Title: Effects of Microwave Interference On IEEE 802.11WLAN Reliability

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Author: Jim Zyren, jzyren@harris.com 
and Bruce Kraemer, bkraemer@harris.com
Harris Semiconductor

Submitted by: Bruce Kraemer
Harris Semiconductor
bkraemer@harris.com

NTIA Report: “Max Hold” Spectrum Analyzer Plot
MWO Duty Cycle

![MWO Duty Cycle Diagram]

Spectrographic Interference Profile

![Spectrographic Interference Profile Diagram]
Time Domain Interference Profile

Condition B

Condition C

Condition B - Swept NB Jammer

Submission
Jim Zyren, Harris Corp.
Condition B - Packet Timing

![Condition B Diagram]

Condition C - Swept NB Jammer

![Condition C Diagram]
**Condition C - Packet Timing**

![Diagram showing packet timing](image)

**DSSS Radio with MWO Jammer**

![Diagram showing DSSS radio with MWO jammer](image)
**DSSS Radio w/MWO Interference**

*Packet Timing (worst case)*

![Diagram showing packet timing](image)

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**Theoretical Performance: DS vs. FH with MWO Interference**

![Graph showing theoretical performance](image)
FHSS@1Mbps: PER vs. Eb/No for Various Packet Lengths (bytes)

DSSS@1Mbps: PER vs. Eb/No for Various Packet Lengths (bytes)