

## STATEMENT

This filing constitutes a formal submittal and request for Class-II permissive change pursuant to Subpart C & E of Part 15 of FCC rules (CFR 47) regarding changes to intentional radiators.

A change is being proposed to following existing FCC grant:

Company Name: Broadcom Corporation

**FCC ID: QDS-BRCM1007**

WLAN mini PCI multiband card (incorporating 2.4GHz & 5GHz radios) Model# BRCM94309MP in Dell Laptop Models PP05L, PP07L, PP02X, PP04S, PPT, PP10L.

### CLASS-II PERMISSIVE CHANGES

Changes made to WLAN mini PCI card are detailed under attached document **“Manufacturer’s Declaration”**

### ANTENNA DETAILS

- **EMC:** All radiated measurements were done on worst-case antenna platforms, i.e. PP05L with 5.6dBi Hitachi Antenna for 5GHz band  
PP10L with 2.9dBi Phycomp Antenna for 2.4GHz band.
- **SAR:** Based upon the worst-case configurations from the original QDS-BRCM1007 filing, 5GHz SAR testing was performed on PP02X with WNC antenna and 2.4GHz testing was performed on PPT with WNC antenna.

Dell Model (Internal Name)	Supplier	Max Peak Gain 5GHz	Max Peak gain 2.4GHz/dBi	Model number
1 - Dell PP05L (Bondi)	Wistron NeWeb	Main- 4.62 dBi, Aux- 2.31dBi	Main- 2.18 Aux- 2.26	CA5-Q
2 -Dell PP05L (Bondi)	Hitachi	Main- 5.6dBi, Aux- 4.9dBi	Main- 1.2 Aux- .9	HFT01-DL01
3 -Dell PP07L (Abacus)	Phycomp	3.9	2.2	4313 334 01250 Left Antenna. 4313 334 02250 Right Antenna
4 - Dell PP07L (Abacus)	Wistron NeWeb	4.5	2.55	CAA-C
5 - Dell PP02X (Lindbergh)	Hitachi	Main- 2.3 dBi Aux- 4.9 dBi	1.1	Main Antenna HFT04-DL01- MAIN Aux Antenna HFT04-DL01-AUX
6 - Dell PP02X (Lindbergh)	Wistron NeWeb	Main- 3.29 dBi Aux- 3.47 dBi	2.39	CA9-C
7 - Dell PP04S (Blade)	Wistron NeWeb	3.20	1.22	CA0-S
8 - Dell PP04S (Blade)	Hitachi	3.7	1.7	HFT-06
9 -Dell PPT (Pebble)	Wistron NeWeb	4.09	2.59	CAB-A
10 - Dell PP10L (P2)	Phycomp	3.1	2.9	4313 351 012501 Main Antenna. 4313 351 032501 Aux Antenna
11 - Dell PP10L (P2)	Wistron NeWeb	4.49	1.51	EBB-Q

**CETECOM Inc.**  
 411 Dixon Landing Road  
 Milpitas, CA 95035  
 U.S.A.  
 Phone: + 1 408 586 6200  
 Fax: + 1 408 586 6299  
 e-mail: [info@cetecomusa.com](mailto:info@cetecomusa.com)  
 URL: [www.cetecom.com](http://www.cetecom.com)

## SUMMARY OF TESTING

### **EMC/Radio Test Reports:**

#### ***Test report no. EMC\_573FCC15.247\_2003***

This test report covers all testing done in 2.4GHz band on Dell Laptop Model# PP10L with 2.9dBi max. gain Phycomp Antenna.

#### ***Test report no. EMC\_573FCC15.407\_2003***

This test report covers all testing done in 5GHz band on Dell Laptop Model# PP05L with 5.6dBi max. gain Hitachi Antenna.

### **SAR Test reports:**

#### ***Test report no. SAR\_573\_2003\_FCC\_2450***

This test report covers SAR testing done in 2.4GHz band on Dell Laptop Model# PPT with WNC antenna.

#### ***Test report no. SAR\_573\_2003\_FCC\_5000***

This test report covers SAR testing done in 5GHz band on Dell Laptop Model# PP02X with WNC antenna.

Harpreet Sidhu  
EMC & Radio Engineer