EMC/SAR

1) Please provide information regarding compliance to 15.407(c). If this information has already been provided, kindly show where this information is located.

   15.407(c): (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Data transmission is always initiated by software, which is then passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets (ACKs, CTS, PSPoll, etc...) are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted.

DFS Related:

2) The previous response to item 8 suggests that the device was granted as a client only for the 5260 – 5320 MHz band. However this does not appear to explain why the operational description states the device utilizes infrastructure or ad hoc (peer to peer) modes. Please explain further or clarify. (i.e. is the reference to ad hoc/peer to peer only for other modes such as 802.11b or the 5725 – 5850 band and therefore the 5260 – 5320 MHz band only operates in infrastructure mode?). Without clarification of the Intel Product Overview supplied, it appears the card is capable of ad hoc/peer to peer in the 5250 – 5350 MHz band.

The Intel PRO/Wireless 3945ABG Network Connection operates as follows:

Channels 1 – 11, 2412 – 2462MHz, active scanning, infrastructure and adhoc modes are allowed.

Channels 36 – 64, 5180 – 5320MHz, passive scanning and infrastructure mode is only allowed, the WLAN card only operates as a client.

Channels 149 – 165, 5745 – 5850MHz, passive scanning and infrastructure mode is only allowed, the WLAN card only operates as a client.

3) The previous response to item 10 simply references the previous approval of the card. Please note that each application must stand on its own, therefore this information should be provided for this application and not simply reference the previous approval. Please explain:

How is DFS software/firmware protected to ensure users do not have access to DFS settings. Additionally, for USA, devices may not have country selection as this would not be allowed under 15.15. Please explain and also clarify how users are prevented from disabling DFS and/or transmitting in frequencies not authorized in United States?

The Intel PRO/Wireless 3945ABG Network Connection channel operation, allowed channels and output power information is programmed into the EEPROM and can not be changed by the end user. The user is not given the capabilty to alter any of these parameters within the EEPROM.