



January 19, 2005

RE: Hewlett-Packard Company

FCC ID: B94WM3945ABG

[Answers to the ATCB comments on the above referenced Application.](#)

1. The manual provided appears to limit Intel's responsibility in the case of modifications, but does not appear to explain to the user that their authority to operate voids their use of the equipment (15.21). Please update the manual as necessary.

[Refer to "HP Users Guide" exhibit.](#)

2. The integrators manual should caution the installer/OEM that the user should not be provided any information on how to access/install/remove this device from the end host device. Please correct or show where this information is presented in the current manual.

[Refer to "HP Users Guide" exhibit.](#)

3. Please explain the limit of 68 dBuV/m on pages 33 and 65 of the DTS report. This limit appears to be associated with the UNII limits, but for this device the 5 GHz upper band is being approved under DTS rules. Please review.

[Refer to "Test Report – FCC 15.247 – Rev. A" & "Test Report – RSS210 A8 – Rev. A" reports. New limits were added.](#)

4. Page 38 of the DTS report show peak measurements at 2487 MHz which exceed avg limits and therefore should also show average results. Please review.

[Refer to "Test Report – FCC 15.247 – Rev. A" & "Test Report – RSS210 A8 – Rev. A" reports. An average measurement was added to the data.](#)

5. Page 66 of the DTS report appears to show a typo in one of the readings. Please review.

[Refer to "Test Report – FCC 15.247 – Rev. A" & "Test Report – RSS210 A8 – Rev. A" reports.](#)

6. Page 26 and 36 of the UNII report show peak measurements at 5353 MHz which exceed avg limits and therefore should also show average results. Please review.

[Refer to "Test Report – FCC 15.407 – Rev. A" & "Test Report – RSS210 6.2.2.q1 – Rev. A" report. An average measurement was added to the data.](#)

7. PSD results appear to us video averaging and not power averaging for UNII. Please refer to attached public notice for correct procedures.

[Refer to "Test Report – FCC 15.407 – Rev. A" & "Test Report – RSS210 6.2.2.q1 – Rev. A" report. New plots were added.](#)



10. The IC REL listing letter should be provided by the applicant since it will be under their name. Please provide a corrected IC REL listing letter.

Refer to “Letter – IC Acknowledgment HP” exhibit.

11. Will the IC listing require the model to be listed as WM3945ABG (Ant 1) or similar as done in other application similar to this? Please confirm.

Not for this original application but if any PCII are added those will continue as Ant1, Ant 2, etc.

12. Label does not appear to contain applicants name for IC per RSS-210, section 5.2 issue 1. Please correct.

Refer to “System Label Artwork” & “System Label Artwork2” exhibits.

13. The RSS-210 report (RSS-210, A8, pg 14) for DTS mentions the use of an oscscope for power measurements, while the values appear to be the same as the FCC using a power meter. Please review.

Refer to “Test Report – RSS210 A8 – Rev. A” report.

14. The users manual does not appear to contain the following information according to RSS-210 Annex 9.5 (g):

the maximum antenna gain permitted (for devices in the 5250-5350 MHz and 5470-5725 MHz bands) to comply with the e.i.r.p. limit

Refer to “Canadian Notices” exhibit

15. Please explain compliance of the results shown on page 45 of the test report as the measurements are actually in Hz, not MHz and therefore appear to be erroneous. It is unsure how you related measurements in /Hz to /MHz.

Refer to “Test Report –FCC 15.407 – Rev. A & Test Report – RSS 210 6.2.2.q1 – Rev. A” report. That was a typo should be /Hz not /MHz.

16. With the current PSD and power results in the IC report, the device appears not to meet the requirement of RSS-210, Issue 5, 6.2.2 (q1) (iv):

Within the emission bandwidth, when the peak spectral density per MHz over any continuous transmission exceeds the average ($10 \text{ Log}_{10} B$) value by more than 3 dB, the permissible power spectral density shall be reduced by the excess amount.

Please review. (i.e. my calculations show that at 5260 MHz power is $68 \text{ mW} = 18.3 \text{ dBm}$. limit = $18.3 \text{ dBm} - 10 \log 17.6 + 3 = 8.8 \text{ dBm}$, while the measurement was shown to be 10.2 dBm).

Refer to “Test Report –FCC 15.407 – Rev. A & Test Report – RSS 210 6.2.2.q1 – Rev. A” report. New plots were added.