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To FCC

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**Overall Assessment Letter for Ericsson Mobile Broadband Module F3307  
FCC id: VV7-MBMF33071-D**

I have reviewed this Class 2 Permissive change and find it compliant.

This is an application to permit installation of this module in a Dell Inspiron 1012 Laptop which also includes a Bluetooth Module and one of a set of possible WLAN modules which can co-transmit with this module. The F3307 has been assessed for installation in the Dell Inspiron 1012 laptop model. This laptop, within which the F3307 module is being integrated supports Laptop mode only. The identification for each applicable module is provided in the Cover letter from Ericsson.

The F3307 module is a variant of the F3607gw module (FCC ID: VV7-MBMF3607GW1-D), with differences not impacting Radio/EMC/SAR (Part 22/24/2.1093). The SAR results filed under FCC ID VV7-MBMF3607GW1-D pertaining to the Ericsson F3607gw WWAN module are also applicable to this filing under FCC ID VV7-MBMF33071-D due to the models being identical in all respects where potential to affect SAR are concerned. The SAR test report number EAB-09:073321 Uen Rev B demonstrates compliance for the F3307 based on the similarities and the SAR report pertains to the same host laptop which was previously filed under VV7-MBMF3607GW1-D on 12/08/2009. The WWAN antenna gain is lower than previous approvals (i.e. lower than for 850MHz - 2.10dBi and 1900MHz – 4.98dBi).

The maximum obtained SAR level for the WWAN module was 0.03W/kg within the host.

The Intel WiMAX/WiFi Link 6250 (FCC ID: E2K625ANXH) was subject to SAR test within the host and the maximum SAR level obtained was 0.1W/kg. Note: The maximum SAR level for the module configured in a host laptop with a 15.2 cm antenna-to-user separation is 0.117W/kg as listed on the FCC database.

The Atheros AR5B95 (FCC ID: PPD-AR5B95) was subject to SAR test within the host and the maximum SAR level obtained was 0.00772W/kg. Note: The maximum SAR level for the module configured in a host laptop with a 16.1 cm antenna-to-user separation is 0.072W/kg as listed on the FCC database.

The Broadcom BCM94313HMGB (FCC ID: QDS-BRCM1051) was not subject to SAR test within the host. The module was tested previously within a laptop host which yielded a maximum SAR level for the module with a 16.1 cm antenna-to-user separation of 0.00661W/kg as listed on the FCC database. This module, in accordance to KDB 447498 Section 2 was therefore not required to be tested further. The host applicable for this filing provides a 16.4 cm antenna-to-user separation.

The Broadcom BCM94313HMG2L (FCC ID: QDS-BRCM1050) was not subject to SAR test within the host. The module was tested previously within a laptop host which yielded a maximum SAR level for the module with a 1.8 cm antenna-to-user separation of 0.193W/kg as listed on the FCC database. This module, in accordance to KDB 447498 Section 2 was therefore not required to be tested further. The host applicable for this filing provides a 16.4 cm antenna-to-user separation.

The Broadcom BCM94312HMG (FCC ID: QDS-BRCM1030) was not subject to SAR test within the host. The module was tested previously within a laptop host which yielded a maximum SAR level for the module with a 16 cm antenna-to-user separation of 0.183W/kg as listed on the FCC database. This module, in accordance to KDB 447498 Section 2 was therefore not required to be tested further. The host applicable for this filing provides a 16.4 cm antenna-to-user separation.

All of the previously measured SAR results were less than 0.4W/kg and the antennas were installed at a distance less than that which is applicable in this filing. Taking the maximum individual SAR contributions in respect of simultaneous transmission for the antennas which are within 20cm of each other, the summation of the WWAN + WLAN SAR are found to be within the FCC limits for RF Exposure of 1.6W/kg. Therefore simultaneous transmission SAR testing was not required to be carried out.

I underwent the FCC RF exposure training with the FCC in October 2009.

Yours sincerely



Vina Kerai  
Certification Engineer