth Body and Limb SAR were not required.