

May 1998

doc.: IEEE 802.11-98/240a

Title:
Effects of Microwave Interference On IEEE 802.11 WLAN Reliability

Date: May 1998

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

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

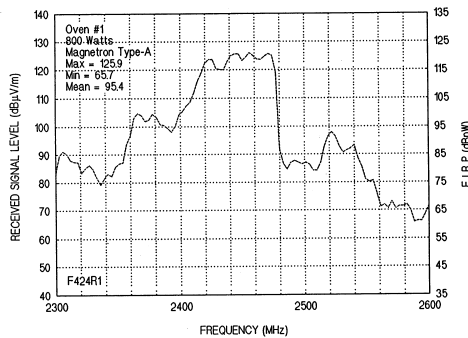
Submission

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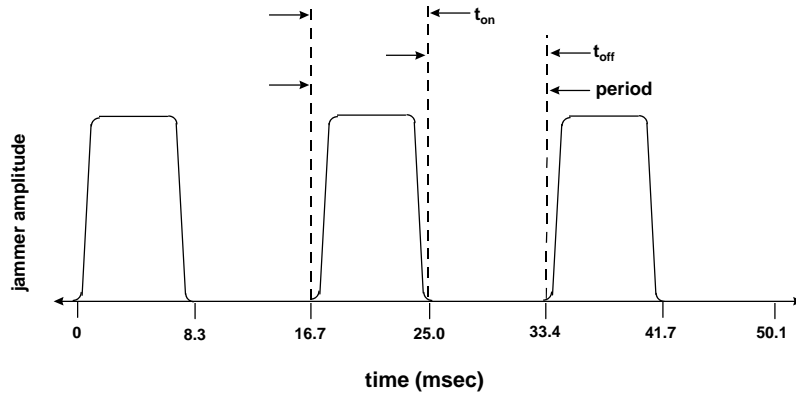
*NTIA Report:
“Max Hold” Spectrum Analyzer Plot*



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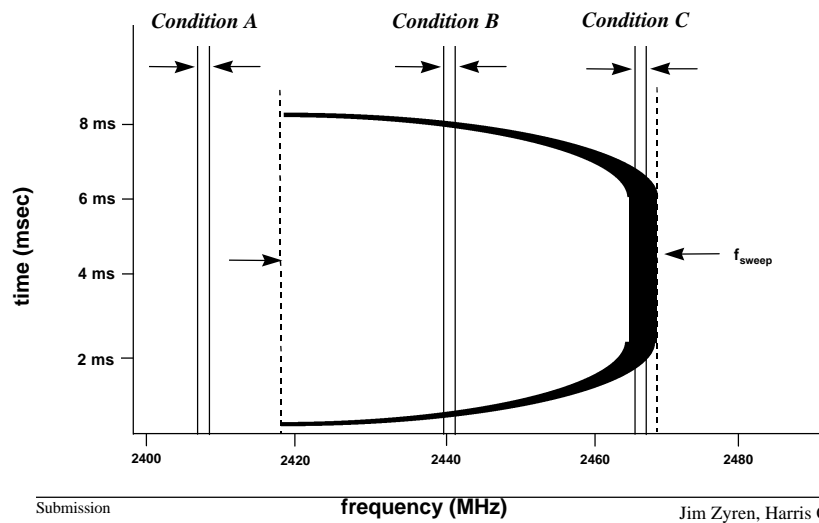
MWO Duty Cycle



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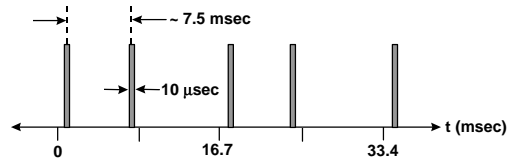
Spectrographic Interference Profile



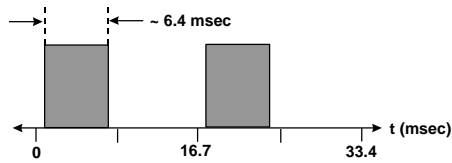
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Time Domain Interference Profile

