

To: (Hermon Labs) Marina Chernyavsky
Subject: WaveIP, Ltd. - Duty cycle issue.

Marina,

In wrapping up the last issue on the response (duty cycle), a concern was noted about the results. It appears that the only difference between the RSU and BSU is the duty cycle. The operational description states the data rate for both versions stays the same and only the duty cycle changes. However the information provided in the last response addressed only an RSU (as labeled on the duty cycle plots) which gave a maximum 50% duty cycle. Note that the operational description mentions a maximum 2 mB throughput data rate for an RSU. If the data provided was actually mislabeled as an RSU and was actually for a BSU, it is uncertain how 50% gives an 8.5 mB throughput for a maximum 11 mB radio.

From reviewing the users manual and operational description, it appears the duty cycle for a BSU is higher, but the data rate is still the same. The operational description mentions a maximum 8.5 mB throughput data rateSimply based on a maximum data rate of 11 mB radio (given in the operational description), with a TDMA of 8.5 mB (based on the operational description) for the BSU, this conceivably gives a duty cycle of $8.5/11 = 77.3\%$. However the report mentions a 65% duty cycle. Note that using a 77.3% over 65% duty cycle appears to cause a failure of compliance of the plot shown in A72.

We require further clarification/explanation of the duty cycle issue relative to BSU and RSU's. If there is a difference of duty cycle between RSU and BSU, then measurements of the worse case must be provided. Currently it is uncertain of how the worse case BSU duty cycle will compare to the RSU. It is also uncertain on how if the data rate never changes, that at 50% duty cycle = 2 mB throughput, what the duty cycle would be for 8.5 mB throughput without any change in data rate. Further explanation is necessary.

Please let me know.

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