

1 GENERAL**1.1 Purpose**

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Innovation, Science, and Economic Development Canada's Radio Standards Specification RSS-247 Certification for modular approval.

1.2 Product Description

The MBN52832 is a Bluetooth Low Energy (BLE) module designed for IoT applications. The module consists of an nRF52832 SoC from Nordic Semiconductor. This SoC contains a 2.4 GHz BLE radio along with an integrated microprocessor to run the BLE software stack. Customers can load application software into the device that allows the module to do various tasks – measure a voltage, set an output bit, transmit data to another unit, etc. Basic radio operation (output power, channelization, etc.) is operated by the lower levels of the BLE stack and is not accessible to the module user.

Technical Information:

Detail	Description
Frequency Range	2402 - 2480 MHz
Number of Channels	40
Modulation Format	GFSK
Data Rates	1 MBPS
Operating Voltage	Coin Cell Battery: 3Vdc External Power Supply: 5Vdc Universal Serial Bus: 5Vdc
Antenna Type / Gain	Printed Trace Antenna: -2.5 dBi CUSHCRAFT S2406PL Patch Antenna: 6 dBi LCom HG2407RD-RSP Dipole Antenna: 7dBi

Manufacturer Information:

Murata Electronics North America
2200 Lake Park Drive
Smyrna, GA 30080

Test Sample Serial Number: Radiated Emissions: FCC Unit 2, FCC Conducted 1
Power Line Conducted Emissions: FCC Conducted 1
RF Conducted: FCC Conducted 1

Test Sample Condition: The test samples were provided in good working order with no visible defects.