



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

August 28, 2003

RE: Dekolink Wireless Ltd.

FCC ID: OIWDR80050W90B

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) The FRN Number provided (0009032668) appears to be invalid from checking on the FCC website. Please provide a correct FRN number for Dekolink Wireless Ltd.
- 2) Clear Top and Bottom Photographs are required for all components in the RF path (Filters, Amplifiers, Channler, Diplexers, etc.). Additionally, most photographs provided are not clear enough (when possible these should be focused, not too dark, with no glare spots) or show adequate detail. Please provide clearer and/or higher resolution photographs.
- 3) Due to the fonts style uses on the label, the letter "S" and Number "5" and the letter "B" and Number "8" can not be adequately distinguished. Please provide an updated label that utilizes a different font.
- 4) Parts lists should be provide for all components given in the RF path. The information provided shows that the high power amplifiers are OEM equipment. Are the LNAs, Channler, ALC circuits, diplexers, Digital Filters, etc. designed and/or built by Dekolink? If so, please provide internal parts lists for all components in the RF path manufactured by Dekolink. Otherwise, please provide a parts list that shows the vendor of each of these components used.
- 5) It appears that the schematics provided are only for certain components in the RF path. Schematics should be provided for all aspects of the RF path manufactured by Dekolink, unless they are listed as OEM equipment in the parts list. Please provide any missing schematics.
- 6) For purposes of the FCC grant, please confirm that this devices retransmits the same frequencies received. If not, please provide further explanation of the EUT.
- 7) Please provide a Tune up procedure over power range.
- 8) Note: FYI, because this is a licensed device, RF exposure issues are addressed at the time of licensing for the end user of this device. Therefore the RF exposure exhibit has not been evaluated. It is suggested that the RF exposure section also be removed from the test report.
- 9) This device contains ALC/AGC circuitry. Please explain the derivation of the input drive level provided into the EUT in order to obtain the maximum power output.
- 10) Since the device contains AGC circuitry, please provide data/tables showing the measured output power vs. input level from the lowest expected input to the maximum rated input power allowed (approx -51 dBm to +10 dBm, etc.)
- 11) The maximum output rating for the downlink in the test report is 9.55 Watts. The operational description states a 10 Watt rating. Note that the FCC expects the unit to be adjusted for worse case conditions expected while following the tune up procedure performed by the factory. The worse case condition will be shown on the grant and it is expected all manufactured units will be equal to or less than this value. Please verify the worse case output power and if necessary have the manufacture adjust for worse case conditions following their tune up procedures and remeasure.
- 12) Please comment on if this device is designed for single carrier or multi-carrier use. Has the output power been checked for multi-carrier conditions?
- 13) Please comment on if the input signals supplied to the unit are considered a typical expected input signal (level and modulation). Additionally, please provide a list of expected modulations for use with this device (731 form listed D7W). Note that certain tests must be performed for all expected modulation types.
- 14) Please provide justification for the use of D7W emissions.

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- 15) Radiated spurious emissions are not necessary to be performed for 3 carriers but instead with a narrow band CW signal. Note that a single channel creates a higher power level which usually creates higher level spurious emissions. Please provide additional radiated spurious emissions for a single carrier configuration. For future applications it is necessary to only perform this test using the single carrier method.
- 16) It appears as if plot 58 and 59 are identical and that a plot may have been left out. Please verify.
- 17) Conducted measurements were made using 2 carrier signals. Since the ALC circuit is based on composite power, and a single carrier will contain higher power with possible higher sidebands, please provide additional plots using a single carrier.
- 18) Section 4.5 (radiated emissions) should be performed using the substitution method. It does not appear that this occurred. Please explain.
- 19) FYI...An easy way to deal with limits for antenna conducted is that $43 + 10 \log (P)$ equals a limit of -13 dBm.
- 20) FYI...The FCC just released basic checklist to TCB's regarding this type of device. Although not considered complete, it gives a basic idea of some of the FCC's expectations. I have enclosed this in an attachment for future reference.



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Examining Engineer

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.