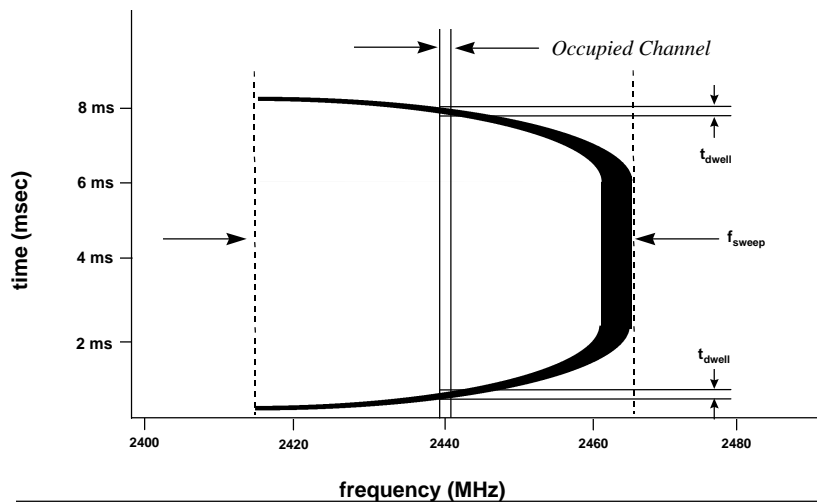


Condition B

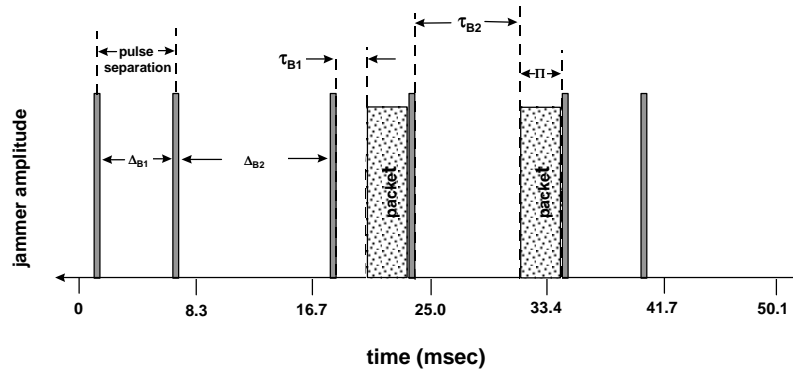


Condition C

Condition B - Swept NB Jammer



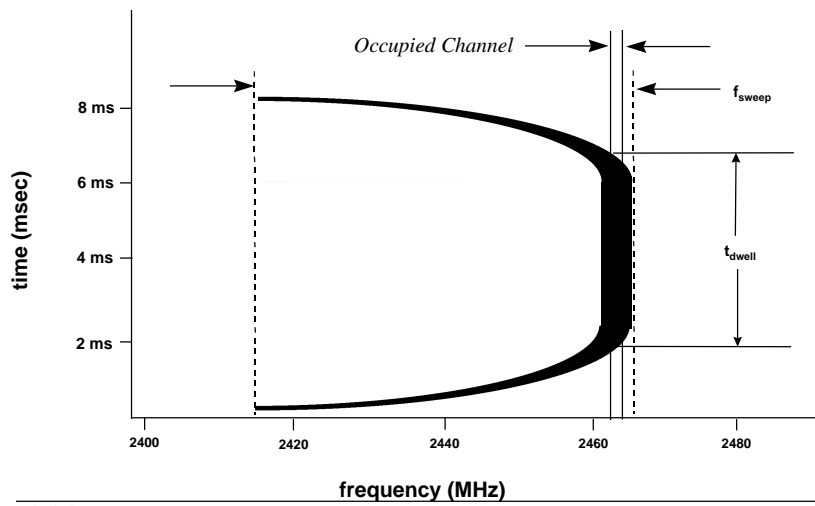
Condition B - Packet Timing



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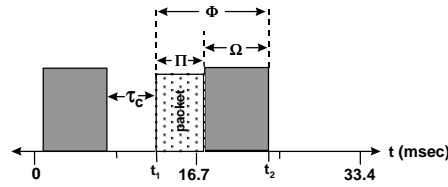
Condition C - Swept NB Jammer



