



NATIONAL TECHNICAL SYSTEMS, INC.

www.ntscorp.com

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American Telecommunications Certification Body, Inc.
6731 Whittier Avenue
Suite C110
McLean, VA 22101

FCC ID: XWS-CKD
IC ID : 8721A-CKD

SAR/RF Exposure:

Although SAR/MPE calculations are not required for this device due to the low power output, the following SAR evaluation is included for reference.

As per FCC rules no SAR/MPE evaluation is required provided the power is below the following threshold:

Tunable range of device: 2402 -2481 MHz
Center of tunable band : 2441 MHz

SAR Limitation in mW based on center of band
= 60/fmhz
= 60/2441
= 0.02458 w or 24.58 mW

Therefore 24.58 mW is the threshold for no SAR Evaluations. In this case the maximum output powers are as follows:

Max Antenna Gain = 0.68 dBi
Conducted Power = -0.55 dbm
RF Power output of device (Antenna gain + Maximum Conducted RF Power output)= 0.13 dBm
RF Power out put in mW = 1 mW
S (power density) at 20 cm: 0.000205 mW/cm²

Therefore the maximum output power including antenna gain is 1 mW, well below the SAR evaluation threshold of 24.58 mW.

Sincerely,
Glen Moore
Wireless/EMC Manager
NTS