

Certification Exhibit

FCC ID: SNA-CFR2 IC: 9458-CFR2

FCC Rule Part: 15.247 IC Radio Standards Specification: RSS-210

ACS Report Number: 11-0003.W06.45.A

Manufacturer: Woodstream Corporation Model: 5144R

RF Exposure

General Information:

Applicant: Woodstream Corporation ACS Project: 11-0003.W06.45.A Device Category: Mobile / Portable Environment: General Population/Uncontrolled Exposure Operating Configuration: PC Peripheral / Handheld

Technical Information:

Antenna Type: Skywave dipole antenna part number 81-3000-A Antenna Gain: 3dBi Maximum Transmitter Conducted Power: 19.43dBm, 87.70mW Maximum System EIRP: 22.43dBm, 174.98mW

RF Exposure Compliance Justification:

For portable applications model 5144R operates in a handheld configuration only. There are no provisions or accessories for body-worn applications. Per KDB 447 498 D01 V04 4(c)(iii), hand SAR is required for hand-held and hand-operated devices with output power > 1000·[f(GHz)]^(-0.5)mW that are designed with the hand operating closer than 5 cm from the antenna during normal use.

Model 5144R is exempt from SAR based on the output power (higher of conducted or EIRP) being < 1000*[f(GHz)]^(-0.5)mW. SAR threshold and maximum equipment EIRP calculations are provided below. MPE calculations are also provided for satisfying mobile RF exposure conditions.

SAR Threshold = 1000*[2.4417]^(-0.5)mW = 639.96mW Maximum Equipment EIRP = 174.98mW

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment							
Limits for General Population/Uncontrolled Exposure*							
Transmit	Radio	Power	Radio	Antenna	Antenna	Distance	Power Density
Frequency	Power	Density Limit	Power	Gain	Gain (mW		(mW/cm^2)
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	eq.)	(cm)	(mw/cm^2)
2441.7	19.43	1.00	87.70	3	1.995	20	0.035

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

<u>RF Exposure</u>

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.