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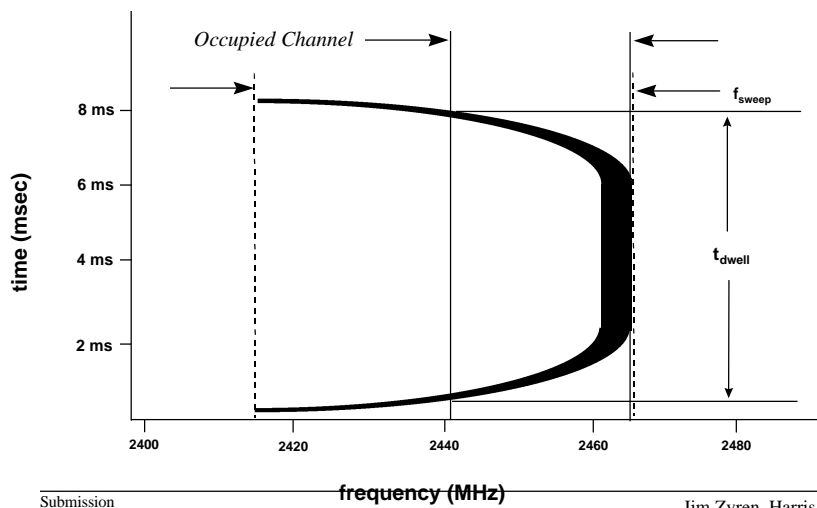
Condition C - Packet Timing



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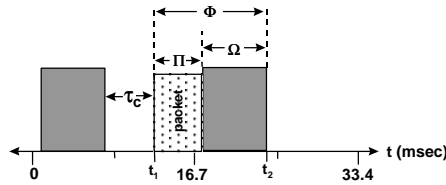
DSSS Radio with MWO Jammer



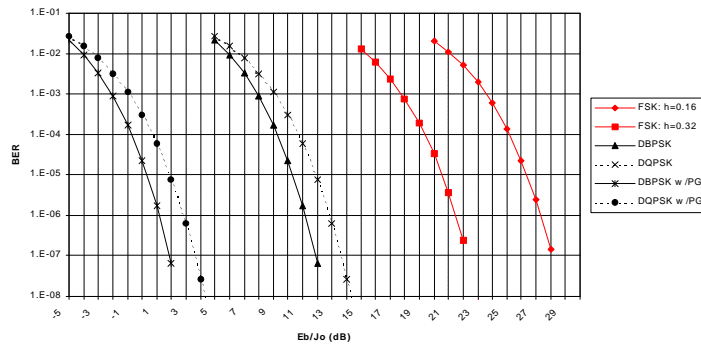
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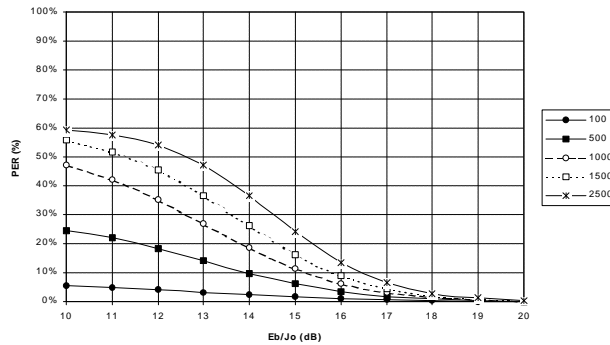
DSSS Radio w/MWO Interference Packet Timing (worst case)



Theoretical Performance: DS vs. FH with MWO Interference



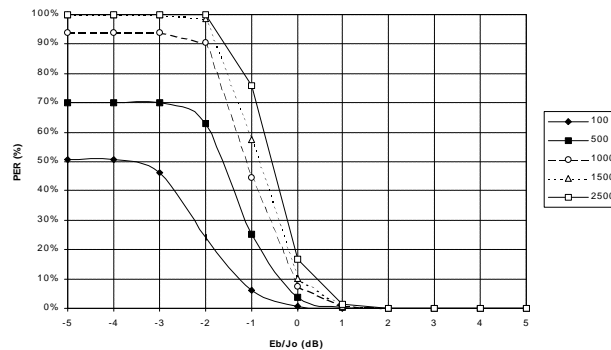
FHSS@1Mbps: PER vs. Eb/No for Various Packet Lengths (bytes)



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



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