



20 July 2007  
Ref: US000146

To FCC

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**Overall Assessment Letter for RIM Model RBN41GW  
FCC id: L6ARBN40GW**

I have reviewed this composite application and find it compliant  
This is an application for a handheld Blackberry which supports both GSM and Bluetooth  
Please note the following:

1: Part 15 Clause 15.203

While not explicitly reported within the Test report there is ready evidence within the application showing that the DSS Antenna is internal to the equipment and not able to be changed without damage to the equipment.

2: Test Set up photos

This exhibit includes files covering the

- Test Set up for the EMC and Radio tests
- Test Set up for the SAR tests
- Test Set up for the HAC tests.

3: Spread Spectrum Declarations

The various declarations to meet the Spread Spectrum requirements are included in the Operating Description exhibit.

4: Part 15 Clause 15.205

While not explicitly reported within the Test report the results for Clause 15.209 demonstrate that the equipment is compliant to this requirement.

5: SAR

5.1 General

The highest reported Head SAR was 1.09 W/kg at 1850.2 MHz when transmitting on 1 slot  
The Highest Reported Head SAR in the lower frequency Range was 0.93 W/kg at 824.2 MHz when transmitting in two slots

The highest Reported Body SAR was 1.11 W/kg at 1909.8 MHz using Holster 5 with Bluetooth Active. The Highest Reported Body SAR in the lower frequency Range was 1.07 W/kg at 848.8 MHz using Holster 5.

The highest Body SAR with 2.5 cms separation was 0.38 at 836.6 MHz.



The SAR was evaluated using the FCC provided checklist. I received SAR Training from the FCC in May 2003.

5.2 Bluetooth and Co-Transmission

The Bluetooth Transmitter is categorically exempt and below the low threshold.. No SAR evaluation occurred with this transmitter operating singly.

The Product supports simultaneous transmission. There was no significant change in Body SAR value when both transmitters were active.

6: HAC Testing

6.1 Speaker and T-Coil

The client/Lab have confirmed that the Speaker and T-coil are "Nearly" concentric. The T-coil is offset by 2mm from the centre of the speaker. Appropriate tests were performed.

6.2 Plots For T-Coil

The Client/Lab confirmed that full testing took place as listed in the results summary even though the Appendix only lists worst case plots for E-field and H Field in the appendix.

7: AC Conducted testing

RTS-0671-0706-15: (Part 15B) The Summary on Page 7 states " The Sample EUT had a worst case test margin of 6.18 dB below the QP limit at 0.806 MHz and 10.56 below the AV limit at 0.803 MHz using the test configuration 1"

The Client/Lab provided the following satisfactory explanation

"The measurements were done using the Q.P. detector. Since the Q.P. measurements had a test margin of > 10 dB with respect to the QP limit, the measurements with the average detector is not required. The 3.52 dB average test margin at 0.168 MHz is based on the Q.P. detector measurement using the average test limit."

Yours sincerely

A handwritten signature in blue ink, appearing to read 'H Carr', is written over a faint blue circular stamp.

Hilton Carr  
Task Manager, Certification and Technical Development