



October 2, 2008

Supplement to EMC test report (Exhibit 6A2) for Motorola portable cellular phone (FCC ID: IHDP56JK1)

Reference:

Correspondence Reference Number: IHD80864

Confirmation Number: 809100864-7

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WLAN Band edge

Additional information for listed question number 4:

4. In the WLAN Radiated Emission report, the resolution on most of the plots (e.g. pp.31-40) is so poor as to not be able to read the frequencies where the emissions occur at the lower band edge. Please resubmit with higher resolution plots. It appears that the peak emission levels at the 2390 MHz restricted band exceed the average limit. Please provide average field strength data demonstrating compliance of the emissions in this restricted band.

The change of PC and installation of our tools at the test site has lead to an unforeseen default setting that lead to compression of the data we generate for the test reports. The default compression has now been removed and evidence data will also be created using different settings to increase the quality of the obtained data.

The test report is normally generated in a laser printing resolution quality as defined by Microsoft in Word (200 dpi), in order to be able to generate *.pdf files that fulfill the FCC report size requirements of 3 MB.

Due to the issues above the resolution had been reduced more than anticipated.

The updated test report:

EMC 22302-1 Pearl (WiFi) TA WLAN FCC 15.247-RAD report3.pdf

The band edge graphs are now with a higher resolution. It is true that the emission levels (with peak detector) are above the average limit line at 2390 MHz restricted band. The graphs always show both the average and the peak limit lines. Also evident is a line at the restricted band edge at 2390 MHz.

With the use of peak detector there will still be a margin to the average limit line at 54 dB μ V/m as the data obtained does not cross the peak limit line at 74 dB μ V/m also indicated on the graphs.

Normally we have used the rules in FCC part 15.35(b) to cope for this difference. In the updated test report APPENDIX-3 covers a measurement of the worst case band edge using the average detector, to improve the evidence for compliance with the restricted band requirements.

Further analyses of the band-edge are placed in the report appendix, where other FCC rules have been applied to support the evidence for band-edge compliance. For this product we also tested against the FCC part 15.247(d) requirements at the lower band edge between 2390 MHz and 2400 MHz (Outside the restricted bands defined in CFR 47 part 15.205(a) and for high band edge the delta-marker method was applied as well, see report pp. 39-45.



Conclusion

The data for the test reports will be monitored for all future test report in order to avoid reading quality issues with respect to the selected report resolution (200 dpi).

The additional evidence for IHDP56JK1 indicates that the product is still tested compliant to the CFR 47 part 15 regulations.